

**Iowa Department of Natural Resources  
Title V Operating Permit**

**Name of Permitted Facility: ADM Corn Processing - Clinton**

**Facility Location: 1251 Beaver Channel Parkway  
Clinton, IA 52732**

**Air Quality Operating Permit Number: 06-TV-007R1**

**Expiration Date: 9/21/2028**

**Permit Renewal Application Deadline: 3/21/2028**

**EIQ Number: 92-0265**

**Facility File Number: 23-01-006**

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**Responsible Official**

**Name: Eric Fasnacht**

**Title: Plant Manager**

**Mailing Address: 1251 Beaver Channel Parkway, Clinton, IA 52732**

**Phone #: (563) 242-1121**

**Permit Contact Person for the Facility**

**Name: Bobby Peropat**

**Title: Environmental Manager**

**Mailing Address: 1251 Beaver Channel Parkway, Clinton, IA 52732**

**Phone #: (563) 241-4533**

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit. Three Title V Permits are being issued for the ADM Corn Processing – Clinton (one stationary source). This permit is for the Corn Processing portion of the facility. Title V permit 11-TV-007R2 was issued for the CO-GEN Plant portion of the facility. A third Title V permit 17-TV-002R1 was issued for the Bioprocessing plant.

**For the Director of the Department of Natural Resources**



09/22/2023

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Marnie Stein, Supervisor of Air Operating Permits Section

Date

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## Abbreviations

|                 |   |
|-----------------|---|
| acfm .....      | actual cubic feet per minute                  |
| CFR.....        | Code of Federal Regulation                    |
| CE .....        | control equipment                             |
| CEM.....        | continuous emission monitor                   |
| °F.....         | degrees Fahrenheit                            |
| EIQ.....        | emissions inventory questionnaire             |
| EP.....         | emission point                                |
| EU.....         | emission unit                                 |
| gr./dscf .....  | grains per dry standard cubic foot            |
| HCl.....        | Hydrogen Chloride                             |
| IAC .....       | Iowa Administrative Code                      |
| Iowa DNR.....   | Iowa Department of Natural Resources          |
| MVAC .....      | motor vehicle air conditioner                 |
| NAICS .....     | North American Industry Classification System |
| NSPS.....       | new source performance standard               |
| ppmv .....      | parts per million by volume                   |
| lb./hr.....     | pounds per hour                               |
| lb./MMBtu ..... | pounds per million British thermal units      |
| SCC.....        | Source Classification Codes                   |
| scfm .....      | standard cubic feet per minute                |
| SIC .....       | Standard Industrial Classification            |
| TPY.....        | tons per year                                 |
| USEPA.....      | United States Environmental Protection Agency |
| VOL.....        | Volatile Organic Liquid                       |

### Pollutants

|                         |  |
|-------------------------|--|
| PM .....                | particulate matter                                 |
| PM <sub>10</sub> .....  | particulate matter ten microns or less in diameter |
| PM <sub>2.5</sub> ..... | particulate matter 2.5 microns or less in diameter |
| SO <sub>2</sub> .....   | sulfur dioxide                                     |
| NO <sub>x</sub> .....   | nitrogen oxides                                    |
| VOC.....                | volatile organic compound                          |
| CO.....                 | carbon monoxide                                    |
| HAP .....               | hazardous air pollutant                            |

# I. Facility Description and Equipment List

Facility Name: ADM Corn Processing - Clinton

Permit Number: 06-TV-007R1

Facility Description: Wet Corn Milling (SIC 2046)

## Equipment List

| Emission Point Number | Emission Unit Number | Emission Unit Description               | DNR Construction Permit Number |
|-----------------------|----------------------|---|--------------------------------|
| <b>ALCOHOL</b>        |                      |   |                                |
| 39-2                  | EU39-2A              | A8 Aldehyde Stripping Column            | 20-A-174-S1                    |
|                       | EU39-2B              | A9 Rectifier Column                     |                                |
| 39-4                  | EU39-4               | A-8 Feed Tank                           | 96-A-006-S2                    |
| 43-1                  | EU43-1               | MR-4 Stillage Evaporator                | 02-A-810-S2                    |
|                       | EU43-2               | Stillage Tank 1                         |                                |
| 53-1                  | EU53-1               | R-1 Stripping Column                    | 96-A-485-S1                    |
| 58-1                  | EU58-1A              | 111 Fermenter                           | 95-A-234-S11                   |
|                       | EU58-1B              | 112 Fermenter                           |                                |
|                       | EU58-1C              | 113 Fermenter                           |                                |
|                       | EU58-1D              | 114 Fermenter                           |                                |
|                       | EU58-1E              | 115 Fermenter                           |                                |
|                       | EU58-1F              | 116 Fermenter                           |                                |
|                       | EU58-1G              | 117 Fermenter                           |                                |
|                       | EU58-1H              | 118 Fermenter                           |                                |
|                       | EU58-1I              | 119 Fermenter                           |                                |
|                       | EU58-1J              | 120 Fermenter                           |                                |
|                       | EU58-1K              | 121 Fermenter                           |                                |
|                       | EU58-2A              | 122 Fermenter                           |                                |
| EU58-2B               | 123 Fermenter        |   |                                |
| 61-6                  | EU61-6               | #1 & #2 Anhydrous Vents                 | 93-A-372-S4                    |
| 64-5a                 | EU64-5               | No. 1 Anhydrous Column                  | 18-A-033                       |
| 64-12                 | EU64-6               | Beer/Beverage Stills & Beverage Columns | 95-A-505-S4                    |
|                       | EU64-12              | Beer/Beverage Stills & Beverage Columns |                                |
|                       | EU64-13              | Fusel Oil Tank                          |                                |
|                       | EU64-14              | Recycle Tank                            |                                |
|                       | EU64-15              | Product Tank                            |                                |
| 71A-1                 | EU71A-1              | Caustic Stripper                        | 05-A-507-S3                    |
| 71-9                  | EU71-9               | CO <sub>2</sub> Stripper                | 05-A-506-S3                    |
|                       | EU71-9A              | CO <sub>2</sub> Stripper Feed Tank      |                                |
| 72-2                  | EU72-2               | DI Water Tank                           | NA                             |
| 72-5                  | EU72-5               | RGSG 3 Tank                             | NA                             |
| 72-7                  | EU72-7               | T2 Fructose Alcohol Tank                | NA                             |
| 72-8                  | EU72-8               | T1 Greens Tank                          | NA                             |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>          | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|---|---------------------------------------|
| 72-9                         | EU72-9                      | R1 Stripper Tank #1                       | NA                                    |
| 72-10                        | EU72-10                     | R1 Stripper Tank #2                       | NA                                    |
| 72-13                        | EU72-13                     | Antifoam Storage Tank                     | NA                                    |
| 73-3                         | EU73-23                     | Yeast Propagator 1                        | 15-A-516                              |
|                              | EU73-24                     | Yeast Propagator 2                        |                                       |
|                              | CE73-5                      | Propagator Knockout Tank                  |                                       |
|                              | EU72-7                      | Distillation Reprocess Tank               |                                       |
| 78-1                         | EU73-11                     | 108 Stillage Tank                         | 96-A-722-S5                           |
|                              | EU73-12                     | 110 Stillage Tank                         |                                       |
|                              | EU73-5                      | Mix Tank                                  |                                       |
|                              | EU78-8                      | MR-3 Stillage Evaporator                  |                                       |
|                              | EU78-9                      | MR-2 Stillage Evaporator                  |                                       |
|                              | EU78-10                     | MR-1 Stillage Evaporator                  |                                       |
| 73-15                        | EU73-15                     | 109 Fermenter                             | NA                                    |
| 73-16                        | EU73-16                     | 107 Fermenter                             | NA                                    |
| 73-17                        | EU73-17                     | 105 Fermenter                             | NA                                    |
| 73-19                        | EU73-19                     | 103 Fermenter                             | NA                                    |
| 73-20                        | EU73-20                     | 101 Fermenter                             | NA                                    |
| 77-2                         | EU77-2                      | Gin Still #1                              | 05-A-508                              |
|                              | EU77-3                      | Gin Still #2                              |                                       |
| 77-6                         | EU77-6                      | RGSG-1 Tank                               | NA                                    |
| 77-9                         | EU77-9                      | RGSG-2 Tank                               | NA                                    |
| 77-10                        | EU77-10                     | GHT-1 Tank                                | NA                                    |
| 77-11                        | EU77-11                     | GHT-2 Tank                                | NA                                    |
| 77-12                        | EU77-12                     | GHT-3 Tank                                | NA                                    |
| YRD-24                       | EUYRD-24                    | Fusel Oil Tank 2                          | NA                                    |
| YRD-25                       | EUYRD-25                    | Fusel Oil Tank 1                          | NA                                    |
| YRD-26                       | EUYRD-26                    | 190-2 Tank                                | 95-A-231-S1                           |
| YRD-27                       | EUYRD-27                    | 190-1 Tank                                | 95-A-230-S1                           |
| YRD-34                       | EUYRD-34                    | 200-2 Tank                                | 95-A-233-S1                           |
| YRD-35                       | EUYRD-35                    | 200-1 Tank                                | 95-A-232-S1                           |
| YRD-36                       | EUYRD-36                    | AS-101 Tank                               | NA                                    |
| YRD-38                       | EUYRD-38                    | AS-103 Tank                               | NA                                    |
| YRD-40                       | EUYRD-40                    | CDA-1 Tank                                | 93-A-368-S3                           |
| YRD-41                       | EUYRD-41                    | CDA-2 Tank                                | 93-A-369-S3                           |
| YRD-42                       | EUYRD-42                    | CDA-3 Tank                                | 93-A-370-S4                           |
| YRD-43                       | EUYRD-43                    | GAS-1 Tank                                | 95-A-247-S2                           |
| YRD-44                       | EUYRD-44                    | GAS-2 Tank                                | 95-A-248-S3                           |
| YRD-45                       | EUYRD-45                    | Inhibitor-1 Tank                          | 95-A-252-S3                           |
| YRD-46                       | EUYRD-46                    | AS-107 Tank                               | 95-A-504-S1                           |
| YRD-47                       | EUYRD-47                    | AS-108 Tank                               | 96-A-482-S1                           |
| YRD-L2                       | EUYRD-L2                    | Ethanol Truck Loadout                     | 05-A-509-S3                           |
| YRD-L3                       | EUYRD-L3                    | Ethanol Rail Loadout – Fuels and Beverage | 05-A-510                              |
| YRD-L4                       | EUYRD-L4                    | Ethanol Barge Loadout                     | 05-A-511                              |
| YRD-F5                       | EUYRD-F5                    | Lower End Ethanol Truck Loadout           | 05-A-513                              |
| YRD-L6                       | EUYRD-L6                    | Lower End Ethanol Rail Loadout            | 05-A-512                              |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b>  | <b>Emission Unit Description</b> | <b>DNR Construction Permit Number</b> |
|------------------------------|------------------------------|----------------------------------|---------------------------------------|
| <b>ELEVATOR</b>              |                              |                                  |                                       |
| 1-8                          | EU1-3                        | Grain Handling                   | 14-A-234-S3                           |
|                              | EU1-4                        | Grain Handling                   |                                       |
|                              | EU1-9                        | Bucket Elevator                  |                                       |
| B-15                         | EU15-1                       | CR Hopper No. 2                  | 94-A-592-S3                           |
|                              | EU15-1R                      | CR Scale Drag Conveyor           |                                       |
|                              | EU15-2                       | CR Hopper No. 3                  |                                       |
|                              | EU15-2R                      | CR Jump Drag Conveyor            |                                       |
|                              | EU15-3                       | CR Rail Elevator                 |                                       |
|                              | EU15-4                       | CR Low Bridge Belt No. 2         |                                       |
|                              | EU150-5                      | CR Silo Feed Drag Conveyor       |                                       |
|                              | EU150-6                      | CR Silo Discharge Belt Conveyor  |                                       |
|                              | EU150-7                      | CR Silo Elevator                 |                                       |
| EU150-8                      | CR High Bridge Belt Conveyor |                                  |                                       |
| 15-F1                        | EU15-F1                      | Truck Unloading Fugitives        | NA                                    |
| 15-F2                        | EU15-F2                      | Truck/ Rail Unloading Fugitives  | NA                                    |
| YRD-49                       | EUYRD-49                     | No. 2 Steel Tank                 | 95-A-241-S3                           |
| YRD-50                       | EUYRD-50                     | No. 1 Steel Tank                 | 16-A-437                              |
| 94-1                         | EU94-1                       | Corn Screenings Transfer Line    | 05-A-394                              |
| 94-2                         | EU94-2                       | Corn Screenings Storage Tank     | 05-A-395                              |
| 94-3                         | EU94-3                       | Corn Screenings Loadout Conveyor | 05-A-396                              |
| 150-1                        | EU150-1                      | CR Silo No. 1                    | 05-A-709-S1                           |
| 150-2                        | EU150-2                      | CR Silo No. 2                    | 05-A-710-S1                           |
| 150-3                        | EU150-3                      | CR Silo No. 3                    | 05-A-711-S1                           |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b> | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|----------------------------------|---------------------------------------|
| <b>FEED</b>                  |                             |                                  |                                       |
| 11-30                        | EU11-30                     | No. 1 Pellet Cooler              | 94-A-422-S4                           |
| 11-31                        | EU11-31                     | No. 2 Pellet Cooler              | 11-A-441-S2                           |
| 11-32                        | EU11-32                     | No. 3 Pellet Cooler              | 11-A-442-S2                           |
| 11-33                        | EU11-33                     | No. 4 Pellet Cooler              | 11-A-443-S2                           |
| 38-15                        | EU38-15                     | Feed Silo No. 1                  | 72-A-189-S1                           |
| 38-16                        | EU38-16                     | Feed Silo No. 2                  | 03-A-1271-S1                          |
| 38-17b                       | EU38-17b                    | Gluten Meal Silo 3               | 17-A-301                              |
| 38-18                        | EU38-18                     | Gluten Silo No. 4                | 16-A-434                              |
| 38-19b                       | EU38-19b                    | Germ Meal Silo No. 5             | 17-A-003-S1                           |
| 38-63                        | EU38-1                      | Pellet Loadout Rail              | 94-A-303-S4                           |
|                              | EU38-2                      | Pellet and Gluten Loadout Truck  |                                       |
|                              | EU38-3                      | Gluten Loadout Rail              |                                       |
|                              | EU38-20                     | Germ Meal Loadout                |                                       |
| 38-F1                        | EU38-F1                     | Gluten Loadout Fugitive          | NA                                    |
| 38-F2                        | EU38-F2                     | Feed Loadout Fugitive            | NA                                    |
| 57-16                        | EU57-16                     | Feed Barge Loadout               | 86-A-022                              |
| 57-F1                        | EU57-F1                     | Pellet Barge Loadout             | NA                                    |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>                           | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|--|---------------------------------------|
| 57-F2                        | EU57-F2                     | Pellet Truck Loadout                                       | NA                                    |
| 57-F3                        | EU57-F3                     | Germ Rail and Truck Loadout Fugitives                      | NA                                    |
| 216-01                       | EU216-01A                   | Germ Screens 1 to 6  | 06-A-035-S5                           |
|                              | EU216-01B                   | Germ Presses 1-6   |                                       |
|                              | EU216-01C1                  | No. 1 Steam Tube Germ Dryer                                |                                       |
|                              | EU216-01C2                  | No. 2 Steam Tube Germ Dryer                                |                                       |
|                              | EU216-01C3                  | No. 3 Steam Tube Germ Dryer                                |                                       |
|                              | EU216-01C4                  | No. 4 Steam Tube Germ Dryer                                |                                       |
|                              | EU216-01C5                  | No. 5 Steam Tube Germ Dryer                                |                                       |
|                              | EU216-01D                   | Germ Filtrate Tank   |                                       |
| 216-02                       | EU216-02                    | Fluid Bed Germ Dryer                                       | 08-A-440-S2                           |
| 216-03                       | EU216-03                    | Fluid Bed Germ Cooler                                      | 08-A-441-S1                           |
| 236-01                       | EU236-01                    | Fiber Dryer #1   | 06-A-037-S4                           |
| 236-02                       | EU236-02                    | Fiber Dryer #2   | 06-A-038-S4                           |
| 236-03                       | EU236-03                    | Fiber Dryer #3   | 06-A-039-S4                           |
| 236-04                       | EU236-04                    | Fiber Dryer #4   | 06-A-040-S4                           |
| 236-05                       | EU236-05                    | Gluten Flash Dryer #1                                      | 06-A-041-S3                           |
| 236-06                       | EU236-06                    | Gluten Flash Dryer #2                                      | 06-A-042-S3                           |
| 236-07                       | EU236-07A01 to -07A09       | Fiber Press Screens 01-09                                  | 06-A-043-S5                           |
|                              | EU236-07A10 to -07A18       | Fiber Press 01-09  |                                       |
|                              | EU236-07A25 to -07A30       | Fiber Centrifuge 1-6                                       |                                       |
|                              | EU236-07A31 to -07A32       | Dewatered Fiber Conveyor 1-2                               |                                       |
|                              | EU236-07A36 to -07A37       | Fiber Dryer Feed Conveyor 1 & Conveyor 2 Drag              |                                       |
|                              | EU236-07A42 to -07A43       | Combined Fiber Tank 1-2                                    |                                       |
|                              | EU236-07A44                 | Coarse Fiber Screen 1-4                                    |                                       |
|                              | EU236-07A45 to -07A46       | Fiber WHE CIP Tank & Fine Fiber Wash Stage 1 Tank          |                                       |
|                              | EU236-07A47                 | Fine Fiber Wash Stage 1 Screen 1-5                         |                                       |
|                              | EU236-07A48                 | Fine Fiber Wash Stage 2 Tank                               |                                       |
|                              | EU236-07A49                 | Fine Fiber Wash Stage 2 Screen 1-3                         |                                       |
|                              | EU236-07A50                 | Fine Fiber Wash Stage 3 Tank                               |                                       |
|                              | EU236-07A51                 | Fine Fiber Wash Stage 3 Screen 1-2                         |                                       |
|                              | EU236-07A52 to -A0753       | Fiber Centrifuge Presses Feed & Fiber Press Filtrate Tanks |                                       |
|                              | EU236-07A81 to -07A84       | Fiber Press Screens 10-13                                  |                                       |
| EU236-07A85 to -07A88        | Fiber Press 10-13           |  |                                       |
| EU236-07A89 to -07A92        | Fiber Dryer Dosing Bin 1-4  |  |                                       |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>          | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|---|---------------------------------------|
|                              | EU236-07A93 to - 07A98      | Misc Tanks                                |                                       |
|                              | EU236-07B01                 | Heavy Gluten Tank                         |                                       |
|                              | EU236-07B03                 | Gluten Filter Spraybar Tank               |                                       |
|                              | EU236-07B14 to - 07B17      | Gluten Dryer Mixers 1-2                   |                                       |
|                              | EU236-07B24 to - 07B27      | Gluten Dryer Tanks                        |                                       |
|                              | EU236-07B28                 | Gluten Product Conveyor No. 1             |                                       |
|                              | EU236-07C01 to - 07C02      | Heavy Steepwater & Steepwater Swing Tanks |                                       |
|                              | EU236-07C3                  | Light Steepwater Tank                     |                                       |
|                              | EU236-07C04                 | Vapor Condensate Tank                     |                                       |
|                              | EU236-07D                   | Germ Meal to Fiber Reclaim Conveyor       |                                       |
|                              | EU 236-07B27                | Vuum Pump Seal Water Tank                 |                                       |
|                              | EU 236-07B28                | Gluten Product Conveyor #1                |                                       |
|                              | EU236-07C01                 | Heavy Steepwater Tank                     |                                       |
|                              | EU236-07C02                 | Steepwater Swing Tank                     |                                       |
|                              | EU236-07C03                 | Light Steepwater Tank                     |                                       |
|                              | EU236-07C04                 | Vapor Condensate Tank                     |                                       |
|                              | EU236-07D                   | Germ Meal to Fiber Reclaim Conveyor       |                                       |
|                              | 236-08                      | EU236-08A                                 |                                       |
| EU236-08B                    |                             | Gluten Filter 1, 2                        |                                       |
| EU236-08C                    |                             | Gluten Filter 1, 3                        |                                       |
| EU236-08D                    |                             | Gluten Filter 2, 1                        |                                       |
| EU236-08E                    |                             | Gluten Filter 2, 2                        |                                       |
| EU236-08F                    |                             | Gluten Filter 2, 3                        |                                       |
| EU236-08G                    |                             | Gluten Filter 3, 1                        |                                       |
| EU236-08H                    |                             | Gluten Filter 3, 2                        |                                       |
| EU236-08I                    |                             | Gluten Filter 3, 3                        |                                       |
| EU236-08J                    |                             | Gluten Filter 4, 1                        |                                       |
| EU236-08K                    |                             | Gluten Filter 4, 2                        |                                       |
| EU236-08L                    |                             | Gluten Filter 4, 3                        |                                       |
| EU236-08M                    |                             | Gluten Filter 5, 1                        |                                       |
| EU236-08N                    |                             | Gluten Filter 5, 2                        |                                       |
| EU236-08O                    |                             | Gluten Filter 5, 3                        |                                       |
| EU236-08P                    |                             | Gluten Filter 6, 1                        |                                       |
| EU236-08Q                    |                             | Gluten Filter 6, 2                        |                                       |
| EU236-08R                    |                             | Gluten Filter 6, 3                        |                                       |
| EU236-08S                    | Gluten Filter 7, 1          |   |                                       |
| EU236-08T                    | Gluten Filter 7, 2          |   |                                       |
| EU236-08U                    | Gluten Filter 7, 3          |   |                                       |
| 236-10                       | EU236-10A                   | Gluten Filter Vacuum Pump 1               | 06-A-034-S3                           |
|                              | EU236-10B                   | Gluten Filter Vacuum Pump 2               |                                       |
|                              | EU236-10C                   | Gluten Filter Vacuum Pump 3               |                                       |
|                              | EU236-10D                   | Gluten Filter Vacuum Pump 4               |                                       |
|                              | EU236-10E                   | Gluten Filter Vacuum Pump 5               |                                       |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>          | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|---|---------------------------------------|
|                              | EU236-10F                   | Gluten Filter Vacuum Pump 6               |                                       |
|                              | EU236-10G                   | Gluten Filter Vacuum Pump 7               |                                       |
|                              | EU236-10H                   | Gluten Filter Vacuum Pump 8               |                                       |
| 236-11                       | EU236-11                    | Gluten Meal Transfer                      | 06-A-048-S3                           |
| 237-01                       | EU237-01A                   | Grinder 1                                 | 06-A-046-S5                           |
|                              | EU237-01B                   | Grinder 2                                 |                                       |
|                              | EU237-01C                   | Grinder 3                                 |                                       |
|                              | EU237-01D                   | Grinder 4                                 |                                       |
|                              | EU237-01F                   | 1 <sup>st</sup> Pass Sifter Feed Conveyor |                                       |
|                              | EU237-01G                   | 2 <sup>nd</sup> Pass Sifter Feed Conveyor |                                       |
|                              | EU237-01H                   | Sifter Overs Conveyor                     |                                       |
|                              | EU237-01I                   | Sifter Fines Conveyor                     |                                       |
|                              | EU237-01J                   | Feed Corn Germ Meal Mixer                 |                                       |
|                              | EU237-01K                   | Grinder Discharge Conveyor                |                                       |

| <b>FIBERSOL</b>              |                             |  |                                       |
|------------------------------|-----------------------------|--|---------------------------------------|
| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>             | <b>DNR Construction Permit Number</b> |
| 106-1                        | EU106-1                     | Fibersol Bag Packer Transport Load Collector | 99-A-163-S4                           |
| 106-2                        | EU106-2                     | Fibersol Bag Packer Dust Collector           | 04-A-302-S4                           |
| 117-6                        | EU117-6                     | Dextrin Feed 1 Load Collector                | 13-A-106-S2                           |
| 117-7                        | EU117-7A                    | No. 1 Hold Screw                             | 13-A-107-S3                           |
|                              | EU117-7B                    | No. 1 Slurry Tank                            |                                       |
| 117-8                        | EU117-8A                    | No. 2 Hold Screw                             | 13-A-112-S3                           |
|                              | EU117-8B                    | No. 2 Slurry Tank                            |                                       |
| 117-9                        | EU117-9A                    | No. 1 Day Bin                                | 13-A-109-S3                           |
|                              | EU117-9B                    | No. 1 Torus Dryer                            |                                       |
| 117-10                       | EU117-10A                   | No. 2 Day Bin                                | 13-A-109-S3                           |
|                              | EU117-10B                   | No. 2 Torus Dryer                            |                                       |
| 118-1                        | EU118-1                     | No. 1 Fibersol Spray Dryer                   | 96-A-1029-S6                          |
| 118-2                        | EU118-2A                    | Fibersol Spray Dryer 1 Transport Airlock 1   | 06-A-716-S2                           |
|                              | EU118-6                     | Fibersol Tote Repack Hopper                  |                                       |
| 125-4                        | EU125-4                     | Dextrin Feed No. 2 Load Collector            | 98-A-464-S6                           |
| 125-5                        | EU125-5A                    | No. 3 Roaster                                | 98-A-465-S7                           |
|                              | EU125-5B                    | No. 3 Hold screw                             |                                       |
|                              | EU125-5D                    | No. 3 Slurry Tank                            |                                       |
| 125-6                        | EU125-6                     | No. 3 Dextrin Dust Collector                 | 98-A-463-S9                           |
|                              | EU125-6A                    | No. 3 Day Bin                                |                                       |
|                              | EU125-6E                    | No. 3 Torus Dryer                            |                                       |
| 125-7                        | EU125-7A                    | No. 4 Roaster                                | 04-A-300-S3                           |
|                              | EU125-7B                    | No. 4 Hold screw                             |                                       |
|                              | EU125-7D                    | No. 4 Slurry Tank                            |                                       |
| 125-8                        | EU125-8                     | No. 4 Dextrin Dust Collector                 | 04-A-301-S3                           |
|                              | EU125-8A                    | No. 4 Day Bin                                |                                       |
|                              | EU125-8B                    | No. 4 Torus Dryer                            |                                       |
| 127-8                        | EU127-8                     | Fibersol Tote Packer Storage Hopper 1        | 14-A-288-S1                           |

|       |           |                                       |             |
|-------|-----------|---------------------------------------|-------------|
|       | EU127-8-1 | No. 1 Fibersol Tote Bagger            |             |
|       | EU127-8-3 | No. 1 Fibersol Rotex                  |             |
| 127-9 | EU127-9   | Fibersol Tote Packer Storage Hopper 2 | 15-A-426-S1 |
|       | EU127-9-1 | No. 2 Fibersol Tote Bagger            |             |
|       | EU127-9-2 | No. 2 Fibersol Rotex                  |             |
|       | EU127-9-3 | No. 3 Fibersol Tote Bagger            |             |
|       | EU127-9-4 | No. 3 Fibersol Rotex                  |             |
| 136-3 | EU136-3   | No. 2 Fibersol Spray Dryer            | 13-A-110-S2 |
| 136-4 | EU136-4   | Spray Dryer 2 Storage Bin             | 15-A-427-S1 |

| <b>MILLHOUSE</b>             |                             |   |                                       |
|------------------------------|-----------------------------|---|---------------------------------------|
| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>          | <b>DNR Construction Permit Number</b> |
| 1-63                         | EUA*                        | A Batch Steep Tank (Vents Inside)         | 05-A-609-S2                           |
|                              | EUB*                        | B Batch Steep Tank (Vents Inside)         |                                       |
|                              | EUC*                        | C Batch Steep Tank (Vents Inside)         |                                       |
|                              | EUD*                        | D Batch Steep Tank (Vents Inside)         |                                       |
|                              | EU1-EU12*                   | Batch Steep Tanks (Vents Inside)          |                                       |
|                              | EU13-EU28*                  | Batch Steep Tanks (Vents Inside)          |                                       |
|                              | EU29- EU44                  | Batch Steep Tanks (Vents Inside)          |                                       |
|                              | EU45-EU63                   | Batch Steep Tanks (Vents Inside)          |                                       |
| 3-1                          | EU3-1                       | Steepwater Vapor Condensate Tank          | 05-A-576-S2                           |
| 3-2                          | EU3-2                       | Steepwater Vacuum Pump                    | 96-A-721-S2                           |
|                              | EU3-2A                      | S-8 Evaporator Vacuum Pump                |                                       |
| 3-10                         | EU15-10                     | Wet Feed Silo                             | 06-A-036-S2                           |
| 4-1                          | EU4-1a                      | Corn Screens                              | 17-A-333-P1                           |
|                              | EU4-1b                      | Germ Wash Screens, 1 <sup>st</sup> Stage  |                                       |
|                              | EU4-1c                      | Germ Wash Screens, 2 <sup>nd</sup> Stage  |                                       |
|                              | EU4-1d                      | Germ Wash Screens, 3 <sup>rd</sup> Stage  |                                       |
|                              | EU4-1e                      | 2 <sup>nd</sup> Grind Screens             |                                       |
|                              | EU4-1f                      | 3rdGrind Mill Screens                     |                                       |
|                              | EU4-1g                      | Fiber Wash Screens, 1 <sup>st</sup> Stage |                                       |
|                              | EU4-1h                      | Fiber Wash Screens, 2 <sup>nd</sup> Stage |                                       |
|                              | EU4-1i                      | Fiber Wash Screens, 3 <sup>rd</sup> Stage |                                       |
|                              | EU4-1j                      | Fiber Wash Screens, 4 <sup>th</sup> Stage |                                       |
|                              | EU4-1k                      | Fiber Wash Screens, 5 <sup>th</sup> Stage |                                       |
|                              | EU4-1l                      | Fiber Wash Screens, 6 <sup>th</sup> Stage |                                       |
|                              | EU4-1m                      | Fiber Wash Trough Set #1                  |                                       |
|                              | EU4-1n                      | Fiber Wash Trough Set #2                  |                                       |
|                              | EU4-1o                      | Fiber Wash Trough Set #3                  |                                       |
|                              | EU4-1p                      | Fiber Wash Trough Set #4                  |                                       |
|                              | EU4-1r                      | Steep Sluice Water Tank                   |                                       |
|                              | EU4-1s                      | Wet Corn Hopper                           |                                       |
|                              | EU4-1t                      | Process Water Tank                        |                                       |
|                              | EU4-1u                      | Starch Wash Water Tank                    |                                       |
| EU4-1v                       | Starch Wash Feed Tank       |   |                                       |
| EU4-1w                       | Starch Tank                 |   |                                       |
| EU4-1x                       | Primary Feed Tank           |   |                                       |

|      |           |                                       |             |
|------|-----------|---------------------------------------|-------------|
|      | EU4-1y    | Primary Wash Water Tank               |             |
|      | EU4-1z    | MST Feed Tank                         |             |
|      | EU4-1aa   | MST Overflow Tank                     |             |
|      | EU4-1bb   | Clarifier Feed Tank                   |             |
|      | EU4-1cc   | GT Feed Tank                          |             |
|      | EU4-1dd   | Heavy Gluten Tank                     |             |
|      | EU4-1ee   | GT Overflow Tank                      |             |
|      | EU4-1ff   | Separations Overflow Tank             |             |
|      | EU4-1gg   | 1stGrind Tank                         |             |
|      | EU4-1hh   | 1stGrind Mill Sluice Water Tank       |             |
|      | EU4-1ii   | Germ Wash Tank                        |             |
|      | EU4-1jj   | Germ Tank                             |             |
|      | EU4-1kk   | 2 <sup>nd</sup> Grind Tank            |             |
|      | EU4-1ll   | 3rdGrind Tank                         |             |
|      | EU4-1mm   | Mill Overflow Tank                    |             |
|      | EU4-1nn   | 1stStage Fiber Wash Tank              |             |
|      | EU4-1oo   | 2ndStage Fiber Wash Tank              |             |
|      | EU4-1pp   | Fiber Wash Water Tank                 |             |
|      | EU4-1qq   | Sulfur Burner No. 1                   |             |
|      | EU4-1rr   | Sulfur Burner No. 2                   |             |
|      | EU4-2g    | Steepwater Heater Feed Tank           |             |
|      | EU4-2h    | Vapor Condensate Tank                 |             |
| 4-2  | EU4-2a    | 22 Batch Steep Tanks                  | 17-A-334-P2 |
|      | EU4-2b    | Batch Steep Wash Water Tank           |             |
|      | EU4-2c    | Continuous Steep Recirculation Tank   |             |
|      | EU4-2d    | Continuous Steep Wash Water Tank      |             |
|      | EU4-2e    | LSW Draw Tank                         |             |
|      | EU4-2f    | Steepwater Evaporator Vacuum Pump     |             |
|      | EU7-16B1  | Millwater II 2 Tank                   |             |
|      | EU7-16N   | Millwater III Tank                    |             |
| 7-6  | EUB-7     | Building 7 – Wet Milling              | 90-A-068    |
| 7-9  |           |                                       |             |
| 7-10 |           |                                       |             |
| 7-11 |           |                                       |             |
| 7-12 |           |                                       |             |
| 7-13 |           |                                       |             |
| 7-14 |           |                                       |             |
| 7-15 |           |                                       |             |
| 7-17 | EUB-7     | Fugitive Emission - Corn Wet Milling  |             |
| 7-16 | EU7-16A   | Millwater II Tank                     | 94-A-309-S4 |
|      | EU7-16B   | Millwater I Tank                      |             |
|      | EU7-16C1  | Millwater #1 Sulfur Burner            |             |
|      | EU7-16C1a | Millwater No. 1 Sulfur Burner LPG     |             |
|      | EU7-16C2  | Millwater #2 Sulfur Burner            |             |
|      | EU7-16C2a | Millwater No. 2 Sulfur Burner LPG     |             |
|      | EU7-16D   | Combined Fiber Tank                   |             |
|      | EU7-16E   | Germ Tank                             |             |
|      | EU7-16F   | 3 <sup>rd</sup> Stage Germ Water Tank |             |
|      | EU7-16H   | MST Feed Tank                         |             |
|      | EU7-16I   | Clarifier Feed Tank                   |             |

|       |         |  |             |
|-------|---------|--|-------------|
|       | EU7-16J | Dorr Clone Feed Tank                                   |             |
|       | EU7-16L | Heavy Gluten Tank                                      |             |
|       | EU7-16M | GT Feed Tank   |             |
|       | EU7-16O | 1 <sup>st</sup> Stage Fiber Wash Tank                  |             |
|       | EU7-16P | 1 <sup>st</sup> Grind Tank                             |             |
|       | EU7-16Q | 2 <sup>nd</sup> Grind Tank                             |             |
|       | EU7-16R | Primary Feed Tank                                      |             |
|       | EU7-16S | 3 <sup>rd</sup> Grind Tank                             |             |
|       | EU7-16T | 2 <sup>nd</sup> Stage Fiber Wash Tank                  |             |
|       | EU7-16U | 3 <sup>rd</sup> Stage Fiber Wash Tank                  |             |
|       | EU7-16V | 4 <sup>th</sup> Stage Fiber Wash Tank                  |             |
|       | EU7-16W | 5 <sup>th</sup> Stage Fiber Wash Tank                  |             |
|       | EU7-16X | 6 <sup>th</sup> Stage Fiber Wash Tank                  |             |
|       | EU7-16Y | 2 <sup>nd</sup> & 3 <sup>rd</sup> Set Fiber Wash Tanks |             |
|       | EU7-16Z | Corn Hopper  |             |
|       | EU7-16X | 6 <sup>th</sup> Stage Fiber Wash Tank                  |             |
|       | EU7-16Y | 2 <sup>nd</sup> & 3 <sup>rd</sup> Set Fiber Wash Tanks |             |
|       | EU7-16Z | Corn Hopper  |             |
| 9-9   | EUB-9   | Building No. 9 Stach Separations                       | 90-A-069-S2 |
| 9-10  |         |  |             |
| 9-11  |         |  |             |
| 9-12  |         |  |             |
| 9-13  |         |  |             |
| 9-13A |         |  |             |
| 9-14  |         |  |             |
| 9-15  |         |  |             |
| 9-17  |         |  |             |
| 16-1  | 16-1    | #1 Continuous Steep Tank                               | 05-A-610    |
|       | 16-2    | #2 Continuous Steep Tank                               |             |
|       | 16-3    | #3 Continuous Steep Tank                               |             |
|       | 16-4    | #4 Continuous Steep Tank                               |             |
|       | 16-5    | #5 Continuous Steep Tank                               |             |
|       | 16-6    | #6 Continuous Steep Tank                               |             |
|       | 16-7    | #7 Continuous Steep Tank                               |             |
|       | 16-8    | #8 Continuous Steep Tank                               |             |

| <b>OILHOUSE</b>              |                             |                                  |                                       |
|------------------------------|-----------------------------|----------------------------------|---------------------------------------|
| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b> | <b>DNR Construction Permit Number</b> |
| 217-17                       | EU217-17                    | Bulk Bleach Clay Silo            | 94-A-284-S1                           |
| 36-19                        | EU36-19A                    | D.T. Dryer                       | 94-A-282-S13                          |
|                              | EU36-19B                    | D.T. Cooler                      |                                       |
|                              | EU36-19D                    | #1 Flaking Roll                  |                                       |
|                              | EU36-19E                    | #2 Flaking Roll                  |                                       |
|                              | EU36-19F                    | #3 Flaking Roll                  |                                       |
|                              | EU36-19G                    | #4 Flaking Roll                  |                                       |
|                              | EU36-19H                    | #5 Flaking Roll                  |                                       |
|                              | EU36-19I                    | #6 Flaking Roll                  |                                       |
|                              | EU36-19J                    | #7 Flaking Roll                  |                                       |

| <b>OILHOUSE</b> |                             |  |             |
|-----------------|-----------------------------|--|-------------|
|                 | EU36-19K                    | #8 Flaking Roll                        |             |
|                 | EU36-19L                    | #9 Flaking Roll                        |             |
|                 | EU36-19M                    | #10 Flaking Roll                       |             |
|                 | EU36-19N                    | #2 Expander                            |             |
|                 | EU36-19O                    | #3 Expander                            |             |
|                 | EU36-19P                    | Aspirator                              |             |
|                 | EU36-27                     | Aspiration Cyclone (to be constructed) |             |
| 36-20           | EU36-20a                    | No. 1 Germ Conditioner Dryer           | 94-A-283-S9 |
|                 | EU36-20b                    | No. 2 Germ Conditioner Dryer           |             |
|                 | EU36-20c                    | Germ Cooler                            |             |
|                 | EU36-20h                    | #1 Expeller                            |             |
|                 | EU36-20i                    | #2 Expeller                            |             |
|                 | EU36-20j                    | #3 Expeller                            |             |
|                 | EU36-20k                    | #4 Expeller                            |             |
|                 | EU36-20l                    | #5 Expeller                            |             |
|                 | EU36-20o                    | #8 Expeller                            |             |
|                 | EU36-20p                    | #9 Expeller                            |             |
|                 | EU36-20q                    | #10 Expeller                           |             |
|                 | EU36-20r                    | #11 Expeller                           |             |
|                 | EU36-20s                    | #12 Expeller                           |             |
|                 | EU36-20t                    | 1-5 Expelled Cake Conveyor             |             |
|                 | EU36-20u                    | 1-4 Sharple Cake Conveyor              |             |
| EU36-20v        | No. 1 Sharple Tank          |  |             |
| EU36-20w        | 8-12 Expelled Cake Conveyor |  |             |
| 36-21           | EU36-21                     | Pneumatic Clay Transport to Day Bins   | 94-A-285-S1 |
| 36-22           | EU36-22                     | Filter Aid Pneumatic Transport         | 94-A-286-S1 |
| 36-25           | EU36-25                     | Geka Oil Refining Steam Boiler         | NA          |
| 57-1            | EU57-1C                     | No. 3 Germ Storage Silo                | 06-A-049-S3 |
|                 | EU57-1D                     | No. 4 Germ Storage Silo                |             |
|                 | EU57-1E                     | No. 5 Germ Storage Silo                |             |
| 66-1            | EU66-1                      | Desolventizer Toaster                  | 95-A-203-S5 |
|                 | EU66-2*                     | Extractor Unit                         |             |
|                 | EU66-6                      | Extractor Unit                         |             |
|                 | EU66-3*                     | Hexane Storage Tank                    |             |
|                 | EU66-7                      | Hexane Storage Tank                    |             |
|                 | EU66-4                      | Vent Condenser                         |             |
| EU66-5          | Final Vent Condenser        |  |             |
| 66-F1           | EU66-F1                     | Solvent Extraction Fugitives           | NA          |
| 98-2            | EU98-2                      | Feed House Germ Transport              | 94-A-291-S4 |

\*Scheduled to be replaced by identical emission units EU66-6 and EE66-7 at the completion of construction project 21-203.

| <b>REFINERY</b>              |                             |                                    |                                       |
|------------------------------|-----------------------------|------------------------------------|---------------------------------------|
| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>   | <b>DNR Construction Permit Number</b> |
| 207-1                        | EU207-1                     | Refinery Converter Flash Tank Vent | 05-A-607                              |
| 207-2                        | EU207-2                     | DSP Converter Flash Tank Vent      | 05-A-608                              |
| B-25                         | EU24-4                      | Carbon Furnace No. 4               | 94-A-594-S10                          |
|                              | EU24-5                      | Carbon Furnace No. 5               |                                       |

| <b>STARCH</b>                       |                             |                                     |                                       |
|-------------------------------------|-----------------------------|-------------------------------------|---------------------------------------|
| <b>Emission Point Number</b>        | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>    | <b>DNR Construction Permit Number</b> |
| B-107                               | EU111-14A                   | No. 4 Starch Dryer                  | 94-A-595-S3                           |
|                                     | EU111-5A                    | No. 5 Starch Dryer                  |                                       |
|                                     | EU107-5A                    | No. 6 Starch Dryer                  |                                       |
|                                     | EU107-11B                   | No. 7 Starch Dryer                  |                                       |
|                                     | EU139-6A                    | No. 8 Starch Dryer                  |                                       |
|                                     | EU107-7A                    | No. 9 Starch Dryer                  |                                       |
| B-107-4                             | EU111-14A                   | No. 4 Starch Dryer                  | 17-A-553                              |
|                                     | EU139-6A                    | No. 8 Starch Dryer                  |                                       |
| B-107-5                             | EU111-5A                    | No. 5 Starch Dryer                  | 17-A-554                              |
| B-107-6                             | EU107-5A                    | No. 6 Starch Dryer                  | 17-A-555                              |
| B-107-7                             | EU107-11B                   | No. 7 Starch Dryer                  | 17-A-556                              |
| B-107-9                             | EU107-7A                    | No. 9 Starch Dryer                  | 17-A-558                              |
| B-107-4A                            | EU114-14A                   | No. 4 Starch Dryer – Alternate Vent | 23-A-110                              |
| B-107-4B                            | EU114-14A                   | No. 4 Starch Dryer – Alternate Vent | 23-A-111                              |
| B-107-8                             | EU139-6A                    | No. 8 Starch Dryer – Bypass         | 17-A-557-S1                           |
| 102-12<br>102-13<br>(Current State) | EU102-7                     | Starch Tank No. 1                   | 05-A-601<br>05-A-602                  |
|                                     | EU102-8                     | Starch Tank No. 2                   |                                       |
|                                     | EU102-9                     | Starch Tank No. 3                   |                                       |
|                                     | EU102-10                    | Starch Tank No. 4                   |                                       |
|                                     | EU121-1                     | Starch Slurry Tank #5               |                                       |
|                                     | EU121-2                     | Starch Slurry Tank #6               |                                       |
|                                     | EU121-3                     | Starch Slurry Tank #7               |                                       |
|                                     | EU121-4                     | Starch Slurry Tank #8               |                                       |
|                                     | EU123-3A                    | Starch Slurry Tank #9               |                                       |
|                                     | EU123-3B                    | Starch Slurry Tank #10              |                                       |
|                                     | EU123-3C2                   | Starch Slurry Tank #11              |                                       |
|                                     | EU123-3D                    | Starch Slurry Tank #12              |                                       |
|                                     | EU123-4A2                   | Starch Slurry Tank #13              |                                       |
|                                     | EU123-4B                    | Starch Slurry Tank #14              |                                       |
|                                     | EU123-4C                    | Starch Slurry Tank #15              |                                       |
|                                     | EU123-4D2                   | Starch Slurry Tank #16              |                                       |
|                                     | EU132-2                     | Starch Slurry Tank #17              |                                       |
|                                     | EU132-4                     | Starch Slurry Tank #18              |                                       |
|                                     | EU132-5                     | Starch Slurry Tank #19              |                                       |
|                                     | EU132-6B                    | Starch Slurry Tank #20              |                                       |
|                                     | EU132-7B                    | Starch Slurry Tank #21              |                                       |
|                                     | EU132-8B                    | Starch Slurry Tank #22              |                                       |
|                                     | EU138-3                     | Starch Tank No. 23                  |                                       |
|                                     | EU138-5                     | Starch Tank No. 24                  |                                       |
|                                     | EU120-1B                    | Starch Slurry Tank #25              |                                       |
|                                     | EU120-2B                    | Starch Slurry Tank #26              |                                       |
| EU120-3B                            | Starch Slurry Tank #27      |                                     |                                       |
| EU120-4B                            | Starch Slurry Tank #28      |                                     |                                       |
| EU120-5B                            | Starch Slurry Tank #29      |                                     |                                       |
| EU112-5                             | Starch Slurry Tank #30      |                                     |                                       |

|                                       |                        |                         |                            |
|---------------------------------------|------------------------|-------------------------|----------------------------|
|                                       | EU112-6                | Starch Slurry Tank #31  |                            |
|                                       | EU112-7                | Starch Slurry Tank #32  |                            |
|                                       | EU120-6B               | Starch Slurry Tank #36  |                            |
|                                       | EU120-7B               | Starch Slurry Tank #37  |                            |
|                                       | EU120-8B               | Starch Slurry Tank #38  |                            |
| 102-12<br>102-13<br>(Future<br>State) | EU 102-7               | Starch Slurry Tank #1   | 05-A-601-S2<br>05-A-602-S2 |
|                                       | EU 102-8               | Starch Slurry Tank #2   |                            |
|                                       | EU 102-9               | Starch Slurry Tank #3   |                            |
|                                       | EU 102-10              | Starch Slurry Tank #4   |                            |
|                                       | EU 121-1               | Starch Slurry Tank #5   |                            |
|                                       | EU 121-2               | Starch Slurry Tank #6   |                            |
|                                       | EU 121-3               | Starch Slurry Tank #7   |                            |
|                                       | EU 121-4               | Starch Slurry Tank #8   |                            |
|                                       | EU 123-3A              | Starch Slurry Tank #9   |                            |
|                                       | EU 123-3B              | Starch Slurry Tank #10  |                            |
|                                       | *EU 123-3C2            | Starch Slurry Tank #11  |                            |
|                                       | EU 123-3D              | Starch Slurry Tank #12  |                            |
|                                       | *EU 123-4A2            | Starch Slurry Tank #13  |                            |
|                                       | EU 123-4B              | Starch Slurry Tank #14  |                            |
|                                       | EU 123-4C              | Starch Slurry Tank #15  |                            |
|                                       | *EU 123-4D2            | Starch Slurry Tank #16  |                            |
|                                       | EU 132-2               | Starch Slurry Tank #17  |                            |
|                                       | EU 132-4               | Starch Slurry Tank #18  |                            |
|                                       | EU 132-5               | Starch Slurry Tank #19  |                            |
|                                       | *EU 132-6B             | Starch Slurry Tank #20  |                            |
|                                       | *EU 132-7B             | Starch Slurry Tank #21  |                            |
|                                       | *EU 132-8B             | Starch Slurry Tank #22  |                            |
|                                       | EU 138-3               | Starch Slurry Tank #23  |                            |
|                                       | *EU 138-5B             | Starch Slurry Tank #24  |                            |
|                                       | *EU 120-1B             | Starch Slurry Tank #25  |                            |
|                                       | *EU 120-2B             | Starch Slurry Tank #26  |                            |
|                                       | *EU 120-3B             | Starch Slurry Tank #27  |                            |
|                                       | *EU 120-4B             | Starch Slurry Tank #28  |                            |
|                                       | *EU 120-5B             | Starch Slurry Tank #29  |                            |
|                                       | EU 112-5               | Starch Slurry Tank #30  |                            |
|                                       | EU 112-6               | Starch Slurry Tank #31  |                            |
|                                       | EU 112-7               | Starch Slurry Tank #32  |                            |
| *EU 120-6B                            | Starch Slurry Tank #36 |                         |                            |
| *EU 120-7B                            | Starch Slurry Tank #37 |                         |                            |
| *EU 120-8B                            | Starch Slurry Tank #38 |                         |                            |
| 107-1A                                | EU107-1A               | #9 Starch Press Vent #1 | 11-A-746-S1                |
| 107-1B                                | EU107-1B               | #9 Starch Press Vent #2 | 11-A-747-S1                |
| 108-1                                 | EU108-1                | A Starch Hopper         | NA                         |
| 108-2                                 | EU108-2                | B Starch Hopper         | NA                         |
| 108-3                                 | EU108-3                | C Starch Hopper         | NA                         |
| 108-4                                 | EU108-4                | D Starch Hopper         | NA                         |
| 108-5                                 | EU108-5                | CS Starch Rail Loadout  | 21-A-007                   |
| 109-1                                 | EU109-1                | A-Line Dust Collector   | NA                         |
| 109-2                                 | EU109-2                | B-Line Dust Collector   | NA                         |
| 110-1                                 | EU110-1                | I Starch Hopper         | 98-A-828                   |

|       |            |  |             |
|-------|------------|--|-------------|
| 110-2 | EU110-2    | J Starch Hopper                            | 98-A-829    |
| 111-1 | EU111-1    | E Starch Hopper                            | NA          |
| 111-2 | EU111-2    | F Starch Hopper                            | NA          |
| 111-3 | EU111-3    | G Starch Hopper                            | NA          |
| 111-4 | EU111-4    | H Starch Hopper                            | NA          |
| 112-4 | EU112-4A/D | Hydrochloric Acid Storage Tanks 1, 2, 3, 4 | 04-A-190    |
| 124-1 | EU124-1    | Starch Bag Packing Hopper                  | 94-A-325-S1 |
| 124-2 | EU124-2    | Starch Bag Packing Dust Collector          | 94-A-324    |
| 127-1 | EU127-1    | Starch Tote Packer Storage Hopper          | 14-A-289-S1 |
| 137-1 | EU137-1A   | No. 20 Fuller Air Merge                    | 08-A-528-S2 |
|       | EU137-1B   | No. 21 Fuller Air Merge                    |             |
|       | EU137-1C   | No. 22 Fuller Air Merge                    |             |
| 137-2 | EU137-2A   | No. 23 Fuller Air Merge                    | 08-A-623-S3 |
|       | EU137-2B   | No. 24 Fuller Air Merge                    |             |
| 137-3 | EU137-3    | No. 25 Fuller Air Merge                    | 13-A-111-S2 |

| <b>SUGARHOUSE</b>            |                                 |  |                                       |
|------------------------------|---------------------------------|--|---------------------------------------|
| <b>Emission Point Number</b> | <b>Emission Unit Number</b>     | <b>Emission Unit Description</b>   | <b>DNR Construction Permit Number</b> |
| 86-1                         | EU86-1                          | 1st Pass Hersey Dryer  | 08-A-523-S1                           |
| 86-2                         | EU86-2                          | 1st Pass Louisville Dryer  | 08-A-524-S2                           |
| 86-4                         | EU86-4                          | Rail Surge Bin Cyclone   | NA                                    |
| 86-5                         | EU86-5                          | Rail for Loading   | NA                                    |
| 86-6                         | EU86-6                          | Dextrose Hopper Airlock Aspiration   | 04-A-305-S1                           |
|                              | EU224-1                         | Dextrose Rail Scale Hopper   |                                       |
| 86-7                         | EU86-7A                         | No. 1 Dextrose Hopper  | 01-A-912-S3                           |
|                              | EU86-7B                         | No. 2 Dextrose Hopper  |                                       |
|                              | EU86-7C                         | No. 3 Dextrose Hopper  |                                       |
|                              | EU86-7D                         | No. 4 Dextrose Hopper  |                                       |
|                              | EU86-7E                         | No. 5 Dextrose Hopper  |                                       |
|                              | EU86-7F                         | No. 6 Dextrose Hopper  |                                       |
|                              | EU86-7G                         | No. 7 Dextrose Hopper  |                                       |
| 86-9                         | EU86-7H                         | No. 8 Dextrose Hopper  | 94-A-317-S4                           |
|                              | EU86-9A                         | 1 <sup>st</sup> Pass Big Dryer and Product Recovery Cyclone                      |                                       |
|                              | EU86-9B                         | 2 <sup>nd</sup> Pass Big Dryer and Product Recovery Cyclone                      |                                       |
|                              | EU86-9C                         | 2 <sup>nd</sup> Pass Louisville Dryer with Cyclone and Aerodyne Product Recovery |                                       |
|                              | EU86-9D                         | 2 <sup>nd</sup> Pass Hersey Dryer with Cyclone and Aerodyne Product Recovery     |                                       |
|                              | EU86-9E                         | Truck Loading Spout  |                                       |
| EU230-9                      | Dextrose Fines Transport System |  |                                       |
| 86-11                        | EU86-11                         | Bulk Truck Blower  | NA                                    |
| 86-12                        | EU86-12                         | Dextrose Cooler No. 1  | 08-A-525                              |
| 86-13                        | EU86-13                         | Dextrose Cooler No. 2  | 96-A-108-S3                           |
| 86-15                        | EU86-15A                        | #1 Whizzer Mechanical Separator  | 01-A-911-S2                           |
|                              | EU86-15B                        | #2 Whizzer Mechanical Separator  |                                       |
| 224-22                       | EU224-22                        | #1 Dextrose Cooler Transport   | 01-A-909-S3                           |
| 224-23                       | EU224-23                        | #2 Dextrose Cooler Transport   | 16-A-436-S2                           |
| 230-4                        | EU230-4A                        | Dextrose Hopper  | 94-A-315-S4                           |

|        |           |                                     |             |
|--------|-----------|-------------------------------------|-------------|
|        | EU230-4B  | Dextrose Hopper                     |             |
|        | EU230-4C  | Dextrose Hopper                     |             |
| 230-6  | EU230-6   | No. 2 Dextrose Transport System     | 94-A-311-S4 |
| 230-8  | EU230-8   | No. 3 & 4 Dextrose Transport System | 96-A-386-S1 |
| 230-10 | EU230-10A | No. 1 Packer                        | NA          |
|        | EU230-10B | No. 1 Sealer                        |             |
|        | EU230-10C | No. 2 Packer                        |             |
|        | EU230-10D | No. 2 Sealer                        |             |
|        | EU230-10E | Tote Packer                         |             |

| <b>UTILITIES</b>             |                             |                                  |                                       |
|------------------------------|-----------------------------|----------------------------------|---------------------------------------|
| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b> | <b>DNR Construction Permit Number</b> |
| 300-1                        | EU300-1                     | Fire Pump No. 4                  | 01-A-772-S2                           |
| 300-2                        | EU300-2                     | Fire Pump No. 5                  | 01-A-773-S2                           |
| 301-1                        | EU301-1                     | Fire Pump No. 6                  | 01-A-774-S2                           |
| 301-2                        | EU301-2                     | Fire Pump No. 7                  | 01-A-775-S2                           |
| 301-3                        | EU301-3                     | Fire Pump No. 8                  | 06-A-874                              |
| 82-5                         | EU82-5                      | Lime Silo No. 1                  | 11-A-025-S2                           |
| 82-6                         | EU82-6                      | Lime Silo No. 2                  | 12-A-088-S1                           |
| 19-1                         | EU19-1                      | Flood Pump No. 1                 | NA                                    |
| 19-2                         | EU19-2                      | Flood Pump No. 2                 | NA                                    |
| 19-3                         | EU19-3                      | Flood Pump No. 3                 | NA                                    |

| <b>WASTEWATER</b>            |                             |                                      |                                       |
|------------------------------|-----------------------------|--------------------------------------|---------------------------------------|
| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>     | <b>DNR Construction Permit Number</b> |
| 217-18                       | EU217-18                    | Wastewater Collection Basin          | 04-A-168-S2                           |
| 501-1                        | EU501-1                     | No. 1 Pit                            | 04-A-180-S1                           |
| 501-2                        | EU501-2                     | No. 0, No. 2 and No. 3 Pit           | 04-A-181-S1                           |
| 501-3                        | EU501-3                     | No. 4 and No. 5 Pit                  | 04-A-182-S1                           |
| 504-1                        | EU504-1                     | Oil Heater No. 1 (CS)                | 04-A-183-S1                           |
| 504-2                        | EU504-2                     | Oil Heater No. 2 (RS)                | 04-A-184-S1                           |
| 504-5                        | EU504-5                     | City Side Biomass Storage Bin No. 1  | 04-A-185-S1                           |
|                              | EU504-8                     | Aspirated Bulk Loading Spout No. 1   |                                       |
|                              | EU504-9                     | Aspirated Bulk Loading Spout No. 2   |                                       |
| 504-6                        | EU504-6                     | Middle Biomass Storage Bin No. 2     | 04-A-186-S2                           |
| 504-7                        | EU504-7                     | River Side Biomass Storage Bin No. 3 | 04-A-187-S2                           |
| WW-F1                        | EUWW-F1                     | Wastewater Aeration Basin "A"        | 04-A-169                              |
| WW-F2                        | EUWW-F2                     | Wastewater Aeration Basin B          | 04-A-170-S1                           |
|                              | EU504-3                     | Biomass Dryer #1                     |                                       |
|                              | EU504-4                     | Biomass Dryer #2                     |                                       |
| WW-F3                        | EUWW-F3                     | Wastewater Aeration Basin C          | 04-A-171-S2                           |
|                              | EU504-3                     | Biomass Dryer #1                     |                                       |
|                              | EU504-4                     | Biomass Dryer #2                     |                                       |
| WW-F4                        | EUWW-F4                     | Wastewater Aeration Basin "D"        | 04-A-172-S1                           |
| WW-F5                        | EUWW-F5                     | Bio Tower "E"                        | 04-A-173                              |
| WW-F7                        | EUWW-F7                     | Wastewater Aeration Basin "F"        | 04-A-175-S1                           |

|         |           |                         |              |
|---------|-----------|-------------------------|--------------|
| WW-F8   | EUWW-F8   | Clarifier "A"           | 04-A-176     |
| WW-F9   | EUWW-F9   | Clarifier "B"           | 04-A-177     |
| WW-F10  | EUWW-F10  | Clarifier "C"           | 04-A-178-S1  |
| YRD-EQ1 | EUYRD-EQ1 | Equalization Tank No. 1 | 03-A-1179-S2 |
| YRD-EQ2 | EUYRD-EQ2 | Equalization Tank No. 2 | 03-A-1180-S2 |

### Insignificant Activities Equipment List

| Insignificant Emission Unit Number | Insignificant Emission Unit Description   |
|------------------------------------|---|
| EPFO-X1                            | Alcohol Fusel Oil Tank FO1                |
| EPFO-X2                            | Alcohol Fusel Oil Tank FO2                |
| 117-X1                             | Fibersol Dextrin Furnace1                 |
| 125-X2                             | Fibersol Dextrin Furnace1                 |
| 107-S2                             | Fibersol Flash Cooler Vent                |
| 1-X4                               | Mill Clarifier Overflow/Primary Wash Tank |
| 1-S5                               | Elevator Corn Town Vacuum System          |
| 1-X1                               | Mill Heavy Steepwater Tank                |
| 1-S2                               | Mill Molton Sulfur Tank                   |
| 25-S1                              | Refinery HCl Tanks                        |

### Insignificant Activities Equipment List (Small Unit Exemption) <sup>(1)</sup>

| Insignificant Emission Unit Number | Insignificant Emission Unit Description |
|------------------------------------|---|
| EUWW-F12                           | WWTP "D" Clarifier                      |

<sup>(1)</sup> Emission Units qualify for Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

## II. Plant Wide Conditions

Facility Name: ADM Corn Processing – Clinton  
Permit Number: 06-TV-007R1

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

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### Permit Duration

The term of this permit is: Five (5) years from permit issuance  
Commencing on: 9/22/2023  
Ending on: 9/21/2028

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code, rules 22.110 – 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

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### Emission Limits

*Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant.*

Opacity (visible emissions): 40% opacity  
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

### Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 - 21.1(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24. For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).  
Authority for Requirement: 567 IAC 23.3(2)"a".

Fugitive Dust: Attainment and Unclassified Areas – No person shall allow, cause, or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable

precautions to prevent the discharge or visible emissions or fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge or dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolitions of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but no limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

## Facility Wide Limits

### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall limit the facility (plant number 23-01-006) to producing 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
  - a. The owner or operator shall determine the total amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- B. The owner or operator shall limit the facility (plant number 23-01-006) to producing 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
  - a. The owner or operator shall determine the total amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- C. The owner or operator shall limit the facility (plant number 23-01-006) to producing 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
  - a. The owner or operator shall determine the total amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- D. The facility (plant number 23-01-006) shall be limited to loading out, uncontrolled, a maximum of 190 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period, facility-wide.\*
  - a. The facility shall monthly record the amount of ethanol (200 proof equivalent) loaded out, uncontrolled, facility wide.
  - b. The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent) loaded out, uncontrolled, facility wide.

\*Uncontrolled means the loadout process is not controlled by a flare.

#### Process throughput:

- 1. The facility shall not grind more than 138.7 million bushels of corn per rolling 12-month period.

#### Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 1. Record monthly the amount of corn that is ground at the facility in bushels. Calculate and record 12-month rolling totals.

Authority for Requirement: DNR Construction Permits 96-A-006-S2, 02-A-810-S6, 96-A-485-S2, 95-A-234-S11, 93-A-372-S4, 95-A-505-S4, 05-A-507-S3, 95-A-239-S4, 96-A-722-S5, 05-A-508-S1, 95-A-231-S3, 95-A-230-S3, 95-A-233-S1, 95-A-232-S1, 95-A-226-S1, 93-A-268-S4, 93-A-369-S4, 93-A-370-S4, 95-A-247-S2, 95-A-248-S3, 95-A-252-S4, 95-A-504-S3, 96-A-482-S3, 05-A-509-S3, 05-A-511-S1, 05-A-512, 05-A-513-S1, 06-A-034-S3, 06-A-035-S5, 06-A-036-S2, 06-A-037-S4, 06-A-038-S4, 06-A-039-S4, 06-A-040-S4, 06-A-041-S3, 06-A-042-S3, 06-A-043-S5, 06-A-044-S3, 06-A-045, 06-A-046-S5, 06-A-048-S3, 06-A-049-S3

### III. Emission Point Specific Conditions

Facility Name: ADM Corn Processing – Clinton  
 Permit Number: **06-TV-007R1**

#### Alcohol Process Equipment List

| Emission Point Number | Emission Unit Number | Emission Unit Description               | DNR Construction Permit Number |
|-----------------------|----------------------|---|--------------------------------|
| 39-2                  | 39-2A                | A8 Aldehyde Stripping Column            | 20-A-174-S1                    |
|                       | 39-2B                | A9 Rectifier Column                     |                                |
| 39-4                  | EU39-4               | A-8 Feed Tank                           | 96-A-006-S1                    |
| 43-1                  | EU43-1               | MR-4 Evaporator                         | 02-A-810-S6                    |
|                       | EU43-2               | Stillage Tank                           |                                |
| 53-1                  | EU53-1               | R-1 Stripping Column                    | 96-A-485-S1                    |
| 58-1                  | EU58-1A              | 111 Fermenter                           | 95-A-234-S11                   |
|                       | EU58-1B              | 112 Fermenter                           |                                |
|                       | EU58-1C              | 113 Fermenter                           |                                |
|                       | EU58-1D              | 114 Fermenter                           |                                |
|                       | EU58-1E              | 115 Fermenter                           |                                |
|                       | EU58-1F              | 116 Fermenter                           |                                |
|                       | EU58-1G              | 117 Fermenter                           |                                |
|                       | EU58-1H              | 118 Fermenter                           |                                |
|                       | EU58-1I              | 119 Fermenter                           |                                |
|                       | EU58-1J              | 120 Fermenter                           |                                |
|                       | EU58-1K              | 121 Fermenter                           |                                |
|                       | EU58-2A              | 122 Fermenter                           |                                |
| EU58-2B               | 123 Fermenter        |   |                                |
| 61-6                  | EU61-6               | #1 & #2 Anhydrous Vents                 | 93-A-372-S4                    |
| 64-5a                 | EU64-5               | No. 1 Anhydrous Column                  | 18-A-033                       |
| 64-12                 | EU64-6               | Beer/Beverage Stills & Beverage Columns | 95-A-505-S4                    |
|                       | EU64-12              | Beer/Beverage Stills & Beverage Columns |                                |
|                       | EU64-13              | Fusel Oil Tank                          |                                |
|                       | EU64-14              | Recycle Tank                            |                                |
|                       | EU64-15              | Product Tank                            |                                |
| 71A-1                 | EU71A-1              | Caustic Stripper                        | 05-A-507-S3                    |
| 71-9                  | EU71-9               | CO <sub>2</sub> Stripper                | 05-A-506-S3                    |
|                       | EU71-9A              | CO <sub>2</sub> Stripper Feed Tank      |                                |
| 72-2                  | EU72-2               | DI Water Tank                           | NA                             |
| 72-5                  | EU72-5               | RGSG 3 Tank                             | NA                             |

### Alcohol Process Equipment List (cont.)

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b> | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|----------------------------------|---------------------------------------|
| 72-7                         | EU72-7                      | T2 Fructose Alcohol Tank         | NA                                    |
| 72-8                         | EU72-8                      | T1 Greens Tank                   | NA                                    |
| 72-9                         | EU72-9                      | R1 Stripper Tank #1              | NA                                    |
| 72-10                        | EU72-10                     | R1 Stripper Tank #2              | NA                                    |
| 72-13                        | EU72-13                     | Antifoam Storage Tank            | NA                                    |
| 73-3                         | EU73-23                     | Yeast Propagator 1               | 15-A-516                              |
|                              | EU73-24                     | Yeast Propagator 2               |                                       |
|                              | CE73-5                      | Propagator Knockout Tank         |                                       |
|                              | EU72-7                      | Distillation Reprocess Tank      |                                       |
| 78-1                         | EU73-11                     | 108 Stillage Tank                | 96-A-722-S5                           |
|                              | EU73-12                     | 110 Stillage Tank                |                                       |
|                              | EU73-5                      | Mix Tank                         |                                       |
|                              | EU78-8                      | MR-3 Stillage Evaporator         |                                       |
|                              | EU78-9                      | MR-2 Stillage Evaporator         |                                       |
|                              | EU78-10                     | MR-1 Stillage Evaporator         |                                       |
| 73-15                        | EU73-15                     | 109 Fermenter                    | NA                                    |
| 73-16                        | EU73-16                     | 107 Fermenter                    | NA                                    |
| 73-17                        | EU73-17                     | 105 Fermenter                    | NA                                    |
| 73-19                        | EU73-19                     | 103 Fermenter                    | NA                                    |
| 73-20                        | EU73-20                     | 101 Fermenter                    | NA                                    |
| 77-2                         | EU77-2                      | Gin Still #1                     | 05-A-508                              |
|                              | EU77-3                      | Gin Still #2                     |                                       |
| 77-6                         | EU77-6                      | RGSG-1 Tank                      | NA                                    |
| 77-9                         | EU77-9                      | RGSG-2 Tank                      | NA                                    |
| 77-10                        | EU77-10                     | GHT-1 Tank                       | NA                                    |
| 77-11                        | EU77-11                     | GHT-2 Tank                       | NA                                    |
| 77-12                        | EU77-12                     | GHT-3 Tank                       | NA                                    |
| YRD-24                       | EUYRD-24                    | Fusel Oil Tank 2                 | NA                                    |
| YRD-25                       | EUYRD-25                    | Fusel Oil Tank 1                 | NA                                    |
| YRD-26                       | EUYRD-26                    | 190-2 Tank                       | 95-A-231-S1                           |
| YRD-27                       | EUYRD-27                    | 190-1 Tank                       | 95-A-230-S1                           |

### Alcohol Process Equipment List (cont.)

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>          | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|---|---------------------------------------|
| YRD-34                       | EUYRD-34                    | 200-2 Tank                                | 95-A-233-S1                           |
| YRD-35                       | EUYRD-35                    | 200-1 Tank                                | 95-A-232-S1                           |
| YRD-36                       | EUYRD-36                    | AS-101 Tank                               | NA                                    |
| YRD-38                       | EUYRD-38                    | AS-103 Tank                               | NA                                    |
| YRD-40                       | EUYRD-40                    | CDA-1 Tank                                | 93-A-368-S3                           |
| YRD-41                       | EUYRD-41                    | CDA-2 Tank                                | 93-A-369-S3                           |
| YRD-42                       | EUYRD-42                    | CDA-3 Tank                                | 93-A-370-S4                           |
| YRD-43                       | EUYRD-43                    | GAS-1 Tank                                | 95-A-247-S2                           |
| YRD-44                       | EUYRD-44                    | GAS-2 Tank                                | 95-A-248-S3                           |
| YRD-45                       | EUYRD-45                    | Inhibitor-1 Tank                          | 95-A-252-S3                           |
| YRD-46                       | EUYRD-46                    | AS-107 Tank                               | 95-A-504-S1                           |
| YRD-47                       | EUYRD-47                    | AS-108 Tank                               | 96-A-482-S1                           |
| YRD-L2                       | EUYRD-L2                    | Ethanol Truck Loadout                     | 05-A-509-S3                           |
| YRD-L3                       | EUYRD-L3                    | Ethanol Rail Loadout – Fuels and Beverage | 05-A-510                              |
| YRD-L4                       | EUYRD-L4                    | Ethanol Barge Loadout                     | 05-A-511                              |
| YRD-F5                       | EUYRD-F5                    | Lower End Ethanol Truck Loadout           | 05-A-513                              |
| YRD-L6                       | EUYRD-L6                    | Lower End Ethanol Rail Loadout            | 05-A-512                              |

**NSPS:**

All emission units in this process group that are involved in the production of Ethanol are subject to 40 CFR 60 Subpart VV - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry. Refer to Appendix B for a link to the rule text.

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**Emission Point ID Number: 39-2**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| 39-2A                | A8 Aldehyde Stripping Column     | Wet Scrubber (CE 39-2A)  | Alcohol             | 140 gal/min (feed)    | 20-A-174-S1                |
| 39-2B                | A9 Rectifier Column              | Wet Scrubber (CE 39-2B)  | Alcohol             | 105 gal/min (product) |                            |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no emission limits associated with this emission point at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

**Control Equipment Requirements**

- A. The owner or operator shall operate, inspect, and maintain Wet Scrubber 39-2A and Wet Scrubber 39-2B according to the manufacturer's specifications and instructions.
  - (1) The owner or operator shall conduct an inspection of Wet Scrubber 39-2A and Wet Scrubber 39-2B at a minimum of once per year and correct/repair any issues discovered during the inspection.
  - (2) The owner or operator shall keep a log of all maintenance and inspection activities performed on Wet Scrubber 39-2A and Wet Scrubber 39-2B. At a minimum, this log shall include any issues identified during inspection and maintenance activities and the date each issue was resolved.

**Wet Scrubber 39-2A**

- B. The owner or operator shall operate Wet Scrubber 39-2A whenever the A8 Aldehyde Stripping Column (EU 39-2A) is in operation.
- C. The owner or operator shall maintain a daily (calendar day) average differential pressure drop across Wet Scrubber 39-2A of no greater than 8.0-inches water column.
  - (1) The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the differential pressure drop across Wet Scrubber 39-2A. The equipment shall be installed, operated, and maintained according to the manufacturer's recommendations, instructions, and operating manuals.
  - (2) The owner or operator shall collect and record the differential pressure drop, in inches of

water column, across Wet Scrubber 39-2A at a minimum of once every 15 minutes and calculate and record the daily (calendar day) average. The daily (calendar day) average differential pressure drop shall be calculated using all data points collected during the averaging period.

- (3) If the daily (calendar day) differential pressure drop average is above the maximum required value, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the daily (calendar day) differential pressure drop average is back below the maximum required value.
  - (4) The requirements in Permit Conditions C.(2) and C.(3) shall not apply during periods that the A8 Aldehyde Stripping Column (EU 39-2A) and Wet Scrubber 39-2A are not in operation.
- D. The owner or operator shall maintain a 3-hour block average water flow rate for Wet Scrubber 39-2A at no less than 2 gallons per minute.
- (1) The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the water flow rate for Wet Scrubber 39-2A. The equipment shall be installed, operated, and maintained according to the manufacturer's recommendations, instructions, and operating manuals.
  - (2) The owner or operator shall collect and record the water flow rate, in gallons per minute, for Wet Scrubber 39-2A at a minimum of once every 15 minutes and calculate and record the 3-hour block average. The 3-hour block average shall be calculated using all data points collected during the averaging period.
  - (3) If the 3-hour block average water flow rate falls below the minimum required value, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the 3-hour block average water flow rate is back at or above the minimum required value.
  - (4) The requirements in Permit Conditions D.(2) and D.(3) shall not apply during periods that the A8 Aldehyde Stripping Column (EU 39-2A) and Wet Scrubber 39-2A are not in operation.

#### **Wet Scrubber 39-2B**

- E. The owner or operator shall operate Wet Scrubber 39-2B whenever the A9 Rectifier Column (EU 39-2B) is in operation.
- F. The owner or operator shall maintain a daily (calendar day) differential pressure drop average across Wet Scrubber 39-2B of no greater than 8.0-inches water column.
- (1) The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the differential pressure drop across Wet Scrubber 39-2B. The equipment shall be installed, operated, and maintained according to the manufacturer's recommendations, instructions, and operating manuals.
  - (2) The owner or operator shall collect and record the differential pressure drop, in inches of water column, across Wet Scrubber 39-2B at a minimum of once every 15 minutes and calculate and record the daily (calendar day) average. The daily (calendar day) average differential pressure drop shall be calculated using all data points collected during the averaging period.
  - (3) If the daily (calendar day) differential pressure drop average is above the maximum required value, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the daily (calendar day) differential pressure drop average is back below the maximum required value.

- (4) The requirements in Permit Conditions F.(2) and F.(3) shall not apply during periods that the A9 Rectifier Column (EU 39-2B) and Wet Scrubber 39-2B are not in operation.
- G. The owner or operator shall maintain a 3-hour block average water flow rate for Wet Scrubber 39-2B at no less than 2 gallons per minute.
  - (1) The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the water flow rate for Wet Scrubber 39-2B. The equipment shall be installed, operated, and maintained according to the manufacturer's recommendations, instructions, and operating manuals.
  - (2) The owner or operator shall collect and record the water flow rate, in gallons per minute, for Wet Scrubber 39-2B at a minimum of once every 15 minutes and calculate and record the 3-hour block average. The 3-hour block average shall be calculated using all data points collected during the averaging period.
  - (3) If the 3-hour block average water flow rate falls below the minimum required value, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the 3-hour block average water flow rate is back at or above the minimum required value.
  - (4) The requirements in Permit Conditions G.(2) and G.(3) shall not apply during periods that the A9 Rectifier Column (EU 39-2B) and Wet Scrubber 39-2B are not in operation.

**PSD Minor Recordkeeping Requirements for Project Number 20-159**

- H. In accordance with 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of the project (Project Number 20-159) the owner or operator shall document and maintain a record of the following:
  - A. A description of the project (Project Number 20-159),
  - B. Identification of the emission unit(s) whose emissions of a regulated NSR pollutant (VOCs) could be affected by the project (Project Number 20-159), and
  - C. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of "*projected actual emissions*" in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.
- I. In accordance with 567 IAC 33.3(18)"f"(4), the owner or operator shall:
  - (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project (Project Number 20-159) and that is emitted by any emissions unit identified in Permit Condition 5.H.(2).
  - (2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of five (5) years following resumption of regular operations and maintain a record of regular operations after the change
- J. In accordance with 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing the information required in Permit Condition 5.I. of this permit for a period of ten (10) years after the project (Project Number 20-159) is completed.
- K. In accordance with 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

**New Source Performance Standards (NSPS) Requirements**

L. The owner or operator shall follow all applicable standards of NSPS Subpart VV, 40 CFR §60.480 through §60.489.

M. The owner or operator keep records as required in 40 CFR §60.486 and reports as required in 40 CFR §60.487.

Authority for Requirement: DNR Construction Permit 20-A-174-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 65.9

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 50

Exhaust Temperature (°F): 100

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 20-A-174-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 39-4**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b>      | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|-----------------------|----------------------------|
| EU39-4               | A-8 Feed Tank                    | Ethanol Beverage Alcohol | 85,000 gallons        | 96-A-006-S2                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

There are no applicable emission limits for this emission unit at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

N. The facility (plant number 23-01-006) shall equip the storage vessel with a fixed roof in combination with an internal roof and shall meet the specifications detailed in 40 CFR §60.112b(a)(1).

- (1) The facility shall visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with volatile organic liquid (VOL). If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.
- (2) The facility shall visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed.
- (3) The facility shall notify the Department in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by Conditions A.(1) and A.(2), above, of this permit to afford the Department the opportunity to have an observer present. If the inspection required by Condition A.(2) of this permit is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the Department at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Department at least 7 days prior to the refilling.

- O. The facility (plant number 23-01-006) shall keep the following records:
  - (1) The facility shall keep readily accessible records showing the dimension of the storage vessel and analysis showing the capacity of the vessel. The facility shall keep this record for the life of the source.
  - (2) The facility shall maintain a record of the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. The owner or operator shall keep copies of this record for at least 2 years.
  
- P. The owner or operator shall follow all applicable standards of NSPS Subpart VV, 40 CFR §60.480 through §60.489.
  
- Q. The owner or operator shall keep records as required in 40 CFR §60.486 and reports as required in 40 CFR §60.487.
  
- R. The facility shall annually record the net material throughput, in gallons.

Authority for Requirement: DNR Construction Permit 96-A-006-S2  
 567 IAC 23.1(2)"nn"  
 40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 65.1  
 Stack Opening, (inches, dia.): 8  
 Exhaust Flow Rate (scfm): Displacement  
 Exhaust Temperature (°F): 90  
 Discharge Style: Downward  
 Authority for Requirement: DNR Construction Permit 96-A-006-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 43-1**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>      | <b>Raw Material</b> | <b>Rated Capacity</b>        | <b>Construction Permit</b> |
|----------------------|----------------------------------|-------------------------------|---------------------|------------------------------|----------------------------|
| EU43-1               | MR-4 Evaporator                  | MR Vent Scrubber<br>(CE 43-1) | Stillage            | 1,728,000<br>gal/day of feed | 02-A-810-S6                |
| EU43-2               | Stillage Tank                    |                               | Stillage            | 220,000 gallons              |                            |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.50 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 02-A-810-S6  
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.33 lb/hr.

Authority for Requirement: DNR Construction Permit 02-A-810-S6

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall operate the scrubber (CE 43-1) with a pressure drop below 8" water column, based on a three hour rolling average.
  - a. Monitor the total pressure drop across the scrubber continuously, in inches of water.
  - b. Calculate and record the three hour rolling average.
  - c. Perform and document corrective action taken when pressure drop is at or above 8" water column.
- B. The owner or operator shall only use fresh water (no recycling) without any additives as the scrubbant.
- C. The owner or operator shall operate the scrubber (CE 43-1) scrubbant flow rate shall not be less than 3 gallons per minute.

- D. The owner or operator shall operate the scrubber (CE 43-1) pH at a value greater than the minimum value observed during the compliance test.  
 (1) The owner or operator shall record the minimum pH observed during the compliance test.
- E. The owner or operator shall continuously monitor the scrubbant flow rate, in gallons per minute, and pH for the scrubber (CE 43-1) when CE 43-1 is in operation.  
 (2) The owner or operator shall continuously record the scrubbant flow rate, in gallons per minute, and pH.
- F. The owner or operator shall limit the facility (plant number 23-01-006) to producing 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.  
 (3) The owner or operator shall determine the total amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- G. The owner or operator shall limit the facility (plant number 23-01-006) to producing 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.  
 (4) The owner or operator shall determine the total amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- H. The owner or operator shall limit the facility (plant number 23-01-006) to producing 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.  
 (5) The owner or operator shall determine the total amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 02-A-810-S6

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 109

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): 250<sup>(1)</sup>

Exhaust Temperature (°F): 80

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 02-A-810-S6

<sup>(1)</sup>The air flow from this emission point varies with process operating parameters. The value listed is the maximum air flow.

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 53-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b>   | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-------------------------|----------------------------|
| EU53-1               | R-1 Stripping Column             | Scrubber (CE 53-1)       | Ethanol             | 648,000 gal/day of feed | 96-A-485-S2                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.86 lb/hr.

Authority for Requirement: DNR Construction Permit 96-A-485-S2

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operating limits for this emission unit shall be:

- A. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200° equivalent) per rolling twelve (12) month period.
- B. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200° equivalent) per rolling twelve (12) month period.
- C. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200° equivalent) per rolling twelve (12) month period.
- D. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
- E. The owner or operator shall operate and maintain the control equipment (CE 53-1) in accordance with the recommendations of the manufacturer.
- F. Determine the annual amount of ethanol (200° equivalent) produced on a rolling-12-month basis for each month of operation.
- G. Determine the annual amount of beverage alcohol (200° equivalent) produced on a rolling-12-month basis for each month of operation.
- H. Determine the annual amount of gin (200° equivalent) produced on a rolling-12-month basis for each month of operation.

- I. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.
- J. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 53-1).

Authority for Requirement: DNR Construction Permit 96-A-485-S2  
 567 IAC 23.1(2)"nn"  
 40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 74.3  
 Stack Opening, (inches, dia.): 8  
 Exhaust Flow Rate (acfm): 50  
 Exhaust Temperature (°F): 100  
 Discharge Style: Vertical  
 Authority for Requirement: DNR Construction Permit 96-A-485-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

- Agency Approved Operation & Maintenance Plan Required?** Yes  No
- Facility Maintained Operation & Maintenance Plan Required?** Yes  No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 58-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>                       | <b>Raw Material</b> | <b>Tank Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--|---------------------|----------------------|----------------------------|
| EU58-1A              | 111 Fermenter                    | Two (2) Fermenter Scrubbers (CE 58-1, CE 58-2) | Starch              | 500,000 gallons      | 95-A-234-S11               |
| EU58-1B              | 112 Fermenter                    |  | Starch              | 500,000 gallons      |                            |
| EU58-1C              | 113 Fermenter                    |  | Starch              | 500,000 gallons      |                            |
| EU58-1D              | 114 Fermenter                    |  | Germ                | 500,000 gallons      |                            |
| EU58-1E              | 115 Fermenter                    |  | Starch              | 500,000 gallons      |                            |
| EU58-1F              | 116 Fermenter                    |  | Starch              | 500,000 gallons      |                            |
| EU58-1G              | 117 Fermenter                    |  | Starch              | 750,000 gallons      |                            |
| EU58-1H              | 118 Fermenter                    |  | Starch              | 750,000 gallons      |                            |
| EU58-1I              | 119 Fermenter                    |  | Starch              | 750,000 gallons      |                            |
| EU58-1J              | 120 Fermenter                    |  | Starch              | 750,000 gallons      |                            |
| EU58-1K              | 121 Fermenter                    |  | Starch              | 1,300,000 gallons    |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.24 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 95-A-234-S11  
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 25.0 lb/hr., 95% control or 20 ppmv

Authority for Requirement: DNR Construction Permit 95-A-234-S11

National Emission Standards for Hazardous Air Pollutants (NESHAP):

Emission units EU 58-1A through EU 58-1K are subject to NESHAP's A (General Provisions) and FFFF (Miscellaneous Organic Chemical Manufacturing)

Authority for Requirement: DNR Construction Permit 95-A-234-S11  
567 IAC 23.1(4) and 23.1(4) "cf"  
40 CFR 63 Subpart FFFF

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
  - (1) Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- B. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
  - (1) Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- C. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
  - (1) Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- D. The total scrubbant flow rate shall not be less than 90 percent of the total liquid flow rate at the inlet to the scrubber measured during the most recent performance test that demonstrated compliance with the VOC emission limit, in gallons per minute, based on a three hour rolling average.
  - (1) Monitor the total scrubbant flow rate, in gallons per minute. Calculate and record the three hour rolling average.
- E. The pressure drop across the scrubbers shall be maintained between 0.5 and 25 inches of water, based on a three hour rolling average.
  - (1) Monitor the total pressure drop across the scrubbers, in inches of water. Calculate and record the three hour rolling average.
- F. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.
  - (1) The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.

G. During routine maintenance or cleaning, all emissions associated with this emission point may be routed through either Scrubber CE58-1 or CE58-2 under the following conditions:

- (1) Work practices will be utilized to reduce emissions including reducing fermentation production.
- (2) Scrubber bypass shall not exceed 24 hours per calendar year.
- (3) Scrubbant flow shall be maintained at permitted levels in the operational scrubber while the opposing scrubber is bypassed.

H. The owner or operator shall keep records of scrubber maintenance. The records shall include total number of hours each scrubber is bypassed during the calendar year.

I. The owner or operator shall install a monitoring device capable of providing a continuous record of the saturated scrubbant density, as required by the monitoring requirements in 40 CFR 63.993.

Authority for Requirement: DNR Construction Permit 95-A-234-S11  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV

#### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 137.3

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 17,700

Exhaust Temperature (°F): 90

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 95-A-234-S11

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant - VOC

1st Stack Test to be Completed by (date) – Once every 36 months<sup>(1)</sup>

Test Method – 40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 95-A-234-S11

<sup>(1)</sup> Last test completed 6/10/2022

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

*(Required for CE58-1 and CE58-2)*

*See Appendix A for CAM plans*

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: 61-6 and 64-5a

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description | Control Equipment   | Raw Material | Rated Capacity             | Construction Permit |
|----------------|---------------|---------------------------|---|--------------|----------------------------|---------------------|
| EP 61-6        | EU 61-6       | #2 Anhydrous Column       | Anhydrous Column Scrubber #2 (CE 61-6)  | Ethanol      | 360,000 gal/day of product | 93-A-372-S5         |
|                | EU 61-6A      | No. 2 Nitrogen Stripper   | Anhydrous Column Scrubber #2 (CE 61-6)  | Ethanol      | 360,000 gal/day of Alcohol |                     |
| EP-64-5a       | EU 64-5       | #1 Anhydrous Column       | Anhydrous Column Scrubber #1 (CE 64-5)  | Ethanol      | 288,000 gal/day of product | 18-A-033            |
|                | EU 64-5A      | No. 1 Nitrogen Stripper   | Anhydrous Column Scrubber #1 (CE 64-5)  | Ethanol      | 288,000 gal/day of Alcohol |                     |
|                | EU 64-15      | 200 Product Tank          | Anhydrous Column Scrubber #1 (CE64-5)<br>B Vent Scrubber (CE64-6) or<br>C Vent Scrubber (CE64-12) | Ethanol      | 1,300 gallons of Alcohol   |                     |

### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from these emission points shall not exceed the levels specified below.*

#### EP 61-6

Pollutant: VOC's

Emission Limit(s): 1.58 lb/hr.

Authority for Requirement: DNR Construction Permit 93-A-372-S5

#### EP 64-5A

Pollutant: VOC's

Emission Limit(s): 1.26 lb/hr.

Authority for Requirement: DNR Construction Permit 18-A-033

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
- B. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
- C. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
- D. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
- E. The owner or operator shall follow the applicable standards of Subpart FFFF, 40 CFR 63.2430 through 63.2550, for a Group 2 continuous process vent.
- F. The owner or operator shall operate and maintain the control equipment in accordance with the recommendations of the manufacturer.
- G. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- H. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- I. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- J. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.
- K. The owner or operator shall keep records as required in 40 CFR 63.2525, and reports as required in 40 CFR 63.2520.
- L. The owner or operator shall maintain records of the maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permits 93-A-372-S5 & 18-A-033  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV  
567 IAC 23.1(4)"cf"  
40 CFR 63 Subpart FFFF

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

| <b>EP</b> | <b>Stack Height, (ft, from the ground)</b> | <b>Stack Opening, (inches, dia.)</b> | <b>Exhaust Flow Rate (scfm)</b> | <b>Exhaust Temperature (°F)</b> | <b>Discharge Type</b> | <b>Construction Permit</b> |
|-----------|--|--------------------------------------|---------------------------------|---------------------------------|-----------------------|----------------------------|
| 61-6      | 141.3                                      | 8                                    | 300                             | 100                             | Vertical Unobstructed | 93-A-372-S5                |
| 64-5a     | 112  | 6                                    | 300                             | 100                             | Horizontal            | 18-A-033                   |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 64-12**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>  | <b>Raw Material</b> | <b>Rated Capacity</b>         | <b>Construction Permit</b> |
|----------------------|----------------------------------|---|---------------------|-------------------------------|----------------------------|
| EU 64-6              | B1/B2 Beer Still                 | B Vent Scrubber (CE 64-6)   | Alcohol             | 2,592,000 gallons/day of feed | 95-A-505-S4                |
| EU 64-12             | C1/C2 Beer Still                 | C Vent Scubber (CE 64-12)   | Alcohol             | 2,880,000 gallons/day of feed |                            |
| EU 64-13             | Fusel Oil Tank                   | B Vent Scrubber (CE 64-6) or  | Fusel Oil           | 360 gallons of fusel oil      |                            |
| EU 64-14             | Recycle Tank                     | C Vent Scrubber (CE 64-12)  | Alcohol             | 360 gallons of alcohol        |                            |
| EU 65-15             | 200 Product Tank                 | Anhydrous Column Scrubber #1 (CE 64-5), B Vent Scrubber (CE-6) or C Vent Scrubber (CE64-12) | Alcohol             | 1,300 gallons of alcohol      |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.50 lb/hr., 500 ppm<sub>v</sub>

Authority for Requirement: DNR Construction Permit 95-A-505-S4  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 3.72 lb/hr.

Authority for Requirement: DNR Construction Permit 95-A-505-S4

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
  - a. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- B. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
  - a. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- C. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200° equivalent) per rolling twelve (12) month period.
  - a. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- D. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
  - a. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.
- E. The owner or operator shall operate and maintain the control equipment in accordance with the recommendations of the manufacturer.
  - a. The owner or operator shall maintain records of the maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permit 95-A-505-S4  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 141.2  
Stack Opening, (inches, dia.): 10  
Exhaust Flow Rate (scfm): 170  
Exhaust Temperature (°F): 100  
Discharge Type: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 95-A-505-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 71A-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>       | <b>Control Equipment</b>    | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|--|-----------------------------|---------------------|-----------------------|----------------------------|
| EU 71A-1             | A-1A Caustic Stripper and Caustic Tank | Caustic Scrubber (CE 71A-1) | Spent Caustic       | 288,000 gallon/day    | 05-A-507-S3                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 0.29 lbs/hr.

Authority for Requirement: DNR Construction Permit 05-A-507-S3

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall limit the facility (plant number 23-01-006) to producing 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
- B. The owner or operator shall determine the total amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- C. The owner or operator shall limit the facility (plant number 23-01-006) to producing 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
- D. The owner or operator shall determine the total amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- E. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
- F. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.
- G. The owner or operator shall maintain the scrubbant flowrate at or above 4 gallons per minute when operating the caustic scrubber (CE 71-A-1).

- H. The owner or operator shall properly operate and maintain equipment to continuously monitor the scrubbant flowrate. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
- I. The owner or operator shall maintain a continuous record of the scrubbant flowrate, in gallons per minute. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.

Authority for Requirement: DNR Construction Permit 05-A-507-S3  
 567 IAC 23.1(2)"nn"  
 40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 115.1  
 Stack Opening, (inches, dia.): 3  
 Exhaust Flow Rate (scfm): 20  
 Exhaust Temperature (°F): Ambient  
 Discharge Style: Vertical, Unobstructed  
 Authority for Requirement: DNR Construction Permit 05-A-507-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 71-9**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>   | <b>Control Equipment</b>                    | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|------------------------------------|---|---------------------|-----------------------|----------------------------|
| EU71-9               | CO <sub>2</sub> Stripper           | CO <sub>2</sub> Stripper Scrubber (CE 71-9) | Feed                | 27,000 gallons/hr.    | 05-A-506-S3                |
| EU71-9A              | CO <sub>2</sub> Stripper Feed Tank |   | Feed                | 2,000 gallons         |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-506-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-506-S3  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.50 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-506-S3  
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 1.34 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-506-S3

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall limit the facility (plant number 23-01-006) to producing 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
- B. The owner or operator shall determine the total amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- C. The owner or operator shall limit the facility (plant number 23-01-006) to producing 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
- D. The owner or operator shall determine the total amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- E. The owner or operator shall limit the facility (plant number 23-01-006) to producing 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
- F. The owner or operator shall determine the total amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- G. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

Authority for Requirement: DNR Construction Permit 05-A-506-S3  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 106.3
- Stack Opening, (inches, dia.): 3
- Exhaust Flow Rate (scfm): 85
- Exhaust Temperature (°F): 100
- Discharge Style: Vertical, Unobstructed
- Authority for Requirement: DNR Construction Permit 05-A-506-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: 72-5, 72-9, 72-10, 72-13**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|
| 72-5                  | EU 72-5              | RGSG 3 Tank                      | Gin                 | 20,000 gallons/hr.    |
| 72-9                  | EU 72-9              | R1 Stripper Tank 1               | Dilute Alcohol      | 10,500 gallons/hr.    |
| 72-10                 | EU 72-10             | R1 Stripper Tank 2               | Ethyl Alcohol       | 10,500 gallons/hr.    |
| 72-13                 | EU 72-13             | Antifoam Storage Tank            | Antifoam            | 12,500 gallons        |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission points at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 73-3**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>   | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--|---------------------|-----------------------|----------------------------|
| EU 73-23             | Yeast Propagator 1               | Propagator Scrubber 1 (CE 73-23)<br>Propagator Scrubber 2 (CE 73-24) | Yeast Slurry        | 91,325 gallons        | 15-A-516                   |
| EU 73-24             | Yeast Propagator 2               |  | Yeast Slurry        | 91,325 gallons        |                            |
| CE 73-5              | Propagator Knockout Tank         |  | Condensate          | 4,700 scfm            |                            |
| EU 72-7              | Distillation Reprocess Tank      |  | Off-spec ethanol    | 12,500 gallons        |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 15-A-516  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 2.1 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-516  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.5 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 15-A-516  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 8.5 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-516

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

#### Process throughput:

1. The total liquor flow rate for the scrubber, CE 73-23, shall not be less than 16 gallons per minute, based on a three hour rolling average.
2. The pressure drop across the scrubber, CE 73-23, shall be maintained between 0.5 and 8 inches of water, based on a three hour rolling average.
3. The total liquor flow rate for the scrubber, CE 73-24, shall not be less than 16 gallons per minute, based on a three hour rolling average.
4. The pressure drop across the scrubber, CE 73-24, shall be maintained between 0.5 and 8 inches of water, based on a three hour rolling average.
5. The owner or operator shall properly operate and maintain equipment to monitor the total liquor flow rate and differential pressure drop across the scrubbers (CE 73-23 and CE 73-24). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
6. The owner or operator shall develop an operating and maintenance plan for the scrubbers (CE 73-23 and CE 73-24) including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.
7. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
8. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
9. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200° equivalent) per rolling twelve (12) month period.
10. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
11. The owner or operator shall monitor the total liquor flow rate, in gallons per minute. Calculate and record the three hour rolling average.
12. The owner or operator shall monitor the total pressure drop across the scrubber, in inches of water. Calculate and record the three hour rolling average.
13. The owner or operator shall collect and record the total liquor flow rate to each scrubber (CE 73-23 and CE 73-24), in gallons per minute on a continuous basis. If the total liquor flow rate to a scrubber (CE 73-23 and/or CE 73-24) falls below the values specified above, the owner or operator shall investigate the scrubber (CE 73-23 and/or CE 73-24) and make corrections to the scrubber (CE 73-23 and/or CE 73-24). The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that a scrubber (CE 73-23 and/or CE 73-24) is not in operation.
14. The owner or operator shall collect and record the pressure drop across each scrubber (CE 73-23 and CE 73-24), in inches of water, on a continuous basis. If the pressure drop across a scrubber (CE 73-23 and/or CE 73-24) falls outside the range specified above, the owner or operator shall investigate the scrubber (CE 73-23 and/or CE 73-24) and make corrections to the scrubber (CE 73-23 and/or CE 73-24). The owner or operator shall maintain a record of all corrective actions

taken. This requirement shall not apply on the days that a scrubber (CE 73-23 and/or CE 73-24) is not in operation.

15. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the scrubbers (CE 73-23 and CE 73-24).
16. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
17. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
18. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
19. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

Authority for Requirement: DNR Construction Permit 15-A-516  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 87.4

Stack Opening, (inches, dia.): 16

Exhaust Flow Rate (scfm): 4,400

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-516

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 78-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>  | <b>Raw Material</b>                     | <b>Rated Capacity</b>  | <b>Construction Permit</b> |
|----------------------|----------------------------------|---|---|------------------------|----------------------------|
| EU 73-5              | Ethyl Alcohol - Mix Tank         | MR 1-3<br>Evaporator<br>Scrubber #1<br>(CE 78-1a) or<br>MR 1-3<br>Evaporator<br>Scrubber #2<br>(CE 78-1b) | Starch,<br>Steepwater,<br>Stillage, UFC | 14,850 gallons         | 96-A-722-S5                |
| EU 73-11             | 108 Stillage Tank                |   | Stillage                                | 80,000 gallons         |                            |
| EU 73-12             | 110 Stillage Tank                |   | Stillage                                | 80,000 gallons         |                            |
| EU 78-8              | MR-3 Stillage<br>Evaporator      |   | Stillage                                | 864,000<br>gallons/day |                            |
| EU 78-9              | MR-2 Stillage<br>Evaporator      |   | Stillage                                | 864,000<br>gallons/day |                            |
| EU 78-10             | MR-1 Stillage<br>Evaporator      |   | Stillage                                | 864,000<br>gallons/day |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.0 lb/hr., 500 ppm<sub>v</sub>

Authority for Requirement: DNR Construction Permit 96-A-722-S5  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 1.04 lb/hr.

Authority for Requirement: DNR Construction Permit 96-A-722-S5

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall vent emissions to either MR 1-3 Evaporator Scrubber #1(CE 78-1a) or MR 1-3 Evaporator Scrubber #2(CE 78-1b) at all times during operation of stillage equipment (EU73-5, EU73-11, EU73-12, EU78-8 – EU78-10).

- B. The owner or operator shall operate MR 1-3 Evaporator Scrubber #1 (CE 78-1a) or MR 1-3 Evaporator Scrubber #2 (CE 78-1b) with a pressure drop below 8" water column, based on a three hour rolling average.
  - a. Monitor the total pressure drop across the scrubbers continuously, in inches of water.
  - b. Calculate and record the three hour rolling average.
  - c. Perform and document corrective action taken when pressure drop is at or above 8" water column.
- C. The owner or operator shall only use fresh water (no recycling) without any additives as the scrubbant.
- D. The owner or operator shall operate MR 1-3 Evaporator Scrubber #1 (CE 78-1a) or MR 1-3 Evaporator Scrubber #2 (CE 78-1b) scrubbant flow rate shall not be less than 3 gallons per minute.
- E. The owner or operator shall operate MR 1-3 Evaporator Scrubber #1 (CE 78-1a) or MR 1-3 Evaporator Scrubber #2 (CE 78-1b) pH at a value greater than the minimum value observed during the compliance test.
  - a. The owner or operator shall record the minimum pH observed during the compliance test.
- F. The owner or operator shall continuously monitor the scrubbant flow rate, in gallons per minute, and pH for MR 1-3 Evaporator Scrubber #1 (CE 78-1a) or MR 1-3 Evaporator Scrubber #2 (CE 78-1b) when CE 78-1a or CE 78-1b is in operation.
  - a. The owner or operator shall continuously record the scrubbant flow rate, in gallons per minute, and pH.
- G. The owner or operator shall limit the facility (plant number 23-01-006) to producing 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
  - a. The owner or operator shall determine the total amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- H. The owner or operator shall limit the facility (plant number 23-01-006) to producing 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
  - a. The owner or operator shall determine the total amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- I. The owner or operator shall limit the facility (plant number 23-01-006) to producing 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
  - a. The owner or operator shall determine the total amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 96-A-722-S5

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 88

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 350<sup>(1)</sup>

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 96-A-722-S5

<sup>(1)</sup> The air flow from this emission point varies with process operating parameters. The value listed here is the estimated maximum air flow.

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Numbers: 73-15, 73-16, 73-17, 73-19, & 73-20**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b>                | <b>Rated Capacity</b> |
|-----------------------|----------------------|----------------------------------|------------------------------------|-----------------------|
| 73-15                 | EU73-15              | 109 Fermenter                    | Stach Light Steepwater, Yeast, UFC | 204,000 gallons/hr.   |
| 73-16                 | EU73-16              | 107 Fermenter                    | Stach Light Steepwater, Yeast, UFC | 204,000 gallons/hr.   |
| 73-17                 | EU73-17              | 105 Fermenter                    | Stach Light Steepwater, Yeast, UFC | 204,000 gallons/hr.   |
| 73-19                 | EU73-19              | 103 Fermenter                    | Stach Light Steepwater, Yeast, UFC | 204,000 gallons/hr.   |
| 73-20                 | EU73-20              | 101 Fermenter                    | Stach Light Steepwater, Yeast, UFC | 204,000 gallons/hr.   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission points at this time

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 77-2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EU 77-2              | Gin Still #1                     | Ethanol             | 8,000 gallons         | 05-A-508-S1                |
| EU 77-3              | Gin Still #2                     | Ethanol             | 8,000 gallons         |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: VOC's

Emission Limit(s): 0.84 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-508-S1

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Process throughput:

1. The facility shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
2. The facility shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
3. The facility shall be limited to 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
4. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.

Reporting & Record keeping:

1. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
2. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
3. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.

4. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

Authority for Requirement: DNR Construction Permit 05-A-508-S1  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 38.7

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (scfm): 5

Exhaust Temperature (°F): 90

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit 05-A-508-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: 77-6, 77-9, 77-10, 77-11, 77-12**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b>                      |
|-----------------------|----------------------|----------------------------------|---------------------|--|
| 77-6                  | EU77-6               | RGSG-1 Tank                      | Potable Alcohol     | 15,000 gallons                             |
| 77-9                  | EU77-9               | RGSG-2 Tank                      | Potable Alcohol     | 15,000 gallons                             |
| 77-10                 | EU77-10              | GHT-1 Tank                       | Potable Alcohol     | 1,200 gallons/hr.<br>(864,000 gallons/day) |
| 77-11                 | EU77-11              | GHT-2 Tank                       | Potable Alcohol     | 1,200 gallons/hr.                          |
| 77-12                 | EU77-12              | GHT-3 Tank                       | Potable Alcohol     | 1,200 gallons/hr.                          |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission points at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-24, YRD-25**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|
| YRD-24                | EUYRD-24             | Fusel Oil Tank 2                 | Fusel Oil           | 8,225 gallons         |
| YRD-25                | EUYRD-25             | Fusel Oil Tank 1                 | Fusel Oil           | 8,225 gallons         |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission units at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-26 & YRD-27**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| YRD-26                | EUYRD-26             | 190-2 Alcohol Storage Tank       | Alcohol             | 30,000 gallons        | 95-A-231-S3                |
| YRD-27                | EUYRD-27             | 190-1 Alcohol Storage Tank       | Alcohol             | 30,000 gallons        | 95-A-230-S3                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

There are no applicable emission limits for these emission units at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
  - a. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
2. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200° equivalent) per rolling twelve (12) month period.
  - a. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
3. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200° equivalent) per rolling twelve (12) month period.
  - a. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
4. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
  - a. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

Authority for Requirement: DNR Construction Permits 95-A-231-S3 & 95-A-230-S3  
 567 IAC 23.1(2)"nn"  
 40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 29.2

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (scfm): Displacement

Exhaust Temperature (°F): 90

Discharge Style: Obstructed Vertical

Authority for Requirement: DNR Construction Permits 95-A-231-S3 & 95-A-230-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-34 & YRD-35**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| YRD-34                | EUYRD-34             | 200-2 Tank                       | 200 Proof Alcohol   | 210,000 gallons       | 95-A-233-S1                |
| YRD-35                | EUYRD-35             | 200-1 Tank                       | 200 Proof Alcohol   | 210,000 gallons       | 95-A-232-S1                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission points at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

**Process throughput:**

1. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
2. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
3. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
4. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
5. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

Authority for Requirement: DNR Construction Permits 95-A-233-S1 & 95-A-232-S1  
 567 IAC 23.1(2)"nn"  
 40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 46

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): Displacement

Exhaust Temperature (°F): 90

Discharge Style: Obstructed Vertical

Authority for Requirement: DNR Construction Permits 95-A-233-S1 & 95-A-232-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-36**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|
| YRD-36                | EUYRD-36             | AS-101 Tank                      | Potable Alcohol     | 300,000 gallons       |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no applicable requirements for this emission points at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-40, YRD-41, YRD-42**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>           | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|------------------------------------|---------------------|-----------------------|----------------------------|
| YRD-40                | EUYD-40              | CDA-1 Tank                       | Internal Floating Roof (CE YRD-40) | Ethanol             | 4,060,000 gallons     | 93-A-368-S4                |
| YRD-41                | EUYRD-41             | CDA-2 Tank                       | Internal Floating Roof (CE YRD-41) | Ethanol             | 4,060,000 gallons     | 93-A-369-S4                |
| YRD-42                | EUYRD-42             | CDA-3 Tank                       | Internal Floating Roof (CE YRD-42) | Ethanol             | 4,060,000 gallons     | 93-A-370-S4                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission units at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operating limits for this emission unit shall be:

- A. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
- B. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
- C. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
- D. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR §60.480 through §60.489.
- E. The owner or operator shall operate and maintain the control equipment in accordance with the recommendations of the manufacturer.
- F. The owner or operator shall follow all applicable standards of Subpart FFFF, 40 CFR §63.2445 through §60.2550.
- G. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- H. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-

12-month basis for each month of operation.

- I. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- J. The owner or operator shall keep records as required in 40 CFR §60.486, and reports as required in 40 CFR §60.487.
- K. The owner or operator shall maintain records of the maintenance performed on the control equipment.
- L. The owner or operator shall keep records as required in 40 CFR §63.2525, and reports as required in 40 CFR §63.2520.

Authority for Requirement: DNR Construction Permits 93-A-368-S4, 93-A-369-S4, and 93-A-370-S4  
 567 IAC 23.1(2)"nn"  
 40 CFR Part 60 Subpart VV  
 567 IAC 23.1(4)"cf"  
 40 CFR 63 Subpart FFFF

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b>               | <b>YRD-40</b>                   | <b>YRD-41</b>                   | <b>YRD-42</b>                   |
|-------------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Stack Height, (ft, from the ground) | 45.5                            | 45.8                            | 45.8                            |
| Stack Opening, (inches, dia.)       | 30.24                           | 30.24                           | 30.24                           |
| Exhaust Flow Rate (scfm)            | Displacement                    | Displacement                    | Displacement                    |
| Exhaust Temperature (°F)            | 90                              | 90                              | 90                              |
| Discharge Style                     | Horizontal                      | Horizontal                      | Horizontal                      |
| Authority for Requirement           | Construction Permit 93-A-368-S4 | Construction Permit 93-A-369-S4 | Construction Permit 93-A-370-S4 |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-43 & YRD-44**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>           | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|------------------------------------|---------------------|-----------------------|----------------------------|
| YRD-43                | EUYRD-43             | GAS-1 Tank                       | Internal Floating Roof (CE YRD-43) | Denaturant          | 36,000 gallons        | 95-A-247-S2                |
| YRD-44                | EUYRD-44             | GAS-2 Tank                       | Internal Floating Roof (CE YRD-44) | Denaturant          | 36,000 gallons        | 95-A-248-S3                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

There are no applicable emission limits for these emission units at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Process throughput:

1. The facility shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
2. The facility shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
3. The facility shall be limited to 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
4. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.

Reporting & Record keeping:

1. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
2. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
3. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
4. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

Authority for Requirement: DNR Construction Permits 95-A-247-S2 & 95-A-248-S3  
 567 IAC 23.1(2)"nn"  
 40 CFR Part 60 Subpart VV

**NSPS 40 CFR Part 60 Subpart Kb:**

These emission units are subject to NSPS Subpart Kb, Standards of Performance for Volatile Organic Liquid Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.

Authority for Requirement: DNR Construction Permits 95-A-247-S2 & 95-A-248-S3

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| Emission Point | Stack Height, (ft, from the ground) | Stack Opening, (inches, dia.) | Exhaust Flow Rate (scfm) | Exhaust Temperature (°F) | Discharge Style |
|----------------|-------------------------------------|-------------------------------|--------------------------|--------------------------|-----------------|
| YRD-43         | 24                                  | *                             | Displacement             | 90                       | Horizontal      |
| YRD-44         | 24                                  | *                             | Displacement             | 90                       | Horizontal      |

Authority for Requirement: DNR Construction Permits 95-A-247-S2 & 95-A-248-S3

\* These tanks are each equipped with four (4) 17" W x 25" L air scoop openings in the roof spaced evenly around the outside diameter on the roof.

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: YRD-45**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EUYRD-45             | Inhibitor-1 Tank                 | Inhibitor           | 10,000 gallons        | 95-A-525-S4                |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no applicable emission limits for this emission point at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

**Process Throughput:**

1. The facility shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
2. The facility shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
3. The facility shall be limited to 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
4. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR §60.480 through §60.489.
5. The owner or operator shall follow all applicable standards of Subpart FFFF, 40 CFR §63.2445 through §60.2550.

**Reporting & Record keeping:**

1. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling basis for each month of operation.
2. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
3. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
4. The owner or operator shall keep records as required in 40 CFR §60.486, and reports as required in §40 CFR 60.487.
5. The owner or operator shall keep records as required in 40 CFR §63.2525, and reports as required in 40 CFR §63.2520.

Authority for Requirement: DNR Construction Permit 95-A-252-S4  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV  
567 IAC 23.1(2)"cf"  
40 CFR Part 63 Subpart FFFF

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 18  
Stack Opening, (inches, dia.): 6  
Exhaust Flow Rate (scfm): Displacement  
Exhaust Temperature (°F): 130  
Discharge Style: Obstructed Vertical  
Authority for Requirement: DNR Construction Permit 95-A-252-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-46 & YRD-47**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>           | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|------------------------------------|---------------------|-----------------------|----------------------------|
| YRD-46                | EUYRD-46             | AS-107 Alcohol Storage Tank      | Internal Floating Roof (CE YRD-46) | Ethanol             | 1,000,000 gallons     | 95-A-504-S3                |
| YRD-47                | EUYRD-47             | AS-108 Alcohol Storage Tank      | Internal Floating Roof (CE YRD-47) | Beverage Ethanol    | 1,000,000 gallons     | 96-A-482-S3                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for this emission unit at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility (plant number 23-01-006) shall equip each storage vessel with a fixed roof in combination with an internal roof and shall meet the specifications as stated in 40 CFR Part 60 §60.112b(a)(1).
  - (1) The facility shall visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling each storage vessel with volatile organic liquid (VOL). If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.
  - (2) The facility shall visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time each storage vessel is emptied and degassed.
  - (3) The facility shall notify the Department in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by Conditions A.(1) and A.(2), above, of this permit to afford the Department the opportunity to have an observer present. If the inspection required by Condition A.(2) of this permit is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the Department at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by

express mail so that it is received by the Department at least 7 days prior to the refilling.

- B. The facility (plant number 23-01-006) shall comply with all reporting, notification, and recordkeeping requirements as specified 40 CFR Part 60 Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels*, specifically §60.115b and §60.116b.
- C. The facility (plant number 23-01-006) shall record and report as specified in 40 CFR Part 60 §60.115b(a) *Reporting and recordkeeping requirements*.
- D. The facility (plant number 23-01-006) shall keep records as specified in 40 CFR Part 60 §60.116b(a). The facility shall keep copies of all records required by §60.116b(b) for the life of the source.
  - (1) The facility shall record as specified in 40 CFR Part 60 §60.116b(b). The facility shall keep readily accessible records showing the dimension of each storage vessel and analysis showing the capacity of each vessel.
  - (2) As specified in 40 CFR Part 60 §60.116b(c), the facility shall maintain a record of the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.
- E. The owner or operator shall follow all applicable standards of NSPS Subpart VV, 40 CFR §60.480 through §60.489.
- F. The owner or operator shall keep records as required in 40 CFR §60.486 and reports as required in 40 CFR §60.487.
- G. The facility shall annually record the net material throughput, in gallons.  
Authority for Requirement: DNR Construction Permits 95-A-504-S3 & 96-A-482-S3  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV  
567 IAC 23.1(2)"ddd"  
40 CFR Part 60 Subpart Kb

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 48.5

Stack Opening, (inches, dia.): 6 vents, each at 12" x 24"

Exhaust Flow Rate (scfm): Displacement

Exhaust Temperature (°F): 90

Discharge Style: Downward

Authority for Requirement: DNR Construction Permits 95-A-504-S3 & 96-A-482-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: YRD-51**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>  | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|-----------------------------------|---------------------|-----------------------|----------------------------|
| YRD-51               | Specialty Denaturant Storage Tank | Denaturant          | 32,000 gal            | 21-A-194                   |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.26 tons/yr

Authority for Requirement: DNR Construction Permit 21-A-194

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall follow all applicable standards of NSPS Subpart VV, 40 CFR §60.480 through §60.489.
- B. The owner or operator shall not store any specialty denaturant containing HAP in this storage tank. The owner or operator shall not store any specialty denaturant with a vapor pressure greater than 1.33 psia.
  - (1) The owner or operator shall maintain Safety Data Sheets (SDS) on-site that specifies the content and vapor pressure for each specialty denaturant stored in the storage tank.
- C. This facility (plant number 23-01-006) shall be limited to adding specialty denaturant to industrial alcohol at a maximum of 500,000 gallons per rolling twelve (12) month period. On a monthly basis, the owner or operator shall:
  - (1) Record the amount (in gallons) of specialty denaturant added to industrial alcohol.
  - (2) Record and calculate the 12-month rolling total amount (in gallons) of specialty denaturant added to industrial alcohol.

Authority for Requirement: DNR Construction Permit 21-A-194  
567 IAC 23.1(20)"nn"  
40 CFR 60 Subpart VV

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 33.5

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 45

Exhaust Temperature (°F): Ambient

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 21-A-194

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: YRD-L2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>                      | <b>Raw Material</b> | <b>Rated Capacity</b>  | <b>Construction Permit</b> |
|----------------------|----------------------------------|---|---------------------|--|----------------------------|
| EUYRD-L2             | Ethanol Truck Loadout            | Non Dedicated Truck Loadout Flare* (CEYRD-12) | Ethyl Alcohol       | Fuel: 1,225,000 gallons/day (200° equivalent)<br>Non-Fuel: 800,000 gallons/day (200° equivalent) | 05-A-509-S3                |

\* Only used with fuel alcohol trucks.

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-509-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.34 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-509-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.34 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-509-S3  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppm<sub>v</sub>

Authority for Requirement: DNR Construction Permit 05-A-509-S3  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 2.0 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-509-S3

Pollutant: Volatile Organic Compounds (VOC's)  
Emission Limit(s): 53 tons/yr., 95% control  
Authority for Requirement: DNR Construction Permit 05-A-509-S3

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 5.0 lb/hr.  
Authority for Requirement: DNR Construction Permit 05-A-509-S3

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility (plant number 23-01-006) shall be limited to producing 237.3 million gallons of ethanol (200 proof equivalent of fuel, beverage, and industrial grade) per rolling twelve (12) month period.
  - (1) The facility shall monthly record the amount of ethanol (200 proof equivalent) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent) produced for each month of operation.
  
- B. The facility (plant number 23-01-006) shall be limited to producing 54.8 million gallons, combined, of industrial and beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
  - (1) The facility shall monthly record the total amount of alcohol (200 proof equivalent of industrial and beverage grade) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent of industrial and beverage grade) produced for each month of operation.
  
- C. The facility (plant number 23-01-006) shall be limited to producing 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
  - (1) The facility shall monthly record the amount of gin (200 proof equivalent) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of gin (200 proof equivalent) produced for each month of operation.
  
- D. The facility (plant number 23-01-006) shall be limited to loading out, uncontrolled<sup>(1)</sup>, a maximum of 190 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period, facility-wide.
  - (1) The facility shall monthly record the amount of ethanol (200 proof equivalent) loaded out, uncontrolled, facility-wide.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent) loaded out, uncontrolled, facility-wide.

- E. The facility shall be limited to using natural gasoline as the denaturant.
  - (1) The facility shall retain the SDS for the denaturant (natural gasoline).
  - (2) In emergency situations, the facility is allowed to use other denaturants within ASTM Specification D4806 – gasoline blendstocks or unleaded gasoline.
    - (a) The facility shall record the amount of alternative denaturant used during emergency operations.
    - (b) The facility shall record the justification (emergency) requiring alternative denaturant use.
  
- F. The facility (plant number 23-01-006) shall be limited to adding denaturant at an amount less than 2.50%, by volume, to the ethanol product loaded out.
  - (1) The facility shall monthly record the amount of denaturant loaded out facility-wide.
  - (2) The facility shall monthly record the amount of ethanol product loaded out facility-wide.
  - (3) The facility shall monthly record and calculate the percentage, by volume, of denaturant loaded out facility-wide, by dividing the amount of denaturant loaded out by the amount of ethanol product loaded out.
  
- G. The owner or operator shall follow all applicable standards of NSPS Subpart VV, 40 CFR §60.480 through §60.489.
  
- H. The owner or operator shall keep records as required in 40 CFR §60.486 and reports as required in 40 CFR §60.487.
  
- I. All loadout operations shall be completed using submerged fill or bottom fill.

**Flare**

- J. The flare (CEYRD-L2) shall be fueled with natural gas in order to maintain the pilot during loading operations. The flare shall be operated with a pilot flame before loading operations are initiated. For the flare, the owner or operator shall:
  - (1) Use a thermocouple or any other equivalent device to detect the presence of a flame. The owner or operator shall:
    - (a) Properly maintain equipment used to continuously monitor the flare.
    - (b) Loading operations shall not begin until the flare has reached operating temperature. The facility shall record the operating temperature set point of the flare (i.e., interlock temperature).
    - (c) Record when the monitoring equipment is down for service or malfunctioning. The recordkeeping shall include:
      - (i) The length of time the monitoring equipment was malfunctioning or down for service and
      - (ii) The problem(s) with the monitoring equipment.
  - (2) The owner or operator shall continuously monitor the temperature of the flare during loading operations.

- K. The flare (CEYRD-L2) shall be enclosed or designed to ensure smokeless operation.
  - L. The flare (CEYRD-L2) shall be used whenever fuel grade ethanol is loaded out through this emission unit (EU YRD-L2).
  - M. The owner or operator shall inspect and maintain the control equipment (CEYRD-L2) described in this permit according to the manufacturer's specifications and instructions.
    - (1) The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment (CEYRD-L2) described in this permit. At a minimum, this log shall include:
      - (a) The date that any inspection and/or maintenance was performed on the control equipment (CEYRD-L2);
      - (b) Any issues identified during the inspection;
      - (c) Any issues addressed during the maintenance activities and the date each issue was resolved
- <sup>(1)</sup> Uncontrolled means the loadout process is not controlled by a flare.

Authority for Requirement: DNR Construction Permit 05-A-509-S3  
 567 IAC 23.1(2)"nn"  
 40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 20  
 Stack Opening, (inches, dia.): 48  
 Exhaust Flow Rate (scfm): 1,900  
 Exhaust Temperature (°F): 1,500  
 Discharge Style: Vertical Unobstructed  
 Authority for Requirement: DNR Construction Permit 05-A-509-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No   
*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: YRD-L3**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b>                         | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|---|----------------------------|
| EUYRD-L3             | Ethanol Rail Loadout             | Ethanol             | 500,000 gallons/day<br>(200 proof equivalent) | 05-A-510-S3                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no applicable emission limits for this emission unit at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility (plant number 23-01-006) shall be limited to producing 237.3 million gallons of ethanol (200 proof equivalent of fuel, beverage, and industrial grade) per rolling twelve (12) month period.
  - (1) The facility shall monthly record the amount of ethanol (200 proof equivalent) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent) produced for each month of operation.
  
- B. The facility (plant number 23-01-006) shall be limited to producing 54.8 million gallons, combined, of industrial and beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
  - (1) The facility shall monthly record the total amount of alcohol (200 proof equivalent of industrial and beverage) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent of industrial and beverage) produced for each month of operation.
  
- C. The facility (plant number 23-01-006) shall be limited to producing 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
  - (1) The facility shall monthly record the amount of gin (200 proof equivalent) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of gin (200 proof equivalent) produced for each month of operation.
  
- D. The facility (plant number 23-01-006) shall be limited to loading out, uncontrolled<sup>(1)</sup>, a maximum of 190 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period,

facility-wide.

- (1) The facility shall monthly record the amount of ethanol (200 proof equivalent) loaded out, uncontrolled, facility-wide.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent) loaded out, uncontrolled, facility-wide.
- E. The facility shall be limited to using natural gasoline as the denaturant.
- (1) The facility shall retain the SDS for the denaturant (natural gasoline).
  - (2) In emergency situations, the facility is allowed to use other denaturants within ASTM Specification D4806 – gasoline blendstocks or unleaded gasoline.
    - (c) The facility shall record the amount of alternative denaturant used during emergency operations.
    - (d) The facility shall record the justification (emergency) requiring alternative denaturant use.
- F. The facility (plant number 23-01-006) shall be limited to adding denaturant at an amount less than 2.50%, by volume, to the ethanol product loaded out.
- (1) The facility shall monthly record the amount of denaturant loaded out facility-wide.
  - (2) The facility shall monthly record the amount of ethanol product loaded out facility-wide.
  - (3) The facility shall monthly record and calculate the percentage, by volume, of denaturant loaded out facility-wide, by dividing the amount of denaturant loaded out by the amount of ethanol product loaded out.
- G. The facility (plant number 23-01-006) shall load all railcars to their maximum rated capacity when loading out ethanol (200 proof equivalent).
- (1) The facility shall monthly record the amount of ethanol (200 proof equivalent) loaded out through this emission point.
  - (2) The facility shall monthly calculate and record the maximum rated capacity of railcars loaded out through this emission point.
  - (3) As an alternative to calculating the maximum loadout capacity of the railcars, the facility shall utilize an automated loadout system designed to load railcars to their maximum rated storage capacity.
- H. The owner or operator shall follow all applicable standards of NSPS Subpart VV, 40 CFR §60.480 through §60.489.
- I. The owner or operator shall keep records as required in 40 CFR §60.486 and reports as required in 40 CFR §60.487.
- J. All loadout operations shall be completed using submerged fill or bottom fill.

<sup>(1)</sup> Uncontrolled means the loadout process is not controlled by a flare.

Authority for Requirement: DNR Construction Permit 05-A-510-S3  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Exhaust Flow Rate (scfm): Displacement  
Exhaust Temperature (°F): Ambient  
Authority for Requirement: DNR Construction Permit 05-A-510-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-L4, YRD-L5**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b>                        | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|---------------------|--|----------------------------|
| YRD-L4                | EUYRD-L4             | Ethanol Barge Loadout            | Ethanol             | 1,100,000 gallons/day (200 proof equivalent) | 05-A-511-S1                |
| YRD-F5                | EUYRD-F5             | Lower End Ethanol Truck Loadout  | Ethanol             | 800,000 gallons/day                          | 05-A-513-S1                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission units at this time.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility (plant number 23-01-006) shall be limited to producing 237.3 million gallons of ethanol (200 proof equivalent of fuel, beverage, and industrial grade) per rolling twelve (12) month period.
  - (1) The facility shall monthly record the amount of ethanol (200 proof equivalent) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent) produced for each month of operation.
  
- B. The facility (plant number 23-01-006) shall be limited to producing 54.8 million gallons, combined, of industrial and beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
  - (1) The facility shall monthly record the total amount of alcohol (200 proof equivalent of industrial and beverage) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent of industrial and beverage) produced for each month of operation.

## **Operational Limits & Reporting/Record keeping Requirements (continued)**

- C. The facility (plant number 23-01-006) shall be limited to producing 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
- (1) The facility shall monthly record the amount of gin (200 proof equivalent) produced.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of gin (200 proof equivalent) produced for each month of operation.
- D. The facility (plant number 23-01-006) shall be limited to loading out, uncontrolled<sup>(1)</sup>, a maximum of 190 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period, facility-wide.
- (1) The facility shall monthly record the amount of ethanol (200 proof equivalent) loaded out, uncontrolled, facility-wide.
  - (2) The facility shall monthly record and calculate the 12-month rolling total amount of ethanol (200 proof equivalent) loaded out, uncontrolled, facility-wide.
- E. The facility shall be limited to using natural gasoline as the denaturant.
- (1) The facility shall retain the SDS for the denaturant (natural gasoline).
  - (2) In emergency situations, the facility is allowed to use other denaturants within ASTM Specification D4806 – gasoline blendstocks or unleaded gasoline.
    - (a) The facility shall record the amount of alternative denaturant used during emergency operations.
    - (b) The facility shall record the justification (emergency) requiring alternative denaturant use.
- F. The facility (plant number 23-01-006) shall be limited to adding denaturant at an amount less than 2.50%, by volume, to the ethanol product loaded out.
- (1) The facility shall monthly record the amount of denaturant loaded out facility-wide.
  - (2) The facility shall monthly record the amount of ethanol product loaded out facility-wide.
  - (3) The facility shall monthly record and calculate the percentage, by volume, of denaturant loaded out facility-wide, by dividing the amount of denaturant loaded out by the amount of ethanol product loaded out.
- G. The owner or operator shall follow all applicable standards of NSPS Subpart VV, 40 CFR §60.480 through §60.489.
- H. The owner or operator shall keep records as required in 40 CFR §60.486 and reports as required in 40 CFR §60.487.
- I. All loadout operations shall be completed using submerged fill or bottom fill.

<sup>(1)</sup> Uncontrolled means the loadout process is not controlled by a flare.

Authority for Requirement: DNR Construction Permits 05-A-511-S1 & 05-A-513-S1  
567 IAC 23.1(2)"nn"  
40 CFR Part 60 Subpart VV

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Exhaust Flow Rate (scfm): Displacement

Exhaust Temperature (°F): Ambient

Authority for Requirement: DNR Construction Permits 05-A-511-S1 & 05-A-513-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: YRD-L6

### Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>             | <b>Raw Material</b> | <b>Rated Capacity</b>                      | <b>Construction Permit</b> |
|----------------------|--|---------------------|--|----------------------------|
| YRD-L6               | Lower End Ethanol Railcar Loadout – Beverage | Ethanol             | 175,000 gallons/day (200 proof equivalent) | 05-A-512                   |

### Applicable Requirements

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no applicable emission limits for this emission unit at this time.

#### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility (plant number 23-01-006) shall be limited to 237.3 million gallons of ethanol (200 proof equivalent) per rolling twelve (12) month period.
- B. The facility (plant number 23-01-006) shall be limited to 54.8 million gallons of beverage alcohol (200 proof equivalent) per rolling twelve (12) month period.
- C. The facility (plant number 23-01-006) shall be limited to 1.8 million gallons of gin (200 proof equivalent) per rolling twelve (12) month period.
- D. No more than 190 million gallons of ethanol (200 proof equivalent) shall be loaded from this emission unit per rolling twelve (12) month period.
- E. The owner or operator shall follow the applicable standards of Subpart VV, 40 CFR 60.480 through 60.489.
- F. Determine the annual amount of ethanol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- G. Determine the annual amount of beverage alcohol (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- H. Determine the annual amount of gin (200 proof equivalent) produced on a rolling-12-month basis for each month of operation.
- I. Determine the annual amount of ethanol (200 proof equivalent) loaded by this emission unit on a rolling-12-month basis for each month of operation.
- J. The owner or operator shall keep records as required in 40 CFR 60.486, and reports as required in 40 CFR 60.487.

Authority for Requirement: DNR Construction Permit 05-A-512  
567 IAC 23.1(2)"nn"  
40 CFR 60 Subpart VV

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Exhaust Flow Rate (scfm): 35

Exhaust Temperature (°F): 90

Discharge Style: No Stack

Authority for Requirement: DNR Construction Permit 05-A-512

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

### Elevator Process Equipment List

| <b>Emission Point Number</b> | <b>Emission Unit Number</b>  | <b>Emission Unit Description</b> | <b>DNR Construction Permit Number</b> |
|------------------------------|------------------------------|----------------------------------|---------------------------------------|
| 1-8                          | EU1-3                        | Grain Handling                   | 14-A-234-S3                           |
|                              | EU1-4                        | Grain Handling/Cleaning          |                                       |
|                              | EU1-9                        | Bucket Elevator                  |                                       |
| B-15                         | EU15-1                       | CR Hopper No. 2                  | 94-A-592-S3                           |
|                              | EU15-1R                      | CR Scale Drag Conveyor           |                                       |
|                              | EU15-2                       | CR Hopper No. 3                  |                                       |
|                              | EU15-2R                      | CR Jump Drag Conveyor            |                                       |
|                              | EU15-3                       | CR Rail Elevator                 |                                       |
|                              | EU15-4                       | R Low Bridge Belt No. 2          |                                       |
|                              | EU150-5                      | CR Silo Feed Drag Conveyor       |                                       |
|                              | EU150-6                      | CR Silo Discharge Belt Conveyor  |                                       |
|                              | EU150-7                      | CR Silo Elevator                 |                                       |
| EU150-8                      | CR High Bridge Belt Conveyor |                                  |                                       |
| 15-F1                        | EU15-F1                      | Truck Unloading Fugitives        | NA                                    |
| 15-F2                        | EU15-F2                      | Truck/ Rail Unloading Fugitives  | NA                                    |
| YRD-49                       | EUYRD-49                     | Grain Storage Tank               | 95-A-241-S3                           |
| YRD-50                       | EUYRD-50                     | Grain Storage Tank               | 16-A-437                              |
| 94-1                         | EU94-1                       | Corn Screenings Transfer Line    | 05-A-394                              |
| 94-2                         | EU94-2                       | Corn Screenings Storage Tank     | 05-A-395                              |
| 94-3                         | EU94-3                       | Rail Car Loading Conveyor        | 05-A-396                              |
| 150-1                        | EU150-1                      | #1 Corn Silo                     | 05-A-709-S1                           |
| 150-2                        | EU150-2                      | #2 Corn Silo                     | 05-A-710-S1                           |
| 150-3                        | EU150-3                      | #3 Corn Silo                     | 05-A-711-S1                           |

**Emission Point ID Number: 1-8**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU1-3                | Grain Handling*                  | Baghouse (CE1-8)         | Corn                | 84,500 bu/ hr total   | 14-A-234-S3                |
| EU1-4                | Grain Handling/Cleaning*         |                          | Corn                |                       |                            |
| EU1-9                | Bucket Elevator                  |                          | Corn                |                       |                            |

\* See Emission Point Characteristics section below for list of associated emission units

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 0%<sup>(1), (2)</sup>

Authority for Requirement: DNR Construction Permit 14-A-234-S3  
 40 CFR 60.302(c)(2)  
 40 CFR 60.302(b)(2)

<sup>(1)</sup> The opacity limit applies to the equipment associated with Grain Handling (E1-3): Corn Storage 1 Fill Conveyors #1 -#3.

<sup>(2)</sup> An exceedance of the indicator opacity of 0% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub> (all emissions)

Emission Limit(s): 2.27 lb/hr.

Authority for Requirement: DNR Construction Permit 14-A-234-S3

Pollutant: PM<sub>2.5</sub> (EU 1-9 only)

Emission Limit(s): 0.057 lb/hr.

Authority for Requirement: DNR Construction Permit 14-A-234-S3

Pollutant: PM<sub>10</sub> (all emissions)

Emission Limit(s): 2.78 lb/hr.

Authority for Requirement: DNR Construction Permit 14-A-234-S3

Pollutant: Particulate Matter (Federal)  
Emission Limit(s): 0.023 g/dscm  
Authority for Requirement: DNR Construction Permit 14-A-234-S3  
40 CFR 60.302 (b)(1)

Pollutant: Particulate Matter (State)  
Emission Limit(s): 2.78 lb/hr., 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 14-A-234-S3  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall record pressure drop of the baghouse (CE1-8) on a weekly basis.
- B. The owner or operator shall maintain a record of the baghouse (CE1-8) pressure drop.
- C. The owner or operator shall operate and maintain the control device (CE1-8) associated with Grain Handling (EU1-3) and Grain Handling/Cleaning (EU1-4) in accordance with manufacturer's specifications.
- D. The permittee shall keep records of all maintenance and repairs to the baghouse (CE1-8).

Authority for Requirement: DNR Construction Permit 14-A-234-S3

**New Source Performance Standards (NSPS):**

These emission units are subject to the NSPS 40 CFR Part 60 Subpart A – General Provisions as specified in §60.1 – 60.19, and 40 CFR Part 60 Subpart DD, New Source Performance Standards (NSPS) for Grain Elevators, as specified in § 60.300.

Authority for Requirement: DNR Construction Permit 94-A-592-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 132
- Stack Opening, (inches, dia.): 42
- Exhaust Flow Rate (scfm): 40,000
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 14-A-234-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

| <b>EU 1-3 Grain Handling Equipment</b> | <b>EU 1-4 Grain Handling/Cleaning Equipment</b> |
|--|---|
| Corn Storage 1 Fill Conveyor #1-#3     | Steep Leg Bucket Elevator                       |
| Corn Screening Conveying               | Cleaner Leg Bucket Elevator                     |
| Corn Cleaner Discharge Tank            | Riverside Drag                                  |
| Concrete Corn Tanks #1-#10             | Cross Over Drag                                 |
| #1 and #2 Steel Corn Tank              | Corn Cleaner Feed Tank #1 and #2                |

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

- Agency Approved Operation & Maintenance Plan Required?**      Yes  No
- Facility Maintained Operation & Maintenance Plan Required?**      Yes  No
- Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: B-15**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU15-1               | CR Hopper No. 2                  | Baghouse (CE 15-1)       | Corn                | 1,500 tons/hr.        | 94-A-592-S3                |
| EU15-1R              | CR Scale Drag Conveyor           | Baghouse (CE 15-3)       | Corn                | 50,000 bushels/hr.    |                            |
| EU15-2               | CR Hopper No. 3                  | Baghouse (CE 15-2)       | Corn                | 1,500 tons/hr.        |                            |
| EU15-2R              | CR Jump Drag Conveyor            | Baghouse (CE 15-3)       | Corn                | 50,000 bushels/hr.    |                            |
| EU15-3               | CR Rail Elevator                 |                          | Corn                | 50,000 bushels/hr.    |                            |
| EU15-4               | CR Low Bridge Belt No. 2         |                          | Corn                | 50,000 bushels/hr.    |                            |
| EU150-5              | CR Silo Feed Drag Conveyor       |                          | Corn                | 50,000 bushels/hr.    |                            |
| EU150-6              | CR Silo Discharge Belt Conveyor  |                          | Corn                | 30,000 bushels/hr.    |                            |
| EU150-7              | CR Silo Elevator                 |                          | Corn                | 30,000 bushels/hr.    |                            |
| EU150-8              | CR High Bridge Belt Conveyor     |                          | Corn                | 50,000 bushels/hr.    |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): Per NSPS Subpart DD, all affected facilities except a grain dryer are subject to the opacity standard of 0%. Any truck unloading station, railcar unloading station, or railcar loading station shall not discharge into the atmosphere any fugitives emissions which exhibits greater than 5 percent opacity.

Authority for Requirement: DNR Construction Permit 94-A-592-S3  
567 IAC 23.1(2)"ooo"

Pollutant: PM<sub>10</sub>

Emission Limit(s): 4.38 lb/hr

Authority for Requirement: DNR Construction Permit 94-A-592-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 4.38 lb/hr, 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-592-S3  
567 IAC 23.1(2)"ooo"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
2. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 94-A-592-S3

**New Source Performance Standards (NSPS):**

These emission units are subject to the NSPS 40 CFR Part 60 Subpart A – General Provisions as specified in §60.1 – 60.19, and 40 CFR Part 60 Subpart DD, New Source Performance Standards (NSPS) for Grain Elevators, as specified in § 60.300.

Authority for Requirement: DNR Construction Permit 94-A-592-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 130

Stack Opening, (inches, dia.): 60

Exhaust Flow Rate (scfm): 80,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-592-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 15-F1**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b>                |
|-----------------------|----------------------|----------------------------------|--------------------------|---------------------|--------------------------------------|
| 15-F1                 | EU15-F1              | Truck Unloading - Fugitives      | NA                       | Corn                | 50,000 bushels/hr.<br>(1,200 ton/hr) |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 15-F2**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|
| 15-F2                 | EU15-F2              | Truck/Rail Unloading – Fugitives | Corn                | 700 tons/hr           |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: YRD-49**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EUYRD-49             | Grain Storage Tank               | Corn                | 243,160 bushels       | 95-A-241-S3                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 95-A-241-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM

Emission Limit(s): 0.071 lb/hr.

Authority for Requirement: DNR Construction Permit 95-A-241-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.71 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 95-A-241-S3  
567 IAC 23.4(7)

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 115.3  
Stack Opening, (inches, dia.): 18  
Exhaust Flow Rate (scfm): 830  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Obstructed  
Authority for Requirement: DNR Construction Permit 95-A-241-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: YRD-50**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EUYRD-50             | Grain Storage Tank               | Corn                | 233,946 bushels       | 16-A-437                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 16-A-437  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.071 lb/hr.

Authority for Requirement: DNR Construction Permit 16-A-347

Pollutant: Particulate Matter

Emission Limit(s): 0.71 lb/hr., 0.1 gr/scf

Authority for Requirement: DNR Construction Permit 16-A-437  
567 IAC 23.4(7)

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 118.8

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 830

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit 16-A-437

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 94-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU94-1               | Corn Screenings Transfer Line    | Dust Collector (CE 94-1) | Corn Screenings     | 540 bushels/hr.       | 05-A-394                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-394  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.13 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-394

Pollutant: Particulate Matter

Emission Limit(s): 0.13 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-394  
567 IAC 23.4(7)

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 77  
Stack Opening, (inches, dia.): 14  
Exhaust Flow Rate (scfm): 1,500  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-394

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 94-2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU94-2               | Corn Screenings Storage Tank     | Dust Collector (CE94-2)  | Corn Screenings     | 448,000 lbs.          | 05-A-395                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-395  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.04 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-395

Pollutant: Particulate Matter

Emission Limit(s): 0.04 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-395  
567 IAC 23.4(7)

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 77  
Stack Opening, (inches, dia.): 6  
Exhaust Flow Rate (scfm): 450  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-395

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 94-3**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU94-3               | Rail Car Loading Conveyor        | Dust Collector (CE94-3)  | Corn Screenings     | 4,000 bushels/hr.     | 05-A-396                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-396  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.17 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-396

Pollutant: Particulate Matter

Emission Limit(s): 0.17 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-396  
567 IAC 23.4(7)

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 77  
Stack Opening, (inches, dia.): 14  
Exhaust Flow Rate (scfm): 2,000  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-396

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: 150-1, 150-2, 150-3

### Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU150-1              | #1 Corn Silo                     | Bin Vent (CE 150-1)      | Corn                | 320,600 bushels       | 05-A-709-S1                |
| EU150-2              | #2 Corn Silo                     | Bin Vent (CE 150-2)      | Corn                | 320,600 bushels       | 05-A-710-S1                |
| EU150-3              | #3 Corn Silo                     | Bin Vent (CE 150-3)      | Corn                | 320,600 bushels       | 05-A-711-S1                |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 05-A-709-S1, 05-A-710-S1, 05-A-711-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of "No Visible Emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.17 lb/hr.

Authority for Requirement: DNR Construction Permits 05-A-709-S1, 05-A-710-S1, 05-A-711-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 0.17 lb/hr.

Authority for Requirement: DNR Construction Permits 05-A-709-S1, 05-A-710-S1, 05-A-711-S1  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE 150-1, CE 150-2, CE 150-3) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 150-1, CE 150-2, CE 150-3).

Authority for Requirement: DNR Construction Permits 05-A-709-S1, 05-A-710, 05-A-711

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height (ft, from the ground)</b> | <b>Stack Opening (inches, dia.)</b> | <b>Exhaust Flow Rate (scfm)</b> | <b>Exhaust Temp. (°F)</b> | <b>Discharge Style</b> |
|-----------------------|---|-------------------------------------|---------------------------------|---------------------------|------------------------|
| EP 150-1              | 145.3                                     | 12                                  | 2,500                           | Ambient                   | Vertical Unobstructed  |
| EP 150-2              | 144.1                                     | 14.16                               | 3,481                           | Ambient                   | Vertical Unobstructed  |
| EP 150-3              | 144.1                                     | 14.16                               | 3,697                           | Ambient                   | Vertical Unobstructed  |

Authority for Requirement: DNR Construction Permits 05-A-709-S1, 05-A-710-S1, 05-A-711-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

### Feed Process Equipment List

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>              | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|---|---------------------------------------|
| 11-30                        | EU11-30                     | No. 1 Pellet Cooler                           | 94-A-422-S4                           |
| 11-31                        | EU11-31                     | No. 2 Pellet Cooler                           | 11-A-441-S2                           |
| 11-32                        | EU11-32                     | No. 3 Pellet Cooler                           | 11-A-442-S2                           |
| 11-33                        | EU11-33                     | No. 4 Pellet Cooler                           | 11-A-443-S2                           |
| 38-15                        | EU38-15                     | Feed Silo No. 1                               | 72-A-189-S1                           |
| 38-16                        | EU38-16                     | Feed Silo No. 2                               | 03-A-1271-S1                          |
| 38-17b                       | EU38-17b                    | Gluten Meal Silo 3                            | 17-A-301                              |
| 38-18                        | EU38-18                     | Gluten Silo No. 4                             | 16-A-434                              |
| 38-19b                       | EU38-19b                    | Germ Meal Silo No. 5                          | 17-A-003-S1                           |
| 38-63                        | EU38-1                      | Pellet Loadout Rail                           | 94-A-303-S4                           |
|                              | EU38-2                      | Pellet and Gluten Loadout Truck               |                                       |
|                              | EU38-3                      | Gluten Loadout Rail                           |                                       |
|                              | EU38-20                     | Germ Meal Loadout                             |                                       |
| 38-F1                        | EU38-F1                     | Gluten Loadout Fugitive                       | NA                                    |
| 38-F2                        | EU38-F2                     | Feed Loadout Fugitive                         | NA                                    |
| 57-16                        | EU57-16                     | Feed Barge Loadout                            | 86-A-022                              |
| 57-F1                        | EU57-F1                     | Pellet Barge Loadout                          | NA                                    |
| 57-F2                        | EU57-F2                     | Pellet Truck Loadout                          | NA                                    |
| 57-F3                        | EU57-F3                     | Germ Rail and Truck Loadout Fugitives         | NA                                    |
| 216-01                       | EU216-01A                   | Germ Screens 1 to 6                           | 06-A-035-S5                           |
|                              | EU216-01B                   | Germ Presses 1-6                              |                                       |
|                              | EU216-01C1                  | No. 1 Steam Tube Germ Dryer                   |                                       |
|                              | EU216-01C2                  | No. 2 Steam Tube Germ Dryer                   |                                       |
|                              | EU216-01C3                  | No. 3 Steam Tube Germ Dryer                   |                                       |
|                              | EU216-01C4                  | No. 4 Steam Tube Germ Dryer                   |                                       |
|                              | EU216-01C5                  | No. 5 Steam Tube Germ Dryer                   |                                       |
|                              | EU216-01D                   | Germ Filtrate Tank                            |                                       |
| EU216-01E                    | Dewatered Germ Conveyor     |   |                                       |
| 216-02                       | EU216-02                    | Fluid Bed Germ Dryer                          | 08-A-440-S2                           |
| 216-03                       | EU216-03                    | Fluid Bed Germ Cooler                         | 08-A-441-S1                           |
| 236-01                       | EU236-01                    | Fiber Dryer #1                                | 06-A-037-S4                           |
| 236-02                       | EU236-02                    | Fiber Dryer #2                                | 06-A-038-S4                           |
| 236-03                       | EU236-03                    | Fiber Dryer #3                                | 06-A-039-S4                           |
| 236-04                       | EU236-04                    | Fiber Dryer #4                                | 06-A-040-S4                           |
| 236-05                       | EU236-05                    | Gluten Flash Dryer #1                         | 06-A-041-S3                           |
| 236-06                       | EU236-06                    | Gluten Flash Dryer #2                         | 06-A-042-S3                           |
| 236-07                       | EU236-07A01 to -07A09       | Fiber Press Screens 01-09                     | 06-A-043-S5                           |
|                              | EU236-07A10 to -07A18       | Fiber Press 01-09                             |                                       |
|                              | EU236-07A25 to -07A30       | Fiber Centrifuge 1-6                          |                                       |
|                              | EU236-07A31 to -07A32       | Dewatered Fiber Conveyor 1-2                  |                                       |
|                              | EU236-07A36 to -07A37       | Fiber Dryer Feed Conveyor 1 & Conveyor 2 Drag |                                       |
|                              | EU236-07A42 to -07A43       | Combined Fiber Tank 1-2                       |                                       |
| EU236-07A44                  | Coarse Fiber Screen 1-4     |   |                                       |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>                           | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|--|---------------------------------------|
|                              | EU236-07A45 to -07A46       | Fiber WHE CIP Tank & Fine Fiber Wash Stage 1 Tank          |                                       |
|                              | EU236-07A47                 | Fine Fiber Wash Stage 1 Screen 1-5                         |                                       |
|                              | EU236-07A48                 | Fine Fiber Wash Stage 2 Tank                               |                                       |
|                              | EU236-07A49                 | Fine Fiber Wash Stage 2 Screen 1-3                         |                                       |
|                              | EU236-07A50                 | Fine Fiber Wash Stage 3 Tank                               |                                       |
|                              | EU236-07A51                 | Fine Fiber Wash Stage 3 Screen 1-2                         |                                       |
|                              | EU236-07A52 to -A0753       | Fiber Centrifuge Presses Feed & Fiber Press Filtrate Tanks |                                       |
|                              | EU236-07A81 to -07A84       | Fiber Press Screens 10-13                                  |                                       |
|                              | EU236-07A85 to -07A88       | Fiber Press 10-13  |                                       |
|                              | EU236-07A89 to -07A92       | Fiber Dryer Dosing Bin 1-4                                 |                                       |
|                              | EU236-07A93 to -07A98       | Misc Tanks   |                                       |
|                              | EU236-07B01                 | Heavy Gluten Tank  |                                       |
|                              | EU236-07B03                 | Gluten Filter Spraybar Tank                                |                                       |
|                              | EU236-07B14 to -07B17       | Gluten Dryer Mixers 1-2                                    |                                       |
|                              | EU236-07B24 to -07B27       | Gluten Dryer Tanks   |                                       |
|                              | EU236-07B28                 | Gluten Product Conveyor No. 1                              |                                       |
|                              | EU236-07C01 to -07C02       | Heavy Steepwater & Steepwater Swing Tanks                  |                                       |
|                              | EU236-07C3                  | Light Steepwater Tank                                      |                                       |
|                              | EU236-07C04                 | Vapor Condensate Tank                                      |                                       |
|                              | EU236-07D                   | Germ Meal to Fiber Reclaim Conveyor                        |                                       |
| 236-08                       | EU236-08A                   | Gluten Filter 1, 1   | 06-A-044-S3                           |
|                              | EU236-08B                   | Gluten Filter 1, 2   |                                       |
|                              | EU236-08C                   | Gluten Filter 1, 3   |                                       |
|                              | EU236-08D                   | Gluten Filter 2, 1   |                                       |
|                              | EU236-08E                   | Gluten Filter 2, 2   |                                       |
|                              | EU236-08F                   | Gluten Filter 2, 3   |                                       |
|                              | EU236-08G                   | Gluten Filter 3, 1   |                                       |
|                              | EU236-08H                   | Gluten Filter 3, 2   |                                       |
|                              | EU236-08I                   | Gluten Filter 3, 3   |                                       |
|                              | EU236-08J                   | Gluten Filter 4, 1   |                                       |
|                              | EU236-08K                   | Gluten Filter 4, 2   |                                       |
|                              | EU236-08L                   | Gluten Filter 4, 3   |                                       |
|                              | EU236-08M                   | Gluten Filter 5, 1   |                                       |
|                              | EU236-08N                   | Gluten Filter 5, 2   |                                       |
|                              | EU236-08O                   | Gluten Filter 5, 3   |                                       |
|                              | EU236-08P                   | Gluten Filter 6, 1   |                                       |
|                              | EU236-08Q                   | Gluten Filter 6, 2   |                                       |
|                              | EU236-08R                   | Gluten Filter 6, 3   |                                       |
|                              | EU236-08S                   | Gluten Filter 7, 1   |                                       |
|                              | EU236-08T                   | Gluten Filter 7, 2   |                                       |
| EU236-08U                    | Gluten Filter 7, 3          |  |                                       |
| 236-10                       | EU236-10A                   | Gluten Filter Vacuum Pump 1                                | 06-A-034-S3                           |
|                              | EU236-10B                   | Gluten Filter Vacuum Pump 2                                |                                       |
|                              | EU236-10C                   | Gluten Filter Vacuum Pump 3                                |                                       |
|                              | EU236-10D                   | Gluten Filter Vacuum Pump 4                                |                                       |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>          | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|---|---------------------------------------|
|                              | EU236-10E                   | Gluten Filter Vacuum Pump 5               |                                       |
|                              | EU236-10F                   | Gluten Filter Vacuum Pump 6               |                                       |
|                              | EU236-10G                   | Gluten Filter Vacuum Pump 7               |                                       |
|                              | EU236-10H                   | Gluten Filter Vacuum Pump 8               |                                       |
| 236-11                       | EU236-11                    | Gluten Meal Transfer                      | 06-A-048-S3                           |
| 237-01                       | EU237-01A                   | Grinder 1                                 | 06-A-046-S5                           |
|                              | EU237-01B                   | Grinder 2                                 |                                       |
|                              | EU237-01C                   | Grinder 3                                 |                                       |
|                              | EU237-01D                   | Grinder 4                                 |                                       |
|                              | EU237-01F                   | 1 <sup>st</sup> Pass Sifter Feed Conveyor |                                       |
|                              | EU237-01G                   | 2 <sup>nd</sup> Pass Sifter Feed Conveyor |                                       |
|                              | EU237-01H                   | Sifter Overs Conveyor                     |                                       |
|                              | EU237-01I                   | Sifter Fines Conveyor                     |                                       |
|                              | EU237-01J                   | Feed Corn Germ Meal Mixer                 |                                       |
| EU237-01K                    | Grinder Discharge Conveyor  |   |                                       |

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**Emission Point ID Number: 11-30**

Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment | Raw Material | Rated Capacity | Construction Permit |
|---------------|---------------------------|-------------------|--------------|----------------|---------------------|
| EU11-30       | No. 1 Pellet Cooler       | CE11-30: Baghouse | Feed         | 30 tons/hr.    | 94-A-422-S4         |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-422-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.38 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-422-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.38 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-422-S4  
567 IAC 23.4(7)

Pollutant: VOC's

Emission Limit(s): 5.32 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-422-S4

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall maintain and operate the control equipment in accordance to manufacturer's specifications (with inspections occurring at a minimum of once per year).
2. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
  - A. The date and time any inspection and/or maintenance was performed on the control

- equipment;
- B. Any issues identified during inspection;
- C. Any issues addressed during the maintenance activities; and
- D. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 94-A-422-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 102.9

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 16,600

Exhaust Temperature (°F): 130

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 94-A-422-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 11-31, 11-32 & 11-33**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU11-31              | No. 2 Pellet Cooler              | CE11-31: Baghouse        | Feed                | 50 tons/hr.           | 11-A-441-S2                |
| EU11-32              | No. 3 Pellet Cooler              | CE11-32: Baghouse        | Feed                | 50 tons/hr.           | 11-A-442-S2                |
| EU11-33              | No. 4 Pellet Cooler              | CE11-33: Baghouse        | Feed                | 50 tons/hr.           | 11-A-443-S2                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 11-A-441-S2, 11-A-442-S2,  
11-A-443-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.40 lb/hr.

Authority for Requirement: DNR Construction Permits 11-A-441-S2, 11-A-442-S2,  
11-A-443-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.40 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 11-A-441-S2, 11-A-442-S2,  
11-A-443-S2  
567 IAC 23.4(7)

Pollutant: VOC's

Emission Limit(s): 8.06 lb/hr.

Authority for Requirement: DNR Construction Permits 11-A-441-S2, 11-A-442-S2,  
11-A-443-S2

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall maintain and operate the control equipment in accordance to manufacturer’s specifications (with inspections occurring at a minimum of once per year).
2. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but is not limited to:
  - A. The date and time any inspection and/or maintenance was performed on the control equipment;
  - B. Any issues identified during inspection;
  - C. Any issues addressed during the maintenance activities; and
  - D. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 11-A-441-S2, 11-A-442-S2, 11-A-443-S2

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 131, 130.9 (11-33 only)

Stack Opening, (inches, dia.): 40

Exhaust Flow Rate (scfm): 25,150

Exhaust Temperature (°F): 130

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permits 11-A-441-S2, 11-A-442-S2, 11-A-443-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

*Required for CE11-31, CE11-32, & CE11-33. (See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 38-15 & 38-16

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description | Control Equipment    | Raw Material | Rated Capacity         | Construction Permit |
|----------------|---------------|---------------------------|----------------------|--------------|------------------------|---------------------|
| 38-15          | EU38-15       | Feed Silo No. 1           | CE38-15:<br>Baghouse | Feed         | 18,530 ft <sup>3</sup> | 72-A-189-S1         |
| 38-16          | EU38-16       | Feed Silo No. 2           | CE38-16:<br>Baghouse | Feed         | 18,530 ft <sup>3</sup> | 03-A-1271-S1        |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 72-A-189-S1 & 03-A-1271-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.087 lb/hr.

Authority for Requirement: DNR Construction Permit 72-A-189-S1 & 03-A-1271-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 72-A-189-S1 & 03-A-1271-S1  
567 IAC 23.4(7)

#### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE38-15 & CE38-16) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE38-15 & CE38-16).

Authority for Requirement: DNR Construction Permit 72-A-189-S1 & 03-A-1271-S1

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b>                | <b>38-15</b> | <b>38-16</b> |
|--------------------------------------|--------------|--------------|
| Stack Height, (ft, from the ground): | 78.4         | 79.5         |
| Stack Opening, (inches, dia.):       | 10           | 10           |
| Exhaust Flow Rate (scfm):            | 1,000        | 1,000        |
| Exhaust Temperature (°F):            | Ambient      | Ambient      |
| Discharge Style: Horizontal          | Horizontal   | Horizontal   |
| Authority for Requirement            | 72-A-189-S1  | 03-A-1271-S1 |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Numbers: 38-17b**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU38-17b             | Gluten Meal Silo 3               | CE38-17b:<br>Baghouse    | Corn Gluten Meal    | 28.83 tons/hr.        | 17-A-301                   |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 17-A-301  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 17-A-301  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall inspect the control equipment in accordance with the Facility Operation and Maintenance Plan.
- B. The owner or operator shall maintain records of the inspections as well as any maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permit 17-A-301

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 79.8
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): 1,850
- Exhaust Temperature (°F): 100
- Discharge Style: Vertical unobstructed
- Authority for Requirement: DNR Construction Permits 17-A-301

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

- Agency Approved Operation & Maintenance Plan Required?**                      Yes  No
- Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No
- Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 38-18

### Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment             | Raw Material     | Rated Capacity | Construction Permit |
|---------------|---------------------------|-------------------------------|------------------|----------------|---------------------|
| EU38-18       | Gluten Silo No. 4         | CE38-18: Pulse Jet Bin Filter | Corn Gluten Meal | 28.83 tons/hr. | 16-A-434            |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 16-A-434  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.40 lb/hr.

Authority for Requirement: DNR Construction Permit 16-A-434

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 16-A-434  
567 IAC 23.4(7)

#### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permit 16-A-434

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 79.8

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,848

Exhaust Temperature (°F): 100

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permits 16-A-434

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 38-19b

### Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment                  | Raw Material     | Rated Capacity | Construction Permit |
|---------------|---------------------------|------------------------------------|------------------|----------------|---------------------|
| EU38-19b      | Germ Meal Silo No. 5      | CE38-19b: Pulse Jet Dust Collector | Corn Gluten Meal | 1,100 tons/day | 17-A-300-S1         |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 17-A-300-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.29 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 17-A-300-S1  
567 IAC 23.4(7)

#### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall develop an operating and maintenance plan for the Pulse Jet Dust Collector (CE38-19b) including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

(1) The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the Pulse Jet Dust Collector (CE38-19b).

Authority for Requirement: DNR Construction Permit 17-A-300-S1

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 80
- Stack Opening, (inches, dia.): 16
- Exhaust Flow Rate (scfm): 3,345
- Exhaust Temperature (°F): 250
- Discharge Style: Vertical unobstructed
- Authority for Requirement: DNR Construction Permits 17-A-300-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No   
*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 38-63**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b>    | <b>Rated Capacity</b>                            | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|------------------------|--|----------------------------|
| EU38-1               | Pellet Loadout Rail              | CE38-63:<br>Baghouse     | Pellets                | 160 tons/hr. Pellets                             | 94-A-303-S4                |
| EU38-2               | Pellet and Gluten Loadout Truck  |                          | Pellets<br>Corn Gluten | 160 tons/hr. Pellets<br>or<br>80 tons/hr. Gluten |                            |
| EU38-3               | Gluten Loadout Rail              |                          | Corn Gluten            | 100 tons/hr. Gluten                              |                            |
| EU38-20              | Germ Meal Loadout                |                          | Corn Germ              | 150 tons/hr.                                     |                            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-303-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.54 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-303-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.54 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-303-S4  
567 IAC 23.4(7)

Pollutant: VOC's

Emission Limit(s): 0.41 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-303-S4

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE 38-63) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 38-63).

Authority for Requirement: DNR Construction Permit 94-A-303-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 93.7

Stack Opening, (inches, dia.): 28

Exhaust Flow Rate (scfm): 18,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 94-A-303-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant – PM

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 60, Appendix A, Method 5  
40 CFR 51 Appendix M Method 202

Authority for Requirement - 567 IAC 22.108(3)

Pollutant –PM<sub>10</sub>

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

*The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No   
*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 38-F1 & 38-F2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|----------------------|----------------------------------|---------------------|-----------------------|
| EU38-F1              | Gluten Loadout Fugitives         | Feed/Gluten Meal    | 160 tons/hr.          |
| EU38-F2              | Feed Loudout Fugitives           | Feed/Gluten Meal    | 160 tons/hr.          |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 57-16**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU57-16              | Barge Pellet Silo 1 and 2        | CE57-16: Baghouse        | Gluten Feed         | 200 tons/hr.          | 86-A-022                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/dscf

Authority for Requirement: DNR Construction Permit 86-A-022

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No   
*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Numbers: 57-F1, 57-F2, 57-F3**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b>      | <b>Raw Material</b> | <b>Rated Capacity</b> |
|-----------------------|----------------------|---------------------------------------|---------------------|-----------------------|
| 57-F1                 | EU57-F1              | Pellet Barge Loadout                  | Pellets             | NA                    |
| 57-F2                 | EU57-F2              | Pellet Truck Loadout                  | Pellets             | NA                    |
| 57-F3                 | EU57-F3              | Germ Rail and Truck Loadout Fugitives | Pellets             | NA                    |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 216-01**

Associated Equipment

| Emission Unit | Emission Unit Description   | Control Equipment                     | Raw Material | Rated Capacity           | Construction Permit |
|---------------|-----------------------------|---------------------------------------|--------------|--------------------------|---------------------|
| EU216-01A     | Germ Screens 1 to 6         | CE216-01:<br>SO <sub>2</sub> Scrubber | Germ         | 115,625 lb/hr.<br>(each) | 06-A-035-S5         |
| EU216-01B     | Germ Presses 1 to 6         |                                       | Germ         | 57,813 lb/hr.<br>(each)  |                     |
| EU216-01C1    | No. 1 Steam Tube Germ Dryer |                                       | Germ         | 32,000 lb/hr.            |                     |
| EU216-01C2    | No. 2 Steam Tube Germ Dryer |                                       | Germ         | 32,000 lb/hr.            |                     |
| EU216-01C3    | No. 3 Steam Tube Germ Dryer |                                       | Germ         | 32,000 lb/hr.            |                     |
| EU216-01C4    | No. 4 Steam Tube Germ Dryer |                                       | Germ         | 32,000 lb/hr.            |                     |
| EU216-01C5    | No. 5 Steam Tube Germ Dryer |                                       | Germ         | 32,000 lb/hr.            |                     |
| EU216-01D     | Germ Filtrate Tank          |                                       | Germ         | 472,000 lb/hr.           |                     |
| EU216-01E     | Dewatered Germ Conveyor     |                                       | Germ         | 360,000 lb/hr.           |                     |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-035-S5  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.35 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-035-S5

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 4.14 lb/hr., 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 06-A-035-S5  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 2.0 lb/hr., 500 ppmv and 90% control or 20 ppmv<sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-035-S5  
567 IAC 23.3(3)

<sup>(2)</sup> Limit of 90% control or 20 ppm<sub>v</sub> required on the emission from the five (5) Vetter Dryers only per the consent decrees entered into between the United States and ADM [Civil Action 03-2066, United States District Court for the Central District of Illinois (August 21, 2003)].

Pollutant: VOC's  
Emission Limit(s): 22.0 lb/hr.  
Authority for Requirement: DNR Construction Permit 06-A-035-S5

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculate and record 12-month rolling totals.
2. The total SO<sub>2</sub> Scrubber, CE216-01, scrubbant flowrate shall be maintained at or above 600 gallons per minute.
  - A. The owner or operator shall properly operate and maintain equipment to continuously monitor the SO<sub>2</sub> Scrubber (CE 216-01), scrubbant flowrate. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall maintain a continuous record of the scrubbant flowrate, in gallons per minute. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
3. The SO<sub>2</sub> Scrubber, CE216-01, scrubbant pH shall be maintained at or above 7.5, measured in standard units.
  - A. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant pH of the SO<sub>2</sub> Scrubber (CE 216-01). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall collect and record the pH of the scrubbant, in standard units, on a daily basis. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
4. The owner or operator shall maintain the control equipment and monitoring devices according to manufacturer's specifications and maintenance schedule or per written facility specific operation

and maintenance plan.

- A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 06-A-035-S5

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 129.7

Stack Opening, (inches, dia.): 60

Exhaust Flow Rate (scfm): 34,400

Exhaust Temperature (°F): 175

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-035-S5

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant – Particulate Matter

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 60, Appendix A, Method 5  
40 CFR 51 Appendix M Method 202

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM10

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 51, Appendix M, 201A with 202

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – VOC

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 63, Appendix A, Method 320 or  
40 CFR 60, Appendix A, Method 18

Authority for Requirement - 567 IAC 22.108(3)

**Agency Approved Operation & Maintenance Plan Required?**

Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**

Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 216-02**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU216-02             | Fluid Bed Germ Dryer             | CE216-02:<br>Scrubber    | Germ                | 100,000 lbs/hr.       | 08-A-440-S2                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 08-A-440-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.26 lb/hr.

Authority for Requirement: DNR Construction Permit 08-A-440-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 3.98 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 08-A-440-S2  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.0 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 08-A-440-S2  
567 IAC 23.3(3)

Pollutant: VOC's

Emission Limit(s): 7.41 lb/hr.

Authority for Requirement: DNR Construction Permit 08-A-440-S2

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 21-01-006, in bushels. Calculate and record 12-month rolling totals.
2. The 3-Stage Spray Tower Scrubber (CE 216-02) total scrubbant flowrate shall be maintained at or above 660 gallons per minute.
  - A. The owner or operator shall properly operate and maintain equipment to continuously monitor the 3-Stage Spray Tower Scrubber (CE 216-02), scrubbant flowrate. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall maintain a continuous record of the 3-Stage Spray Tower Scrubber (CE 216-02), scrubbant flowrate, in gallons per minute. This requirement shall not apply on the days that the equipment that the scrubber controls is not in operation.
3. The 3-Stage Spray Tower Scrubber (CE 216-02) scrubbant pH shall be maintained at or above 6.0, measured in standard units.
  - A. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant pH of the 3-Stage Spray Tower Scrubber (CE 216-02). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall collect and record the pH of the scrubbant in the 3-Stage Spray Tower Scrubber (CE 216-02), in standard units, on a daily basis. This requirement shall not apply on the days that the equipment that the scrubber control is not in operation.
4. All control equipment and monitoring devices shall be maintained according to the manufacturer's specifications.
  - A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 08-A-440-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 126.9
- Stack Opening, (inches, dia.): 54
- Exhaust Flow Rate (acfm): 21,500
- Exhaust Temperature (°F): 190
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 08-A-440-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

- Pollutant - VOC
- Stack Test to be Completed by (date) – 9/21/2025
- Test Method - 40 CFR 63, Appendix A, Method 320 or  
40 CFR 60, Appendix A, Method 18
- Authority for Requirement - 567 IAC 22.108(3)

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*The conditions listed above meet the requirements of a CAM plan. An additional CAM plan is not required.*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 216-03**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU216-03             | Fluid Bed Germ Cooler            | CE216-03: Dust Collector | Germ                | 70,000 lb/hr.         | 08-A-441-S1                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 08-A-441-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.34 lb/hr.

Authority for Requirement: DNR Construction Permit 08-A-441-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.29 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 08-A-441-S1  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.9 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 08-A-441-S1  
567 IAC 23.3(3)

Pollutant: VOC's

Emission Limit(s): 2.29 lb/hr.

Authority for Requirement: DNR Construction Permit 08-A-441-S1

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculated and record 12-month rolling totals.
- 2. The owner or operator shall maintain the control equipment according to manufacturer’s specifications and maintenance schedule or per written facility specific operation and maintenance plan.
  - A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 08-A-441-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 87.9

Stack Opening, (inches, dia.): 52

Exhaust Flow Rate (scfm): 50,000

Exhaust Temperature (°F): 170

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 08-A-441-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 236-01, 236-02, 236-03, 236-04**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>        | <b>Control Equipment</b>           | <b>Raw Material</b>                | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|---|------------------------------------|------------------------------------|-----------------------|----------------------------|
| EU236-01             | Fiber Dryer #1 with Waste Heat Recovery | CE236-01: SO <sub>2</sub> Scrubber | Gluten, Corn Germ Meal Steepwater/ | 210,000 lb/hr.        | 06-A-037-S4                |
|                      |   |                                    | Natural Gas                        | 75 MMBtu/hr.          |                            |
| EU236-02             | Fiber Dryer #2 with Waste Heat Recovery | CE236-02: SO <sub>2</sub> Scrubber | Gluten, Corn Germ Meal Steepwater/ | 210,000 lb/hr.        | 06-A-038-S4                |
|                      |   |                                    | Natural Gas                        | 75 MMBtu/hr.          |                            |
| EU 236-03            | Fiber Dryer #3 with Waste Heat Recovery | CE236-03: SO <sub>2</sub> Scrubber | Gluten, Corn Germ Meal Steepwater/ | 210,000 lb/hr.        | 06-A-039-S4                |
|                      |   |                                    | Natural Gas                        | 75 MMBtu/hr.          |                            |
| EU 236-04            | Fiber Dryer #4 with Waste Heat Recovery | CE236-04: SO <sub>2</sub> Scrubber | Gluten, Corn Germ Meal Steepwater/ | 210,000 lb/hr.        | 06-A-040-S4                |
|                      |   |                                    | Natural Gas                        | 75 MMBtu/hr.          |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits listed in table above  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 3.40 lb/hr.

Authority for Requirement: DNR Construction Permits listed in table above

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 6.35 lb/hr., 0.1 gr/dscf, 0.6 lb/MMBtu  
Authority for Requirement: DNR Construction Permits listed in table above  
567 IAC 23.4(7)  
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 3.13 lb/hr., 500 ppmv  
Authority for Requirement: DNR Construction Permits listed in table above  
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 9.00 lb/hr.  
Authority for Requirement: DNR Construction Permits listed in table above

Pollutant: VOC's  
Emission Limit(s): 1.5 lb/hr.  
Authority for Requirement: DNR Construction Permits listed in table above

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 15.10 lb/hr.  
Authority for Requirement: DNR Construction Permits listed in table above

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculate and record 12-month rolling totals.
2. The owner or operator shall operate and maintain the Fiber Dryers, EU 236-01, EU 236-02, EU 236-03, and EU 236-04 according to the provisions in 40 CFR §63.6(e).
  - A. The owner or operator shall develop and implement a written startup, shutdown and malfunction plans (SSMP) for the Fiber Dryers, EU 236-01, EU 236-02, EU 236-03, and EU 236-04, according to the provisions in 40 CFR §63.6(e).
3. Each Fiber Dryer SO<sub>2</sub> scrubber, CE 236-01, CE 236-02, CE236-03, and CE236-04, total scrubbant flowrate shall be maintained at or above 540 gallons per minute.
  - A. The owner or operator shall properly operate and maintain equipment to continuously monitor the scrubbant flowrate. The monitoring devices and any recorders shall be installed, calibrate, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall maintain a continuous record of the scrubbant flowrate, in gallons per minute. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.

4. Each Fiber Dryer SO<sub>2</sub> scrubber, CE 236-01, CE 236-02, CE236-03, and CE236-04, scrubbant pH shall be maintained at or above 9.4, in standard units.
  - A. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant pH. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall collect and record the pH of the scrubbant, in standard units, on a daily basis. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
5. Fiber Dryers, EU 236-01, EU 236-02, EU 236-03, and EU 236-04 combustion chamber shall maintain a temperature (3-hour average), measured at the exit of the combustion chamber, of 1,500 degrees Fahrenheit or greater.
  - A. The owner or operator shall properly operate and maintain equipment to monitor the combustion chamber temperature. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall keep hourly records of the operating temperature of the dryer's combustion chamber and record all periods (during actual operations) where the 3-hour average temperature is below 1,500 degrees Fahrenheit.
6. The owner or operator shall follow the reporting requirements as specified by the applicable federal and/or state regulation.
  - A. Retain a certified statement signed by the owner or operator of the affected source that the records of fuel supplier certifications represent all of the fuel combusted during the reporting period.
  - B. The owner or operator shall maintain records of monthly fuel use by each dryer, including the type of fuel, amount, and the reduced recordkeeping requirements for NSPS Subpart Dc.
  - C. Per the reduced recordkeeping for NSPS Subpart Dc the facility shall provide a report of excess emission (or lack thereof) according to 40 CFR §60.48c(c) on an annual basis when burning only natural gas. The facility is also required to notify the DNR field office of excess emissions within 8 hours and submit a written report within 7 days.
7. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permits listed in table above  
 40 CFR 60 Subpart Dc  
 567 IAC 23.1(2)"III"

NESHAP:

These emission units are subject to 40 CFR 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.  
 Authority for Requirement: 40 CFR 63 Subpart DDDDD

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height, (ft, from the ground)</b> | <b>Stack Opening, (inches, dia.)</b> | <b>Exhaust Flow Rate (scfm)</b> | <b>Exhaust Temperature (°F)</b> | <b>Discharge Style</b> | <b>Construction Permit</b> |
|-----------------------|--|--------------------------------------|---------------------------------|---------------------------------|------------------------|----------------------------|
| 236-01                | 203.3                                      | 55                                   | 29,200 – 46,000*                | 338                             | Vertical Unobstructed  | 06-A-037-S4                |
| 236-02                | 203.2                                      | 55                                   |                                 | 338                             |                        | 06-A-038-S4                |
| 236-03                | 203.3                                      | 55                                   |                                 | 338                             |                        | 06-A-039-S4                |
| 236-04                | 203.7                                      | 55                                   |                                 | 338                             |                        | 06-A-040-S4                |

\* Flowrates will vary depending on whether or not heat recovery is utilized.

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant – SO<sub>2</sub>\*

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 60, Appendix A, Method 6C

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – VOC\*

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 63, Appendix A, Method 320 or

40 CFR 60, Appendix A, Method 18

Authority for Requirement - 567 IAC 22.108(3)

\* The facility may choose to test one emission point to demonstrate compliance for all 4 emission points. If the tested emission point does not demonstrate compliance, all 4 points will be considered out of compliance.

*The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**

Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**

Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 236-05, 236-06**

Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description                              | Control Equipment                  | Raw Material       | Rated Capacity  | Construction Permit |
|----------------|---------------|--|------------------------------------|--------------------|-----------------|---------------------|
| 236-05         | EU236-05      | Gluten Flash Dryer #1 with Waste Heat Recovery         | CE236-05: SO <sub>2</sub> Scrubber | Gluten, Steepwater | 210,000 lbs/hr. | 06-A-041-S3         |
|                | EU236-05A     | Gluten Dryer 1 Flash Conveyor/Flash Scrubber Condenser |                                    | Gluten             | 65 MMBtu/hr.    |                     |
| 236-06         | EU236-06      | Gluten Flash Dryer #2 with Waste Heat Recovery         | CE236-06: SO <sub>2</sub> Scrubber | Gluten, Steepwater | 210,000 lbs/hr. | 06-A-042-S3         |
|                | EU236-06A     | Gluten Dryer 2 Flash Conveyor/Flash Scrubber Condenser |                                    | Gluten             | 65 MMBtu/hr.    |                     |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.48 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.48 lb/hr., 0.1 gr/dscf, 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3  
567 IAC 23.4(7), 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.40 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3  
567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 3.60 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3

Pollutant: VOC's

Emission Limit(s): 1.50 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 4.94 lb/hr., 400 ppm<sub>v</sub><sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3

<sup>(2)</sup> On a dry basis corrected to 3% oxygen

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculate and record 12-month rolling totals.
2. Each Gluten Flash Dryer SO<sub>2</sub> scrubbers, CE 236-05 and CE 236-06, total scrubbant flowrate shall be maintained at or above 195 gallons per minute.
  - A. The owner or operator shall properly operate and maintain equipment to continuously monitor the scrubbant flowrate. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall maintain a continuous record of the scrubbant flowrate, in gallons per minute. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
3. Each Gluten Flash Dryer SO<sub>2</sub> scrubbers, CE 236-05 and CE 236-06, scrubbant pH shall be maintained at or above 8.8, in standard units.
  - A. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant pH. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and

maintenance plan.

- B. The owner or operator shall collect and record the pH of the scrubbant, in standard units, on a daily basis. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
  4. Each Gluten Flash Dryer's combustion chamber shall maintain a temperature (3-hour average), measured at the exit of the combustion chamber, of 1,050 degrees Fahrenheit or greater.
    - A. The owner or operator shall properly operate and maintain equipment to monitor the combustion chamber temperature. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and maintenance plan.
    - B. The owner or operator shall keep hourly records of the operating temperature of the dryer's combustion chamber (degrees F)
  5. The owner or operator shall follow the reporting requirements as specified by the applicable federal and/or state regulation.
    - A. The owner or operator shall maintain records of monthly fuel use by each Gluten Flash Dryer, EU 236-05 and EU 236-06, including the type of fuel, amount, and the reduced recordkeeping requirements for NSPS Subpart Dc.
    - B. Retain a certified statement signed by the owner or operator of the affected source that the records of fuel supplier certifications represent all of the fuel combusted during the reporting period.
    - C. Per the reduced recordkeeping for NSPS Subpart Dc the facility shall provide a report of excess emission (or lack thereof) according to 40 CFR §60.48c(c) on an annual basis when burning only natural gas. The facility is also required to notify the DNR field office of excess emissions within 8 hours and submit a written report within 7 days.
  6. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.
- Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3  
40 FR 60 Subpart Dc  
567 IAC 23.1(2)"III"

NESHAP:

This emission unit is subject to 40 CFR 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: 40 CFR 63 Subpart DDDDD

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 155.6

Stack Opening, (inches, dia.): 33

Exhaust Flow Rate (scfm): 13,500

Exhaust Temperature (°F): 370

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-041-S3, 06-A-042-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

One representative stack test may be completed for either emission point.

**Stack Testing:**

Pollutant – SO2\*

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 60, Appendix A, Method 6C

Authority for Requirement - 567 IAC 22.108(3)

\* The facility may choose to test one emission point to demonstrate compliance for both emission points. If the tested emission point does not demonstrate compliance, both points will be considered out of compliance.

*The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 236-07**

Associated Equipment

| Emission Unit        | Emission Unit Description                                  | Control Equipment                     | Raw Material | Rated Capacity  | Construction Permit |
|----------------------|--|---------------------------------------|--------------|-----------------|---------------------|
| EU236-07A01 to A09   | Fiber Press Screens 01-09                                  | CE236-07:<br>SO <sub>2</sub> Scrubber | Fiber        | 134,615 lb/hr.* | 06-A-043-S5         |
| EU236-07A10 to A18   | Fiber Presses 01-09  |                                       | Fiber        | 61,031 lb/hr.*  |                     |
| EU236-07-A25 to A30  | Fiber Centrifuges 1-6                                      |                                       | Fiber        | 57,195 lb/hr.*  |                     |
| EU236-07A31 to A32   | Dewatered Fiber Conveyors 1-2                              |                                       | Fiber        | 211,250 lb/hr.* |                     |
| EU236-07A36 to A37   | Fiber Dryer Feed Conveyors 1-2                             |                                       | Fiber        | 460,000 lb/hr.* |                     |
| EU236-07A42 to A43   | Combined Fiber Tanks 1-2                                   |                                       | Fiber        | 69,310 gallons* |                     |
| EU236-07A44          | Coarse Fiber Screen 1-4                                    |                                       | Fiber        | 3,200 gal/min   |                     |
| EU236-07A45 to 07A46 | Fiber WHE CIP Tank & Fine Fiber Wash Stage 1 Tank          |                                       | Fiber        | 11,600 gallons* |                     |
| EU236-07A47          | Fine Fiber Wash Stage 1 Screen 1-5                         |                                       | Fiber        | 3,688 gal/min   |                     |
| EU236-07A48          | Fine Fiber Wash Stage 2 Tank                               |                                       | Fiber        | 11,600 gallons  |                     |
| EU236-07A49          | Fine Fiber Wash Stage 2 Screen 1-3                         |                                       | Fiber        | 1,540 gal/min   |                     |
| EU236-07A50          | Fine Fiber Wash Stage 3 Tank                               |                                       | Fiber        | 11,600 gallons  |                     |
| EU236-07A51          | Fine Fiber Wash Stage 3 Screen 1-2                         |                                       | Fiber        | 1,280 gal/min   |                     |
| EU236-07A52 to A0753 | Fiber Centrifuge Presses Feed & Fiber Press Filtrate Tanks |                                       | Fiber        | 11,600 gallons* |                     |
| EU236-07A81 to 07A84 | Fiber Press Screens 10-13                                  |                                       | Fiber        | 134,615 lb/hr.* |                     |
| EU236-07A85 to 07A88 | Fiber Press 10-13  |                                       | Fiber        | 61,031 lb/hr.*  |                     |
| EU236-07A89 to 07A92 | Fiber Dryer Dosing Bin 1-4                                 |                                       | Fiber        | 83,281 lb/hr.*  |                     |
| EU236-07A93 to 07A98 | Misc. Tanks  |                                       | Fiber        | 11,600 gallons* |                     |
| EU236-07B01          | Heavy Gluten Tank  |                                       | Gluten       | 210,322 lb/hr.  |                     |
| EU236-07B03          | Gluten Filter Spraybar Tank                                |                                       | Gluten       | 11,600 gallons  |                     |

| Emission Unit        | Emission Unit Description                 | Control Equipment                     | Raw Material | Rated Capacity  | Construction Permit |
|----------------------|---|---------------------------------------|--------------|-----------------|---------------------|
| EU236-07B14 to 07B17 | Gluten Dryer Mixers 1-2                   | CE236-07:<br>SO <sub>2</sub> Scrubber | Gluten       | 178,346 lb/hr.* | 06-A-043-S5         |
| EU236-07B24 to 07B27 | Gluten Dryer Tanks                        |                                       | Gluten       | 11,600 gallons* |                     |
| EU236-07B28          | Gluten Product Conveyor No. 1             |                                       | Gluten       | 260,000 lb/hr.  |                     |
| EU236-07C01 to 07C02 | Heavy Steepwater & Steepwater Swing Tanks |                                       | Steepwater   | 88,499 gallons* |                     |
| EU236-07C3           | Light Steepwater Tank                     |                                       | Steepwater   | 126,216 gallons |                     |
| EU236-07C04          | Vapor Condensate Tank                     |                                       | Steepwater   | 11,600 gallons  |                     |
| EU236-07D            | Germ Meal to Fiber Reclaim Conveyor       |                                       | Germ, Fiber  | 83,000 lb/hr.   |                     |

\* Each

### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-043-S5  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.67 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-043-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.67 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-043-S5  
567 IAC 23.4(7), 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.94 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-043-S5  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 26.5 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-043-S5

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall not grind more than 138.7 million bushels of corn per rolling 12-month period at the facility, Plant Number 23-01-006.
2. The owner or operator shall record, on a monthly basis, the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculate and record 12-month rolling totals.
3. The owner or operator shall maintain the scrubbant flowrate in the dewatering process vent SO<sub>2</sub> scrubber, CE 236-07, at or above the flowrate measured in gallons per minute during the most recent performance test that demonstrates compliance with the permitted emission limits.
4. The owner or operator shall operate and maintain equipment to continuously monitor the scrubbant flowrate. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
5. The owner or operator shall maintain a continuous record of the scrubbant flowrate, in gallons per minute. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
6. The owner or operator shall maintain a record of the minimum scrubbant flowrate observed during the last successful compliance test for reference.
7. The owner or operator shall maintain the scrubbant pH in the dewatering process vent SO<sub>2</sub> scrubber, CE 236-07, at or above the pH measured in standard units during the most recent performance test that demonstrates compliance with the permitted emission limits.
8. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant pH. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
9. The owner or operator shall collect and record the pH of the scrubbant, in standard units, on a daily basis. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
10. The owner or operator shall maintain a record of the minimum scrubbant pH observed during the last successful compliance test for reference
11. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 06-A-043-S5

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 206.3  
Stack Opening, (inches, dia.): 48  
Exhaust Flow Rate (scfm): 44,000  
Exhaust Temperature (°F): 140  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 06-A-043-S5

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant - VOC  
Stack Test to be Completed by (date) – 9/21/2025  
Test Method - 40 CFR 63, Appendix A, Method 320 or  
40 CFR 60, Appendix A, Method 18  
Authority for Requirement - 567 IAC 22.108(3)

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement:

**Emission Point ID Number: 236-08**

Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment                  | Raw Material | Rated Capacity | Construction Permit |
|---------------|---------------------------|------------------------------------|--------------|----------------|---------------------|
| EU236-08A     | Gluten Filter 1, 1        | CE236-08: SO <sub>2</sub> Scrubber | Gluten       | 6,200 lb/hr    | 06-A-044-S3         |
| EU236-08B     | Gluten Filter 1, 2        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08C     | Gluten Filter 1, 3        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08D     | Gluten Filter 2, 1        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08E     | Gluten Filter 2, 2        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08F     | Gluten Filter 2, 3        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08G     | Gluten Filter 3, 1        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08H     | Gluten Filter 3, 2        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08I     | Gluten Filter 3, 3        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08J     | Gluten Filter 4, 1        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08K     | Gluten Filter 4, 2        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08L     | Gluten Filter 4, 3        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08M     | Gluten Filter 5, 1        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08N     | Gluten Filter 5, 2        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08O     | Gluten Filter 5, 3        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08P     | Gluten Filter 6, 1        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08Q     | Gluten Filter 6, 2        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08R     | Gluten Filter 6, 3        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08S     | Gluten Filter 7, 1        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08T     | Gluten Filter 7, 2        |                                    | Gluten       | 6,200 lb/hr    |                     |
| EU236-08U     | Gluten Filter 7, 3        | Gluten                             | 6,200 lb/hr  |                |                     |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-044-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No Visible Emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.66 lb/hr.  
Authority for Requirement: DNR Construction Permit 06-A-044-S3

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.66 lb/hr., 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 06-A-044-S3  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 1.90 lb/hr., 500 ppmv  
Authority for Requirement: DNR Construction Permit 06-A-044-S3  
567 IAC 23.3(3)

Pollutant: VOC's  
Emission Limit(s): 14.25 lb/hr.  
Authority for Requirement: DNR Construction Permit 06-A-044-S3

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculate and record 12-month rolling totals.
2. The Gluten Filter Aspiration scrubber, CE 236-08, total scrubbant flowrate shall be maintained at or above 942 gallons per minute.
  - A. The owner or operator shall properly operate and maintain equipment to continuously monitor the scrubbant flowrate. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall maintain a continuous record of the scrubbant flowrate, in gallons per minute. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
3. The Gluten Filter Aspiration scrubber, CE 236-08, scrubbant pH shall be maintained at or above 8.8, in standard units.
  - A. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant pH. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall collect and record the pH of the scrubbant, in standard units, on a daily basis. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.

4. All control equipment and monitoring devices shall be maintained according to the manufacturer's specifications.
  - A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 06-A-044-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 205.9

Stack Opening, (inches, dia.): 38

Exhaust Flow Rate (scfm): 31,100

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-044-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant - VOC

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 63, Appendix A, Method 320 or  
40 CFR 60, Appendix A, Method 18

Authority for Requirement - 567 IAC 22.108(3)

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 236-10**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>        | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------------------|---------------------|-----------------------|----------------------------|
| EU236-10A            | No. 1 Gluten Filter Vacuum Pump  | CE 236-10A: Water Trap/Scrubber | Gluten              | 1,075 scfm            | 06-A-034-S3                |
| EU236-10B            | No. 2 Gluten Filter Vacuum Pump  | CE 236-10B: Water Trap/Scrubber | Gluten              | 1,075 scfm            |                            |
| EU236-10C            | No. 3 Gluten Filter Vacuum Pump  | CE 236-10C: Water Trap/Scrubber | Gluten              | 1,075 scfm            |                            |
| EU236-10D            | No. 4 Gluten Filter Vacuum Pump  | CE 236-10D: Water Trap/Scrubber | Gluten              | 1,075 scfm            |                            |
| EU236-10E            | No. 5 Gluten Filter Vacuum Pump  | CE 236-10E: Water Trap/Scrubber | Gluten              | 1,075 scfm            |                            |
| EU236-10F            | No. 6 Gluten Filter Vacuum Pump  | CE 236-10F: Water Trap/Scrubber | Gluten              | 1,075 scfm            |                            |
| EU236-10G            | No. 7 Gluten Filter Vacuum Pump  | CE 236-10G: Water Trap/Scrubber | Gluten              | 1,075 scfm            |                            |
| EU236-10H            | No. 8 Gluten Filter Vacuum Pump  | CE 236-10H: Water Trap/Scrubber | Gluten              | 1,075 scfm            |                            |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.19 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-034-S3  
567 IAC 23.3(3)

Pollutant: VOC's

Emission Limit(s): 4.1 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-034-S3

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculate and record 12-month rolling totals.
- 2. The owner or operator shall maintain the control equipment according to manufacturer’s specifications and maintenance schedule or per written facility specific operation and maintenance plan.
  - A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment.

Authority for Requirement: DNR Construction Permit 06-A-034-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 155.4

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 8,600

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-034-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 236-11****Associated Equipment**

| <b>Emission Unit</b> | <b>Emission Unit Description</b>                          | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|---|--------------------------|---------------------|-----------------------|----------------------------|
| EU236-11             | Gluten Meal Transfer System with Product Recovery Cyclone | CE 236-11: Baghouse      | Gluten Meal         | 63,500 lb/hr.         | 06-A-048-S3                |
| EU236-11A            | Germ Meal Transport Cyclone                               |                          | Germ Meal           | 2,300 lb/hr           |                            |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-048-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of "No Visible Emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.45 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-048-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.45 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-048-S3  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculate and record 12-month totals.
2. The owner or operator shall maintain the control equipment according to manufacturer's

specifications and maintenance schedule or per written facility specific operation and maintenance plan.

- A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment.

Authority for Requirement: DNR Construction Permit 06-A-048-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 170.3

Stack Opening, (inches, dia.): 32

Exhaust Flow Rate (scfm): 32,000

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-048-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 237-01**

Associated Equipment

| Emission Unit | Emission Unit Description                 | Control Equipment     | Raw Material          | Rated Capacity | Construction Permit |
|---------------|---|-----------------------|-----------------------|----------------|---------------------|
| EU237-01A     | Grinder 1                                 | CE237-01:<br>Baghouse | Fiber &<br>Steepwater | 50,000 lb/hr   | 06-A-046-S5         |
| EU237-01B     | Grinder 2                                 |                       |                       | 50,000 lb/hr   |                     |
| EU237-01C     | Grinder 3                                 |                       |                       | 50,000 lb/hr   |                     |
| EU237-01D     | Grinder 4                                 |                       |                       | 50,000 lb/hr   |                     |
| EU237-01F     | 1 <sup>st</sup> Pass Sifter Feed Conveyor |                       |                       | 268,000 lb/hr  |                     |
| EU237-01G     | 2 <sup>nd</sup> Pass Sifter Feed Conveyor |                       |                       | 268,000 lb/hr  |                     |
| EU237-01H     | Sifters Overs Conveyor                    |                       |                       | 254,000 lb/hr  |                     |
| EU237-01I     | Sifter Fines Conveyor                     |                       |                       | 268,000 lb/hr  |                     |
| EU237-01J     | Feed/Corn Germ Meal Mixer                 |                       |                       | 371,000 lb/hr  |                     |
| EU237-01K     | Grinder Discharge Conveyor                |                       |                       | 250,000 lb/hr. |                     |
| EU237-01L     | Feed Mixer Surge Bin                      |                       |                       | 371,000 lb/hr. |                     |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-046-S5  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.80 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-046-S5

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 2.80 lb/hr., 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 06-A-046-S5  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the baghouse (CE 237-01) according to the manufacturer's specifications. A log of all scheduled maintenance and inspection activities performed on the Baghouse (CE 237-01) shall be maintained. This log shall include, but is not necessarily limited to:
  - A. The date and time any inspection and/or maintenance was performed on the Baghouse (CE 237-01);
  - B. Any issues identified during the inspection and the date each issue was resolved;
  - C. Any issues addressed during the maintenance activities and the date each issue was resolved; and
  - D. Identification of the staff member performing the maintenance or inspection.
2. The facility (Plant Number 23-01-006) shall not grind more than 138.7 million bushels of corn per rolling 12-month period. At the end of each month, the owner or operator shall:
  - A. Record the amount of corn, in bushels, that was ground at the facility; and
  - B. Calculate and record the rolling 12-month total amount of corn, in bushels, ground at the facility.

Authority for Requirement: DNR Construction Permit 06-A-046-S5

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 108.8  
Stack Opening, (inches, dia.): 34  
Exhaust Flow Rate (scfm): 16,500  
Exhaust Temperature (°F): 115  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 06-A-046-S5

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No   
*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

### Fibersol Process Equipment List

| <b>FIBERSOL</b>              |                             |  |                                       |
|------------------------------|-----------------------------|--|---------------------------------------|
| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>             | <b>DNR Construction Permit Number</b> |
| 106-1                        | EU106-1                     | Fibersol Bag Packer Transport Load Collector | 99-A-163-S4                           |
| 106-2                        | EU106-2                     | Fibersol Bag Packer Dust Collector           | 04-A-302-S4                           |
| 117-6                        | EU117-6                     | Dextrin Feed 1 Load Collector                | 13-A-106-S2                           |
| 117-7                        | EU117-7A                    | No. 1 Hold Screw                             | 13-A-107-S3                           |
|                              | EU117-7B                    | No. 1 Slurry Tank                            |                                       |
| 117-8                        | EU117-8A                    | No. 2 Hold Screw                             | 13-A-112-S3                           |
|                              | EU117-8B                    | No. 2 Slurry Tank                            |                                       |
| 117-9                        | EU117-9A                    | No. 1 Day Bin                                | 13-A-109-S3                           |
|                              | EU117-9B                    | No. 1 Torus Dryer                            |                                       |
| 117-10                       | EU117-10A                   | No. 2 Day Bin                                | 13-A-109-S3                           |
|                              | EU117-10B                   | No. 2 Torus Dryer                            |                                       |
| 118-1                        | EU118-1                     | No. 1 Fibersol Spray Dryer                   | 96-A-1029-S6                          |
| 118-2                        | EU118-2A                    | Fibersol Spray Dryer 1 Transport Airlock 1   | 06-A-716-S2                           |
|                              | EU118-6                     | Fibersol Tote Repack Hopper                  |                                       |
| 125-4                        | EU125-4                     | Dextrin Feed No. 2 Load Collector            | 98-A-464-S6                           |
| 125-5                        | EU125-5A                    | No. 3 Roaster                                | 98-A-465-S7                           |
|                              | EU125-5B                    | No. 3 Hold screw                             |                                       |
|                              | EU125-5D                    | No. 3 Slurry Tank                            |                                       |
| 125-6                        | EU125-6                     | No. 3 Dextrin Dust Collector                 | 98-A-463-S9                           |
|                              | EU125-6A                    | No. 3 Day Bin                                |                                       |
|                              | EU125-6E                    | No. 3 Torus Dryer                            |                                       |
| 125-7                        | EU125-7A                    | No. 4 Roaster                                | 04-A-300-S3                           |
|                              | EU125-7B                    | No. 4 Hold screw                             |                                       |
|                              | EU125-7D                    | No. 4 Slurry Tank                            |                                       |
| 125-8                        | EU125-8                     | No. 4 Dextrin Dust Collector                 | 04-A-301-S3                           |
|                              | EU125-8A                    | No. 4 Day Bin                                |                                       |
|                              | EU125-8B                    | No. 4 Torus Dryer                            |                                       |
| 127-8                        | EU127-8                     | Fibersol Tote Packer Storage Hopper 1        | 14-A-288-S1                           |
|                              | EU127-8-1                   | No. 1 Fibersol Tote Bagger                   |                                       |
|                              | EU127-8-3                   | No. 1 Fibersol Rotex                         |                                       |
| 127-9                        | EU127-9                     | Fibersol Tote Packer Storage Hopper 2        | 15-A-426-S1                           |
|                              | EU127-9-1                   | No. 2 Fibersol Tote Bagger                   |                                       |
|                              | EU127-9-2                   | No. 2 Fibersol Rotex                         |                                       |
|                              | EU127-9-3                   | No. 3 Fibersol Tote Bagger                   |                                       |
|                              | EU127-9-4                   | No. 3 Fibersol Rotex                         |                                       |
| 136-3                        | EU136-3                     | No. 2 Fibersol Spray Dryer                   | 13-A-110-S2                           |
| 136-4                        | EU136-4                     | Spray Dryer 2 Storage Bin                    | 15-A-427-S1                           |

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**Emission Point ID Number: 106-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>             | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|--|--------------------------|---------------------|-----------------------|----------------------------|
| EU106-1              | Fibersol Bag Packer Transport Load Collector | Fabric Filter (CE 106-1) | Fibersol            | 18,000 lb/hr          | 99-A-163-S4                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

DNR Construction Permit 99-A-163-S4

<sup>(1)</sup>An exceedance of the indicator opacity of no visible emissions will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.03 lb/hr

Authority for Requirement: DNR Construction Permit 99-A-163-S4

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.04 lb/hr

Authority for Requirement: DNR Construction Permit 99-A-163-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.06 lb/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

DNR Construction Permit 99-A-163-S4

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 1. The owner/ operator shall maintain the fabric filter per manufacturer's recommendations.
- 2. Keep records of maintenance performed on the fabric filter.

Authority for Requirement: DNR Construction Permit 99-A-163-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 82

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): 150

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 99-A-163-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 106-2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>      | <b>Control Equipment</b>    | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|---------------------------------------|-----------------------------|---------------------|-----------------------|----------------------------|
| 106-2                | Fibersol Bag Packer<br>Dust Collector | Fabric Filter<br>(CE 106-2) | Starch              | 9,300 lb/hr           | 04-A-302-S4                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

DNR Construction Permit 04-A-302-S4

<sup>(1)</sup>An exceedance of the indicator opacity of no visible emissions will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.05 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-302-S4

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.07 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-302-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.12 lb/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

DNR Construction Permit 04-A-302-S4

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 1. The owner or operator shall maintain the fabric filter per manufacturer's recommendations.
- 2. The owner or operator shall maintain records of maintenance performed on the fabric filter.

Authority for Requirement: DNR Construction Permit 04-A-302-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 82

Stack Opening, (inches, dia.): 14

Exhaust Flow Rate (scfm): 2,100

Exhaust Temperature (°F): 90

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 04-A-302-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: 117-6

### Associated Equipment

| Emission Unit | Emission Unit Description     | Control Equipment | Raw Material | Rated Capacity | Construction Permit |
|---------------|-------------------------------|-------------------|--------------|----------------|---------------------|
| EU117-6       | Dextrin Feed 1 Load Collector | CE117-6: Baghouse | Starch       | 22,500 lb/hr   | 13-A-106-S2         |

### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 13-A-106-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.02 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-106-S2

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.03 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-106-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-106-S2  
567 IAC 23.4(7)

#### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner/ operator shall maintain the baghouse per manufacturer's recommendations.
2. Keep records of maintenance performed on the baghouse.

Authority for Requirement: DNR Construction Permit 13-A-106-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 126
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): 1,125
- Exhaust Temperature (°F): 150
- Discharge Style: Downward
- Authority for Requirement: DNR Construction Permit 13-A-106-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

- Agency Approved Operation & Maintenance Plan Required?**      Yes  No
- Facility Maintained Operation & Maintenance Plan Required?**      Yes  No
- Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 117-7 & 117-8**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>       | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|--------------------------------|---------------------|-----------------------|----------------------------|
| 117-7                 | EU117-7A             | No. 1 Hold Screw                 | #1 Dextrin Scrubber (CE117-7)  | Dextrin             | 11,250 lbs/hr         | 13-A-107-S3                |
|                       | EU117-7B             | No. 1 Slurry Tank                |                                | Dextrin             | 6,500 gallons         |                            |
| 117-8                 | EU117-8A             | No. 2 Hold Screw                 | #2 Dextrin Scrubber (CE 117-8) | Dextrin             | 11,250 lbs/hr         | 13-A-112-S3                |
|                       | EU117-8B             | No. 2 Slurry Tank                |                                | Dextrin             | 6,500 gallons         |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 13-A-107-S3 & 13-A-112-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.08 lb/hr.

Authority for Requirement: DNR Construction Permits 13-A-107-S3 & 13-A-112-S3

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.08 lb/hr.

Authority for Requirement: DNR Construction Permits 13-A-107-S3 & 13-A-112-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.13 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 13-A-107-S3 & 13-A-112-S3  
567 IAC 23.4(7)

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 2.42 lb/hr.

Authority for Requirement: DNR Construction Permits 13-A-107-S3 & 13-A-112-S3

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The pressure drop across each of the the #1 and #2 Dextrin Scrubbers (CE 117-7 and CE 117-8)) shall be maintained between 0.10 – 9.0 inches of water (H<sub>2</sub>O) column (1-hr block average). The owner or operator shall:
  - (1) Install, calibrate, operate, and maintain equipment to continuously monitor the pressure drop across the #1 and #2 Dextrin Scrubbers (CE 117-7 and CE 117-8).
  - (2) Record the 1-hr block average pressure drop readings from the monitoring equipment.
  
- B. The liquid flow rate to each of the #1 and #2 Dextrin Scrubbers (CE 117-7 and CE 117-8) shall be maintained above 27.0 gallons per minute (1-hr block average). The owner or operator shall:
  - (1) Install, calibrate, operate, and maintain equipment to continuously monitor the minimum liquid flow rate to the #1 and #2 Dextrin Scrubbers (CE 117-7 and CE 117-8).
  - (2) Record the 1-hr block average liquid flow rate readings from the monitoring equipment.
  
- C. The maximum amount of dextrin processed by each of the #1 and #2 Dextrin Lines (EUs 117-7a, 117-7b, 117-9a, 117-9b, 117-8a, 117- 8b, 117-10a, and 117-10b) shall not exceed 11,250 pounds per hour (hourly average). For each day of operation, the owner or operator shall record:
  - (1) The date,
  - (2) The amount of dextrin processed,
  - (3) The number of hours the #1 and #2 Dextrin Lines operated, and
  - (4) The average hourly production rate (lbs/hr) for the #1 and #2 Dextrin Lines.
  
- D. The owner or operator shall maintain a log of all maintenance and inspection activities performed on each of the #1 and #2 Dextrin Scrubbers (CE 117-7 and 117-8). This log shall include, but is not necessarily limited to:
  - (1) The date and time any inspection and/or maintenance was performed on the #1 and #2 Dextrin Scrubbers (CE 117-7 and 117-8);
  - (2) Any issues identified during the inspection and the date each issue was resolved;
  - (3) Any issues addressed during the maintenance activities and the date each issue was resolved;
  - (4) Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 13-A-107-S3 & 13-A-112-S3

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height<br/>(ft, from the<br/>ground)</b> | <b>Stack Opening<br/>(inches, dia)</b> | <b>Exhaust Flow<br/>Rate (scfm)</b> | <b>Exhaust<br/>Temperature<br/>(°F)</b> | <b>Discharge Style</b>   |
|-----------------------|---|--|-------------------------------------|---|--------------------------|
| 117-7                 | 118   | 10                                     | 800                                 | 105                                     | Unobstructed<br>vertical |
| 117-8                 | 118   | 10                                     | 800                                 | 105                                     | Unobstructed<br>vertical |

Authority for Requirement: DNR Construction Permits 13-A-107-S3 & 13-A-112-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 117-9**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>          | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|-----------------------------------|---------------------|-----------------------|----------------------------|
| EU117-9A             | No. 1 Day Bin                    | #1 Dextrin Baghouse<br>(CE 117-9) | Starch              | 11,250 lbs/hr         | 13-A-108-S3                |
| EU117-9B             | No. 1 Torus Dryer                |                                   | Starch              | 11,250 lbs/hr         |                            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 13-A-108-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.088 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-108-S3

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.088 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-108-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.088 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-108-S3  
567 IAC 23.4(7)

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The maximum amount of dextrin processed by the #1 Dextrin Line (EUs 117-7a, 117- 7b, 117-9a, and 117-9b) shall not exceed 11,250 pounds per hour (hourly average). For each day of operation, the owner or operator shall record:
  - (1) The date,
  - (2) The amount of dextrin processed,
  - (3) The number of hours the #1 Dextrin Line operated, and
  - (4) The average hourly production rate (lbs/hr) for the #1 Dextrin Line.
  
- B. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the #1 Dextrin Baghouse (CE 117-9). This log shall include, but is not necessarily limited to:
  - (1) The date and time any inspection and/or maintenance was performed on the #1 Dextrin Baghouse (CE 117-9);
  - (2) Any issues identified during the inspection and the date each issue was resolved;
  - (3) Any issues addressed during the maintenance activities and the date each issue was resolved;
  - (4) Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 13-A-108-S3

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 137

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 1,900

Exhaust Temperature (°F): 160

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 13-A-108-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 117-10**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>           | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|------------------------------------|---------------------|-----------------------|----------------------------|
| EU117-10A            | No. 2 Day Bin                    | #2 Dextrin Baghouse<br>(CE 117-10) | Starch              | 11,250 lbs/hr         | 13-A-109-S3                |
| EU117-10B            | No. 2 Torus Dryer                |                                    | Starch              | 11,250 lbs/hr         |                            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 13-A-109-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.088

Authority for Requirement: DNR Construction Permit 13-A-109-S3

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.088 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-109-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.088 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-109-S3  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The maximum amount of dextrin processed by the #2 Dextrin Line (EUs 117-8a, 117- 8b, 117-10a, and 117-10b) shall not exceed 11,250 pounds per hour (hourly average). For each day of operation, the owner or operator shall record:
  - (1) The date,
  - (2) The amount of dextrin processed,
  - (3) The number of hours the #2 Dextrin Line operated, and
  - (4) The average hourly production rate (lbs/hr) for the #2 Dextrin Line.
  
- B. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the #2 Dextrin Baghouse (CE 117-10). This log shall include, but is not necessarily limited to:
  - (1) The date and time any inspection and/or maintenance was performed on the #2 Dextrin Baghouse (CE 117-10),
  - (2) Any issues identified during the inspection and the date each issue was resolved,
  - (3) Any issues addressed during the maintenance activities and the date each issue was resolved, and
  - (4) Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 13-A-109-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 137

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 1,900

Exhaust Temperature (°F): 160

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 13-A-109-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 118-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>                           | <b>Raw Material</b>   | <b>Rated Capacity</b>          | <b>Construction Permit</b> |
|----------------------|----------------------------------|--|-----------------------|--------------------------------|----------------------------|
| EU118-1              | No. 1 Fibersol Spray Dryer       | Fibersol Spray Dryer baghouse (CE 118-1A)          | Fibersol, Natural Gas | 9,000 lb/hr.<br>20<br>MMBtu/hr | 96-A-1029-S6               |
|                      |                                  | Fibersol Spray Dryer Load Collector #1 (CE 118-1B) |                       |                                |                            |
|                      |                                  | Fibersol Spray Dryer Upriver Cyclone (CE 118-1C)   |                       |                                |                            |
|                      |                                  | Fibersol Spray Dryer Downriver Cyclone (CE 118-1D) |                       |                                |                            |
|                      |                                  | Fibersol Spray Dryer Load Collector #2 (CE118-1E)  |                       |                                |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 96-A-1029-S6  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of no visible emissions will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.31 lb/hr.

Authority for Requirement: DNR Construction Permit 96-A-1029-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.31 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 96-A-1029-S6  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.045 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 96-A-1029-S6  
567 IAC 23.3"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 1.97 lb/hr.  
Authority for Requirement: DNR Construction Permit 96-A-1029-S6

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 1.0 lb/hr.  
Authority for Requirement: DNR Construction Permit 96-A-1029-S6

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 1.65 lb/hr.  
Authority for Requirement: DNR Construction Permit 96-A-1029-S6

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The maximum production of the fibersol spray dryer shall not exceed 9,000 pounds (fibersol) per hour on a dry basis.
- B. The dryer shall be heated by natural gas only. The heat input to the dryer is 20.0 MMBTU/hr.
- C. The baghouses and the cyclones shall be maintained in accordance with manufacturers' instructions and specifications.
- D. The owner or operator shall maintain a continuous record of the pressure drop across the dryer's baghouse.
- E. The owner or operator shall maintain a record of the minimum pressure drop across the dryer's baghouse observed during the compliance test.
- F. The owner or operator shall maintain a record of the amount of material processed through the dryer at the end of each hour.
- G. The owner or operator shall maintain a record of any maintenance performed on the baghouses and cyclones.
- H. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall calculate the annual emissions (in tons/yr on a calendar basis) of each regulated NSR pollutant emitted by the affected emission units until at least December 17, 2021 and maintain a record of regular operations after the change.
- I. Per 567 IAC 33.3(18)"f"(7), the owner or operator shall submit a report to the Department if the annual emissions, in tons per year, from the emission units affected by this project, exceed the baseline actual emissions, as documented and maintained in Condition E., by an amount that is 'significant' as defined in 567 IAC 33.3(1) for that regulated NSR pollutant, and if such

emissions differ from the preconstruction projection as documented and maintained in Condition E. Such report shall be submitted to the Department within 60 days after the end of such year.

Authority for Requirement: DNR Construction Permit 96-A-1029-S6

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 120

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (scfm): 41,500

Exhaust Temperature (°F): 115

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 96-A-1029-S6

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

*See Appendix A for CAM plans*

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 118-2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>                 | <b>Control Equipment</b>                       | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|--|--|---------------------|-----------------------|----------------------------|
| EU118-2A             | Fibersol Spray Dryer<br>1 Transport Airlock<br>1 | Fibersol House<br>Dust Collector<br>(CE 118-2) | Fibersol            | 12,000 lbs/hr         | 06-A-716-S2                |
| EU118-6              | Fibersol Tote<br>Repack Hopper                   |  |                     | 6,000 lbs/hr          |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"  
DNR Construction Permit 06-A-716-S2

<sup>(1)</sup>An exceedance of the indicator opacity of no visible emissions will require the owner to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.09 lb/hr, 0.32 tons/yr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)  
DNR Construction Permit 06-A-716-S2

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.05 lb/hr, 0.32 tons/yr

Authority for Requirement: DNR Construction Permit 06-A-716-S2

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.04 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-716-S2

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The control device shall be maintained per manufacturer's recommendations.
2. The permittee shall maintain records of maintenance performed on the control device on site.

Authority for Requirement: DNR Construction Permit 06-A-716-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 119.5  
Stack Opening, (inches, dia.): 16  
Exhaust Flow Rate (scfm): 2,100  
Exhaust Temperature (°F): 68  
Discharge Style: Vertical, unobstructed  
Authority for Requirement: DNR Construction Permit 06-A-716-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

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**Emission Point ID Number: 125-4**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU125-4              | Dextrin Feed 2 Load Collector    | CE125-4: Baghouse        | Starch              | 22,500 lb/hr.         | 98-A-464-S6                |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 98-A-464-S6  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.10 lb/hr., 0.45 tons/yr.

Authority for Requirement: DNR Construction Permit 98-A-464-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.10 lb/hr., 0.45 tons/yr., 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 98-A-464-S6  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The pressure drop across the dust collector associated with this emission point shall be maintained between 0.5 inches and 6 inches of water column.
- B. The maximum amount of starch received by the starch hopper shall not exceed 22,500 pounds per hour.
- C. A continuous record of the pressure drop across the dust collector associated with this emission point shall be maintained.

D. A record of the amount of starch received by the starch hopper shall be recorded at the end of each hour.

Authority for Requirement: DNR Construction Permit 98-A-464-S6

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 86.7

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,200

Exhaust Temperature (°F): 70

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 98-A-464-S6

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 125-5**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>         | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EU125-5A             | No. 3 Roaster                    | No. 3 Dextrin Scrubber (CE125-5) | Starch              | 11,250 lb/hr.         | 98-A-465-S7                |
| EU125-5B             | No. 3 Hold Screw                 |                                  |                     | 6,500 gallons         |                            |
| EU125-5D             | No. 3 Slurry Tank                |                                  |                     |                       |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 98-A-465-S7  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of no visible emissions will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.10 lb/hr.

Authority for Requirement: DNR Construction Permit 98-A-465-S7

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.10 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 98-A-465-S7  
567 23.3(2)"a"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 2.51 lb/hr.

Authority for Requirement: DNR Construction Permit 98-A-465-S7

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The control equipment shall be inspected and maintained according to manufacturer's specifications.
- B. The facility shall maintain a scrubbant flow rate greater than 45 gallons per minute and a pressure drop greater than 1 inch water column on the scrubber, using the procedure described in the consent decree of August 21, 2003.
- C. The maximum amount of hydrochloric acid used in the continuous dextrin starch process shall not exceed 19.0 tons in any rolling 12-month period. This includes equipment exhausted through emission points 125-5, 125-6, 125-7 and 125-8.
- D. Maximum amount of dextrin starch processed by the dextrin production line 3 (emission units associated with EP125-5 and EP125-6) shall not exceed 11,250 pounds per hour.
- E. The owner or operator shall keep records of control equipment inspections and maintenance.
- F. The facility shall monitor scrubbant flow rate and pressure drop for the scrubbers as described in the consent decree of August 21, 2003.
- G. The permittee shall maintain the following monthly records:
  - a. The amount of hydrochloric acid used in the continuous dextrin process (pounds or tons); and,
  - b. The rolling 12-month total of the amount of hydrochloric acid used in the continuous dextrin process.
- H. A record of the amount of dextrin starch processed by the dextrin production line 3 shall be recorded at the end of each hour.

Authority for Requirement: DNR Construction Permit 98-A-465-S7

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 103.7

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,200

Exhaust Temperature (°F): 125

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 98-A-465-S7

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 125-6**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>                   | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--|---------------------|-----------------------|----------------------------|
| EU125-6              | No. 3 Dextrin Dust Collector     | No. 3 Dextrin Dust Collector<br>(CE 125-6) | Starch              | 11,250 lbs/hr.        | 98-A-463-S9                |
| EU125-6A             | No. 3 Day Bin                    |  |                     |                       |                            |
| EU125-6E             | No. 3 Torus Dryer                |  |                     |                       |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 98-A-463-S9  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emissions unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.26 lb/hr., 1.13 tons/yr.

Authority for Requirement: DNR Construction Permit 98-A-463-S8

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.26 lb/hr., 1.13 tons/yr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 98-A-463-S9  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The control equipment shall be inspected and maintained according to manufacturer's specifications.
- B. The maximum amount of hydrochloric acid used in the continuous dextrin starch process shall not exceed 19.0 tons in any rolling 12-month period. This includes equipment exhausted through emission points 125-5, 125-6, 125-7 and 125-8.
- C. Maximum amount of dextrin starch processed by the dextrin production line 3 (emission units associated with EP125-5 and EP125-6) shall not exceed 11,250 pounds per hour.

- D. The owner or operator shall keep records of control equipment inspections and maintenance.
- E. A continuous record of the pressure drop across the baghouse associated with this emission point shall be maintained.
- F. The permittee shall maintain the following monthly records:
  - a. The amount of hydrochloric acid used in the continuous dextrin process (pounds or tons); and,
  - b. The rolling 12-month total of the amount of hydrochloric acid used in the continuous dextrin process.
- G. A record of the amount of dextrin starch processed by the dextrin production line 3 shall be recorded at the end of each hour.

Authority for Requirement: DNR Construction Permits 98-A-463-S9

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 96.2

Stack Opening, (inches, dia.): 16

Exhaust Flow Rate (scfm): 4,000

Exhaust Temperature (°F): 180

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 98-A-463-S9

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 125-7**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>          | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|-----------------------------------|---------------------|-----------------------|----------------------------|
| EU125-7A             | No. 4 Roaster                    | No. 4 Dextrin Scrubber (CE 125-7) | Starch              | 11,250 lb/hr.         | 04-A-300-S3                |
| EU125-7B             | No. 4 Hold Screw                 |                                   |                     |                       |                            |
| EU125-7D             | No. 4 Slurry Tank                |                                   |                     |                       |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 04-A-300-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emissions unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.10 lb/hr., 0.45 tons/yr.

Authority for Requirement: DNR Construction Permit 04-A-300-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.10 lb/hr., 0.45 tons/yr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-300-S3  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The pressure drop across the wet scrubber associated with this emission point shall be operated between a value of 3 inches of water column and 10 inches of water column.
- B. The liquid flow rate to the wet scrubber associated with this emission point shall be maintained above the minimum value observed during the compliance test.

- C. Maximum amount of dextrin starch processed by the dextrin production line 4 (emission units associated with EP125-7 and EP125-8) shall not exceed 11,250 pounds per hour.
- D. The maximum amount of hydrochloric acid used in the continuous dextrin starch process shall not exceed 19.0 tons in any rolling 12-month period. This includes equipment exhausted through emission points 125-5, 125-6, 125-7 and 125-8.
- E. A continuous record of the pressure drop across the wet scrubber associated with this emission point shall be maintained.
- F. A continuous record of the liquid flow to the wet scrubber associated with this emission point shall be maintained.
- G. A record of the minimum pressure drop across the wet scrubber observed during the compliance test shall be maintained for reference.
- H. A record of the wet scrubber's minimum liquid flow rate observed during the compliance test shall be maintained for reference.
- I. A record of the amount of dextrin starch processed by the dextrin production line 4 shall be recorded at the end of each hour.
- J. The permittee shall maintain the following monthly records:
  - i. the amount of hydrochloric acid used in the continuous dextrin process (pounds or tons); and
  - ii. the rolling 12-month total of the amount of hydrochloric acid (pounds or tons) used in the continuous dextrin process.

Authority for Requirement: DNR Construction Permits 04-A-300-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 103.4

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,200

Exhaust Temperature (°F): 120

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 04-A-300-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: 125-8

### Associated Equipment

| Emission Unit | Emission Unit Description    | Control Equipment                  | Raw Material | Rated Capacity | Construction Permit |
|---------------|------------------------------|------------------------------------|--------------|----------------|---------------------|
| 125-8         | No. 4 Dextrin Dust Collector | CE125-8: #4 Dextrin Dust Collector | Starch       | 11,250 lb/hr.  | 04-A-301-S3         |
| EU125-8A      | No. 4 Day Bin                |                                    |              |                |                     |
| EU125-8B      | No. 4 Torus Dryer            |                                    |              |                |                     |

### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 04-A-301-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emissions unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.34 lb/hr., 1.49 tons/yr.

Authority for Requirement: DNR Construction Permit 04-A-301-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.34 lb/hr., 1.49 tons/yr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-301-S3  
567 IAC 23.4(7)

#### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the control equipment (CE 125-8). This log shall include, but is not necessarily limited to:
- The date and time any inspection and/or maintenance was performed on the control equipment (CE 125-8);
  - Any issues identified during the inspection and the date each issue was resolved;
  - Any issues addressed during the maintenance activities and the date each issue was

- resolved;
- iv. Identification of the staff member performing the maintenance or inspection.
- B. Maximum amount of dextrin starch processed by the dextrin production line 4 (emission units associated with EP125-7 and EP125-8) shall not exceed 11,250 pounds per hour.
- C. The maximum amount of hydrochloric acid used in the continuous dextrin starch process shall not exceed 19.0 tons in any rolling 12-month period. This includes equipment exhausted through emission points 125-5, 125-6, 125-7 and 125-8.
- D. A record of the amount of dextrin starch processed by the dextrin production line 4 shall be recorded at the end of each hour.
- E. The permittee shall maintain the following monthly records:
- i. the amount of hydrochloric acid used in the continuous dextrin process (pounds or tons); and
  - ii. the rolling 12-month total of the amount of hydrochloric acid (pounds or tons) used in the continuous dextrin process.

Authority for Requirement: DNR Construction Permit 04-A-301-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 96.3

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 4,000

Exhaust Temperature (°F): 180

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 04-A-301-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 127-8**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>      | <b>Control Equipment</b>   | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|---------------------------------------|----------------------------|---------------------|-----------------------|----------------------------|
| EU127-8              | Fibersol Tote Packer Storage Hopper 1 | Bin Vent Filter (CE 127-8) | Starch              | 12,000 lb/hr.         | 14-A-288-S1                |
| EU127-8-1            | No. 1 Fibersol Tote Bagger            |                            | Starch              |                       |                            |
| EU127-8-2            | No. 1 Fibersol Rotex                  |                            | Starch              |                       |                            |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 14-A-288-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No Visible Emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.04 lb/hr.

Authority for Requirement: DNR Construction Permit 14-A-288-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.06 lb/hr.

Authority for Requirement: DNR Construction Permit 14-A-288-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.09 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 14-A-288-S1  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The bin vent filter shall be maintained per manufacturer's recommendations.
- B. The permittee shall maintain records of maintenance performed on bin vent filter on site.

Authority for Requirement: DNR Construction Permit 14-A-288-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 90

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 2,200

Exhaust Temperature (°F): 160

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 14-A-288-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 127-9**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>      | <b>Control Equipment</b>   | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|---------------------------------------|----------------------------|---------------------|-----------------------|----------------------------|
| EU127-9              | Fibersol Tote Packer Storage Hopper 2 | Bin Vent Filters (CE127-9) | Starch              | 9,300 lbs/hr          | 15-A-426-S1                |
| EU127-9-1            | No. 2 Fibersol Tote Bagger            |                            | Starch              |                       |                            |
| EU127-9-2            | No. 2 Fibersol Rotex                  |                            | Starch              |                       |                            |
| EU127-9-3            | No. 3 Fibersol Tote Bagger            |                            | Starch              |                       |                            |
| EU127-9-4            | No. 3 Fibersol Rotex                  |                            | Starch              |                       |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 15-A-426-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No Visible Emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.06 lb/hr., 0.24 tons/yr.

Authority for Requirement: DNR Construction Permit 15-A-426-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.07 lb/hr., 0.32 tons/yr.

Authority for Requirement: DNR Construction Permit 15-A-426-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.12 lb/hr., 0.53 tons/yr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-426-S1  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

A. The owner or operator shall maintain the bin vent filters per manufacturer's recommendations.

B. The owner or operator shall maintain records of maintenance performed on the bin vent filters.

Authority for Requirement: DNR Construction Permit 15-A-426-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 90

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 2,100

Exhaust Temperature (°F): 120

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-426-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: 136-3

### Associated Equipment

| Emission Unit | Emission Unit Description               | Control Equipment                  | Raw Material          | Rated Capacity                  | Construction Permit |
|---------------|---|------------------------------------|-----------------------|---------------------------------|---------------------|
| EU136-3       | #2 Fibersol Spray Dryer Discharge Stack | 2 Cyclones & 2 Baghouses (CE136-3) | Starch<br>Natural Gas | 10,000 lbs/hr.<br>20.3 MMBtu/hr | 13-A-110-S2         |

### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 13-A-110-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of no visible emissions will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.93 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-110-S2

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.23 lb/hr., 0.45 tons/yr.

Authority for Requirement: DNR Construction Permit 13-A-110-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.53 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-110-S2  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxides (SO<sub>2</sub>)

Emission Limit(s): 0.01 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 13-A-110-S2  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 1.99 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-110-S2

Pollutant: Volatile Organic Compounds (VOC's)  
Emission Limit(s): 1.39 lb/hr.  
Authority for Requirement: DNR Construction Permit 13-A-110-S2

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 1.67 lb/hr.  
Authority for Requirement: DNR Construction Permit 13-A-110-S2

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The facility shall not produce more than 36,000 metric tons of fibersol per rolling 12-month period.
- B. The dryer shall be heated by natural gas only. The heat input to the dryer is 20.0 MMBTU/hr.
- C. The facility shall maintain the control devices per manufacturer's recommendations.
- D. The operators shall keep a log of the monthly fibersol production rate in metric tons and calculate the rolling 12-month totals.
- E. The baghouses and cyclones shall be maintained per manufacturer's recommendation.
- F. The owner or operator shall keep records of any maintenance work conducted on the cyclones and baghouses.

Authority for Requirement: DNR Construction Permit 13-A-110-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 104.75  
Stack Opening, (inches, dia.): 42  
Exhaust Flow Rate (scfm): 58,670  
Exhaust Temperature (°F): 125  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 13-A-110-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No   
*(Required on the two baghouses for PM & PM<sub>10</sub> emissions. See Appendix A for CAM Plan)*

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 136-4**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>       | <b>Control Equipment</b>   | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|--|----------------------------|---------------------|-----------------------|----------------------------|
| EU136-4              | No. 2 Fibersol Spray Dryer Storage Bin | Bin Vent Filters (CE136-4) | Fibersol            | 8,500 lbs/hr.         | 15-A-427-S1                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 15-A-427-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No Visible Emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.007 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-427-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.009 lb/hr.

Authority for Requirement: DNR Construction Permit 15-A-427-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-427-S1  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The C.P.E. bin vent filters (CE 136-4) shall be maintained per manufacturer’s recommendations.
- B. The owner or operator shall maintain records of maintenance performed on bin vent filter (CE 136-4) on site.

Authority for Requirement: DNR Construction Permit 15-A-427-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 100

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (scfm): 340

Exhaust Temperature (°F): 150

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 15-A-427-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

### Millhouse Process Equipment List

| Emission Point Number | Emission Unit Number            | Emission Unit Description                 | DNR Construction Permit Number |
|-----------------------|---------------------------------|---|--------------------------------|
| 1-63                  | EUA*                            | A Batch Steep Tank (Vents Inside)         | 05-A-609-S2                    |
|                       | EUB*                            | B Batch Steep Tank (Vents Inside)         |                                |
|                       | EUC*                            | C Batch Steep Tank (Vents Inside)         |                                |
|                       | EUD*                            | D Batch Steep Tank (Vents Inside)         |                                |
|                       | EU1-EU12*                       | Batch Steep Tanks (Vents Inside)          |                                |
|                       | EU13-EU28*                      | Batch Steep Tanks (Vents Inside)          |                                |
|                       | EU29- EU44                      | Batch Steep Tanks (Vents Inside)          |                                |
|                       | EU45-EU63                       | Batch Steep Tanks (Vents Inside)          |                                |
| 3-1                   | EU3-1                           | Steepwater Vapor Condensate Tank          | 05-A-576-S2                    |
| 3-2                   | EU3-2                           | Steepwater Vacuum Pump                    | 96-A-721-S2                    |
|                       | EU3-2A                          | S-8 Evaporator Vacuum Pump                |                                |
| 3-10                  | EU15-10                         | Wet Feed Silo                             | 06-A-036-S2                    |
| 4-1                   | EU4-1a                          | Corn Screens                              | 17-A-333-P1                    |
|                       | EU4-1b                          | Germ Wash Screens, 1 <sup>st</sup> Stage  |                                |
|                       | EU4-1c                          | Germ Wash Screens, 2 <sup>nd</sup> Stage  |                                |
|                       | EU4-1d                          | Germ Wash Screens, 3 <sup>rd</sup> Stage  |                                |
|                       | EU4-1e                          | 2 <sup>nd</sup> Grind Screens             |                                |
|                       | EU4-1f                          | 3rdGrind Mill Screens                     |                                |
|                       | EU4-1g                          | Fiber Wash Screens, 1 <sup>st</sup> Stage |                                |
|                       | EU4-1h                          | Fiber Wash Screens, 2 <sup>nd</sup> Stage |                                |
|                       | EU4-1i                          | Fiber Wash Screens, 3 <sup>rd</sup> Stage |                                |
|                       | EU4-1j                          | Fiber Wash Screens, 4 <sup>th</sup> Stage |                                |
|                       | EU4-1k                          | Fiber Wash Screens, 5 <sup>th</sup> Stage |                                |
|                       | EU4-1l                          | Fiber Wash Screens, 6 <sup>th</sup> Stage |                                |
|                       | EU4-1m                          | Fiber Wash Trough Set #1                  |                                |
|                       | EU4-1n                          | Fiber Wash Trough Set #2                  |                                |
|                       | EU4-1o                          | Fiber Wash Trough Set #3                  |                                |
|                       | EU4-1p                          | Fiber Wash Trough Set #4                  |                                |
|                       | EU4-1r                          | Steep Sluice Water Tank                   |                                |
|                       | EU4-1s                          | Wet Corn Hopper                           |                                |
|                       | EU4-1t                          | Process Water Tank                        |                                |
|                       | EU4-1u                          | Starch Wash Water Tank                    |                                |
|                       | EU4-1v                          | Starch Wash Feed Tank                     |                                |
|                       | EU4-1w                          | Starch Tank                               |                                |
|                       | EU4-1x                          | Primary Feed Tank                         |                                |
|                       | EU4-1y                          | Primary Wash Water Tank                   |                                |
|                       | EU4-1z                          | MST Feed Tank                             |                                |
|                       | EU4-1aa                         | MST Overflow Tank                         |                                |
|                       | EU4-1bb                         | Clarifier Feed Tank                       |                                |
|                       | EU4-1cc                         | GT Feed Tank                              |                                |
| EU4-1dd               | Heavy Gluten Tank               |   |                                |
| EU4-1ee               | GT Overflow Tank                |   |                                |
| EU4-1ff               | Separations Overflow Tank       |   |                                |
| EU4-1gg               | 1stGrind Tank                   |   |                                |
| EU4-1hh               | 1stGrind Mill Sluice Water Tank |   |                                |

| Emission Point Number | Emission Unit Number       | Emission Unit Description             | DNR Construction Permit Number |
|-----------------------|----------------------------|---------------------------------------|--------------------------------|
|                       | EU4-1ii                    | Germ Wash Tank                        |                                |
|                       | EU4-1jj                    | Germ Tank                             |                                |
|                       | EU4-1kk                    | 2 <sup>nd</sup> Grind Tank            |                                |
|                       | EU4-1ll                    | 3rdGrind Tank                         |                                |
|                       | EU4-1mm                    | Mill Overflow Tank                    |                                |
|                       | EU4-1nn                    | 1stStage Fiber Wash Tank              |                                |
|                       | EU4-1oo                    | 2ndStage Fiber Wash Tank              |                                |
|                       | EU4-1pp                    | Fiber Wash Water Tank                 |                                |
|                       | EU4-1qq                    | Sulfur Burner No. 1                   |                                |
|                       | EU4-1rr                    | Sulfur Burner No. 2                   |                                |
|                       | EU4-2g                     | Steepwater Heater Feed Tank           |                                |
|                       | EU4-2h                     | Vapor Condensate Tank                 |                                |
|                       | 4-2                        | EU4-2a                                |                                |
| EU4-2b                |                            | Batch Steep Wash Water Tank           |                                |
| EU4-2c                |                            | Continuous Steep Recirculation Tank   |                                |
| EU4-2d                |                            | Continuous Steep Wash Water Tank      |                                |
| EU4-2e                |                            | LSW Draw Tank                         |                                |
| EU4-2f                |                            | Steepwater Evaporator Vacuum Pump     |                                |
| EU7-16B1              |                            | Millwater II 2 Tank                   |                                |
| EU7-16N               |                            | Millwater III Tank                    |                                |
| 7-6                   | EUB-7                      | Building 7 – Wet Milling              | 90-A-068                       |
| 7-9                   |                            |                                       |                                |
| 7-10                  |                            |                                       |                                |
| 7-11                  |                            |                                       |                                |
| 7-12                  |                            |                                       |                                |
| 7-13                  |                            |                                       |                                |
| 7-14                  |                            |                                       |                                |
| 7-15                  |                            |                                       |                                |
| 7-17                  | EUB-7                      | Fugitive Emission - Corn Wet Milling  |                                |
| 7-16                  | EU7-16A                    | Millwater II Tank                     | 94-A-309-S4                    |
|                       | EU7-16B                    | Millwater I Tank                      |                                |
|                       | EU7-16C1                   | Millwater #1 Sulfur Burner            |                                |
|                       | EU7-16C1a                  | Millwater No. 1 Sulfur Burner LPG     |                                |
|                       | EU7-16C2                   | Millwater #2 Sulfur Burner            |                                |
|                       | EU7-16C2a                  | Millwater No. 2 Sulfur Burner LPG     |                                |
|                       | EU7-16D                    | Combined Fiber Tank                   |                                |
|                       | EU7-16E                    | Germ Tank                             |                                |
|                       | EU7-16F                    | 3 <sup>rd</sup> Stage Germ Water Tank |                                |
|                       | EU7-16H                    | MST Feed Tank                         |                                |
|                       | EU7-16I                    | Clarifier Feed Tank                   |                                |
|                       | EU7-16J                    | Dorr Clone Feed Tank                  |                                |
|                       | EU7-16L                    | Heavy Gluten Tank                     |                                |
|                       | EU7-16M                    | GT Feed Tank                          |                                |
|                       | EU7-16O                    | 1 <sup>st</sup> Stage Fiber Wash Tank |                                |
|                       | EU7-16P                    | 1 <sup>st</sup> Grind Tank            |                                |
| EU7-16Q               | 2 <sup>nd</sup> Grind Tank |                                       |                                |
| EU7-16R               | Primary Feed Tank          |                                       |                                |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>                       | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|--|---------------------------------------|
|                              | EU7-16S                     | 3 <sup>rd</sup> Grind Tank                             |                                       |
|                              | EU7-16T                     | 2 <sup>nd</sup> Stage Fiber Wash Tank                  |                                       |
|                              | EU7-16U                     | 3 <sup>rd</sup> Stage Fiber Wash Tank                  |                                       |
|                              | EU7-16V                     | 4 <sup>th</sup> Stage Fiber Wash Tank                  |                                       |
|                              | EU7-16W                     | 5 <sup>th</sup> Stage Fiber Wash Tank                  |                                       |
|                              | EU7-16X                     | 6 <sup>th</sup> Stage Fiber Wash Tank                  |                                       |
|                              | EU7-16Y                     | 2 <sup>nd</sup> & 3 <sup>rd</sup> Set Fiber Wash Tanks |                                       |
|                              | EU7-16Z                     | Corn Hopper  |                                       |
| 9-9                          | EUB-9                       | Building No. 9 Starch Separations                      | 90-A-069-S2                           |
| 9-10                         |                             |  |                                       |
| 9-11                         |                             |  |                                       |
| 9-12                         |                             |  |                                       |
| 9-13                         |                             |  |                                       |
| 9-13A                        |                             |  |                                       |
| 9-14                         |                             |  |                                       |
| 9-15                         |                             |  |                                       |
| 9-17                         |                             |  |                                       |
| 16-1                         | 16-1                        | #1 Continuous Steep Tank                               | 05-A-610                              |
|                              | 16-2                        | #2 Continuous Steep Tank                               |                                       |
|                              | 16-3                        | #3 Continuous Steep Tank                               |                                       |
|                              | 16-4                        | #4 Continuous Steep Tank                               |                                       |
|                              | 16-5                        | #5 Continuous Steep Tank                               |                                       |
|                              | 16-6                        | #6 Continuous Steep Tank                               |                                       |
|                              | 16-7                        | #7 Continuous Steep Tank                               |                                       |
|                              | 16-8                        | #8 Continuous Steep Tank                               |                                       |

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**Emission Point ID Number: 1-63\***

Associated Equipment

| <b>Emission Unit</b>            | <b>Emission Unit Description</b> | <b>Raw Material</b>  | <b>Rated Capacity</b>    | <b>Construction Permit</b> |
|---------------------------------|----------------------------------|----------------------|--------------------------|----------------------------|
| EUA, EUB, EUC, EUD and EU1-EU12 | Batch Steep Tanks <sup>(1)</sup> | Corn, Sulfurous Acid | 274 gpm each Steep House | 05-A-609-S2                |
| EU13-EU28                       | Batch Steep Tanks <sup>(1)</sup> | Corn, Sulfurous Acid | 274 gpm each Steep House |                            |
| EU29- EU44                      | Batch Steep Tanks C House        | Corn, Sulfurous Acid | 274 gpm each Steep House |                            |
| EU45-EU63                       | Batch Steep Tanks D House        | Corn, Sulfurous Acid | 274 gpm each Steep House |                            |

\*All equipment to be decommissioned for New Mill Project, whereby the new emission units associated with EP4-2 will be fully operational.

<sup>(1)</sup>These permitted emission units have been removed and were not included in the application but will remain until the construction permit has been modified or rescinded.

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-609-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of "No Visible Emission" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1gr/dscf

Authority for Requirement: DNR Construction Permit 05-A-609-S2  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-609-S2  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 2.83 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-609-S2

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height (ft., from the ground): NA – Indoor

Stack Opening (inches, dia.): NA – Indoor

Exhaust Flowrate (scfm): NA – Indoor

Exhaust Temperature (°F): 90

Discharge Style: NA – Indoor

Authority for Requirement: DNR Construction Permit 05-A-609-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 3-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EU3-1                | Steepwater Vapor Condensate Tank | Steepwater          | 2,500 gallons         | 05-A-576-S2                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.317 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-576-S2  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 6.85 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-576-S2

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Emission Point Character**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 56.9

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 775

Exhaust Temperature (°F): 190

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-576-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 3-2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EU3-2                | Steepwater Vacuum Pump           | Steepwater          | 84,000 gallons/hr     | 96-A-721-S2                |
| EU3-2A               | S-8 Evaporator Vacuum Pump       | Steepwater          | 84,000 gallons/hr     |                            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 96-A-721-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.65 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 96-A-721-S2  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 1.48 lb/hr.

Authority for Requirement: DNR Construction Permit 96-A-721-S2

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 43.3

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 1,250

Exhaust Temperature (°F): 90

Discharge Type: Horizontal

Authority for Requirement: DNR Construction Permit 96-A-721-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 3-10**Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment                          | Raw Material | Rated Capacity         | Construction Permit |
|---------------|---------------------------|--|--------------|------------------------|---------------------|
| EU15-10       | Wet Feed Silo             | CE3-10: Multivane SO <sub>2</sub> Scrubber | Feed         | 22,500 ft <sup>3</sup> | 06-A-036-S2         |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-036-S2  
567 IAC 23.3(2)"d")

<sup>(1)</sup>An exceedance of the indicator opacity of "No Visible Emission" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.28 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-036-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.28 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-036-S2  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.60 lb/hr, 500 ppmv

Authority for Requirement: DNR Construction Permit 06-A-036-S2  
567 IAC 23.3(3)

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 2.31 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-036-S2

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility, plant number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculate and record 12-month rolling totals.
2. The multivane scrubber, CE3-10, scrubbant flowrate shall be maintained at or above 33 gallons per minute.
  - A. The owner or operator shall properly operate and maintain equipment to continuously monitor the scrubbant flowrate. The monitoring devices and any recorders shall be installed, calibrate, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  - B. The owner or operator shall maintain a continuous record of the scrubbant flowrate, in gallons per minute. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
3. The multivane SO<sub>2</sub> scrubber, CE3-10, scrubbant pH shall be maintained at or above 7.0, in standard units.
  - A. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant pH. The monitoring devices and any recorders shall be installed, calibrated operated and maintain in accordance with the manufacturer's recommendations, instructions and operating manuals of per written facility specific operation and maintenance plan.
  - B. The owner or operator shall collect and record the pH of the scrubbant, in standard units, on a daily basis. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
4. The owner or operator shall maintain the control equipment and monitoring devices according to manufacturer's specifications and maintenance schedule or per written facility specific operation and maintenance plan.
  - A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 06-A-036-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 189.1  
Stack Opening, (inches, dia.): 24  
Exhaust Flow Rate (scfm): 8,990  
Exhaust Temperature (°F): 100  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 06-A-036-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant – VOC  
Stack Test to be Completed by – 9/21/2025  
Test Method - 40 CFR 63, Appendix A, Method 320 or  
40 CFR 60, Appendix A, Method 18  
Authority for Requirement – 567 IAC 22.108(3)

*The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 4-1**Associated Equipment

Control Equipment: CE4-1 - Wet Mill Process Units Scrubber

| <b>Emission Unit</b> | <b>Emission Unit Description</b>          | <b>Raw Material</b> | <b>Rated Capacity</b> |
|----------------------|---|---------------------|-----------------------|
| EU4-1a               | Corn Screens                              | Corn                | 95,000 bu/day         |
| EU4-1b               | Germ Wash Screens, 1 <sup>st</sup> Stage  | Corn Germ           | 63,333 bu/day         |
| EU4-1c               | Germ Wash Screens, 2 <sup>nd</sup> Stage  | Corn Germ           | 63,333 bu/day         |
| EU4-1d               | Germ Wash Screens, 3 <sup>rd</sup> Stage  | Corn Germ           | 63,333 bu/day         |
| EU4-1e               | 2 <sup>nd</sup> Grind Screens             | Corn                | 47,500 bu/day         |
| EU4-1f               | 3rdGrind Mill Screens                     | Corn                | 25,333 bu/day         |
| EU4-1g               | Fiber Wash Screens, 1 <sup>st</sup> Stage | Corn Fiber          | 15,833 bu/day         |
| EU4-1h               | Fiber Wash Screens, 2 <sup>nd</sup> Stage | Corn Fiber          | 31,667 bu/day         |
| EU4-1i               | Fiber Wash Screens, 3 <sup>rd</sup> Stage | Corn Fiber          | 31,667 bu/day         |
| EU4-1j               | Fiber Wash Screens, 4 <sup>th</sup> Stage | Corn Fiber          | 31,667 bu/day         |
| EU4-1k               | Fiber Wash Screens, 5 <sup>th</sup> Stage | Corn Fiber          | 31,667 bu/day         |
| EU4-1l               | Fiber Wash Screens, 6 <sup>th</sup> Stage | Corn Fiber          | 31,667 bu/day         |
| EU4-1m               | Fiber Wash Trough Set #1                  | Corn Fiber          | 31,000 gal            |
| EU4-1n               | Fiber Wash Trough Set #2                  | Corn Fiber          | 31,000 gal            |
| EU4-1o               | Fiber Wash Trough Set #3                  | Corn Fiber          | 31,000 gal            |
| EU4-1p               | Fiber Wash Trough Set #4                  | Corn Fiber          | 31,000 gal            |
| EU4-1r               | Steep Sluice Water Tank                   | Steepwater          | 46,000 gal            |
| EU4-1s               | Wet Corn Hopper                           | Wet Corn            | 108,000 gal           |
| EU4-1t               | Process Water Tank                        | Process water       | 167,000 gal           |
| EU4-1u               | Starch Wash Water Tank                    | Starch Wash Water   | 67,000 gal            |
| EU4-1v               | Starch Wash Feed Tank                     | Starch Water        | 167,000 gal           |
| EU4-1w               | Starch Tank                               | Starch Water        | 167,000 gal           |
| EU4-1x               | Primary Feed Tank                         | Starch Water        | 167,000 gal           |
| EU4-1y               | Primary Wash Water Tank                   | Wash Water          | 15,000 gal            |
| EU4-1z               | MST Feed Tank                             | Mill Starch         | 154,000 gal           |
| EU4-1aa              | MST Overflow Tank                         | Process Water       | 15,000 gal            |
| EU4-1bb              | Clarifier Feed Tank                       | Mill Starch         | 167,000 gal           |
| EU4-1cc              | GT Feed Tank                              | Gluten Thickener    | 85,000 gal            |
| EU4-1dd              | Heavy Gluten Tank                         | Heavy Gluten        | 15,000 gal            |
| EU4-1ee              | GT Overflow Tank                          | Process Water       | 15,000 gal            |
| EU4-1ff              | Separations Overflow Tank                 | Process Water       | 38,000 gal            |
| EU4-1gg              | 1stGrind Tank                             | Corn                | 122,000 gal           |
| EU4-1hh              | 1stGrind Mill Sluice Water Tank           | Process Water       | 32,500 gal            |
| EU4-1ii              | Germ Wash Tank                            | Corn Germ           | 17,000 gal            |
| EU4-1jj              | Germ Tank                                 | Corn Germ           | 47,000 gal            |
| EU4-1kk              | 2 <sup>nd</sup> Grind Tank                | Corn Germ           | 122,000 gal           |
| EU4-1ll              | 3rdGrind Tank                             | Corn Germ           | 122,000 gal           |

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|----------------------|----------------------------------|---------------------|-----------------------|
| EU4-1mm              | Mill Overflow Tank               | Steepwater          | 21,000 gal            |
| EU4-1nn              | 1stStage Fiber Wash Tank         | Corn Fiber          | 118,500 gal           |
| EU4-1oo              | 2ndStage Fiber Wash Tank         | Corn Fiber          | 118,500 gal           |
| EU4-1pp              | Fiber Wash Water Tank            | Corn Fiber          | 22,500 gal            |
| EU4-1qq              | Sulfur Burner No. 1              | Sulfur              | 8 ton/day             |
| EU4-1rr              | Sulfur Burner No. 2              | Sulfur              | 8 ton/day             |
| EU4-2g               | Steepwater Heater Feed Tank      | Steepwater          | 21,000 gallons        |
| EU4-2h               | Vapor Condensate Tank            | Condensate          | 21,000 gallons        |

DNR Construction Permit 17-A-333-P1

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 17-A-333-P1  
567 IAC 23.3(2) "d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.78 lb/hr., 3.29 tons/yr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 17-A-333-P1  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 6.9 lb/hr.<sup>(2)</sup>, 500ppmv, 90% reduction<sup>(3)</sup> or 15ppmv<sup>(4)</sup>

Authority for Requirement: DNR Construction Permit 17-A-333-P1  
567 IAC 23.3(3) "e"

Pollutant: VOC's

Emission Limit(s): 80% Reduction<sup>(5)</sup> or 20ppmv<sup>(6)</sup>

Authority for Requirement: DNR Construction Permit 17-A-333-P1

Pollutant: Acetaldehyde

Emission Limit(s): 1.13 lb/hr.<sup>(2)</sup>, 4.95 tons/yr

Authority for Requirement: DNR Construction Permit 17-A-333-P1

Pollutant: Total HAP

Emission Limit(s): 2.2 lb/hr.<sup>(2)</sup>, 9.64 tons/yr

Authority for Requirement: DNR Construction Permit 17-A-333-P1

<sup>(2)</sup> Standard applies at all times except as noted in Operations Limits & Reporting/Record keeping Requirements listed below

<sup>(3)</sup>The limit applies across the scrubber, CE 4-1, when inlet SO<sub>2</sub> concentration is over 150 ppm<sub>v</sub>

<sup>(4)</sup>The limit applies to the outlet of the scrubber, CE 4-1, when inlet SO<sub>2</sub> concentration is equal to or less than 150ppm<sub>v</sub>

<sup>(5)</sup> The limit applies across the scrubber, CE 4-1, when inlet VOC concentration is over 100 ppm<sub>v</sub>

<sup>(6)</sup> The limit applies to the outlet of the scrubber, CE 4-1, when inlet VOC concentration is equal to or less than 100 ppm<sub>v</sub>

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The control equipment, scrubber CE 4-1, shall be operated at all times any of the equipment controlled by the device is in operation except that emissions associated with this emission point may bypass scrubber CE 4-1 under the following conditions:
  - A. Work practices will be utilized in order to minimize emissions including reductions in the grind rate and reducing or shutting down the sulfur burners firing rates.
  - B. Scrubber bypass shall not exceed 24 hours per calendar year.
  - C. At no time shall SO<sub>2</sub> emissions exceed 97.0 lb/hr or 500 ppm per 567 IAC 23.3(3)“e”.
  - D. At no time shall VOC emissions exceed 25.0 lb/hr.
2. The scrubber, CE 4-1, water flowrate shall be maintained at or above 1400 gallons per minute. After the initial stack test is completed, the water flowrate shall be maintained at or above 90% of the average rate measured during the most recent stack test that showed compliance with the emission limits listed above.
3. An alarm shall be installed which will alert the operator whenever the flowrate drops below the minimum allowed.
4. After the initial stack test is completed, the freshwater flowrate shall be maintained at or above 90% of the average rate measured during the most recent stack test that showed compliance with the emission limits in condition 1. During the commissioning phases of the emission units associated with EP 4- 1 (Phase 1 = 25%, Phase 2 = 50%, Phase 3 = 75%, Phase 4 = 100% capacity), the freshwater flowrate shall be operated at the same rate, in percentage, as the corresponding rate in production from emission units associated with EP 4-1.
5. After the full production is achieved for emission units associated with EP 4-1, the freshwater flowrate shall be maintained at or above 90% of the average rate measured during the most recent stack test conducted at full capacity that showed compliance with the emission limits listed above.
6. The owner or operator shall properly operate and maintain equipment to continuously monitor the water flowrate and freshwater feed flowrate for CE 4-1 a minimum of once per 15 minutes, and record the average per 8-hour period. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer’s recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan. This requirement shall not apply on the days that the equipment that the scrubber is not in operation.
7. Measured operating levels outside the permitted operating range will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment

associated with the period of excursion. If the period of excursion continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

8. The owner or operator shall permanently shut down all equipment vented to emission point EP 7-16, except sulfur burners #1 and #2, by December 31, 2023.
  - A. The owner or operator shall submit a written report within 30 days of the date that all equipment vented to emission point EP 7-16 is permanently shut down.
9. The owner or operator shall operate, inspect, and maintain the control equipment according to manufacturer's specifications.
10. During periods of startup, shutdown or malfunction, the operator shall take steps to minimize emissions, including but not limited to decreasing throughput, limiting raw materials or shutting down emission units. The owner or operator shall maintain a record of actions taken during these occurrences. Excess emissions are subject to the requirements in condition 11 of the construction permit.
11. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 17-A-333-P1

#### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 160

Stack Opening, (inches, dia.): 54

Exhaust Flow Rate (scfm): 46,185

Exhaust Temperature (°F): 94

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 17-A-333-P1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

## **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

### **Stack Testing:**

Pollutant - PM

1<sup>st</sup> Stack Test to be Completed by (date) – Within 90 days of the start of operation of the first transitional phase.

2<sup>nd</sup> Stack Test to be Completed by (date) – Within 90 days of the completion of the project.

Test Method - 40 CFR 60, Appendix A, Method 5

40 CFR 51 Appendix M Method 202

Authority for Requirement: DNR Construction Permit 17-A-333-P1

Pollutant – SO<sub>2</sub>

1<sup>st</sup> Stack Test to be Completed by (date) – Within 90 days of the start of operation of the first transitional phase.

2<sup>nd</sup> Stack Test to be Completed by (date) - Within 90 days of the completion of the project and every three calendar years after the completion of the project.

Test Method - 40 CFR 60, Appendix A, Method 6C

Authority for Requirement: DNR Construction Permit 17-A-333-P1

Pollutant – VOC

1<sup>st</sup> Stack Test to be Completed - 2/24/2022

2<sup>nd</sup> Stack Test to be Completed by (date) - Within 90 days of the completion of the project.

Test Method - 40 CFR 63, Appendix A, Method 320 or

40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 17-A-333-P1

Pollutant – Acetaldehyde

1<sup>st</sup> Stack Test to be Completed by (date) – Within 90 days of the start of operation of the first transitional phase.

2<sup>nd</sup> Stack Test to be Completed by (date) – Within 90 days of the completion of the project.

Test Method - 40 CFR 63, Appendix A, Method 320 or

40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 17-A-333-P1

Pollutant – Total HAP

1<sup>st</sup> Stack Test to be Completed by (date) – Within 90 days of the start of operation of the first transitional phase.

2<sup>nd</sup> Stack Test to be Completed by (date) – Within 90 days of the completion of the project.

Test Method - 40 CFR 63, Appendix A, Method 320 or

40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 17-A-333-P1

*The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**

Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**

Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Number: 4-2

### Associated Equipment

Control Equipment: CE4-2 Wet Scrubber

| Emission Unit | Emission Unit Description           | Raw Material         | Rated Capacity  | Construction Permit |
|---------------|-------------------------------------|----------------------|-----------------|---------------------|
| EU4-2a        | 22 Batch Steep Tanks                | Corn, Sulfurous Acid | 218,000 gallons | 17-A-334-P2         |
| EU4-2b        | Batch Steep Wash Water Tank         | Steepwater           | 167,000 gallons |                     |
| EU4-2c        | Continuous Steep Recirculation Tank | Steepwater           | 51,500 gallons  |                     |
| EU4-2d        | Continuous Steep Wash Water Tank    | Steepwater           | 51,500 gallons  |                     |
| EU4-2e        | LSW Draw Tank                       | Light Steepwater     | 47,000 gallons  |                     |
| EU4-2f        | Steepwater Evaporator Vacuum Pump   | Steepwater           | N/A             |                     |
| EU7-16B1*     | Millwater II 2 Tank                 | Sulfurous Acid       | 14,700 gallons  |                     |
| EU7-16N*      | Millwater III Tank                  | Sulfurous Acid       | 28,000 gallons  |                     |

\*Scheduled to be removed from service following the transition of operations from old mill to new mill outlined in project 22-274.

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## Applicable Requirements

### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 17-A-334-P2  
567 IAC 23.3(2) "d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.15 lb/hr.<sup>(2)</sup>, 0.66 tons/yr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 17-A-334-P2  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.4 lb/hr.<sup>(2)</sup>, 500ppmv, 90% reduction<sup>(3)</sup> or 15ppmv<sup>(4)</sup>

Authority for Requirement: DNR Construction Permit 17-A-334-P2  
567 IAC 23.3(3) "e"

Pollutant: VOC's

Emission Limit(s): 80% Reduction<sup>(5)</sup> or 20ppmv<sup>(6)</sup>

Authority for Requirement: DNR Construction Permit 17-A-334-P2  
ppmv

Pollutant: Acetaldehyde

Emission Limit(s): 0.35 lb/hr.<sup>(2)</sup>, 1.53 tons/yr

Authority for Requirement: DNR Construction Permit 17-A-334-P2

Pollutant: Total HAP

Emission Limit(s): 0.66 lb/hr.<sup>(2)</sup>, 2.89 tons/yr

Authority for Requirement: DNR Construction Permit 17-A-334-P2

<sup>(2)</sup> Standard applies at all times except as noted in Operations Limits & Reporting/Record keeping Requirements listed below

<sup>(3)</sup>The limit applies across the scrubber, CE 4-2, when inlet SO<sub>2</sub> concentration is over 150 ppm<sub>v</sub>

<sup>(4)</sup>The limit applies to the outlet of the scrubber, CE 4-2, when inlet SO<sub>2</sub> concentration is equal to or less than 150ppm<sub>v</sub>

<sup>(5)</sup>The limit applies across the scrubber, CE 4-2, when inlet VOC concentration is over 100 ppm<sub>v</sub>

<sup>(6)</sup>The limit applies to the outlet of the scrubber, CE 4-2, when inlet VOC concentration is equal to or less than 100

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The control equipment, scrubber CE 4-2, shall be operated at all times any of the equipment controlled by the device is in operation except that emissions associated with this emission point may bypass scrubber CE 4-2 under the following conditions:
  - A. Work practices will be utilized in order to minimize emissions including reductions in the grind rate and reducing or shutting down the sulfur burners firing rates.
  - B. Scrubber bypass shall not exceed 24 hours per calendar year.
  - C. At no time shall SO<sub>2</sub> emissions exceed 97.0 lb/hr or 500 ppm per 567 IAC 23.3(3)“e”.
  - D. At no time shall VOC emissions exceed 25.0 lb/hr.
2. The scrubber, CE 4-2, water flowrate shall be maintained at or above 250 gallons per minute. After the initial stack test is completed, the water flowrate shall be maintained at or above 90% of the average rate measured during the most recent stack test that showed compliance with the emission limits listed above.
3. An alarm shall be installed which will alert the operator whenever the flowrate drops below the minimum allowed.
4. The scrubber, CE 4-2, freshwater feed flowrate shall be maintained at or above 100 gallons per minute. After the initial stack test is completed, the freshwater flowrate shall be maintained at or above 90% of the average rate measured during the most recent stack test that showed compliance with the emission limits listed above.
5. The owner or operator shall properly operate and maintain equipment to continuously monitor the water flowrate and freshwater feed flowrate for CE 4-2 a minimum of once per 15 minutes, and record the average per 8-hour period. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan. This requirement shall not apply on the days that the equipment that the scrubber is not in operation.

6. Measured operating levels outside the permitted operating range will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the period of excursion. If the period of excursion continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).
  7. The owner or operator shall operate, inspect, and maintain the control equipment according to manufacturer's specifications.
  8. During periods of startup, shutdown or malfunction, the operator shall take steps to minimize emissions, including but not limited to decreasing throughput, limiting raw materials or shutting down emission units. The owner or operator shall maintain a record of actions taken during these occurrences. Excess emissions are subject to the requirements in condition 11 in the construction permit.
  9. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection/maintenance of the control equipment and the monitoring devices.
  10. Tank EU4-2d shall not be "in service" at the same time as Tank EU7-16B1 "In service" does not include commissioning time, and shall begin as of the date of the start of operation notification for Tank EU4-2d
  11. Tank EU 4-2c shall not be "in service" at the same time as Tank EU 7-16N. "In service" does not include commissioning time, and shall begin as of the date of the start of operation notification for Tank EU 4-2c.
  12. The owner or operator shall record the start and end dates for the use of Tanks EU 7-16N and EU 7-16B1 in this unit, and the startup dates for Tanks EU 4-2c and EU 4-2d.
- Authority for Requirement: DNR Construction Permit 17-A-334-P2

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 160

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 9,237

Exhaust Temperature (°F): 94

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 17-A-334-P2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant - PM

1<sup>st</sup> Stack Test Completed – 02/08/2022

2<sup>nd</sup> Stack Test to be Completed by (date) – Within 90 days of the completion of the project.

Test Method - 40 CFR 60, Appendix A, Method 5

40 CFR 51 Appendix M Method 202

Authority for Requirement: DNR Construction Permit 17-A-334-P2

Pollutant – SO<sub>2</sub>

1<sup>st</sup> Stack Test Completed – 06/16/2021

2<sup>nd</sup> Stack Test to be Completed by (date) - Within 90 days of the completion of the project and every three calendar years after the completion of the project.

Test Method - 40 CFR 60, Appendix A, Method 6C

Authority for Requirement: DNR Construction Permit 17-A-334-P2

Pollutant – VOC

1<sup>st</sup> Stack Test Completed – 06/16/2021

2<sup>nd</sup> Stack Test to be Completed by (date) - Within 90 days of the completion of the project.

Test Method - 40 CFR 63, Appendix A, Method 320 or

40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 17-A-334-P2

Pollutant – Acetaldehyde

1<sup>st</sup> Stack Test Completed – 06/16/2021

2<sup>nd</sup> Stack Test to be Completed by (date) – Within 90 days of the completion of the project.

Test Method - 40 CFR 63, Appendix A, Method 320 or

40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 17-A-334-P2

Pollutant – Total HAP

1<sup>st</sup> Stack Test Completed – 06/16/2021

2<sup>nd</sup> Stack Test to be Completed by (date) – Within 90 days of the completion of the project.

Test Method - 40 CFR 63, Appendix A, Method 320 or

40 CFR 60, Appendix A, Method 18

Authority for Requirement: DNR Construction Permit 17-A-334-P2

*The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: 7-6, 7-9, 7-10, 7-11, 7-12, 7-13, 7-14, 7-15, 7-17**

Associated Equipment

| Emission Unit | Emission Unit Description | Raw Material                 | Rated Capacity | Construction Permit |
|---------------|---------------------------|------------------------------|----------------|---------------------|
| EUB-7         | Building 7 – Wet Milling  | Non-Captured SO <sub>2</sub> | NA             | 90-A-068            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

| Emission Point | Sulfur Dioxide (SO <sub>2</sub> ) |          |
|----------------|-----------------------------------|----------|
| 7-6            | 1.375 lb/hr                       | 500 ppmv |
| 7-9            |                                   |          |
| 7-10           |                                   |          |
| 7-11           |                                   |          |
| 7-12           |                                   |          |
| 7-13           |                                   |          |
| 7-14           |                                   |          |
| 7-15           |                                   |          |
| 7-17           |                                   |          |

As reported in TV application

Authority for Requirement: DNR Construction Permit 90-A-068  
567 IAC 23.3(3)"e"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for these emission points are not required at this time.

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height<br/>(feet, from the ground)</b> | <b>Stack Opening<br/>(feet, dia)</b> |
|-----------------------|---|--------------------------------------|
| 7-6                   | 79.3  | 2.33                                 |
| 7-9                   | 9.7   | 2.67                                 |
| 7-10                  | 22.8  | 2.67                                 |
| 7-11                  | 34.8  | 2.50                                 |
| 7-12                  | 35.7  | 5.00                                 |
| 7-13                  | 46.8  | 4.50                                 |
| 7-14                  | 58.9  | 4.50                                 |
| 7-15                  | 69.9  | 2.66                                 |
| 7-17                  | 21.3  | 4.50                                 |

As reported in TV application

Authority for Requirement: DNR Construction Permit 90-A-068

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 7-16**

Associated Equipment

| Emission Unit | Emission Unit Description                          | Control Equipment                   | Raw Material       | Rated Capacity |
|---------------|--|-------------------------------------|--------------------|----------------|
| EU7-16A       | Millwater I Tank                                   | CE7-16:<br>SO <sub>2</sub> Scrubber | Sulfurous acid     | 91,000 gal     |
| EU7-16B       | Millwater II Tank                                  |                                     | Sulfurous acid     | 91,000 gal     |
| EU7-16C1      | #1 Sulfur Burner                                   |                                     | Sulfur             | 8 tpd          |
| EU7-16C1a     | #1 Sulfur Burner LPG Burner                        |                                     | Natural gas or LPG | 3.5 MMBtu/h    |
| EU7-16C2      | #2 Sulfur Burner                                   |                                     | Sulfur             | 8 tpd          |
| EU7-16C2a     | #2 Sulfur Burner LPG Burner                        |                                     | Natural gas or LPG | 3.5 MMBtu/h    |
| EU7-16D       | Combined Fiber Tank                                |                                     | Fiber              | 5,200 gal      |
| EU7-16E       | Germ Tank  |                                     | Germ               | 2,250 gal      |
| EU7-16F       | 3 <sup>rd</sup> Stage Germ Water Tank              |                                     | Germ               | 1,270 gal      |
| EU7-16H       | MST Feed Tank                                      |                                     | Starch             | 40,800 gal     |
| EU7-16I       | Clarifier Feed Tank                                |                                     | Starch             | 39,375 gal     |
| EU7-16J       | Dorr Clone Feed Tank                               |                                     | Starch             | 39,375 gal     |
| EU7-16L       | Heavy Gluten Tank                                  |                                     | Gluten             | 5,300 gal      |
| EU7-16M       | G T Feed Tank                                      |                                     | Gluten             | 39,375 gal     |
| EU7-16O       | 1 <sup>st</sup> Stage Fiber Wash Tank              |                                     | Fiber              | 15,200 gal     |
| EU7-16P       | 1 <sup>st</sup> Grind Tank                         |                                     | Corn               | 28,300 gal     |
| EU7-16Q       | 2 <sup>nd</sup> Grind Tank                         |                                     | Corn               | 18,800 gal     |
| EU7-16R       | Primary Feed Tank                                  |                                     | Starch             | 39,375 gal     |
| EU7-16S       | 3 <sup>rd</sup> Grind Tank                         |                                     | Corn               | 28,300 gal     |
| EU7-16T       | 2 <sup>nd</sup> Stage Fiber Wash Tank              |                                     | Fiber              | 3,825 gal      |
| EU7-16U       | 3 <sup>rd</sup> Stage Fiber Wash Tank              | Fiber                               | 3,825 gal          |                |
| EU7-16V       | 4 <sup>th</sup> Stage Fiber Wash Tank              | Fiber                               | 3,825 gal          |                |
| EU7-16W       | 5 <sup>th</sup> Stage Fiber Wash Tank              | Fiber                               | 3,825 gal          |                |
| EU7-16X       | 6 <sup>th</sup> Stage Fiber Wash Tank              | Fiber                               | 3,825 gal          |                |
| EU7-16Y       | 2 <sup>nd</sup> and 3 <sup>rd</sup> Set Fiber Wash | Fiber                               | 20,040 gal (total) |                |
| EU7-16Z       | Corn Hopper  | Corn                                | 16,600 bu          |                |

DNR Construction Permit 94-A-309-S4

## Applicable Requirements

### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-309-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.3 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-309-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.3 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-309-S4  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 7.4 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 94-A-309-S4  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 95% control or 20 ppmv<sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 94-A-309-S4

<sup>(2)</sup> Limit required on the emissions from the Millhouse Scrubber per the consent decree entered into between the United States and ADM [Civil Action 03-2066, United States District Court for the Central District of Illinois (August 21, 2003)].

### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The amount of sulfur burned by the sulfur burners (EU 7-16C1 and EU 7-16C2) shall not exceed 8 tons per day combined.
  - A. The facility shall record each day the amount of sulfur burned in the combination of sulfur burners (EU 7-16C1 and EU-7 16C2).
2. The fuel used in the sulfur burner LPG burner (EU 7-16C1a and EU 7-16C2a) is limited to natural gas or liquefied petroleum gas (LPG).
  - A. The facility shall record the type of fuel burned in the sulfur burners LPG burner (EU 7-16C1 and EU-7 16C2).
3. Per the consent decree entered into between the United States and ADM [Civil Action 03-2066, United States District Court for the Central District of Illinois (August 21, 2003)], the VOC

Scrubber, CE7-16a, scrubbant flowrate shall be maintained at greater than 250 gallons per minute and pressure drop shall be maintained at greater than or equal to 0.3 inches of water column.

A. The facility (Plant Number 23-01-006) shall monitor and record scrubbant flowrate and pressure drop for the VOC Scrubber, CE7-16a, once per day per the consent decree entered into between the United States and ADM [Civil Action 03-2066, United States District Court for the Central District of Illinois (August 21, 2003)].

4. The VOC Scrubber, CE7-16a, scrubbant pH shall be maintained at or above 6.8, measured in standard units.

A. The owner or operator shall properly operate and maintain equipment to periodically monitor the scrubbant pH for VOC Scrubber, CE7-16a. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.

B. The owner or operator shall collect and record the pH of the scrubbant for VOC Scrubber, CE7-16a, in standard units, at least once per day. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.

5. The SO<sub>2</sub> Scrubber, CE7-16, scrubbant flowrate shall be maintained at or above 150 gallons per minute.

A. The owner or operator shall properly operate and maintain equipment to periodically monitor the scrubbant flowrate for SO<sub>2</sub> Scrubber, CE7-16. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.

B. The owner or operator shall collect and record the scrubbant flowrate for SO<sub>2</sub> Scrubber, CE7-16, in gallons per minute, at least once per day. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.

6. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 94-A-309-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 132.7

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 35,000

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-309-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Numbers: 9-9, 9-10, 9-11, 9-12, 9-13, 9-13A, 9-14, 9-15, 9-17**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b>          | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|------------------------------|-----------------------|----------------------------|
| EUB-9                | Building 9 – Starch Separation   | Non-Captured SO <sub>2</sub> | NA                    | 90-A-069-S1                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.91 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 90-A-069-S1  
567 IAC 23.3(3)"e"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for these emission points are not required at this time.

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

| <b>EP</b> | <b>Stack Height,<br/>(ft, from the<br/>ground)</b> | <b>Stack<br/>Opening,<br/>(inches, dia.)</b> | <b>Exhaust<br/>Flow<br/>Rate (scfm)</b> | <b>Exhaust<br/>Temperature<br/>(°F)</b> | <b>Discharge<br/>Style</b> |
|-----------|--|--|---|---|----------------------------|
| 9-9       | 45   | 36   | 20,265                                  | 80                                      | Horizontal                 |
| 9-10      | 45   | 36   | 20,265                                  | 80                                      | Horizontal                 |
| 9-11      | 45   | 36   | 20,265                                  | 80                                      | Horizontal                 |
| 9-12      | 45   | 36   | 20,265                                  | 80                                      | Horizontal                 |
| 9-13      | 80   | 60   | 20,265                                  | 80                                      | Horizontal                 |
| 9-13A     | 80   | 60   | 20,265                                  | 80                                      | Horizontal                 |
| 9-14      | 57.5   | 36   | 20,265                                  | 80                                      | Horizontal                 |
| 9-15      | 55   | 48   | 20,265                                  | 80                                      | Horizontal                 |
| 9-17      | 69   | 36   | 20,265                                  | 80                                      | Horizontal                 |

Authority for Requirement: DNR Construction Permit 90-A-069-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 16-1 (Fugitive)**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| 16-1                 | #1 Continuous Steep Tank         | Steepwater          | 680<br>gallons/min.   | 05-A-610                   |
| 16-2                 | #2 Continuous Steep Tank         | Steepwater          |                       |                            |
| 16-3                 | #3 Continuous Steep Tank         | Steepwater          |                       |                            |
| 16-4                 | #4 Continuous Steep Tank         | Steepwater          |                       |                            |
| 16-5                 | #5 Continuous Steep Tank         | Steepwater          |                       |                            |
| 16-6                 | #6 Continuous Steep Tank         | Steepwater          |                       |                            |
| 16-7                 | #7 Continuous Steep Tank         | Steepwater          |                       |                            |
| 16-8                 | #8 Continuous Steep Tank         | Steepwater          |                       |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-610  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.45 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-610  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 1.57 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-610

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): NA - Fugitive
- Stack Opening, (inches, dia.): NA - Fugitive
- Exhaust Flow Rate (scfm): NA - Fugitive
- Exhaust Temperature (°F): 90
- Discharge Style: NA - Fugitive
- Authority for Requirement: DNR Construction Permit 05-A-610

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

- Agency Approved Operation & Maintenance Plan Required?**                      Yes  No
- Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No
- Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

### Oilhouse Process Equipment List

| <b>Emission Point Number</b> | <b>Emission Unit Number</b>            | <b>Emission Unit Description</b>     | <b>DNR Construction Permit Number</b> |
|------------------------------|--|--------------------------------------|---------------------------------------|
| 217-17                       | EU217-17                               | Bulk Bleach Clay Silo                | 94-A-284-S1                           |
| 36-19                        | EU36-19A                               | D.T. Dryer                           | 94-A-282-S13                          |
|                              | EU36-19B                               | D.T. Cooler                          |                                       |
|                              | EU36-19D                               | #1 Flaking Roll                      |                                       |
|                              | EU36-19E                               | #2 Flaking Roll                      |                                       |
|                              | EU36-19F                               | #3 Flaking Roll                      |                                       |
|                              | EU36-19G                               | #4 Flaking Roll                      |                                       |
|                              | EU36-19H                               | #5 Flaking Roll                      |                                       |
|                              | EU36-19I                               | #6 Flaking Roll                      |                                       |
|                              | EU36-19J                               | #7 Flaking Roll                      |                                       |
|                              | EU36-19K                               | #8 Flaking Roll                      |                                       |
|                              | EU36-19L                               | #9 Flaking Roll                      |                                       |
|                              | EU36-19M                               | #10 Flaking Roll                     |                                       |
|                              | EU36-19N                               | #2 Expander                          |                                       |
|                              | EU36-19O                               | #3 Expander                          |                                       |
| EU36-19P                     | Aspirator                              |                                      |                                       |
| EU36-27                      | Aspiration Cyclone (to be constructed) |                                      |                                       |
| 36-20                        | EU36-20a                               | No. 1 Germ Conditioner Dryer         | 94-A-283-S9                           |
|                              | EU36-20b                               | No. 2 Germ Conditioner Dryer         |                                       |
|                              | EU36-20c                               | Germ Cooler                          |                                       |
|                              | EU36-20h                               | #1 Expeller                          |                                       |
|                              | EU36-20i                               | #2 Expeller                          |                                       |
|                              | EU36-20j                               | #3 Expeller                          |                                       |
|                              | EU36-20k                               | #4 Expeller                          |                                       |
|                              | EU36-20l                               | #5 Expeller                          |                                       |
|                              | EU36-20o                               | #8 Expeller                          |                                       |
|                              | EU36-20p                               | #9 Expeller                          |                                       |
|                              | EU36-20q                               | #10 Expeller                         |                                       |
|                              | EU36-20r                               | #11 Expeller                         |                                       |
|                              | EU36-20s                               | #12 Expeller                         |                                       |
|                              | EU36-20t                               | 1-5 Expelled Cake Conveyor           |                                       |
|                              | EU36-20u                               | 1-4 Sharple Cake Conveyor            |                                       |
|                              | EU36-20v                               | No. 1 Sharple Tank                   |                                       |
| EU36-20w                     | 8-12 Expelled Cake Conveyor            |                                      |                                       |
| 36-21                        | EU36-21                                | Pneumatic Clay Transport to Day Bins | 94-A-285-S1                           |
| 36-22                        | EU36-22                                | Filter Aid Pneumatic Transport       | 94-A-286-S1                           |
| 36-25                        | EU36-25                                | Geka Oil Refining Steam Boiler       | NA                                    |
| 57-1                         | EU57-1C                                | No. 3 Germ Storage Silo              | 06-A-049-S3                           |
|                              | EU57-1D                                | No. 4 Germ Storage Silo              |                                       |
|                              | EU57-1E                                | No. 5 Germ Storage Silo              |                                       |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b> | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|----------------------------------|---------------------------------------|
| 66-1                         | EU66-1                      | Desolventizer Toaster            | 95-A-203-S5                           |
|                              | EU66-2*                     | Extractor Unit                   |                                       |
|                              | EU66-6                      | Extractor Unit                   |                                       |
|                              | EU66-3*                     | Hexane Storage Tank              |                                       |
|                              | EU66-7                      | Hexane Storage Tank              |                                       |
|                              | EU66-4                      | Vent Condenser                   |                                       |
|                              | EU66-5                      | Final Vent Condenser             |                                       |
| 66-F1                        | EU66-F1                     | Solvent Extraction Fugitives     | NA                                    |
| 98-2                         | EU98-2                      | Feed House Germ Transport        | 94-A-291-S4                           |

\*Scheduled to be replaced by identical emission units EU66-6 and EU66-7 at the completion of construction project 21-203.

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**Emission Point ID Number: 217-17**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Pemrit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU217-17             | Clay Transport                   | CE217-17: Baghouse       | Clay                | 26,250 lbs./hr.       | 94-A-284-S1                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-284-1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.06 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-248-S1  
567 IAC 23.3(2)"a"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE217-17) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE217-17).

Authority for Requirement: DNR Construction Permit 94-A-284-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 69.6
- Stack Opening, (inches. dia.): 30.8
- Exhaust Flow Rate (scfm): 500
- Exhaust Temperature (°F): Ambient
- Discharge Style: Downward
- Authority for Requirement: DNR Construction Permit 94-A-284-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

- Agency Approved Operation & Maintenance Plan Required?**      Yes  No
- Facility Maintained Operation & Maintenance Plan Required?**      Yes  No
- Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 36-19**

Associated Equipment

Control Equipment ID: CE36-19 – Oilhouse Scrubber

| Emission Unit | Emission Unit Description | Other Control Equipment    | Raw Material   | Rated Capacity | Construction Permit |
|---------------|---------------------------|----------------------------|----------------|----------------|---------------------|
| EU36-19A      | D.T. Dryer (2 Decks)      | CE36-19A:<br>Wet Scrubber  | Corn Germ Meal | 1,200 tons/day | 94-A-282-S13        |
| EU36-19B      | D.T. Cooler               |                            | Corn Germ Meal | 1,200 tons/day |                     |
| EU36-19D      | #1 Flaking Roll           | CE36-19B1:<br>Cyclone      | Corn Germ      | 380 tons/day   |                     |
| EU36-19E      | #2 Flaking Roll           |                            | Corn Germ      | 380 tons/day   |                     |
| EU36-19F      | #3 Flaking Roll           |                            | Corn Germ      | 380 tons/day   |                     |
| EU36-19G      | #4 Flaking Roll           |                            | Corn Germ      | 380 tons/day   |                     |
| EU36-19H      | #5 Flaking Roll           |                            | Corn Germ      | 380 tons/day   |                     |
| EU36-19I      | #6 Flaking Roll           |                            | Corn Germ      | 380 tons/day   |                     |
| EU36-19J      | #7 Flaking Roll           |                            | Corn Germ      | 380 tons/day   |                     |
| EU36-19K      | #8 Flaking Roll           | CE36-19B2:<br>Wet Scrubber | Corn Germ      | 380 tons/day   |                     |
| EU36-19L      | #9 Flaking Roll           |                            | Corn Germ      | 380 tons/day   |                     |
| EU36-19M      | #10 Flaking Roll          |                            | Corn Germ      | 380 tons/day   |                     |
| EU36-19N      | #2 Expander               |                            | Corn Germ      | 500 tons/day   |                     |
| EU36-19O      | #3 Expander               |                            | Corn Germ      | 500 tons/day   |                     |
| EU36-19P      | Aspirator                 |                            | Corn Germ      | 2,000 tons/day |                     |
| EU36-27       | Aspirator Cyclone         |                            | Corn Germ      | 2,200 ton/day  |                     |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-282-S13  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.20 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-282-S13

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 1.20 lb/hr., 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 94-A-282-S13  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 1.47 lb/hr., 500 ppmv  
Authority for Requirement: DNR Construction Permit 94-A-282-S13  
567 IAC 23.3(3)"e"

Pollutant: VOC's  
Emission Limit(s): 16.46 lb/hr., 372.32 tons/yr<sup>(2)</sup>., 0.30 gal/ton<sup>(3)</sup>  
Authority for Requirement: DNR Construction Permit 94-A-282-S13  
<sup>(2)</sup>Emission limit established for #1 Oilhouse (EP 36-19), #2 Oilhouse (EP 36-20) and Mineral Oil System (EP 66-1)

Pollutant: Total HAP  
Emission Limit(s): 0.30 gal/ton<sup>(3)</sup>  
Authority for Requirement: DNR Construction Permit 94-A-282-S13  
567 IAC 23.1(4)"cg"  
40 CFR 63 Subpart GGGG

<sup>(3)</sup> This facility (Plant Number 23-01-006) is subject to the existing affected source requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart GGGG – Solvent Extraction of Vegetable Oil Production (40 CFR §63.2830 through 40 CFR §63.2872). However per the consent decree entered into between the United States and ADM [Civil Action 03-2066, United States District Court for the Central District of Illinois (August 21, 2003)], ADM is required to meet a solvent loss factor of 0.30 gallons per ton of corn germ.

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility (Plant Number 23-01-006) shall not process more than 730,000 tons of corn germ in the oilhouse per rolling 12-month period.
2. The owner or operator shall develop and implement a plan for demonstrating compliance in accordance with the provisions in 40 CFR §63.2851.
3. The total liquor feed rate to the scrubber (CE 36-19) shall be maintained at or above the average value observed during the most recent stack test which demonstrated compliance with all applicable standards.
4. The pH of the liquor feed into the scrubber (CE 36-19) shall be maintained at or above the average value observed during the most recent stack test which demonstrated compliance with all applicable standards.
5. The pressure drop across the scrubber (CE 36-19) shall be maintained in the range of 2.5 to 12 inches of water during all times of normal operation. Normal operation does not include periods of time involving startup, shutdown or malfunction. However, normal operation can include annual periods of packing replacement when the dP will temporarily operate below 2.5 until equilibrium is reached across the packing material.
6. The total water feed rate to the scrubber (CE 36-19a) shall be maintained at or above the average value observed during the most recent stack test which demonstrated compliance with all

- applicable standards.
7. The total liquor feed rate to the scrubber (CE 36-19b2) shall be maintained at or above the average value observed during the most recent stack test which demonstrated compliance with all applicable standards.
  8. The pH of the liquor feed into the scrubber (CE 36-19b2) shall be maintained at or above the average value observed during the most recent stack test which demonstrated compliance with all applicable standards.
  9. Record monthly, the amount of corn germ processed at the facility, Plant Number 23-01-006, in tons. Calculate and record 12-month rolling totals. The amount of corn germ processed shall be calculated according to 40 CFR 63.2855.
  10. Record monthly, the amount of solvent used in the extraction process, in gallons. Calculate and record 12-month rolling totals. Solvent loss is calculated according to 40 CFR §63.2853.
  11. Determine compliance with the solvent loss factor according to 40 CFR 63.2840 and 40 CFR §63.2850.
  12. The owner or operator shall follow the reporting requirements of 40 CFR §63.2861.
  13. The owner or operator shall maintain all of the necessary records to demonstrate compliance with NESHAP Subpart GGGG in accordance with the provisions in 40 CFR §63.2862.
  14. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant flowrate for all scrubbers (CE 36-19, CE 36-19a, and CE 36-19b2). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  15. The owner or operator shall collect and record the scrubbant flowrate, in gallons per minute, at least once per day for each scrubber. This requirement shall not apply on the days that the scrubbers or the equipment that the scrubbers control is not in operation.
  16. The owner or operator shall properly operate and maintain equipment to monitor the scrubbant pH for the scrubbers (CE 36-19 and CE 36-19b2). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  17. The owner or operator shall collect and record the pH of the scrubbant, in standard units, at least once per day for each scrubber. This requirement shall not apply on the days that the scrubbers or the equipment that the scrubbers control is not in operation.
  18. The owner or operator shall properly operate and maintain equipment to monitor the pressure drop for the main scrubber (CE 36-19). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
  19. The owner or operator shall collect and record the pressure drop of the main scrubber (CE 36-19) on a continuous basis. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls are not in operation.

20. Calculate the VOC emissions for EP 36-19, EP 36-20 and EP 66-1 on a monthly basis and calculate and record the 12-month rolling total

Authority for Requirement: DNR Construction Permit 94-A-282-S13  
567 IAC 23.1(4)"cg"  
40 CFR 63 Subpart GGGG

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 91.3

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (scfm): 31,200

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-282-S13

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant – Sulfur Dioxide (SO<sub>2</sub>)

Stack Test to be Completed by – See footnote below<sup>(1)</sup>

Test Method – 40 CFR 60, Appendix A, Method 6C

Authority for Requirement – DNR Construction Permit 94-A-282-S13

<sup>(1)</sup> The test shall be conducted once per 36 months. Last tested 10/18/2022.

Pollutant – VOC's

Stack Test to be completed by – 9/21/2025

Test Method - 40 CFR 60, Appendix A, Method 25A

Authority for Requirement – 567 IAC 22.108 (3)

*The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**

Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**

Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 36-20**

Associated Equipment

**Control Equipment ID: CE36-20f – Oilhouse Scrubber**

| Emission Unit | Emission Unit Description    | Other Control Equipment        | Raw Material | Rated Capacity | Construction Permit |
|---------------|------------------------------|--------------------------------|--------------|----------------|---------------------|
| EU36-20a      | No. 1 Germ Conditioner Dryer | CE36-20i1: Germ Cyclone No. 1* | Corn Germ    | 1,300 tons/day | 94-A-283-S9         |
| EU36-20b      | No. 2 Germ Conditioner Dryer | CE36-20i2: Germ Cyclone No. 2* | Corn Germ    | 1,300 tons/day |                     |
| EU36-20c      | Germ Cooler                  | CE36-20h: Germ Cooler Cyclone* | Corn Germ    | 1,500 tons/day |                     |
| EU36-20h      | #1 Expeller                  | CE36-20c1: No. 1 Wet Cyclone   | Corn Germ    | 150 tons/day   |                     |
| EU36-20i      | #2 Expeller                  |                                | Corn Germ    | 150 tons/day   |                     |
| EU36-20j      | #3 Expeller                  |                                | Corn Germ    | 150 tons/day   |                     |
| EU36-20k      | #4 Expeller                  |                                | Corn Germ    | 250 tons/day   |                     |
| EU36-20l      | #5 Expeller                  |                                | Corn Germ    | 250 tons/day   |                     |
| EU36-20o      | #8 Expeller                  | CE36-20c2: No. 2 Wet Cyclone   | Corn Germ    | 375 tons/day   |                     |
| EU36-20p      | #9 Expeller                  |                                | Corn Oil     | 950 tons/day   |                     |
| EU36-20q      | #10 Expeller                 |                                | Corn Oil     | 50 tons/day    |                     |
| EU36-20r      | #11 Expeller                 |                                | Corn Oil     | 400 gallons    |                     |
| EU36-20s      | #12 Expeller                 | CE36-20c1: No. 1 Wet Cyclone   | Corn Oil     | 150 tons/day   |                     |
| EU36-20t      | 1-5 Expelled Cake Conveyor   |                                | Corn Germ    | 150 tons/day   |                     |
| EU36-20u      | 1-4 Sharple Cake Conveyor    |                                | Corn Germ    | 150 tons/day   |                     |
| EU36-20v      | No. 1 Sharple Tank           |                                | Corn Germ    | 300 tons/day   |                     |
| EU36-20w      | 8-12 Expelled Cake Conveyor  | CE36-20c2: No 2 Wet Cyclone    | Corn Germ    | 1,125 tons/day |                     |

\*These cyclones capture and return material to the process, and are therefore act as recovery devices, rather than emissions control devices.

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-283-S9  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of “no visible emissions” will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 1.80 lb/hr.  
Authority for Requirement: DNR Construction Permit 94-A-283-S9

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 1.80 lb/hr., 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 94-A-283-S9  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 1.23 lb/hr., 500 ppmv  
Authority for Requirement: DNR Construction Permit 94-A-283-S9  
567 IAC 23.3(3)"e"

Pollutant: VOC's  
Emission Limit(s): 16.44 lb/hr., 372.32 tons/yr<sup>(2)</sup>., 0.30 gal/ton<sup>(3)</sup>  
Authority for Requirement: DNR Construction Permit 94-A-283-S9  
<sup>(2)</sup>Emission limit established for #1 Oilhouse (EP 36-19), #2 Oilhouse (EP 36-20) and Mineral Oil System (EP 66-1)

Pollutant: Total HAP  
Emission Limit(s): 0.30 gal/ton<sup>(3)</sup>  
Authority for Requirement: DNR Construction Permit 94-A-283-S9  
567 IAC 23.1(4)"cg"  
40 CFR 63 Subpart GGGG

<sup>(3)</sup> This facility (Plant Number 23-01-006) is subject to the existing affected source requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart GGGG – Solvent Extraction of Vegetable Oil Production (40 CFR §63.2830 through 40 CFR §63.2872). However per the consent decree entered into between the United States and ADM [Civil Action 03-2066, United States District Court for the Central District of Illinois (August 21, 2003)], ADM is required to meet a solvent loss factor of 0.30 gallons per ton of corn germ.

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility (Plant Number 23-01-006) shall not process more than 730,000 tons of corn germ in the oilhouse per rolling 12-month period.
2. The owner or operator shall develop and implement a plan for demonstrating compliance in accordance with the provisions in 40 CFR §63.2851.
3. The total liquor feed rate to the scrubber (CE 36-20f) shall be maintained at or above the average value observed during the most recent stack test which demonstrated compliance with all applicable standards.
4. The pH of the liquor feed into the scrubber (CE 36-20f) shall be maintained at or above the average value observed during the most recent stack test which demonstrated compliance with all applicable standards.
5. The pressure drop across the scrubber (CE 36-20f) shall be maintained in the range of 4 to 12 inches of water during all times of normal operation. Normal operation does not include periods

of time involving startup, shutdown or malfunction. However, normal operation can include annual periods of packing replacement when the dP will temporarily operate below 4.0 until equilibrium is reached across the packing material.

6. Record monthly, the amount of corn germ processed at the facility, Plant Number 23-01-006, in tons. Calculate and record 12-month rolling totals. The amount of corn germ processed shall be calculated according to 40 CFR 63.2855.
7. Record monthly, the amount of solvent used in the extraction process, in gallons. Calculate and record 12-month rolling totals. Solvent loss is calculated according to 40 CFR §63.2853.
8. Determine compliance with the solvent loss factor according to 40 CFR 63.2840 and 40 CFR §63.2850.
9. The owner or operator shall follow the reporting requirements of 40 CFR §63.2861.
10. The owner or operator shall maintain all of the necessary records to demonstrate compliance with NESHAP Subpart GGGG in accordance with the provisions in 40 CFR §63.2862.
11. The owner or operator shall properly operate and maintain equipment to periodically monitor the scrubbant flowrate for the scrubber (CE 36-20f). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
12. The owner or operator shall collect and record the scrubbant flowrate, in gallons per minute, at least once per day for each scrubber. This requirement shall not apply on the days that the scrubbers or the equipment that the scrubbers control is not in operation.
13. The owner or operator shall properly operate and maintain equipment to periodically monitor the scrubbant pH for the scrubber (CE 36-20f). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
14. The owner or operator shall collect and record the pH of the scrubbant, in standard units, at least once per day for each scrubber. This requirement shall not apply on the days that the scrubbers or the equipment that the scrubbers control is not in operation.
15. The owner or operator shall properly operate and maintain equipment to continuously monitor the pressure drop for the scrubber (CE 36-20f). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.
16. The owner or operator shall collect and record the pressure drop of each scrubber on a continuous basis. This requirement shall not apply on the days that the scrubbers or the equipment that the scrubbers control is not in operation.

Authority for Requirement: DNR Construction Permit 94-A-283-S9  
567 IAC 23.1(4)"cg"  
40 CFR 63 Subpart GGGG

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 91.7
- Stack Opening, (inches, dia.): 48
- Exhaust Flow Rate (scfm): 32,040
- Exhaust Temperature (°F): 110
- Discharge Type: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 94-A-283-S9

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

- Pollutant – Sulfur Dioxide (SO<sub>2</sub>)
- Stack Test to be Completed by – See footnote below<sup>(1)</sup>
- Test Method – 40 CFR 60, Appendix A, Method 6C
- Authority for Requirement –DNR Construction Permit 94-A-283-S9

<sup>(1)</sup> The test shall be conducted once per 36 months. Last tested 10/19/2022.

- Pollutant – VOC’s
- Stack Test to be completed by – 9/21/2025
- Test Method - 40 CFR 60, Appendix A, Method 25A
- Authority for Requirement – 567 IAC 22.108 (3)

*The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 36-21**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>     | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|--------------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU36-21              | Pneumatic Clay Transport to Day Bins | CE36-21: Baghouse        | Clay                | 2,000 lb/hr.          | 94-A-285-S1                |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-285-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.017 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-285-S1  
567 IAC 23.3(2)"a"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department*

1. The owner or operator shall operate and maintain the control equipment (CE36-21) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE36-21).

Authority for Requirement: DNR Construction Permit 94-A-285-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 64  
Stack Opening, (inches, dia.): 4  
Exhaust Flow Rate (scfm): 200  
Exhaust Temperature (°F): Ambient  
Discharge Style: Downward  
Authority for Requirement: DNR Construction Permit 94-A-285-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 36-22**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU36-22              | Filter Aid Pneumatic Transport   | CE36-22: Baghouse        | Filter Aid          | 2,000 lbs/hr.         | 94-A-286-S1                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-286-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of "No visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.025 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-286-S1  
567 IAC 23.3(2)"a"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE36-22) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE36-22).

Authority for Requirement: DNR Construction Permit 94-A-286-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 64  
Stack Opening, (inches, dia.): 4  
Exhaust Flow Rate (scfm): 300  
Exhaust Temperature (°F): Ambient  
Discharge Style: Downward  
Authority for Requirement: DNR Construction Permit 94-A-286-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 36-25**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EU36-25              | Geka Oil Refining Boiler         | Natural Gas         | 8 MMBtu/hr.           | NA                         |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

NESHAP:

This emission unit is subject to 40 CFR 63 Subpart DDDDD – NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 57-1**

Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment        | Raw Material | Rated Capacity | Construction Permit |
|---------------|---------------------------|--------------------------|--------------|----------------|---------------------|
| EU57-1C       | No. 3 Germ Silo           | CE57-1C: Bin Vent Filter | Germ         | 1,000,000 lbs. | 06-A-049-S3         |
| EU57-1D       | No. 4 Germ Silo           | CE57-1D: Bin Vent Filter | Germ         | 1,000,000 lbs. |                     |
| EU57-1E       | No. 5 Germ Silo           | CE57-1E: Bin Vent Filter | Germ         | 1,000,000 lbs. |                     |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-049-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.39 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-049-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.39 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-049-S3  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. This facility (Plant Number: 23-01-006) shall not grind more than 138.7 million bushels of corn per rolling 12-month period. On a monthly basis, the owner or operator shall:
  - A. Record the monthly amount of corn ground at the facility (Plant Number: 23-01-006), in bushels; and
  - B. Calculate and record the rolling 12-month total amount of corn ground at the facility (Plant Number: 23-01-006), in bushels.
2. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule or per a written facility specific operation and

maintenance plan. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection or maintenance of the control equipment.

Authority for Requirement: DNR Construction Permit 06-A-049-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 115.2

Stack Opening, (inches, dia.): 18

Exhaust Flow Rate (scfm): 4,600

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 06-A-049-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 66-1**

Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment                              | Raw Material | Rated Capacity | Construction Permit |
|---------------|---------------------------|--|--------------|----------------|---------------------|
| EU66-1        | Desolventizer Toaster     | CE66-1:<br>Mineral Oil Cold<br>Column Absorber | Germ         | 2,200 tons/day | 95-A-203-S5         |
| EU66-2        | Extractor*                |  | Germ         | 2,200 tons/day |                     |
| EU66-6        | Extractor                 |  | Germ         | 2,200 tons/day |                     |
| EU66-3        | Hexane Storage Tank*      |  | Hexane       | 22,000 gallons |                     |
| EU66-7        | Hexane Storage Tank       |  | Hexane       | 22,000 gallons |                     |
| EU66-4        | Vent Condenser            |  | Germ         | 2,200 tons/day |                     |
| EU66-5        | Final Vent Condenser      |  | Germ         | 2,200 tons/day |                     |

\*Scheduled to be replaced by identical emission units EU66-6 and EU66-7 at the completion of construction project 21-203.

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 95-A-203-S5  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 95-A-203-S5  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3) "e"

Pollutant: VOC's

Emission Limit(s): 372.32 tons/yr., 0.30 gal/ton<sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 95-A-203-S5

<sup>(2)</sup> Emission limit established for #1 Oilhouse (EP 36-19), #2 Oilhouse (EP 36-20) and Mineral Oil System (EP 66-1)

Pollutant: Total HAP

Emission Limit(s): 0.30 gal/ton<sup>(3)</sup>

Authority for Requirement: DNR Construction Permit 95-A-203-S5

567 IAC 23.1(4)"cg"

40CFR 63 Subpart GGGG

<sup>(3)</sup> This facility (Plant Number 23-01-006) is subject to the existing affected source requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart GGGG – Solvent Extraction of Vegetable Oil Production (40 CFR §63.2830 through 40 CFR §63.2872). However per the consent decree entered into between the United States and ADM [Civil Action 03-2066, United States District Court for the Central District of Illinois (August 21, 2003)], ADM is required to meet a solvent loss factor of 0.30 gallons per ton of corn germ.

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility (Plant Number 23-01-006) shall not process more than 730,000 tons of corn germ in the oilhouse per rolling 12-month period.
2. The owner or operator shall develop and implement a plan for demonstrating compliance in accordance with the provisions in 40 CFR §63.2851.
3. The Mineral Oil Cold Column Absorber (CE 66-1) shall meet the following parameters on a 24-hour rolling average basis:
  - A. Minimum mineral oil flow of 15 gpm; and
  - B. maximum mineral oil temperature of 125 °F
4. Record monthly, the amount of corn germ processed at the facility, Plant Number 23-01-006, in tons. Calculate and record 12-month rolling totals. The amount of corn germ processed shall be calculated according to 40 CFR 63.2855.
5. The owner or operator shall collect and record the mineral oil flow and temperature on a continuous basis.
6. Record monthly, the amount of solvent used in the extraction process, in gallons. Calculate and record 12-month rolling totals. Solvent loss is calculated according to 40 CFR §63.2853.
7. Determine compliance with the solvent loss factor according to 40 CFR 63.2840 and 40 CFR §63.2850.
8. The owner or operator shall follow the reporting requirements of 40 CFR §63.2861.
9. The owner or operator shall maintain all of the necessary records to demonstrate compliance with NESHAP Subpart GGGG in accordance with the provisions in 40 CFR §63.2862.

Authority for Requirement: DNR Construction Permit 95-A-203-S5

567 IAC 23.1(4)"cg"

40 CFR 63 Subpart GGGG

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 57.4

Stack Opening, (inches, dia.): 3.9

Exhaust Flow Rate (scfm): 100

Exhaust Temperature (°F): 90

Discharge Type: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 95-A-203-S5

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 66-F1**

Associated Equipment

| Emission Unit | Emission Unit Description     | Raw Material | Rated Capacity | Construction Permit |
|---------------|-------------------------------|--------------|----------------|---------------------|
| EU66-F1       | Oilhouse Process Hexane Usage | Hexane       | NA             | NA                  |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

The applicable emission limits for this process are included in the Operational Limits and Requirement section below.

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

This unit is subject to 40 CFR Part 63 Subpart GGGG - National Emission Standards for Solvent Extraction for Vegetable Oil Production and Subpart A – General Provisions. Below is a summary of those requirements.

- Note: For consistency purposes, citations are consistent with the CFR.
- This facility is considered an "existing source" as defined by this subpart.

**Standards**

**§ 63.2840 What emission requirements must I meet?**

For each facility meeting the applicability criteria in Sec. 63.2832, you must comply with either the requirements specified in paragraphs (a) through (d), or the requirements in paragraph (e) of this section. You must comply with the work practice standard provided in paragraph (h) of this section, if you choose to operate your source under an initial startup period subject to § 63.2850(c)(2) or (d)(2).

(a) (1) The emission requirements limit the number of gallons of HAP lost per ton of listed oilseeds processed. For each operating month, as defined in § 63.2872, you must calculate a compliance ratio which compares your actual HAP loss to your allowable HAP loss for the previous 12 operating months as shown in Equation 1 of this section. Equation 1 of this section follows:

 (Eq. 1)

(2) Equation 1 of this section can also be expressed as a function of total solvent loss as shown in Equation 2 of this section. Equation 2 of this section follows:

$$C_{\text{rapeseed}} \left( \frac{\text{Actual Solvent Loss}}{\text{Oilseed}} \right) \text{ (Eq. 2)}$$

Where:

f = The weighted average volume fraction of HAP in solvent received during the previous 12 operating months, as determined in § 63.2854, dimensionless.

0.64 = The average volume fraction of HAP in solvent in the baseline performance data, dimensionless.

Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months, as determined in § 63.2853.

Oilseed = Tons of each oilseed type “i” processed during the previous 12 operating months, as shown in § 63.2855.

SLF = The corresponding solvent loss factor (gal/ton) for oilseed “i” listed in Table 1 of this section, as follows:

TABLE 1 OF § 63.2840. - OILSEED SOLVENT LOSS FACTORS FOR DETERMINING ALLOWABLE HAP LOSS

| Type of oilseed process     | A source that   | Oilseed solvent loss factor (gal/ton) |             |
|-----------------------------|---|---------------------------------------|-------------|
|                             |   | Existing sources                      | New sources |
| (i) Corn Germ, Wet Milling  | <b>processes corn germ that has been separated from other corn components using a "wet" process of centrifuging a slurry steeped in a dilute sulfurous acid solution.</b> | <b>0.4</b>                            | 0.3         |
| (ii) Corn Germ, Dry Milling | processes corn germ that has been separated from the other corn components using a "dry" process of mechanical chafing and air sifting.                                   | 0.7                                   | 0.7         |
| (iii) Cottonseed, Large     | processes 120,000 tons or more of a combination of cottonseed and other listed oilseeds during all normal operating periods in a 12 operating month period.               | 0.5                                   | 0.4         |
| (iv) Cottonseed, Small      | processes less than 120,000 tons of a combination of cottonseed and other listed oilseeds during all normal operating periods in a 12 month period.                       | 0.7                                   | 0.4         |
| (v) Flax                    | processes flax.   | 0.6                                   | 0.6         |
| (vi) Peanuts                | processes peanuts   | 1.2                                   | 0.7         |
| (vii) Rapeseed              | processes rapeseed  | 0.7                                   | 0.3         |
| (viii) Safflower            | processes safflower   | 0.7                                   | 0.7         |
| (ix) Soybean, Conventional  | uses a conventional style desolventizer to produce crude soybean oil products and soybean animal feed products.   | 0.2                                   | 0.2         |
| (x) Soybean, Speciality     | uses a special style desolventizer to produce soybean meal products for human and animal consumption.   | 1.7                                   | 1.5         |

|   |  |      |      |
|---|--|------|------|
| (xi) Soybean, Combination Plant with Low Speciality Production. | processes soybeans in both speciality and conventional desolventizers and the quality of soybeans processed in speciality desolventizers during normal operating periods is less than 3.3 percent of total soybeans processed during all normal operating periods in a 12 operating month period. The corresponding solvent loss factor is an overall value and applies to the total quantity of soybeans processed... | 0.25 | 0.25 |
| (xii) Sunflower   | processes sunflower  | 0.4  | 0.3  |

(b) When your source has processed listed oilseed for 12 operating months, calculate the compliance ratio by the end of each calendar month following an operating month, as defined in § 63.2872, using Equation 2 of this section. When calculating your compliance ratio, consider the conditions and exclusions in paragraphs (b)(1) through (6) of this section:

- (1) [Reserved]
- (2) The 12-month compliance ratio may include operating months occurring prior to a source shutdown and operating months that follow after the source resumes operation.
- (3) If your source shuts down and processes no listed oilseed for an entire calendar or accounting month, then you must categorize the month as a nonoperating month, as defined in § 63.2872. Exclude any nonoperating months from the compliance ratio determination.
- (4) If your source is subject to an initial startup period as defined in § 63.2872, you may exclude from the compliance ratio determination any solvent and oilseed information recorded for the initial startup period, provided you meet the work practice standard in § 63.2850(c)(2) or (d)(2).
- (5) Before September 15, 2020, if your source is subject to a malfunction period as defined in § 63.2872, exclude from the compliance ratio determination any solvent and oilseed information recorded for the malfunction period. The provisions of this paragraph (e) do not apply on and after September 15, 2020.
- (6) For sources processing cottonseed or specialty soybean, the solvent loss factor you use to determine the compliance ratio may change each operating month depending on the tons of oilseed processed during all normal operating periods in a 12 operating month period.

(c) If the compliance ratio is less than or equal to 1.00, your source was in compliance with the HAP emission requirements for the previous operating month.

(d) To determine the compliance ratio in Equation 2 of this section, you must select the appropriate oilseed solvent loss factor from Table 1 of this section. First, determine whether your source is new or existing using Table 1 of § 63.2833. Then, under the appropriate existing or new source column, select the oilseed solvent loss factor that corresponds to each type oilseed or process operation for each operating month.

(e) Low-HAP solvent option. For all vegetable oil production processes subject to this subpart, you must exclusively use solvent where the volume fraction of each HAP comprises 1 percent or less by volume of the solvent (low-HAP solvent) in each delivery, and you must meet the requirements in paragraphs (e)(1) through (5) of this section. Your vegetable oil production process is not subject to the requirements in §§ 63.2850 through 63.2870 unless specifically referenced in paragraphs (e)(1) through (5) of this section.

(1) You shall determine the HAP content of your solvent in accordance with the specifications in Sec. 63.2854(b)(1).

(2) You shall maintain documentation of the HAP content determination for each delivery of the solvent at the facility at all times.

(3) You must submit an initial notification for existing sources in accordance with Sec. 63.2860(a).

(4) You must submit an initial notification for new and reconstructed sources in accordance with Sec. 63.2860(b).

(5) You must submit an annual compliance certification in accordance with Sec. 63.2861(a). The certification should only include the information required under Sec. 63.2861(a)(1) and (2), and a certification indicating whether the source complied with all of the requirements in paragraph (e) of this section.

(f) You may change compliance options for your source if you submit a notice to the Administrator at least 60 days prior to changing compliance options. If your source changes from the low-HAP solvent option to the compliance ratio determination option, you must determine the compliance ratio for the most recent 12 operating months beginning with the first month after changing compliance options.

(g) On or after September 15, 2020, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(h) On and after September 15, 2020, you must meet the requirements in paragraphs (h)(1) through (3) of this section if you choose to operate your source under an initial startup period subject to § 63.2850(c)(2) or (d)(2).

(1) You must operate the mineral oil absorption system at all times during the initial startup period unless doing so is not possible due to safety considerations;

(2) You must operate the solvent condensers at all times during the initial startup period unless doing so is not possible due to safety considerations; and

(3) You must follow site-specific operating limits, established according to the requirements in paragraphs (h)(3)(i) and (ii) of this section, for temperature and pressure for the desolventizing and oil distillation units associated with solvent recovery at all times, unless doing so is not possible due to safety considerations.

(i) Your site-specific operating limits may be based on equipment design, manufacturer's recommendations, or other site-specific operating values established for normal operating periods.

(ii) The operating limits may be in the form of a minimum, maximum, or operating range

## **Compliance Requirements**

### **§ 63.2850 How do I comply with the hazardous air pollutant emission standards?**

(a) *General requirements.* The requirements in paragraphs (a)(1)(i) through (iv) of this section apply to all affected sources:

(1) Submit the necessary notifications in accordance with § 63.2860, which include:

- (i) Initial notifications for existing sources.
- (ii) Initial notifications for new and reconstructed sources.
- (iii) Initial notifications for significant modifications to existing or new sources.
- (iv) Notification of compliance status.

(2) Develop and implement a plan for demonstrating compliance in accordance with § 63.2851.

(3) Develop a written startup, shutdown and malfunction (SSM) plan in accordance with the provisions in § 63.2852. On and after September 15, 2020, an SSM plan is not required.

(4) Maintain all the necessary records you have used to demonstrate compliance with this subpart in accordance with § 63.2862.

(5) Submit the reports in paragraphs (a)(5)(i) through (iv) of this section, as applicable:

- (i) Annual compliance certifications in accordance with § 63.2861(a).
- (ii) Periodic SSM reports in accordance with § 63.2861(c).
- (iii) Immediate SSM reports in accordance with § 63.2861(d).
- (iv) Initial startup period reports in accordance with § 63.2861(e).

(6) Submit all notifications and reports and maintain all records required by the General Provisions for performance testing if you add a control device that destroys solvent.

(b) *Existing sources under normal operation.* You must meet all of the requirements listed in paragraph (a) of this section and Table 1 of this section for sources under normal operation, and the schedules for demonstrating compliance for existing sources under normal operation in Table 2 of this section.

(c) *New sources.* Your new source, including a source that is categorized as new due to reconstruction, must meet the requirements associated with one of two compliance options. Within 15 days of the startup date, you must choose to comply with one of the options listed in paragraph (c)(1) or (2) of this section:

(1) *Normal operation.* Upon initial startup of your new source, you must meet all of the requirements listed in § 63.2850(a) and Table 1 of this section for sources under normal operation, and the schedules for demonstrating compliance for new sources under normal operation in Table 2 of this section.

(2) *Initial startup period.* For up to 6 calendar months after the startup date of your new source, you must meet all of the requirements listed in paragraph (a) of this section and Table 1 of this section for sources operating under an initial startup period, and the schedules for demonstrating compliance for new sources operating under an initial startup period in Table 2 of this section. On and after September 15, 2020, you must also comply with the work practice standard in § 63.2840(h) for the duration of the initial startup period. At the end of the initial startup period (as defined in § 63.2872), your new source must then meet all of the requirements listed in Table 1 of this section for sources under normal operation.

(d) *Existing or new sources that have been significantly modified.* Your existing or new source that has been significantly modified must meet the requirements associated with one of two compliance options.

Within 15 days of the modified source startup date, you must choose to comply with one of the options listed in paragraph (d)(1) or (2) of this section:

(1) **Normal operation.** Upon initial startup of your significantly modified existing or new source, you must meet all of the requirements listed in paragraph (a) of this section and Table 1 of this section for sources under normal operation, and the schedules for demonstrating compliance for an existing or new source that has been significantly modified in Table 2 of this section.

(2) **Initial startup period.** For up to 3 calendar months after the startup date of your significantly modified existing or new source, you must meet all of the requirements listed in paragraph (a) of this section and Table 1 of this section for sources operating under an initial startup period, and the schedules for demonstrating compliance for a significantly modified existing or new source operating under an initial startup period in Table 2 of this section. On and after September 15, 2020, you must also comply with the work practice standard in § 63.2840(h) for the duration of the initial startup period. At the end of the initial startup period (as defined in § 63.2872), your new or existing source must meet all of the requirements listed in Table 1 of this section for sources under normal operation.

(e) **Existing or new sources experiencing a malfunction.** A *malfunction* is defined in § 63.2. In general, it means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to function in a normal or usual manner. If your existing or new source experiences an unscheduled shutdown as a result of a malfunction, continues to operate during a malfunction (including the period reasonably necessary to correct the malfunction), or starts up after a shutdown resulting from a malfunction, then you must meet the requirements associated with one of two compliance options. Routine or scheduled process startups and shutdowns resulting from, but not limited to, market demands, maintenance activities, and switching types of oilseed processed, are not startups or shutdowns resulting from a malfunction and, therefore, do not qualify for this provision. Within 15 days of the beginning date of the malfunction, you must choose to comply with one of the options listed in paragraphs (e)(1) and (2) of this section. The provisions of this paragraph (e) do not apply on and after September 15, 2020.

(1) **Normal operation.** Your source must meet all of the requirements listed in paragraph (a) of this section and one of the options listed in paragraphs (e)(1)(i) through (iii) of this section:

- (i) Existing source normal operation requirements in paragraph (b) of this section.
- (ii) New source normal operation requirements in paragraph (c)(1) of this section.
- (iii) Normal operation requirements for sources that have been significantly modified in paragraph (d)(1) of this section.

(2) **Malfunction period.** Throughout the malfunction period, you must meet all of the requirements listed in paragraph (a) of this section and Table 1 of this section for sources operating during a malfunction period. At the end of the malfunction period, your source must then meet all of the requirements listed in Table 1 of this section for sources under normal operation. See Table 1 of section 63.2850.

### **Sec. 63.2851 What is a plan for demonstrating compliance?**

(a) You must develop and implement a written plan for demonstrating compliance that provides the detailed procedures you will follow to monitor and record data necessary for demonstrating compliance with this subpart. Procedures followed for quantifying solvent loss from the source and amount of oilseed processed vary from source to source because of site-specific factors such as equipment design characteristics and operating conditions. Typical procedures include one or more accurate measurement methods such as weigh scales, volumetric displacement, and material mass balances. Because the industry does not have a uniform set of procedures, you must develop and implement your own site-specific plan for demonstrating compliance before the compliance date for your source. You must also

incorporate the plan for demonstrating compliance by reference in the source's title V permit and keep the plan on-site and readily available as long as the source is operational. If you make any changes to the plan for demonstrating compliance, then you must keep all previous versions of the plan and make them readily available for inspection for at least 5 years after each revision. The plan for demonstrating compliance must include the items in paragraphs (a)(1) through (8) of this section:

- (1) The name and address of the owner or operator.

- (2) The physical address of the vegetable oil production process.

- (3) A detailed description of all methods of measurement your source will use to determine your solvent losses, HAP content of solvent, and the tons of each type of oilseed processed.

- (4) When each measurement will be made.

- (5) Examples of each calculation you will use to determine your compliance status. Include examples of how you will convert data measured with one parameter to other terms for use in compliance determination.

- (6) Example logs of how data will be recorded.

- (7) A plan to ensure that the data continue to meet compliance demonstration needs.

- (8) On and after September 15, 2020, if you choose to operate your source under an initial start-up period subject to § 63.2850(c)(2) or (d)(2), the items in paragraphs (c)(8)(i) and (ii) of this section:

- (i) Your site-specific operating limits, and their basis, for temperature and pressure for the desolventizing and oil distillation units associated with solvent recovery.

- (ii) A detailed description of all methods of measurement your source will use to measure temperature and pressure, including the measurement frequency.

- (b) The responsible agency of these NESHAP may require you to revise your plan for demonstrating compliance. The responsible agency may require reasonable revisions if the procedures lack detail, are inconsistent or do not accurately determine solvent loss, HAP content of the solvent, or the tons of oilseed processed.

**Sec. 63.2853 How do I determine the actual solvent loss?**

By the end of each calendar month following an operating month, you must determine the total solvent loss in gallons for the previous operating month. The total solvent loss for an operating month includes all solvent losses that occur during normal operating periods within the operating month. If you have determined solvent losses for 12 or more operating months, then you must also determine the 12 operating months rolling sum of actual solvent loss in gallons by summing the monthly actual solvent loss for the previous 12 operating months. The 12 operating months rolling sum of solvent loss is the “actual solvent loss,” which is used to calculate your compliance ratio as described in § 63.2840.

(a) To determine the actual solvent loss from your source, follow the procedures in your plan for demonstrating compliance to determine the items in paragraphs (a)(1) through (7) of this section:

(1) The dates that define each operating status period during a calendar month. The dates that define each operating status period include the beginning date of each calendar month and the date of any change in the source operating status. If the source maintains the same operating status during an entire calendar month, these dates are the beginning and ending dates of the calendar month. If, prior to the effective date of this rule, your source determines the solvent loss on an *accounting month*, as defined in § 63.2872, rather than a calendar month basis, and you have 12 complete accounting months of approximately equal duration in a calendar year, you may substitute the accounting month time interval for the calendar month time interval. If you choose to use an accounting month rather than a calendar month, you must document this measurement frequency selection in your plan for demonstrating compliance, and you must remain on this schedule unless you request and receive written approval from the agency responsible for these NESHAP.

(2) Source operating status. You must categorize the operating status of your source for each recorded time interval in accordance with criteria in Table 1 of this section, as follows:

TABLE 1 OF §63.2853 - CATEGORIZING YOUR SOURCE OPERATING STATUS

| If during a recorded time interval...   | then your source operating status is..... |
|---|---|
| (i) Your source processes any amount of listed oilseed and source is not operating under an initial startup operating period or a malfunction period subject to § 63.2850(c)(2), (d)(2), or (e)(2). | A normal operating period.                |
| (ii) Your source processes no agricultural product and your source is not operating under an initial startup period or malfunction period subject to § 63.2850(c)(2), (d)(2), or (e)(2).            | A nonoperating period.                    |
| (iii) You choose to operate your source under an initial startup period subject to § 63.2850(c)(2) or (d)(2).   | An initial startup period.                |
| (iv) You choose to operate your source under a malfunction period subject to § 63.2850(e)(2).   | A malfunction period.                     |
| (v) Your source process agricultural products not defined as listed oilseed.  | An exempt period.                         |

(3) Measuring the beginning and ending solvent inventory. You are required to measure and record the solvent inventory on the beginning and ending dates of each normal operating period that occurs during an operating month. You must consistently follow the procedures described in your plan for demonstrating compliance, as specified in § 63.2851, to determine the extraction solvent inventory, and maintain readily available records of the actual solvent loss inventory, as described in §

63.2862(c)(1). In general, you must measure and record the solvent inventory only when the source is actively processing any type of agricultural product. When the source is not active, some or all of the solvent working capacity is transferred to solvent storage tanks which can artificially inflate the solvent inventory.

(4) Gallons of extraction solvent received. Record the total gallons of extraction solvent received in each shipment. For most processes, the gallons of solvent received represents purchases of delivered solvent added to the solvent storage inventory. However, if your process refines additional vegetable oil from off-site sources, recovers solvent from the off-site oil, and adds it to the on-site solvent inventory, then you must determine the quantity of recovered solvent and include it in the gallons of extraction solvent received.

(5) Solvent inventory adjustments. In some situations, solvent losses determined directly from the measured solvent inventory and quantity of solvent received is not an accurate estimate of the “actual solvent loss” for use in determining compliance ratios. In such cases, you may adjust the total solvent loss for each normal operating period as long as you provide a reasonable justification for the adjustment. Situations that may require adjustments of the total solvent loss include, but are not limited to, situations in paragraphs (a)(5)(i) and (ii) of this section:

(i) Solvent destroyed in a control device. You may use a control device to reduce solvent emissions to meet the emission standard. The use of a control device does not alter the emission limit for the source. If you use a control device that reduces solvent emissions through destruction of the solvent instead of recovery, then determine the gallons of solvent that enter the control device and are destroyed there during each normal operating period. All solvent destroyed in a control device during a normal operating period can be subtracted from the total solvent loss. Examples of destructive emission control devices include catalytic incinerators, boilers, or flares. Identify and describe, in your plan for demonstrating compliance, each type of reasonable and sound measurement method that you use to quantify the gallons of solvent entering and exiting the control device and to determine the destruction efficiency of the control device. You may use design evaluations to document the gallons of solvent destroyed or removed by the control device instead of performance testing under § 63.7. The design evaluations must be based on the procedures and options described in § 63.985(b)(1)(i)(A) through (C) or § 63.11, as appropriate. All data, assumptions, and procedures used in such evaluations must be documented and available for inspection. If you use performance testing to determine solvent flow rate to the control device or destruction efficiency of the device, follow the procedures as outlined in § 63.997(e)(1) and (2) and the requirements in paragraph (a)(5)(i)(A) of this section. Instead of periodic performance testing to demonstrate continued good operation of the control device, you may develop a monitoring plan, following the procedures outlined in § 63.988(c) and using operational parametric measurement devices such as fan parameters, percent measurements of lower explosive limits, and combustion temperature.

(A) On or after September 15, 2020, you must conduct all performance tests under such conditions as the Administrator specifies to you based on representative performance of the affected source for the period being tested. Representative conditions exclude periods of startup and shutdown unless specified by the Administrator. You may not conduct performance tests during periods of malfunction. You must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, you shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

(ii) Changes in solvent working capacity. In records you keep on-site, document any process modifications resulting in changes to the solvent working capacity in your vegetable oil

production process. Solvent working capacity is defined in § 63.2872. In general, solvent working capacity is the volume of solvent normally retained in solvent recovery equipment such as the extractor, desolventizer-toaster, solvent storage, working tanks, mineral oil absorber, condensers, and oil/solvent distillation system. If the change occurs during a normal operating period, you must determine the difference in working solvent volume and make a one-time documented adjustment to the solvent inventory.

(b) Use Equation 1 of this section to determine the actual solvent loss occurring from your affected source for all normal operating periods recorded within a calendar month. Equation 1 of this section follows:

$$\text{Actual Solvent Loss} = \frac{\text{SOLV}_B - \text{SOLV}_E + \text{SOLV}_R - \text{SOLV}_A}{n} \quad (\text{Eq. 1})$$

Where:

$\text{SOLV}_B$  = Gallons of solvent in the inventory at the beginning of normal operating period "i" as determined in paragraph (a)(3) of this section.

$\text{SOLV}_E$  = Gallons of solvent in the inventory at the end of normal operating period "i" as determined in paragraph (a)(3) of this section.

$\text{SOLV}_R$  = Gallons of solvent received between the beginning and ending inventory dates of normal operating period "i" as determined in paragraph (a)(4) of this section.

$\text{SOLV}_A$  = Gallons of solvent added or removed from the extraction solvent inventory during normal operating period "i" as determined in paragraph (a)(5) of this section.

$n$  = Number of normal operating periods in a calendar month.

(c) The actual solvent loss is the total solvent losses during normal operating periods for the previous 12 operating months. You determine your actual solvent loss by summing the monthly actual solvent losses for the previous 12 operating months. You must record the actual solvent loss by the end of each calendar month following an operating month. Use the actual solvent loss in Equation 2 of § 63.2840 to determine the compliance ratio. Actual solvent loss does not include losses that occur during operating status periods listed in paragraphs (c)(1) through (4) of this section. If any one of these four operating status periods span an entire month, then the month is treated as nonoperating and there is no compliance ratio determination..

- (1) Nonoperating periods as described in paragraph (a)(2)(ii) of this section.
- (2) Initial startup periods as described in Sec. 63.2850(c)(2) or (d)(2).
- (3) Before September 15, 2020, malfunction periods as described in § 63.2850(e)(2).
- (4) Exempt operation periods as described in paragraph (a)(2) of this section.

**Sec. 63.2854 How do I determine the weighted average volume fraction of HAP in the actual solvent loss?**

(a) This section describes the information and procedures you must use to determine the weighted average volume fraction of HAP in extraction solvent received for use in your vegetable oil production process. By the end of each calendar month following an operating month, determine the weighted average volume fraction of HAP in extraction solvent received since the end of the previous operating month. If you have determined the monthly weighted average volume fraction of HAP in solvent received for 12 or more operating months, then also determine an overall weighted average volume fraction of HAP in solvent received for the previous 12 operating months. Use the volume fraction of

HAP determined as a 12 operating months weighted average in Equation 2 of § 63.2840 to determine the compliance ratio.

(b) To determine the volume fraction of HAP in the extraction solvent determined as a 12 operating months weighted average, you must comply with paragraphs (b)(1) through (3) of this section:

(1) Record the volume fraction of each HAP comprising more than 1 percent by volume of the solvent in each delivery of solvent, including solvent recovered from off-site oil. To determine the HAP content of the material in each delivery of solvent, the reference method is EPA Method 311 of appendix A of this part. You may use EPA Method 311, an approved alternative method, or any other reasonable means for determining the HAP content. Other reasonable means of determining HAP content include, but are not limited to, a material safety data sheet or a manufacturer's certificate of analysis. A certificate of analysis is a legal and binding document provided by a solvent manufacturer. The purpose of a certificate of analysis is to list the test methods and analytical results that determine chemical properties of the solvent and the volume percentage of all HAP components present in the solvent at quantities greater than 1 percent by volume. You are not required to test the materials that you use, but the Administrator may require a test using EPA Method 311 (or an approved alternative method) to confirm the reported HAP content. However, if the results of an analysis by EPA Method 311 are different from the HAP content determined by another means, the EPA Method 311 results will govern compliance determinations.

(2) Determine the weighted average volume fraction of HAP in the extraction solvent each operating month. The weighted average volume fraction of HAP for an operating month includes all solvent received since the end of the last operating month, regardless of the operating status at the time of the delivery. Determine the monthly weighted average volume fraction of HAP by summing the products of the HAP volume fraction of each delivery and the volume of each delivery and dividing the sum by the total volume of all deliveries as expressed in Equation 1 of this section. Record the result by the end of each calendar month following an operating month. Equation 1 of this section follows:



(Eq. 1)

Where:

Received<sub>i</sub> = Gallons of extraction solvent received in delivery "i."

Content<sub>i</sub> = The volume fraction of HAP in extraction solvent delivery "i."

Total Received = Total gallons of extraction solvent received since the end of the previous operating month.

n = Number of extraction solvent deliveries since the end of the previous operating month.

(3) Determine the volume fraction of HAP in your extraction solvent as a 12 operating months weighted average. When your source has processed oilseed for 12 operating months, sum the products of the monthly weighted average HAP volume fraction and corresponding volume of solvent received, and divide the sum by the total volume of solvent received for the 12 operating months, as expressed by Equation 2 of this section. Record the result by the end of each calendar month following an operating month and use it in Equation 2 of § 63.2840 to determine the compliance ratio. Equation 2 of this section follows:



Where:

Received<sub>i</sub> = Gallons of extraction solvent received in operating month "i" as determined in accordance with Sec. 63.2853(a)(4).

Content<sub>i</sub> = Average volume fraction of HAP in extraction solvent received in operating month "i" as determined in accordance with paragraph (b)(1) of this section.

Total Received = Total gallons of extraction solvent received during the previous 12 operating months.

### **Sec. 63.2855 How do I determine the quantity of oilseed processed?**

All oilseed measurements must be determined on an as received basis, as defined in § 63.2872. The as received basis refers to the oilseed chemical and physical characteristics as initially received by the source and prior to any oilseed handling and processing. By the end of each calendar month following an operating month, you must determine the tons as received of each listed oilseed processed for the operating month. The total oilseed processed for an operating month includes the total of each oilseed processed during all normal operating periods that occur within the operating month. If you have determined the tons of oilseed processed for 12 or more operating months, then you must also determine the 12 operating months rolling sum of each type oilseed processed by summing the tons of each type of oilseed processed for the previous 12 operating months. The 12 operating months rolling sum of each type of oilseed processed is used to calculate the compliance ratio as described in § 63.2840.

(a) To determine the tons as received of each type of oilseed processed at your source, follow the procedures in your plan for demonstrating compliance to determine the items in paragraphs (a)(1) through (5) of this section:

(1) The dates that define each operating status period. The dates that define each operating status period include the beginning date of each calendar month and the date of any change in the source operating status. If, prior to the effective date of this rule, your source determines the oilseed inventory on an accounting month rather than a calendar month basis, and you have 12 complete accounting months of approximately equal duration in a calendar year, you may substitute the accounting month time interval for the calendar month time interval. If you choose to use an accounting month rather than a calendar month, you must document this measurement frequency selection in your plan for demonstrating compliance, and you must remain on this schedule unless you request and receive written approval from the agency responsible for these NESHAP. The dates on each oilseed inventory log must be consistent with the dates recorded for the solvent inventory.

(2) Source operating status. You must categorize the source operation for each recorded time interval. The source operating status for each time interval recorded on the oilseed inventory for each type of oilseed must be consistent with the operating status recorded on the solvent inventory logs as described in § 63.2853(a)(2).

(3) Measuring the beginning and ending inventory for each oilseed. You are required to measure and record the oilseed inventory on the beginning and ending dates of each normal operating period that occurs during an operating month. You must consistently follow the procedures described in your plan for demonstrating compliance, as specified in § 63.2851, to determine the oilseed inventory on an as

received basis and maintain readily available records of the oilseed inventory as described by § 63.2862(c)(3).

(4) Tons of each oilseed received. Record the type of oilseed and tons of each shipment of oilseed received and added to your on-site storage.

(5) Oilseed inventory adjustments. In some situations, determining the quantity of oilseed processed directly from the measured oilseed inventory and quantity of oilseed received is not an accurate estimate of the tons of oilseed processed for use in determining compliance ratios. For example, spoiled and molded oilseed removed from storage but not processed by your source will result in an overestimate of the quantity of oilseed processed. In such cases, you must adjust the oilseed inventory and provide a justification for the adjustment. Situations that may require oilseed inventory adjustments include, but are not limited to, the situations listed in paragraphs (a)(5)(i) through (v) of this section:

(i) Oilseed that mold or otherwise become unsuitable for processing.

(ii) Oilseed you sell before it enters the processing operation.

(iii) Oilseed destroyed by an event such as a process malfunction, fire, or natural disaster.

(iv) Oilseed processed through operations prior to solvent extraction such as screening, dehulling, cracking, drying, and conditioning; but that are not routed to the solvent extractor for further processing.

(v) Periodic physical measurements of inventory. For example, some sources periodically empty oilseed storage silos to physically measure the current oilseed inventory. This periodic measurement procedure typically results in a small inventory correction. The correction factor, usually less than 1 percent, may be used to make an adjustment to the source's oilseed inventory that was estimated previously with indirect measurement techniques. To make this adjustment, your plan for demonstrating compliance must provide for such an adjustment.

(b) Use Equation 1 of this section to determine the quantity of each oilseed type processed at your affected source during normal operating periods recorded within a calendar month. Equation 1 of this section follows:



Where:

SEEDB = Tons of oilseed in the inventory at the beginning of normal operating period "i" as determined in accordance with paragraph (a)(3) of this section.

SEEDE = Tons of oilseed in the inventory at the end of normal operating period "i" as determined in accordance with paragraph (a)(3) of this section.

SEEDR = Tons of oilseed received during normal operating period "i" as determined in accordance with paragraph (a)(4) of this section.

SEEDA = Tons of oilseed added or removed from the oilseed inventory during normal operating period "i" as determined in accordance with paragraph (a)(5) of this section.

n = Number of normal operating periods in the calendar month during which this type oilseed was processed.

(c) The quantity of each oilseed processed is the total tons of each type of listed oilseed processed during normal operating periods in the previous 12 operating months. You determine the tons of each oilseed processed by summing the monthly quantity of each oilseed processed for the previous 12 operating months. You must record the 12 operating months quantity of each type of oilseed processed by the end

of each calendar month following an operating month. Use the 12 operating months quantity of each type of oilseed processed to determine the compliance ratio as described in § 63.2840. The quantity of oilseed processed does not include oilseed processed during the operating status periods in paragraphs (c)(1) through (4) of this section:

- (1) Nonoperating periods as described in Sec. 63.2853 (a)(2)(ii).
- (2) Initial startup periods as described in Sec. 63.2850(c)(2) or (d)(2).
- (3) Malfunction periods as described in Sec. 63.2850(e)(2).
- (4) Exempt operation periods as described in Sec. 63.2853 (a)(2)(v).
- (5) If any one of these four operating status periods span an entire calendar month, then the calendar month is treated as a nonoperating month and there is no compliance ratio determination.

### **Notifications, Reports, and Records**

#### **Sec. 63.2860 What notifications must I submit and when?**

You must submit the one-time notifications listed in paragraphs (a) through (d) of this section to the responsible agency:

(a) Initial notification for existing sources. For an existing source, submit an initial notification to the agency responsible for these NESHAP no later than 120 days after the effective date of this subpart, or no later than 120 days after the source becomes subject to this subpart, whichever is later. In the notification, include the items in paragraphs (a)(1) through (5) of this section:

- (1) The name and address of the owner or operator.
- (2) The physical address of the vegetable oil production process.
- (3) Identification of the relevant standard, such as the vegetable oil production NESHAP, and compliance date.
- (4) A brief description of the source including the types of listed oilseeds processed, nominal operating capacity, and type of desolventizer(s) used.
- (5) A statement designating the source as a major source of HAP or a demonstration that the source meets the definition of an area source. An area source is a source that is not a major source and is not collocated within a plant site with other sources that are individually or collectively a major source.

(c) Significant modification notifications. Any existing or new source that plans to undergo a significant modification as defined in Sec. 63.2872 must submit two reports as described in paragraphs (c)(1) and (2) of this section:

(1) Initial notification. You must submit an initial notification to the agency responsible for these NESHAP 30 days prior to initial startup of the significantly modified source. The initial notification must demonstrate that the proposed changes qualify as a significant modification. The initial notification must include the items in paragraphs (c)(1)(i) and (ii) of this section:

- (i) The expected startup date of the modified source.
- (ii) A description of the significant modification including a list of the equipment that will be replaced or modified. If the significant modification involves changes other than adding or replacing extractors, desolventizer-toasters (conventional and specialty), and meal dryer-coolers, then you must also include the fixed capital cost of the new components, expressed as a percentage of the fixed capital cost to build a comparable new vegetable oil production process; supporting documentation for the cost estimate; and documentation that the proposed changes will significantly affect solvent losses.

(2) Notification of actual startup. You must submit a notification of actual startup date within 15 days after initial startup of the modified source. The notification must include the items in paragraphs (c)(2)(i) through (iv) of this section:

- (i) The initial startup date of the modified source.
- (ii) An indication whether you have elected to operate under an initial startup period subject to Sec. 63.2850(d)(2).
- (iii) The anticipated duration of any initial startup period.
- (iv) A justification for the anticipated duration of any initial startup period.

(d) Notification of compliance status. As an existing, new, or reconstructed source, you must submit a notification of compliance status report to the responsible agency no later than 60 days after determining your initial 12 operating months compliance ratio. If you are an existing source, you generally must submit this notification no later than 50 calendar months after the effective date of these NESHAP (36 calendar months for compliance, 12 operating months to record data, and 2 calendar months to complete the report). If you are a new or reconstructed source, the notification of compliance status is generally due no later than 20 calendar months after initial startup (6 calendar months for the initial startup period, 12 operating months to record data, and 2 calendar months to complete the report). The notification of compliance status must contain the items in paragraphs (d)(1) through (6) of this section:

- (1) The name and address of the owner or operator.
- (2) The physical address of the vegetable oil production process.
- (3) Each listed oilseed type processed during the previous 12 operating months.
- (4) Each HAP identified under Sec. 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent received during the 12 operating months period used for the initial compliance determination.

(5) A statement designating the source as a major source of HAP or a demonstration that the source qualifies as an area source. An area source is a source that is not a major source and is not collocated within a plant site with other sources that are individually or collectively a major source.

(6) A compliance certification indicating whether the source complied with all of the requirements of this subpart throughout the 12 operating months used for the initial source compliance determination. This certification must include a certification of the items in paragraphs (d)(6)(i) through (iii) of this section:

- (i) The plan for demonstrating compliance (as described in § 63.2851) and SSM plan (as described in § 63.2852) are complete and available on-site for inspection.
- (ii) You are following the procedures described in the plan for demonstrating compliance.
- (iii) The compliance ratio is less than or equal to 1.00.

### **Sec. 63.2861 What reports must I submit and when?**

After the initial notifications, you must submit the reports in paragraphs (a) through (d) of this section to the agency responsible for these NESHAP at the appropriate time intervals:

(a) Annual compliance certifications. The first annual compliance certification is due 12 calendar months after you submit the notification of compliance status. Each subsequent annual compliance certification is due 12 calendar months after the previous annual compliance certification. The annual compliance certification provides the compliance status for each operating month during the 12 calendar months period ending 60 days prior to the date on which the report is due. Include the information in paragraphs (a)(1) through (6) of this section in the annual certification:

- (1) The name and address of the owner or operator.
- (2) The physical address of the vegetable oil production process.
- (3) Each listed oilseed type processed during the 12 calendar months period covered by the report.
- (4) Each HAP identified under Sec. 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent received during the 12 calendar months period covered by the report.
- (5) A statement designating the source as a major source of HAP or a demonstration that the source qualifies as an area source. An area source is a source that is not a major source and is not collocated within a plant site with other sources that are individually or collectively a major source.
- (6) A compliance certification to indicate whether the source was in compliance for each compliance determination made during the 12 calendar months period covered by the report. For each such compliance determination, you must include a certification of the items in paragraphs (a)(6)(i) through (ii) of this section:
  - (i) You are following the procedures described in the plan for demonstrating compliance.
  - (ii) The compliance ratio is less than or equal to 1.00.

(b) Deviation notification report. Submit a deviation report for each compliance determination you make in which the compliance ratio exceeds 1.00 as determined under § 63.2840(c) or if you deviate from the work practice standard for an initial startup period subject to § 63.2850(c)(2) or (d)(2). Submit the deviation report by the end of the month following the calendar month in which you determined the deviation. The deviation notification report must include the items in paragraphs (b)(1) through (7) of this section if you exceed the compliance ratio, and must include the items in paragraphs (b)(1), (2), and (5) through (8) of this section if you deviate from the work practice standard:

- (1) The name and address of the owner or operator.
- (2) The physical address of the vegetable oil production process.
- (3) Each listed oilseed type processed during the 12 operating months period for which you determined the deviation.
- (4) The compliance ratio comprising the deviation. You may reduce the frequency of submittal of the deviation notification report if the agency responsible for these NESHAP does not object as provided in Sec. 63.10(e)(3)(iii).
- (5) Beginning on September 15, 2020, the number of deviations and for each deviation the date and duration of each deviation. Flag and provide an explanation for any deviation from the compliance ratio for which a deviation report is being submitted for more than one consecutive month (*i.e.*, include a reference to the original date and reporting of the deviation). If the explanation provides that corrective actions have returned the affected unit(s) to its normal operation, you are not required to include the items in paragraphs (b)(6) and (7) of this section.
- (6) Beginning on September 15, 2020, a statement of the cause of each deviation (including unknown cause, if applicable).
- (7) Beginning on September 15, 2020, for each deviation, a list of the affected sources or equipment, an estimate of the quantity of HAP emitted over the emission requirements of § 63.2840, and a description of the method used to estimate the emissions.
- (8) A description of the deviation from the work practice standard during the initial startup period, including the records of § 63.2862(f) for the deviation.

(f) Performance tests. On and after September 15, 2020, if you conduct performance tests to determine solvent flow rate to a control device or destruction efficiency of a control device according to the requirements of § 63.2853(a)(5)(i), within 60 days after the date of completing each performance test,

you must submit the results of the performance test following the procedures specified in paragraphs (f)(1) and (2) of this section.

(1) Data collected using test methods supported by EPA's Electronic Reporting Tool (ERT) as listed on EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) at the time of the test. Submit the results of the performance test to EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). The data must be submitted in a file format generated through the use of EPA's ERT. Alternatively, you may submit an electronic file consistent with the extensible markup language (XML) schema listed on EPA's ERT website.

(2) Data collected using test methods that are not supported by EPA's ERT as listed on EPA's ERT website at the time of the test. The results of the performance test must be included as an attachment in the ERT or an alternate electronic file consistent with the XML schema listed on EPA's ERT website. Submit the ERT generated package or alternative file to EPA via CEDRI.

(3) Confidential business information (CBI). If you claim some of the information submitted under paragraph (f) or (g) of this section is CBI, you must submit a complete file, including information claimed to be CBI, to EPA. The file must be generated through the use of EPA's ERT or an alternate electronic file consistent with the XML schema listed on EPA's ERT website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to EPA via EPA's CDX as described in paragraph (f)(1) of this section.

(g) Submitting reports electronically. On and after September 15, 2020, you must submit the initial notification required in § 63.2860(b) and the annual compliance certification, deviation report, and initial startup report required in § 63.2861(a), (b), and (e) to the EPA via CEDRI, which can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). The owner or operator must upload to CEDRI an electronic copy of each applicable notification in portable document format (PDF). The applicable notification must be submitted by the deadline specified in this subpart, regardless of the method in which the reports are submitted. You must use the appropriate electronic report template on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri>) for this subpart. The date report templates become available will be listed on the CEDRI website. The report must be submitted by the deadline specified in this subpart, regardless of the method in which the report is submitted. If you claim some of the information required to be submitted via CEDRI is CBI, submit a complete report, including information claimed to be CBI, to EPA. The report must be generated using the appropriate form on the CEDRI website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to EPA via EPA's CDX as described earlier in this paragraph.

(h) Claims of EPA system outage. If you are required to electronically submit a report through CEDRI in EPA's CDX, you may assert a claim of EPA system outage for failure to timely comply with the reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (h)(1) through (7) of this section.

(1) You must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either EPA's CEDRI or CDX systems.

(2) The outage must have occurred within the period of time beginning five business days prior to the date that the submission is due.

(3) The outage may be planned or unplanned.

(4) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

(5) You must provide to the Administrator a written description identifying:

(i) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable;

(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage;

(iii) Measures taken or to be taken to minimize the delay in reporting; and

(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

(6) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

(7) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved.

(i) Claims of force majeure. If you are required to electronically submit a report through CEDRI in EPA's CDX, you may assert a claim of force majeure for failure to timely comply with the reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (i)(1) through (5) of this section.

(1) You may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning five business days prior to the date the submission is due. For the purposes of this section, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents you from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (*e.g.*, hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (*e.g.*, large scale power outage).

(2) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

(3) You must provide to the Administrator:

(i) A written description of the force majeure event;

(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event;

(iii) Measures taken or to be taken to minimize the delay in reporting; and

(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

(4) The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

(5) In any circumstance, the reporting must occur as soon as possible after the force majeure event occurs.

## **Sec. 63.2862 What records must I keep?**

(a) You must satisfy the recordkeeping requirements of this section by the compliance date for your source specified in Table 1 of § 63.2834.

(b) Before September 15, 2020, prepare a plan for demonstrating compliance (as described in § 63.2851) and a SSM plan (as described in § 63.2852). In these two plans, describe the procedures you will follow in obtaining and recording data, and determining compliance under normal operations or a SSM subject to the § 63.2850(c)(2) or (d)(2) initial startup period or the § 63.2850(e)(2) malfunction period. Complete both plans before the compliance date for your source and keep them on-site and readily available as long as the source is operational. On and after September 15, 2020, the requirement to prepare a SSM plan no longer applies, and the plan for demonstrating compliance must only describe the procedures you develop according to the requirements of § 63.2851.

(c) If your source processes any listed oilseed, record the items in paragraphs (c)(1) through (3) of this section:

(1) For the solvent inventory, record the information in paragraphs (c)(1)(i) through (vii) of this section in accordance with your plan for demonstrating compliance:

(i) Dates that define each operating status period during a calendar month.

(ii) The operating status of your source such as normal operation, nonoperating, initial startup period, malfunction period, or exempt operation for each recorded time interval.

(iii) Record the gallons of extraction solvent in the inventory on the beginning and ending dates of each normal operating period.

(iv) The gallons of all extraction solvent received, purchased, and recovered during each calendar month.

(v) All extraction solvent inventory adjustments, additions or subtractions. You must document the reason for the adjustment and justify the quantity of the adjustment.

(vi) The total solvent loss for each calendar month, regardless of the source operating status.

(vii) The actual solvent loss in gallons for each operating month.

(2) For the weighted average volume fraction of HAP in the extraction solvent, you must record the items in paragraphs (c)(2)(i) through (iii) of this section:

(i) The gallons of extraction solvent received in each delivery.

(ii) The volume fraction of each HAP exceeding 1 percent by volume in each delivery of extraction solvent.

(iii) The weighted average volume fraction of HAP in extraction solvent received since the end of the last operating month as determined in accordance with § 63.2854(b)(2).

(3) For each type of listed oilseed processed, record the items in paragraphs (c)(3)(i) through (vi) of this section, in accordance with your plan for demonstrating compliance:

(i) The dates that define each operating status period. These dates must be the same as the dates entered for the extraction solvent inventory.

(ii) The operating status of your source, as described in § 63.2853(a)(2). On the log for each type of listed oilseed that is not being processed during a normal operating period, you must record which type of listed oilseed is being processed in addition to the source operating status.

(iii) The oilseed inventory for the type of listed oilseed being processed on the beginning and ending dates of each normal operating period.

(iv) The tons of each type of listed oilseed received at the affected source each normal operating period.

(v) All listed oilseed inventory adjustments, additions or subtractions for normal operating periods. You must document the reason for the adjustment and justify the quantity of the adjustment.

(vi) The tons of each type of listed oilseed processed during each operating month.

(d) After your source has processed listed oilseed for 12 operating months, record the items in paragraphs (d)(1) through (5) of this section by the end of the calendar month following each operating month:

(1) The 12 operating months rolling sum of the actual solvent loss in gallons as described in § 63.2853(c).

(2) The weighted average volume fraction of HAP in extraction solvent received for the previous 12 operating months as described in § 63.2854(b)(3).

(3) The 12 operating months rolling sum of each type of listed oilseed processed at the affected source in tons as described in § 63.2855(c).

(4) A determination of the compliance ratio. Using the values from §§ 63.2853, 63.2854, 63.2855, and Table 1 of § 63.2840, calculate the compliance ratio using Equation 2 of § 63.2840.

(5) A statement of whether the source is in compliance with all of the requirements of this subpart. This includes a determination of whether you have met all of the applicable requirements in § 63.2850.

(f) On and after September 15, 2020, for each initial startup period subject to § 63.2850(c)(2) or (d)(2), record the items in paragraphs (f)(1) through (6) of this section by the end of the calendar month following each month in which the initial startup period occurred.

(1) A description and dates of the initial startup period, and reason it qualifies as an initial startup.

(2) An estimate of the solvent loss in gallons for the duration of the initial startup or malfunction period with supporting documentation.

(3) Nominal design rate of the extractor and operating rate of the extractor for the duration of the initial startup period, or permitted production rate and actual production rate of your source for the duration of the initial startup period.

(4) Measured values for temperature and pressure for the desolventizing and oil distillation units associated with solvent recovery.

(5) Information to indicate the mineral oil absorption system was operating at all times during the initial startup period.

(6) Information to indicate the solvent condensers were operating at all times during the initial startup period.

(g) On and after September 15, 2020, keep the records of deviations specified in paragraphs (f)(1) through (4) of this section for each compliance determination you make in which the compliance ratio exceeds 1.00 as determined under § 63.2840(c) or if you deviate from the work practice standard for an initial startup period subject to § 63.2850(c)(2) or (d)(2).

(1) The number of deviations, and the date and duration of each deviation. For deviations from the compliance ratio, the date of the deviation is the date the compliance ratio determination is made. The duration of the deviation from the compliance ratio is the length of time taken to address the cause of the deviation, including the duration of any malfunction, and return the affected unit(s) to its normal or usual manner of operation. For deviations from the work practice standard during the initial startup

period, the date of the deviation is the date(s) when the facility fails to comply with any of the work practice standard in § 63.2840(h). The duration of the deviation from the work practice standard is the length of time taken to return to the work practice standards.

(2) A statement of the cause of each deviation (including unknown cause, if applicable).

(3) For each deviation, a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions.

(4) Actions taken to minimize emissions in accordance with § 63.2840(g), and any corrective actions taken to return the affected unit to its normal or usual manner of operation.

(5) If you deviate from the work practice standard for an initial startup period, a description of the deviation from the work practice standard.

(h) Any records required to be maintained by this part that are submitted electronically via EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or EPA as part of an on-site compliance evaluation.

### **Sec. 63.2863 In what form and how long must I keep my records?**

(a) Your records must be in a form suitable and readily available for review in accordance with § 63.10(b)(1).

(b) As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, in accordance with § 3.10(b)(1). You can keep the records off-site for the remaining 3 years.

### **Subpart A – General Provisions**

#### **§40 CFR 63.4, Prohibited Activities and Circumvention:**

(a) Prohibited activities.

(1) No owner or operator subject to the provisions of this part must operate any affected source in violation of the requirements of this part. Affected sources subject to and in compliance with either an extension of compliance or an exemption from compliance are not in violation of the requirements of this part. An extension of compliance can be granted by the Administrator under this part; by a State with an approved permit program; or by the President under section 112(i)(4) of the Act.

(2) No owner or operator subject to the provisions of this part shall fail to keep records, notify, report, or revise reports as required under this part.

(b) *Circumvention.* No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to –

(1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere;

(2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions; and

(c) *Fragmentation*. Fragmentation after November 15, 1990 which divides ownership of an operation, within the same facility among various owners where there is no real change in control, will not affect applicability. The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements.

**§40 CFR 63.6, Compliance with standards and maintenance requirements**

(e) *Operation and maintenance requirements*.

(1)(i) At all times, including periods of startup, shutdown, and malfunction, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the owner or operator reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner or operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in paragraph (e)(3) of this section), review of operation and maintenance records, and inspection of the source.

(ii) Malfunctions must be corrected as soon as practicable after their occurrence. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, an owner or operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices.

(iii) Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.

Authority for Requirement: 40 CFR 63 Subpart GGGG and Subpart A (General Provisions)  
567 IAC 23.1(4)"a"  
567 IAC 23.1(4)"cg"

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 98-2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>              | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------------------------|---------------------|-----------------------|----------------------------|
| EU98-2               | Feed House Germ Transport        | CE98-2: Baghouse<br>CE98-1: Baghouse* | Dry germ            | 78,000 lb/hr.         | 94-A-291-S4                |

\* Back-up unit only operated when CE98-2 is inoperable

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-291-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No Visible Emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.25 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-291-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.25 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-291-S4  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.15 lb/hr. 500 ppmv

Authority for Requirement: DNR Construction Permit 94-A-291-S4  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 0.22 lb/hr.

Authority for Requirement: Construction Permit 94-A-291-S4

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 1. The facility, Plant Number 23-01-006, shall not grind more than 138.7 million bushels of corn per rolling 12-month period.
  - A. Record monthly the amount of corn that is ground at the facility, Plant Number 23-01-006, in bushels. Calculated and record 12-month rolling totals.
- 2. The owner or operator shall maintain the control equipment according to manufacturer’s specifications and maintenance schedule or per written facility specific operation and maintenance plan.
  - A. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 94-A-291-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 69.9

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 3,100

Exhaust Temperature (°F): 160

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-291-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

### Refinery Process Equipment List

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>   | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|------------------------------------|---------------------------------------|
| 207-1                        | EU207-1                     | Refinery Converter Flash Tank Vent | 05-A-607                              |
| 207-2                        | EU207-2                     | DSP Converter Flash Tank Vent      | 05-A-608                              |
| B-25                         | EU24-4                      | Carbon Furnace No. 4               | 94-A-594-S10                          |
|                              | EU24-5                      | Carbon Furnace No. 5               |                                       |

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**Emission Point ID Number: 207-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EU207-1              | Refinery Converter Flash Tank    | Corn Starch         | 1,800 gallons/hr.     | 05-A-607                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-607  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-607  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 1.37 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-607

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 91  
Stack Opening, (inches, dia.): 10  
Exhaust Flow Rate (scfm): NA  
Exhaust Temperature (°F): 210  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-607

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 207-2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| EU207-2              | DSP Converter Flash Tank         | Liquified Starch    | 4,000 gallons         | 05-A-608                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 05-A-608  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 05-A-608  
567 IAC 23.3(3)"e"

Pollutant: VOC's

Emission Limit(s): 1.03 lb/hr.

Authority for Requirement: DNR Construction Permit 05-A-608

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 91  
Stack Opening, (inches, dia.): 6  
Exhaust Flow Rate (scfm): NA  
Exhaust Temperature (°F): 210  
Discharge Style: Horizontal  
Authority for Requirement: DNR Construction Permit 05-A-608

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: EP B-25**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>   | <b>Raw Material</b>       | <b>Rated Capacity</b>               | <b>Construction Permit</b> |
|----------------------|----------------------------------|--|---------------------------|-------------------------------------|----------------------------|
| EU 24-4              | Carbon Furnace No. 4             | Venturi Scrubber (CE 24-4A)<br>Afterburner, hearth 0, (CE 24-4B) | Carbon/<br>Natural<br>Gas | 1.67 tons/hr.<br>21.86<br>MMBtu/hr. | 94-A-594-S10               |
| EU 24-5              | Carbon Furnace No. 5             | Afterburner '0' hearth (CE 24-5)<br>Venturi Scrubber (CE 24-6)   | Carbon/<br>Natural<br>Gas | 1.67 tons/hr.<br>21.86<br>MMBtu/hr. |                            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

DNR Construction Permit 94-A-594-S10

<sup>(1)</sup>An exceedance of the indicator opacity of (5%) will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.30 lb/hr

Authority for Requirement: DNR Construction Permit 94-A-594-S10

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.30 lb/hr, 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"

DNR Construction Permit 94-A-594-S10

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 10.9 lb/hr, 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)

DNR Construction Permit 94-A-594-S10

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 9.75 lb/hr  
Authority for Requirement: DNR Construction Permit 94-A-594-S10

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 9.2 lb/hr  
Authority for Requirement: DNR Construction Permit 94-A-594-S10

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 31.0 lb/hr  
Authority for Requirement: DNR Construction Permit 94-A-594-S10

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The maximum throughput of Carbon Furnace #4 (EU 24-4) shall not exceed 80,000 pounds of carbon per day.
  - (1) The owner or operator shall record the amount of carbon processed by Carbon Furnace #4 each day.
- B. The temperature of the afterburner, Hearth 0, (CE24-4B) for Carbon Furnace #4 shall be maintained above 1334°F.
  - (1) A continuous record of the afterburner temperature for the afterburner on Carbon Furnace #4 (CE24-4B).
- C. The pressure drop across the venturi scrubber (CE24-4A) for Carbon Furnace #4 shall be maintained at or above 10.0 inches of water column.
  - (1) A continuous record of the pressure drop across the venturi scrubber on Carbon Furnace #4 (CE24-4A).
- D. The water feed rate to the venturi scrubber (CE24-4A) for Carbon Furnace #4 shall be maintained above 100 gallons per minute.
  - (1) A continuous record of the water feed rate to the venturi scrubber on Carbon Furnace #4 (CE24-4A).
- E. The pH of the scrubber's liquor (CE24-4A) shall be maintained above 7.2, in standard units.
  - (1) A record of the pH of the liquor for the scrubber on Carbon Furnace #4 (CE24-4A). The pH shall be measured once per day at a minimum.

- F. The maximum throughput of Carbon Furnace #5 (EU 24-5) shall not exceed 80,000 pounds per day.
- (1) The owner or operator shall record the amount of carbon processed by Carbon Furnace #5 each day.
- G. The temperature of the '0' hearth afterburner (CE 24-5) for Carbon Furnace #5 shall be maintained above 1334°F.
- (1) A continuous record of the afterburner temperature for the afterburner (CE24-5) on Carbon Furnace #5 (24-5).
- H. The pressure drop across the venturi scrubber (CE 24-6) for Carbon Furnace #5 shall be maintained at or above 10.0 inches of water column.
- (1) A continuous record of the pressure drop across the venturi scrubber on Carbon Furnace #5 (CE24-6).
- I. The water feed rate to the venturi scrubber (CE 24-6) for Carbon Furnace #5 shall be maintained above 100 gallons per minute.
- (1) A continuous record of the water feed rate to the venturi scrubber on Carbon Furnace #5 (CE 24-6).
- J. The pH of the scrubber's liquor (CE 24-6) shall be maintained above 7.2, in standard units.
- (1) A record of the pH of the liquor for the venturi scrubber (CE 24-6) on Carbon Furnace #5 (CE 24-6). The pH shall be measured once per day at a minimum.

Authority for Requirement: DNR Construction Permit 94-A-594-S10

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 202.9

Stack Opening, (inches, dia.): 96

Exhaust Flow Rate (scfm): 141,000

Exhaust Temperature (°F): 160

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-594-S10

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No   
*CAM is applicable for EU 24-4.*

Authority for Requirement: 567 IAC 22.108(3)

### Starch Process Equipment List

| <b>Emission Point Number</b>            | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>    | <b>DNR Construction Permit Number</b> |
|---|-----------------------------|-------------------------------------|---------------------------------------|
| B-107                                   | EU114-14A                   | No. 4 Starch Dryer                  | 94-A-595-S2                           |
|   | EU111-5A                    | No. 5 Starch Dryer                  |                                       |
|   | EU107-5A                    | No. 6 Starch Dryer                  |                                       |
|   | EU107-11B                   | No. 7 Starch Dryer                  |                                       |
|   | EU139-6A                    | No. 8 Starch Dryer                  |                                       |
|   | EU107-7A                    | No. 9 Starch Dryer                  |                                       |
| B-107-4                                 | EU114-14A                   | No. 4 Stach Dryer – Bypass          | 17-A-553                              |
|   | EU139-6A                    | No 8 Starch Dryer – Bypass          |                                       |
| B-107-5                                 | EU111-5A                    | No. 5 Starch Dryer – Bypass         | 17-A-554                              |
| B-107-6                                 | EU107-5A                    | No. 6 Starch Dryer – Bypass         | 17-A-555                              |
| B-107-7                                 | EU107-11B                   | No. 7 Starch Dryer – Bypass         | 17-A-556                              |
| B-107-9                                 | EU107-7A                    | No. 9 Starch Dryer – Bypass         | 17-A-558                              |
| B-107-4A                                | EU114-14A                   | No. 4 Starch Dryer – Alternate Vent | 23-A-110                              |
| B-107-4B                                | EU114-14A                   | No. 4 Starch Dryer – Alternate Vent | 23-A-111                              |
| B-107-8                                 | EU139-6A                    | No. 8 Starch Dryer – Bypass         | 17-A-557-S1                           |
| 102-12<br>102-13<br><br>(Current State) | EU102-7                     | Starch Slurry Tank #1               | 05-A-601-S1<br>05-A-602-S1            |
|   | EU102-8                     | Starch Slurry Tank #2               |                                       |
|   | EU102-9                     | Starch Slurry Tank #3               |                                       |
|   | EU102-10                    | Starch Slurry Tank #4               |                                       |
|   | EU121-1                     | Starch Slurry Tank #5               |                                       |
|   | EU121-2                     | Starch Slurry Tank #6               |                                       |
|   | EU121-3                     | Starch Slurry Tank #7               |                                       |
|   | EU121-4                     | Starch Slurry Tank #8               |                                       |
|   | EU123-3A                    | Starch Slurry Tank #9               |                                       |
|   | EU123-3B                    | Starch Slurry Tank #10              |                                       |
|   | EU123-3C2                   | Starch Slurry Tank #11              |                                       |
|   | EU123-3D                    | Starch Slurry Tank #12              |                                       |
|   | EU123-4A2                   | Starch Slurry Tank #13              |                                       |
|   | EU123-4B                    | Starch Slurry Tank #14              |                                       |
|   | EU123-4C                    | Starch Slurry Tank #15              |                                       |
|   | EU123-4D2                   | Starch Slurry Tank #16              |                                       |
|   | EU132-2                     | Starch Slurry Tank #17              |                                       |
|   | EU132-4                     | Starch Slurry Tank #18              |                                       |
|   | EU132-5                     | Starch Slurry Tank #19              |                                       |
|   | EU132-6B                    | Starch Slurry Tank #20              |                                       |
|   | EU132-7B                    | Starch Slurry Tank #21              |                                       |
|   | EU132-8B                    | Starch Slurry Tank #22              |                                       |
|   | EU138-3                     | Starch Slurry Tank #23              |                                       |
|   | EU138-5B                    | Starch Slurry Tank #24              |                                       |
|   | EU120-1B                    | Starch Slurry Tank #25              |                                       |
|   | EU120-2B                    | Starch Slurry Tank #26              |                                       |
|   | EU120-3B                    | Starch Slurry Tank #27              |                                       |
|   | EU120-4B                    | Starch Slurry Tank #28              |                                       |
| EU120-5B                                | Starch Slurry Tank #29      |                                     |                                       |
| EU112-5                                 | Starch Slurry Tank #30      |                                     |                                       |

|  |                        |                         |                            |
|--|------------------------|-------------------------|----------------------------|
|  | EU112-6                | Starch Slurry Tank #31  |                            |
|  | EU112-7                | Starch Slurry Tank #32  |                            |
|  | EU120-6B               | Starch Slurry Tank #36  |                            |
|  | EU120-7B               | Starch Slurry Tank #37  |                            |
|  | EU120-8B               | Starch Slurry Tank #38  |                            |
| 102-12<br>102-13<br><br>(Future State) | EU 102-7               | Starch Slurry Tank #1   | 05-A-601-S2<br>05-A-602-S2 |
|  | EU 102-8               | Starch Slurry Tank #2   |                            |
|  | EU 102-9               | Starch Slurry Tank #3   |                            |
|  | EU 102-10              | Starch Slurry Tank #4   |                            |
|  | EU 121-1               | Starch Slurry Tank #5   |                            |
|  | EU 121-2               | Starch Slurry Tank #6   |                            |
|  | EU 121-3               | Starch Slurry Tank #7   |                            |
|  | EU 121-4               | Starch Slurry Tank #8   |                            |
|  | EU 123-3A              | Starch Slurry Tank #9   |                            |
|  | EU 123-3B              | Starch Slurry Tank #10  |                            |
|  | *EU 123-3C2            | Starch Slurry Tank #11  |                            |
|  | EU 123-3D              | Starch Slurry Tank #12  |                            |
|  | *EU 123-4A2            | Starch Slurry Tank #13  |                            |
|  | EU 123-4B              | Starch Slurry Tank #14  |                            |
|  | EU 123-4C              | Starch Slurry Tank #15  |                            |
|  | *EU 123-4D2            | Starch Slurry Tank #16  |                            |
|  | EU 132-2               | Starch Slurry Tank #17  |                            |
|  | EU 132-4               | Starch Slurry Tank #18  |                            |
|  | EU 132-5               | Starch Slurry Tank #19  |                            |
|  | *EU 132-6B             | Starch Slurry Tank #20  |                            |
|  | *EU 132-7B             | Starch Slurry Tank #21  |                            |
|  | *EU 132-8B             | Starch Slurry Tank #22  |                            |
|  | EU 138-3               | Starch Slurry Tank #23  |                            |
|  | *EU 138-5B             | Starch Slurry Tank #24  |                            |
|  | *EU 120-1B             | Starch Slurry Tank #25  |                            |
|  | *EU 120-2B             | Starch Slurry Tank #26  |                            |
|  | *EU 120-3B             | Starch Slurry Tank #27  |                            |
|  | *EU 120-4B             | Starch Slurry Tank #28  |                            |
|  | *EU 120-5B             | Starch Slurry Tank #29  |                            |
|  | EU 112-5               | Starch Slurry Tank #30  |                            |
| EU 112-6                               | Starch Slurry Tank #31 |                         |                            |
| EU 112-7                               | Starch Slurry Tank #32 |                         |                            |
| *EU 120-6B                             | Starch Slurry Tank #36 |                         |                            |
| *EU 120-7B                             | Starch Slurry Tank #37 |                         |                            |
| *EU 120-8B                             | Starch Slurry Tank #38 |                         |                            |
| 107-1A                                 | EU107-1A               | #9 Starch Press Vent #1 | 11-A-746-S1                |
| 107-1B                                 | EU107-1B               | #9 Starch Press Vent #2 | 11-A-747-S1                |
| 108-1                                  | EU108-1                | A Starch Hopper         | NA                         |
| 108-2                                  | EU108-2                | B Starch Hopper         | NA                         |
| 108-3                                  | EU108-3                | C Starch Hopper         | NA                         |
| 108-4                                  | EU108-4                | D Starch Hopper         | NA                         |
| 108-5                                  | EU108-5                | CS Starch Rail Loadout  | 21-A-007                   |
| 109-1                                  | EU109-1                | A-Line Dust Collector   | NA                         |
| 109-2                                  | EU109-2                | B-Line Dust Collector   | NA                         |
| 110-1                                  | EU110-1                | I Starch Hopper         | 98-A-828                   |

|       |            |  |             |
|-------|------------|--|-------------|
| 110-2 | EU110-2    | J Starch Hopper                            | 98-A-829    |
| 111-1 | EU111-1    | E Starch Hopper                            | NA          |
| 111-2 | EU111-2    | F Starch Hopper                            | NA          |
| 111-3 | EU111-3    | G Starch Hopper                            | NA          |
| 111-4 | EU111-4    | H Starch Hopper                            | NA          |
| 112-4 | EU112-4A/D | Hydrochloric Acid Storage Tanks 1, 2, 3, 4 | 04-A-190    |
| 124-1 | EU124-1    | Starch Bag Packing Hopper                  | 94-A-325-S1 |
| 124-2 | EU124-2    | Starch Bag Packing Dust Collector          | 94-A-324    |
| 127-1 | EU127-1    | Starch Tote Packer Storage Hopper          | 14-A-289-S1 |
| 137-1 | EU137-1A   | No. 20 Fuller Air Merge                    | 08-A-528-S2 |
|       | EU137-1B   | No. 21 Fuller Air Merge                    |             |
|       | EU137-1C   | No. 22 Fuller Air Merge                    |             |
| 137-2 | EU137-2A   | No. 23 Fuller Air Merge                    | 08-A-623-S3 |
|       | EU137-2B   | No. 24 Fuller Air Merge                    |             |
| 137-3 | EU137-3    | No. 25 Fuller Air Merge                    | 13-A-111-S2 |

**Emission Point ID Number: B-107**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>                                     | <b>Raw Material</b>        | <b>Rated Capacity</b>           | <b>Construction Permit</b> |
|----------------------|----------------------------------|--|----------------------------|---------------------------------|----------------------------|
| EU114-14A            | No. 4 Starch Dryer               | CE114-14A:<br>Scrubber No. 1<br>CE114-15A:<br>Scrubber No. 2 | Corn Starch<br>Natural Gas | 11.46 tons/hr.<br>0.03 mmcf/hr. | 94-A-595-S3                |
| EU111-5A             | No. 5 Starch Dryer               | CE111-5A:<br>Scrubber No. 1<br>CE111-6A:<br>Scrubber No. 2   | Corn Starch<br>Natural Gas | 11.47 tons/hr.<br>0.03 mmcf/hr. |                            |
| EU107-5A             | No. 6 Starch Dryer               | CE107-5A:<br>Scrubber No. 1<br>CE107-6A:<br>Scrubber No. 2   | Corn Starch<br>Natural Gas | 9.38 tons/hr.<br>0.029 mmcf/hr. |                            |
| EU107-11B            | No. 7 Starch Dryer               | CE107-11A:<br>Scrubber                                       | Corn Starch<br>Natural Gas | 5 tons/hr.<br>0.015 mmcf/hr.    |                            |
| EU139-6A             | No. 8 Starch Dryer               | CE139-6A:<br>Scrubber  | Corn Starch<br>Natural Gas | 10 tons/hr.<br>0.03 mmcf/hr.    |                            |
| EU107-7A             | No. 9 Starch Dryer               | CE107-7A:<br>Scrubber No. 1<br>CE107-8A:<br>Scrubber No. 2   | Corn Starch<br>Natural Gas | 9.38 tons/hr.<br>0.029 mmcf/hr. |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-595-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 23.46 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-595-S3

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 94-A-595-S3  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 0.073 lb/hr., 500 ppmv  
Authority for Requirement: DNR Construction Permit 94A-595-S3  
567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 19.94 lb/hr.  
Authority for Requirement: DNR Construction Permit 94-A-595-S3

Pollutant: VOC's  
Emission Limit(s): 17.81 lb/hr.  
Authority for Requirement: DNR Construction Permit 94-A-595-S3

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 27.51 lb/hr.  
Authority for Requirement: DNR Construction Permit 94-A-595-S3

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall maintain scrubbant flowrate for each of the scrubbers at or above 40 gallons per minute.
  - A. The owner or operator shall maintain a continuous record of the scrubbant flowrate for each of the scrubbers, in gallons per minute. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
2. The owner or operator shall maintain pressure drop for each of the scrubbers 0.1-7.0 inches water column.
  - A. The owner or operator shall maintain a continuous record of the pressure drop for each of the scrubbers, in inches of water column. This requirement shall not apply on the days that the scrubber or the equipment that the scrubber controls is not in operation.
3. The control equipment shall be inspected and maintained according to manufacturer's specifications.
  - A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 94-A-595-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 151.7

Stack Opening, (feet, dia.): 168

Exhaust Flow Rate (scfm): 273,333

Exhaust Temperature (°F): 120

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-595-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: Starch Dryer Bypass Stacks 4, 5, 6 7, 9**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>                               | <b>Raw Material</b>         | <b>Rated Capacity</b>           | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|--|-----------------------------|---------------------------------|----------------------------|
| B-107-4*              | EU114-14A            | No. 4 Starch Dryer               | CE114-14A: Scrubber No. 1<br>CE114-15A: Scrubber No. 2 | Corn Starch/<br>Natural Gas | 11.46 tons/hr.<br>0.03 mmcf/hr. | 17-A-553                   |
|                       | EU139-6A             | No. 8 Starch Dryer               | CE139-6A: Scrubber                                     | Corn Starch/<br>Natural Gas | 10 tons/hr.<br>0.03 mmcf/hr.    |                            |
| B-107-5               | EU111-5A             | No. 5 Starch Dryer               | CE111-5A: Scrubber<br>CE111-6A: Scrubber               | Corn Starch/<br>Natural Gas | 11.46 tons/hr.<br>0.03 mmcf/hr. | 17-A-554                   |
| B-107-6               | EU107-5A             | No. 6 Starch Dryer               | CE107-5A: Scrubber<br>CE107-6A: Scrubber               | Corn Starch/<br>Natural Gas | 9.38 tons/hr.<br>0.029 mmcf/hr. | 17-A-555                   |
| B-107-7               | EU107-11B            | No. 7 Starch Dryer               | CE107-11A: Scrubber                                    | Corn Starch/<br>Natural Gas | 5 tons/hr.<br>0.015 mmcf/hr.    | 17-A-556                   |
| B-107-9               | EU107-7A             | No. 9 Starch Dryer               | CE107-7A: Scrubber<br>CE107-8A: Scrubber               | Corn Starch/<br>Natural Gas | 9.38 tons/hr.<br>0.029 mmcf/hr. | 17-A-558                   |

\*To be decommissioned. See EP B-107-4A & EP B107-4B.

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: See construction permits listed in the table above  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: See construction permits listed in the table above  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.012 lb/hr., 500 ppm

Authority for Requirement: See construction permits listed in the table above  
567 IAC 23.3(3)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The control equipment shall be inspected and maintained according to manufacturer's specifications.
  - A. The owner or operator shall keep records of control equipment inspections and maintenance.
2. Each Starch Dryer is limited to venting from its associated stack for a maximum of 96 hours per rolling 12-month period.
  - A. The owner or operator shall maintain a monthly record of the hours of use for this alternate stack.
  - B. The owner or operator shall calculate and record the rolling 12-month total.

Authority for Requirement: See construction permits listed in the table above

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height, (ft., from the ground)</b> | <b>Stack Opening, (inches, dia.)</b> | <b>Exhaust Flow Rate (acfm)</b> | <b>Exhaust Temperature (°F)</b> | <b>Discharge Style</b> | <b>Authority for Requirement</b> |
|-----------------------|---|--------------------------------------|---------------------------------|---------------------------------|------------------------|----------------------------------|
| B-107-4               | 45.565                                      | 83                                   | 51,390                          | 136                             | Vertical Unobstructed  | 17-A-553                         |
| B-107-5               | 44.508                                      | 60                                   | 51,390                          | 136                             | Vertical Unobstructed  | 17-A-554                         |
| B-107-6               | 44.34                                       | 60                                   | 51,390                          | 136                             | Vertical Unobstructed  | 17-A-555                         |
| B-107-7               | 46.4  | 48                                   | 26,842                          | 136                             | Vertical Unobstructed  | 17-A-556                         |
| B-107-9               | 44.475                                      | 60                                   | 49,480                          | 136                             | Vertical Unobstructed  | 17-A-558                         |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: #4 Starch Dryer Alternate Vents**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>     | <b>Raw Material</b>         | <b>Rated Capacity</b>           | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|------------------------------|-----------------------------|---------------------------------|----------------------------|
| B-107-4A              | EU114-14A            | No. 4 Starch Dryer               | CE114-14A:<br>Scrubber No. 1 | Corn Starch/<br>Natural Gas | 11.46 tons/hr.<br>0.03 mmcf/hr. | 23-A-110                   |
| B-107-4B              |                      |                                  | CE114-15A:<br>Scrubber No. 2 |                             |                                 | 23-A-111                   |

\*Construction of these emission points have not been completed at the time of Title V Permit issuance.

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from the emission points shall not exceed the levels specified below.*

**Combined Emission Limits for B-107-4A & B-107-4B:**

Pollutant: Particulate Matter (PM)

Emission Limit(s): 4.74 lb/hr

Authority for Requirement: DNR Construction Permit 23-A-110, 23-A-111

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.012 lb/hr

Authority for Requirement: DNR Construction Permit 23-A-110, 23-A-111

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 3.67 lb/hr

Authority for Requirement: DNR Construction Permit 23-A-110, 23-A-111

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 3.60 lb/hr

Authority for Requirement: DNR Construction Permit 23-A-110, 23-A-111

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 5.06 lb/hr

Authority for Requirement: DNR Construction Permit 23-A-110, 23-A-111

### **Emission Point Specific Emission Limits (Individual):**

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 23-A-110, 23-A-111  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 23-A-110, 23-A-111  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppm<sub>v</sub>

Authority for Requirement: DNR Construction Permit 23-A-110, 23-A-111  
567 IAC 23.3"e"

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. Due to the changes evaluated under Project Number 23-075, Alternate Vent 4 (EP B-107-4) will be decommissioned. The owner or operator shall decommission Alternate Vent 4 (EP B-107-4) within 180 days from the issuance of this permit. (Issued 5/10/2023)
  - A. The owner or operator shall rescind Permit No. 17-A-553 within 30 days of decommissioning Alternate Vent 4 (EP B-107-4).
2. Alternate Vent CS (EP B-107-4A) and Alternate Vent RS (EP B-107-4B), each shall be restricted to operate no more than 96 hours per rolling 12-month period.
  - A. The owner or operator shall record the total number of hours that each alternate vent operates on a monthly basis.
  - B. The owner or operator shall calculate and record the total number of hours that each alternate vent operates on a rolling 12-month basis.
3. The owner or operator shall maintain the scrubbing liquid flowrate for each scrubber (CE 111-14A and CE 111-15A) at or above 40 gallons per minute, based on a daily (calendar day) averaging period.
  - A. The owner or operator shall continuously collect and record the scrubbing liquid flowrate, in gallons per minute, for each scrubber (CE 111-14A and CE 111-15A). This requirement shall not apply when the scrubber or the equipment the scrubber controls is not in operation.
  - B. The owner or operator shall install a scrubbing liquid flowrate monitoring device that shall be operated and maintained according to the manufacturer's recommendations, instructions, and operating manuals.
  - C. If the scrubbing liquid flowrate falls below the required value, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator

shall also record when the scrubbing liquid flowrate is again at or above the allowed value.

4. The owner or operator shall maintain the pressure drop differential across each scrubber (CE 111-14A and CE 111-15A) between 0.1- and 7.0-inches water column, based on a daily (calendar day) averaging period.
  - A. The owner or operator shall continuously collect and record the pressure drop differential, in inches water column, across each scrubber (CE 111-14A and CE 111-15A). This requirement shall not apply when the scrubber or the equipment the scrubber controls is not in operation.
  - B. The owner or operator shall install a pressure drop monitoring device that shall be operated and maintained according to the manufacturer's recommendations, instructions, and operating manuals.
  - C. If the pressure drop differential falls outside the required range, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the pressure drop differential is again within the allowed range.
5. The owner or operator shall operate, inspect, and maintain each scrubber (CE 111-14A and CE 111-15A) according to the manufacturer's specifications and instructions.
  - A. The owner or operator shall keep a log of all maintenance and inspection activities performed on each scrubber (CE 111-14A and CE 111-15A). At a minimum, this log shall include any issues identified during inspection and maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permits 23-A-110, 23-A-111

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height, (ft., from the ground)</b> | <b>Stack Opening, (inches, dia.)</b> | <b>Exhaust Flow Rate (scfm)</b> | <b>Exhaust Temperature (°F)</b> | <b>Discharge Style</b> | <b>Authority for Requirement</b> |
|-----------------------|---|--------------------------------------|---------------------------------|---------------------------------|------------------------|----------------------------------|
| EP B-107-4A           | 155   | 59.8                                 | 22,766                          | 136                             | Vertical Unobstructed  | 23-A-110                         |
| EP B-107-4B           | 155   | 59.8                                 | 22,766                          | 136                             | Vertical Unobstructed  | 23-A-111                         |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Number: B-107-8 Stach Dryer Bypass Stack 8

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description | Control Equipment  | Raw Material                | Rated Capacity               | Construction Permit |
|----------------|---------------|---------------------------|--------------------|-----------------------------|------------------------------|---------------------|
| B-107-8        | EU139-6a      | No. 8 Starch Dryer        | CE139-6A: Scrubber | Corn Starch/<br>Natural Gas | 10 tons/hr.<br>0.03 mmcf/hr. | 17-A-557-S1         |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 17-A-557-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 17-A-557-S1  
567 IAC 23.4(7)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.012 lb/hr., 500 ppm

Authority for Requirement: DNR Construction Permit 17-A-557-S1  
567 IAC 23.3(3)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 1. The control equipment shall be inspected and maintained according to manufacturer’s specifications.
  - A. The owner or operator shall keep records of control equipment inspections and maintenance.
- 2. Starch Dryer #8 (EU 139-6a) is limited to venting from this stack for a maximum of 360 hours per rolling 12-month period.
  - A. The owner or operator shall maintain a monthly record of the hours of use for this alternate stack.
  - B. The owner or operator shall calculate and record the rolling 12-month total.

Authority for Requirement: DNR Construction Permit 17-A-557-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 77.1  
 Stack Opening, (inches, dia.): 60  
 Exhaust Flow Rate (scfm): 37,953  
 Exhaust Temperature (°F): 136  
 Discharge Style: Vertical Unobstructed  
 Authority for Requirement: DNR Construction Permit 17-A-557-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

- Agency Approved Operation & Maintenance Plan Required?**      Yes  No
- Facility Maintained Operation & Maintenance Plan Required?**      Yes  No
- Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: 102-12 & 102-13 (Current State)**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>                           | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--|---------------------|-----------------------|----------------------------|
| EU 102-7             | Starch Slurry Tank #1            | CE102-12:<br>Scrubber<br><br>CE102-13:<br>Scrubber | Starch              | 25,000                | 05-A-601-S1<br>05-A-602-S1 |
| EU 102-8             | Starch Slurry Tank #2            |  | Starch              | 25,000                |                            |
| EU 102-9             | Starch Slurry Tank #3            |  | Starch              | 25,000                |                            |
| EU 102-10            | Starch Slurry Tank #4            |  | Starch              | 25,000                |                            |
| EU 121-1             | Starch Slurry Tank #5            |  | Starch              | 25,000                |                            |
| EU 121-2             | Starch Slurry Tank #6            |  | Starch              | 25,000                |                            |
| EU 121-3             | Starch Slurry Tank #7            |  | Starch              | 25,000                |                            |
| EU 121-4             | Starch Slurry Tank #8            |  | Starch              | 25,000                |                            |
| EU 123-3A            | Starch Slurry Tank #9            |  | Starch              | 25,000                |                            |
| EU 123-3B            | Starch Slurry Tank #10           |  | Starch              | 25,000                |                            |
| EU 123-3D            | Starch Slurry Tank #12           |  | Starch              | 25,000                |                            |
| EU 123-4A            | Starch Slurry Tank #13           |  | Starch              | 25,000                |                            |
| EU 123-4B            | Starch Slurry Tank #14           |  | Starch              | 25,000                |                            |
| EU 123-4C            | Starch Slurry Tank #15           |  | Starch              | 25,000                |                            |
| EU 123-4D            | Starch Slurry Tank #16           |  | Starch              | 25,000                |                            |
| EU 132-2             | Starch Slurry Tank #17           |  | Starch              | 20,000                |                            |
| EU 132-4             | Starch Slurry Tank #18           |  | Starch              | 20,000                |                            |
| EU 132-5             | Starch Slurry Tank #19           |  | Starch              | 20,000                |                            |
| EU 132-6             | Starch Slurry Tank #20           |  | Starch              | 20,000                |                            |
| EU 132-7             | Starch Slurry Tank #21           |  | Starch              | 25,000                |                            |
| EU 132-8             | Starch Slurry Tank #22           |  | Starch              | 25,000                |                            |
| EU 138-3             | Starch Slurry Tank #23           |  | Starch              | 25,000                |                            |
| EU 138-5             | Starch Slurry Tank #24           |  | Starch              | 25,000                |                            |
| EU 120-1             | Starch Slurry Tank #25           |  | Starch              | 65,000                |                            |
| EU 120-2             | Starch Slurry Tank #26           |  | Starch              | 65,000                |                            |
| EU 120-3             | Starch Slurry Tank #27           |  | Starch              | 65,000                |                            |
| EU 120-4             | Starch Slurry Tank #28           |  | Starch              | 65,000                |                            |
| EU 120-5             | Starch Slurry Tank #29           |  | Starch              | 65,000                |                            |
| EU 112-5             | Starch Slurry Tank #30           |  | Starch              | 50,000                |                            |
| EU 112-6             | Starch Slurry Tank #31           |  | Starch              | 50,000                |                            |
| EU 112-7             | Starch Slurry Tank #32           |  | Starch              | 50,000                |                            |
| EU 120-6             | Starch Slurry Tank #36           |  | Starch              | 65,000                |                            |
| EU 120-7             | Starch Slurry Tank #37           |  | Starch              | 65,000                |                            |
| EU 120-8             | Starch Slurry Tank #38           |  | Starch              | 65,000                |                            |

## **Applicable Requirements**

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: VOC's

Emission Limit(s): 230 tons/yr<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 05-A-601-S2 and 05-A-602-S2

<sup>(1)</sup>Combined total from both stacks.

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The control equipment shall be inspected and maintained according to manufacturer's specifications.
2. The total scrubbant flow rate shall not be less than 25 gallons per minute per scrubber, based on a three hour rolling average.
3. The pressure drop across the scrubbers shall be maintained between 0.5 and 7 inches of water, based on a three hour rolling average.
4. The owner or operator shall use the correlation emission rates established to calculate VOC emission rates per each specialty product produced.
5. The owner or operator shall keep records of control equipment inspections and maintenance.
6. Monitor the total scrubbant flow rate, in gallons per minute. Calculate and record the three hour rolling average.
7. Monitor the total pressure drop across the scrubbers, in inches of water. Calculate and record the three hour rolling average.
8. The owner or operator shall keep track of specialty products produced on a daily basis, and calculate the monthly and twelve month rolling total VOC emissions for these emission points (EP 102-12 and 102-13) based on the correlation emission rates established for each specialty product produced

Authority for Requirement: DNR Construction Permits 05-A-601-S1 and 05-A-602-S1

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 61.8

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 10,000

Exhaust Temperature (°F): 90

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 05-A-601-S1 and 05-A-602-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: 102-12 & 102-13 (Future State)

### Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment                                  | Raw Material | Rated Capacity | Construction Permit        |
|---------------|---------------------------|--|--------------|----------------|----------------------------|
| EU 102-7      | Starch Slurry Tank #1     | CE102-12:<br>Scrubber<br><br>CE102-13:<br>Scrubber | Starch       | 25,000         | 05-A-601-S2<br>05-A-602-S2 |
| EU 102-8      | Starch Slurry Tank #2     |  | Starch       | 25,000         |                            |
| EU 102-9      | Starch Slurry Tank #3     |  | Starch       | 25,000         |                            |
| EU 102-10     | Starch Slurry Tank #4     |  | Starch       | 25,000         |                            |
| EU 121-1      | Starch Slurry Tank #5     |  | Starch       | 25,000         |                            |
| EU 121-2      | Starch Slurry Tank #6     |  | Starch       | 25,000         |                            |
| EU 121-3      | Starch Slurry Tank #7     |  | Starch       | 25,000         |                            |
| EU 121-4      | Starch Slurry Tank #8     |  | Starch       | 25,000         |                            |
| EU 123-3A     | Starch Slurry Tank #9     |  | Starch       | 25,000         |                            |
| EU 123-3B     | Starch Slurry Tank #10    |  | Starch       | 25,000         |                            |
| *EU 123-3C2   | Starch Slurry Tank #11    |  | Starch       | 25,000         |                            |
| EU 123-3D     | Starch Slurry Tank #12    |  | Starch       | 25,000         |                            |
| *EU 123-4A2   | Starch Slurry Tank #13    |  | Starch       | 25,000         |                            |
| EU 123-4B     | Starch Slurry Tank #14    |  | Starch       | 25,000         |                            |
| EU 123-4C     | Starch Slurry Tank #15    |  | Starch       | 25,000         |                            |
| *EU 123-4D2   | Starch Slurry Tank #16    |  | Starch       | 25,000         |                            |
| EU 132-2      | Starch Slurry Tank #17    |  | Starch       | 20,000         |                            |
| EU 132-4      | Starch Slurry Tank #18    |  | Starch       | 20,000         |                            |
| EU 132-5      | Starch Slurry Tank #19    |  | Starch       | 20,000         |                            |
| *EU 132-6B    | Starch Slurry Tank #20    |  | Starch       | 20,000         |                            |
| *EU 132-7B    | Starch Slurry Tank #21    |  | Starch       | 25,000         |                            |
| *EU 132-8B    | Starch Slurry Tank #22    |  | Starch       | 25,000         |                            |
| EU 138-3      | Starch Slurry Tank #23    |  | Starch       | 25,000         |                            |
| *EU 138-5B    | Starch Slurry Tank #24    |  | Starch       | 25,000         |                            |
| *EU 120-1B    | Starch Slurry Tank #25    |  | Starch       | 65,000         |                            |
| *EU 120-2B    | Starch Slurry Tank #26    |  | Starch       | 65,000         |                            |
| *EU 120-3B    | Starch Slurry Tank #27    |  | Starch       | 65,000         |                            |
| *EU 120-4B    | Starch Slurry Tank #28    |  | Starch       | 65,000         |                            |
| *EU 120-5B    | Starch Slurry Tank #29    |  | Starch       | 65,000         |                            |
| EU 112-5      | Starch Slurry Tank #30    |  | Starch       | 50,000         |                            |
| EU 112-6      | Starch Slurry Tank #31    |  | Starch       | 50,000         |                            |
| EU 112-7      | Starch Slurry Tank #32    |  | Starch       | 50,000         |                            |
| *EU 120-6B    | Starch Slurry Tank #36    |  | Starch       | 65,000         |                            |
| *EU 120-7B    | Starch Slurry Tank #37    |  | Starch       | 65,000         |                            |
| *EU 120-8B    | Starch Slurry Tank #38    |  | Starch       | 65,000         |                            |

\*Each of the proposed starch slurry tanks meet the definition of a “replacement unit” in 567 IAC 33.3(1) *Definition*

## Applicable Requirements

### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: VOC's

Emission Limit(s): 230 tons/yr<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 05-A-601-S2 and 05-A-602-S2

<sup>(1)</sup>Combined total from both stacks.

### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall complete the construction of the starch slurry tanks listed in Table 1 below by no later than December 31, 2026. NOTE: For PSD purposes, each of the proposed starch slurry tanks in Table 1 meet the definition of a “replacement unit” in 567 IAC 33.3(1) *Definitions*.

**Table 1 – Proposed Starch Slurry Tanks**

| <b>EU ID</b> | <b>EU Description</b>  |
|--------------|------------------------|
| EU 123-3C2   | Starch Slurry Tank #11 |
| EU 123-4A2   | Starch Slurry Tank #13 |
| EU 123-4D2   | Starch Slurry Tank #16 |
| EU 132-6B    | Starch Slurry Tank #20 |
| EU 132-7B    | Starch Slurry Tank #21 |
| EU 132-8B    | Starch Slurry Tank #22 |
| EU 138-5B    | Starch Slurry Tank #24 |
| EU 120-1B    | Starch Slurry Tank #25 |
| EU 120-2B    | Starch Slurry Tank #26 |
| EU 120-3B    | Starch Slurry Tank #27 |
| EU 120-4B    | Starch Slurry Tank #28 |
| EU 120-5B    | Starch Slurry Tank #29 |
| EU 120-6B    | Starch Slurry Tank #36 |
| EU 120-7B    | Starch Slurry Tank #37 |
| EU 120-8B    | Starch Slurry Tank #38 |

2. The owner or operator shall notify the Compliance Unit Supervisor and DNR Field Office in writing, within 30 days following initiation of the construction of each starch slurry tank listed in Table 1 of this “Collection of Air Permits.”
3. The owner or operator shall notify the Compliance Unit Supervisor and DNR Field Office in writing, within 15 days following the start of operation of each starch slurry tank listed in Table 1 of this “Collection of Air Permits.”

## **General Requirements**

4. The owner or operator shall maintain records of the type and amount of each specialty product produced on a daily basis by *all* the starch slurry tanks listed in this “Collection of Air Permits.”
5. The owner or operator shall develop and maintain on site a plan to monitor VOC emissions to establish a correlation to emission rates for the various specialty products produced by *all* the starch slurry tanks listed in this “Collection of Air Permits.”
  - a. The owner or operator shall use the correlation emission rates established to calculate VOC emission rates for each specialty product produced by *all* the starch slurry tanks listed in this “Collection of Air Permits.”
  - b. The owner or operator shall calculate and record the monthly and 12-month rolling totals, in tons, of VOC emissions, based on the correlation emission rates established for each specialty product produced by *all* the starch slurry tanks listed in this “Collection of Air Permits.”
6. Within 120 days of the issuance of this “Collection of Air Permits,” the owner or operator shall submit to the DNR, via a permit determination request, written copies of the emissions monitoring plans specified in Permit Condition 5 above for Department review and approval.

## **Control Equipment Requirements**

7. The owner or operator shall operate one or both wet scrubbers (CE 102-12 and CE 102-13) whenever any of the starch slurry tanks listed in this “Collection of Air Permits” is in operation.
8. The owner or operator shall maintain the differential pressure drop across each wet scrubber (CE 102-12 and CE 102-13) between 0.5- and 7-inches water column, based on a three-hour rolling average.
  - (5) The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the differential pressure drop across each wet scrubber (CE 102-12 and CE 102-13). The equipment shall be installed, operated, and maintained according to the manufacturer’s recommendations, instructions, and operating manuals.
  - (6) The owner or operator shall collect and record the differential pressure drop, in inches of water column, across each wet scrubber (CE 102-12 and CE 102-13) at a minimum of once every 15 minutes and calculate and record the three-hour rolling average. The three-hour rolling average differential pressure drop shall be calculated using all data points collected during the averaging period.
  - (7) If the differential pressure drop falls outside the required range, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the average differential pressure drop has returned within the allowed range.
  - (8) The requirements in Permit Conditions 8. (1) through 8. (3) shall not apply during periods that the starch slurry tanks listed in this “Collection of Air Permits” and the wet scrubbers (CE 102-12 and CE 102-13) are not in operation.
9. The owner or operator shall maintain the total scrubbing liquid flow rate for each wet scrubber (CE 102-12 and CE 102-13) at no less than 25 gallons per minute, based on a three-hour rolling average.
  - (1) The owner or operator shall install, operate, and maintain equipment necessary to continuously monitor the scrubbing liquid flow rate for each wet scrubber (CE 102-12 and CE 102-13). The equipment shall be installed, operated, and maintained according to the manufacturer’s recommendations, instructions, and operating manuals.
  - (2) The owner or operator shall collect and record the scrubbing liquid flow rate, in gallons

per minute, for each wet scrubber (CE 102-12 and CE 102-13) at a minimum of once every 15 minutes and calculate and record the three-hour rolling average. The three-hour rolling average scrubbing liquid flow rate shall be calculated using all data points collected during the averaging period.

- (3) If the scrubbing flow rate falls below the minimum required value, the owner or operator shall record the time, date, and actions taken to correct the situation. The owner or operator shall also record when the average scrubbing flow rate is back at or above the minimum required value.
- (4) The requirements in Permit Conditions 9 (1) through 9 (3) shall not apply during periods that the starch slurry tanks listed in this "Collection of Air Permits" and the wet scrubbers (CE 102-12 and CE 102-13) are not in operation.

10. The owner or operator shall operate, inspect, and maintain each wet scrubber (CE 102-12 and CE 102-13) according to the manufacturer's specifications and instructions.

- (1) The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment covered by this permit. At a minimum, this log shall include any issues identified during inspection and maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permits 05-A-601-S2 and 05-A-602-S2

### **Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 61.8 (EP 102-12), 61.9 (EP 102-13)

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 10,000

Exhaust Temperature (°F): 90

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 05-A-601-S2 and 05-A-602-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 107-1A & 107-1B

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description    | Raw Material | Rated Capacity | Construction Permit |
|----------------|---------------|------------------------------|--------------|----------------|---------------------|
| 107-1A         | EU107-1       | #9 Starch Dryer Press Filter | Starch       | 200 tons/day   | 11-A-746-S1         |
| 107-1B         |               |                              |              |                | 11-A-747-S1         |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 11-A-746-S1 & 11-A-747-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 11-A-746-S1 & 11-A-747-S1  
567 IAC 23.4(7)

#### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for these emission points are not required at this time.

**Emission Point Characteristics**

*These emission points shall conform to the specifications listed below.*

|  |             |             |
|--|-------------|-------------|
| <b>Emission Point</b>                      | 107-1A      | 107-1B      |
| <b>Stack Height, (ft, from the ground)</b> | 52.9        | 54.4        |
| <b>Stack Opening, (inches, dia.)</b>       | 10          | 18          |
| <b>Exhaust Flow Rate (scfm)</b>            | 100         | 100         |
| <b>Exhaust Temperature (°F)</b>            | 80          | 80          |
| <b>Discharge Style</b>                     | Horizontal  | Horizontal  |
| <b>Authority for Requirement</b>           | 11-A-746-S1 | 11-A-747-S1 |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Numbers: 108-1, 108-2, 108-3, 108-4**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|-----------------------|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|
| 108-1                 | EU108-1              | A Starch Hopper                  | CE108-1: Bin Vent Filter | Starch              | 9.38 tons             |
| 108-2                 | EU108-2              | B Starch Hopper                  | CE108-2: Bin Vent Filter | Starch              | 9.38 tons             |
| 108-3                 | EU108-3              | B Starch Hopper                  | CE108-3: Bin Vent Filter | Starch              | 9.38 tons             |
| 108-4                 | EU108-4              | D Starch Hopper                  | CE108-4: Bin Vent Filter | Starch              | 9.38 tons             |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for these emission points are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No   
*(Required for CE108-1, CE108-2, CE108-3, & CE108-4)*

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 108-5**

Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment | Raw Material | Rated Capacity | Construction Permit |
|---------------|---------------------------|-------------------|--------------|----------------|---------------------|
| EU108-5       | CS Starch Rail Loadout    | CE108-5: Baghouse | Starch       | 740,000 lb/hr  | 21-A-007            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 21-A-007  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No Visible Emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.35 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 21-A-007  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility shall maintain a differential pressure drop across the baghouse (CE 108-5) between 0.1 and 6.0 inches of water column (WC).
  - A. The owner or operator shall properly install, operate, and maintain equipment to continuously monitor the pressure drop of the baghouse (CE 108-5). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual or per a written facility-specific operation and maintenance plan.
    - i. The owner or operator shall collect and record the differential pressure across the baghouse, at a minimum, once per day when the emission unit the baghouse controls is in operation.
    - ii. If the differential pressure across the baghouse falls outside the permitted range allowed (0.1" – 6.0" WC), then the facility shall record the time, date and actions taken to correct the situation and when the differential pressure across the

baghouse is back with the permitted range allowed.

2. The owner or operator shall inspect and maintain the baghouse (CE 108-5) according to the facility's (Plant No. 23-01-006) operation and maintenance plan or manufacturer's specifications.
  - A. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. At a minimum, this log shall include:
    - i. The date any inspection and/or maintenance was performed on the control equipment;
    - ii. Any issues identified during the inspection; and,
    - iii. Any issues addressed during the maintenance activities
3. There shall be no visible emissions observed from the entrances or exits of the CS Starch Rail Loadout building.

Authority for Requirement: DNR Construction Permit 21-A-007

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 50

Stack Opening, (inches, dia.): 14

Exhaust Flow Rate (scfm): 4,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 21-A-007

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Numbers: 109-1 & 109-2**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>   | <b>Raw Material</b> | <b>Rated Capacity</b> |
|-----------------------|----------------------|----------------------------------|----------------------------|---------------------|-----------------------|
| 109-1                 | EU109-1              | A-Line Dust Collector            | CE109-1:<br>Dust Collector | Corn Starch         | 22.5 tons/hr.         |
| 109-2                 | EU109-2              | B-Line Dust Collector            | CE109-2:<br>Dust Collector | Corn Starch         | 22.5 tons/hr.         |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for these emission points are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 110-1 & 110-2

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description | Control Equipment        | Raw Material | Rated Capacity | Construction Permit |
|----------------|---------------|---------------------------|--------------------------|--------------|----------------|---------------------|
| 110-1          | EU110-1       | I Starch Hopper           | CE110-1: Bin Vent Filter | Corn Starch  | 22.5 tons/hr.  | 98-A-828            |
| 110-2          | EU110-2       | J Starch Hopper           | CE110-2: Bin Vent Filter | Corn Starch  | 22.5 tons/hr.  | 98-A-829            |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 98-A-828 & 98-A-829  
567 IAC 23.3(2)"d"

<sup>(1)</sup> If visible emissions are observed other than startup, shutdown, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.19 lb/hr., 0.83 tons/yr.

Authority for Requirement: DNR Construction Permits 98-A-828 & 98-A-829

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.32 lb/hr., 1.4 tons/yr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 98-A-828 & 98-A-829  
567 IAC 23.4(7)

#### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for these emission points are not required at this time.

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 65

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 690

Exhaust Temperature (°F): 70

Discharge Style: Obstructed Vertical or Horizontal

Authority for Requirement: DNR Construction Permits 98-A-828 & 98-A-829

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No   
*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Numbers: 111-1, 111-2, 111-3, 111-4**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|-----------------------|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|
| 111-1                 | EU111-1              | E Starch Hopper                  | CE111-1: Bin Vent Filter | Starch              | 11.47 tons/hr         |
| 111-2                 | EU111-2              | F Starch Hopper                  | CE111-2: Bin Vent Filter | Starch              | 11.47 tons/hr         |
| 111-3                 | EU111-3              | G Starch Hopper                  | CE111-3: Bin Vent Filter | Starch              | 11.46 tons/hr         |
| 111-4                 | EU111-4              | H Starch Hopper                  | CE111-4: Bin Vent Filter | Starch              | 11.46 tons/hr         |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for these emission points are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 112-4**Associated Equipment

| Emission Unit | Emission Unit Description                  | Control Equipment | Raw Material | Rated Capacity      | Construction Permit |
|---------------|--|-------------------|--------------|---------------------|---------------------|
| EU112-4A/D    | Hydrochloric Acid Storage Tanks 1, 2, 3, 4 | CE112-4: Scrubber | HCl          | 35,000 gallons each | 04-A-190            |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 04-A-190  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.29 lb/hr.

Authority for Requirement: DNR Construction Permit 04-A-190

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.29 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-190  
567 IAC 23.3(2)"a"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The pressure drop across the scrubber shall be maintained within the range outlined in the manufacturer's design specifications for the scrubber.
2. The liquid flow rate to the scrubber shall be maintained within the range outlined in the manufacturer's design specifications for the scrubber.
3. A copy of the scrubber manufacturer's design parameters including the pressure drop across and the liquid feed rate to the scrubber (CE 112-4) shall be maintained on-site for review.
4. The liquid feed to the packed bed scrubber (CE 112-4) shall be monitored continuously.
5. The pressure drop across the packed bed scrubber (CE 112-4) shall be monitored continuously.

Authority for Requirement: DNR Construction Permit 04-A-190

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 59  
Stack Opening, (inches, dia.): 12  
Exhaust Flow Rate (scfm): 1500  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 04-A-190

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 124-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU124-1              | Starch 50lb Bag Hopper No. 9     | CE124-1:<br>Baghouse     | Corn Starch         | 15 tons/hr.           | 94-A-325-S1                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: DNR Construction Permit 94-A-325-S1  
567 IAC 23.3(2)"d"

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.11 lb/hr., 0.47 tons/yr., 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-325-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 55  
Stack Opening, (inches): 11 x 13  
Exhaust Flow Rate (scfm): 1400  
Exhaust Temperature (°F): 70  
Authority for Requirement: DNR Construction Permit 94-A-325-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the Applicable Requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 124-2**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU124-2              | Starch 50lb Bemis Packer         | CE124-2:<br>Baghouse     | Starch              | 15 tons/hr.           | 94-A-324                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 5 %

Authority for Requirement: DNR Construction Permit 94-A-324  
567 IAC 23.3(2)"d"

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.069 lb/hr., 0.302 tons/yr., 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-324

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 55

Stack Opening, (inches): 4 x 6

Exhaust Flow Rate (scfm): 800

Exhaust Temperature (°F): 70

Authority for Requirement: DNR Construction Permit 94-A-324

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

#### **Opacity:**

The facility shall check for visible emissions weekly during a period when the emission unit is in operation and record the observation. If visible emissions are observed this would be an excursion not a violation and corrective action will be started as soon as possible, but no later than within 8 hours of findings. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >5% is observed, this would be a violation and corrective action will be started as soon as possible, but no later than within 8 hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the next possible day in which the equipment is operating and weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the Applicable Requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 127-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>  | <b>Control Equipment</b>    | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|-----------------------------------|-----------------------------|---------------------|-----------------------|----------------------------|
| EU127-1              | Starch Tote Packer Storage Hopper | CE127-1:<br>Bin Vent Filter | Starch              | 12,000 lb/hr.         | 14-A-289-S1                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 14-A-289-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emissions unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.34 lb/hr.

Authority for Requirement: DNR Construction Permit 14-A-289-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.34 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 14-A-289-S1  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The bin vent filter shall be maintained per manufacturer's recommendations.
2. The permittee shall maintain records of maintenance performed on bin vent filter on site.

Authority for Requirement: DNR Construction Permit 14-A-289-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 92  
Stack Opening, (inches, dia.): 12  
Exhaust Flow Rate (scfm): 2,200  
Exhaust Temperature (°F): 150  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 14-A-289-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No   
*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 137-1**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU137-1A             | No. 20 Fuller Air Merge          | CE137-1A:<br>Baghouse    | Starch              | 22.5 tons/hr.         | 08-A-528-S2                |
| EU137-1B             | No. 21 Fuller Air Merge          | CE137-1B:<br>Baghouse    | Starch              | 22.5 tons/hr.         |                            |
| EU137-1C             | No. 22 Fuller Air Merge          | CE137-1C:<br>Baghouse    | Starch              | 22.5 tons/hr.         |                            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 08-A-528-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.29 lb/hr.

Authority for Requirement: DNR Construction Permit 08-A-528-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.29 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 08-A-528-S2  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE137-1A, CE137-1B and CE137-1C) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE137-1A, CE137-1B and CE137-1C).

Authority for Requirement: DNR Construction Permit 08-A-528-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 87

Stack Opening, (inches, dia.): 18

Exhaust Flow Rate (scfm): 8,000

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 08-A-528-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 137-2****Associated Equipment**

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU137-2A             | No. 23 Fuller Air Merge          | CE137-2A:<br>Baghouse    | Starch              | 22.5 tons/hr.         | 08-A-623-S3                |
| EU137-2B             | No. 24 Fuller Air Merge          | CE137-2B:<br>Baghouse    | Starch              | 22.5 tons/hr.         |                            |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 08-A-623-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.60 lb/hr.

Authority for Requirement: DNR Construction Permit 08-A-623-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.60 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 08-A-623-S3  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule or per written facility specific operation and maintenance plan.
2. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment.

Authority for Requirement: DNR Construction Permit 08-A-623-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 87  
Stack Opening, (inches, dia.): 18  
Exhaust Flow Rate (scfm): 7,200  
Exhaust Temperature (°F): 100  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 08-A-623-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant – Particulate Matter (PM)  
Stack Test to be Completed by (date) – 9/21/2025  
Test Method - 40 CFR 60, Appendix A, Method 5  
40 CFR 51 Appendix M Method 202  
Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM<sub>10</sub>  
Stack Test to be Completed by (date) – 9/21/2025  
Test Method – 40 CFR 51 Appendix M 201A with 202 or approved methods  
Authority for Requirement - 567 IAC 22.108(3)

*The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No   
*(See Appendix A for CAM plans)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 137-3**Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU137-3              | No. 25 Fuller Air Merge          | CE137-3:<br>Baghouse     | Starch              | 22.5 tons/hr.         | 13-A-111-S2                |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 13-A-111-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of no visible emissions will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>2.5</sub>

Emission Limit(s): 0.07 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-111-S2

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.16 lb/hr.

Authority for Requirement: DNR Construction Permit 13-A-111-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.26 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-111-S2  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule or per written facility specific operation and maintenance plan.

2. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment.  
Authority for Requirement: DNR Construction Permit 13-A-111-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 83  
Stack Opening, (inches, dia.): 14  
Exhaust Flow Rate (scfm): 5,500  
Exhaust Temperature (°F): 100  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 13-A-111-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

### Sugar House Equipment List

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>   | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|--|---------------------------------------|
| 86-1                         | EU86-1                      | 1st Pass Hersey Dryer  | 08-A-523-S1                           |
| 86-2                         | EU86-2                      | 1st Pass Louisville Dryer  | 08-A-524-S2                           |
| 86-4                         | EU86-4                      | Rail Surge Bin Cyclone   | NA                                    |
| 86-5                         | EU86-5                      | Rail for Loading   | NA                                    |
| 86-6                         | EU86-6                      | Dextrose Hopper Airlock Aspiration   | 04-A-305-S1                           |
|                              | EU224-1                     | Dextrose Rail Scale Hopper   |                                       |
| 86-7                         | EU86-7A                     | No. 1 Dextrose Hopper  | 01-A-912-S3                           |
|                              | EU86-7B                     | No. 2 Dextrose Hopper  |                                       |
|                              | EU86-7C                     | No. 3 Dextrose Hopper  |                                       |
|                              | EU86-7D                     | No. 4 Dextrose Hopper  |                                       |
|                              | EU86-7E                     | No. 5 Dextrose Hopper  |                                       |
|                              | EU86-7F                     | No. 6 Dextrose Hopper  |                                       |
|                              | EU86-7G                     | No. 7 Dextrose Hopper  |                                       |
|                              | EU86-7H                     | No. 8 Dextrose Hopper  |                                       |
| 86-9                         | EU86-9A                     | 1 <sup>st</sup> Pass Big Dryer and Product Recovery Cyclone                      | 94-A-317-S4                           |
|                              | EU86-9B                     | 2 <sup>nd</sup> Pass Big Dryer and Product Recovery Cyclone                      |                                       |
|                              | EU86-9C                     | 2 <sup>nd</sup> Pass Louisville Dryer with Cyclone and Aerodyne Product Recovery |                                       |
|                              | EU86-9D                     | 2 <sup>nd</sup> Pass Hersey Dryer with Cyclone and Aerodyne Product Recovery     |                                       |
|                              | EU86-9E                     | Truck Loading Spout  |                                       |
|                              | EU230-9                     | Dextrose Fines Transport System  |                                       |
| 86-11                        | EU86-11                     | Bulk Truck Blower  | NA                                    |
| 86-12                        | EU86-12                     | Dextrose Cooler No. 1  | 08-A-525                              |
| 86-13                        | EU86-13                     | Dextrose Cooler No. 2  | 96-A-108-S3                           |
| 86-15                        | EU86-15A                    | #1 Whizzer Mechanical Separator  | 01-A-911-S2                           |
|                              | EU86-15B                    | #2 Whizzer Mechanical Separator  |                                       |
| 224-22                       | EU224-22                    | #1 Dextrose Cooler Transport   | 01-A-909-S3                           |
| 224-23                       | EU224-23                    | #2 Dextrose Cooler Transport   | 16-A-436-S2                           |
| 230-4                        | EU230-4A                    | Dextrose Hopper  | 94-A-315-S4                           |
|                              | EU230-4B                    | Dextrose Hopper  |                                       |
|                              | EU230-4C                    | Dextrose Hopper  |                                       |
| 230-6                        | EU230-6                     | No. 2 Dextrose Transport System  | 94-A-311-S4                           |
| 230-8                        | EU230-8                     | No. 3 & 4 Dextrose Transport System  | 96-A-386-S1                           |
| 230-10                       | EU230-10A                   | No. 1 Packer   | NA                                    |
|                              | EU230-10B                   | No. 1 Sealer   |                                       |
|                              | EU230-10C                   | No. 2 Packer   |                                       |
|                              | EU230-10D                   | No. 2 Sealer   |                                       |
|                              | EU230-10E                   | Tote Packer  |                                       |

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## Emission Point ID Numbers: 86-1 & 86-2

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description             | Control Equipment   | Raw Material | Rated Capacity | Construction Permit |
|----------------|---------------|---------------------------------------|---------------------|--------------|----------------|---------------------|
| 86-1           | EU86-1        | 1 <sup>st</sup> Pass Hersey Dryer     | CE86-1:<br>Scrubber | Dextrose     | 7.29 tons/hr.  | 08-A-523-S1         |
| 86-2           | EU86-2        | 1 <sup>st</sup> Pass Louisville Dryer | CE86-2:<br>Scrubber | Dextrose     | 7.29 tons/hr.  | 08-A-524-S2         |

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## Applicable Requirements

### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 08-A-523-S1 & 08-A-524-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.60 lb/hr.

Authority for Requirement: DNR Construction Permits 08-A-523-S1 & 08-A-524-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.60 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 08-A-523-S1 & 08-A-524-S2  
567 IAC 23.4(7)

### Operational Limits & Reporting/Record keeping Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

#### EP86-1 Only:

1. The Scrubber flowrate shall be maintained at or above 30 gallons per minute.
2. All control equipment and monitoring devices shall be maintained according to the manufacturer's specifications.
3. The owner or operator shall properly operate and maintain equipment to continuously monitor the Scrubber flowrate. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and

operating manuals or per written facility specific operation and maintenance plan.

4. The owner or operator shall maintain a continuous record of the Scrubber flowrate, in gallons per minute. This requirement shall not apply on the days that the equipment that the scrubber controls is not in operation.
5. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 08-A-523-S1

EP86-2 Only:

1. The owner or operator shall operate the Scrubber (CE 86-2) at all times any of the equipment controlled by this device is in operation.
2. The Scrubber (CE 86-2) shall maintain an hourly average minimum scrubbant flow rate of 30 gallons per minute at the inlet to the scrubber.
  - A. The owner or operator shall continuously record liquid flow rate for Scrubber (CE 86-2) in gallons per minute.
    - i. If the flow rate deviates below the minimum required, then the owner or operator shall record the date and actions taken to correct the situation.
    - ii. The owner or operator shall also record when the flow rate is back above the minimum required.
3. The owner or operator shall not use any additives in Scrubber (CE 86-2).
4. The scrubber monitoring requirements in Condition 2 above shall not apply on the days the scrubber is not in operation, during start-up, or during shutdown.
5. The owner or operator shall inspect, maintain, and repair the Scrubber (CE 86-2) according to the manufacturer's specifications.
  - A. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. This log shall include, but shall not be limited to:
    - i. The date any inspection and/or maintenance was performed on the control equipment;
    - ii. Any issues identified during the inspection;
    - iii. Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - iv. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 08-A-524-S2

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): EP86-1: 159, EP86-2: 159.1

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 6,898

Exhaust Temperature (°F): 80

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permits 08-A-523-S1 & 08-A-524-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 86-4 & 86-5**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU86-4               | Rail Surge Bin Cyclone           | CE86-4: Baghouse         | Dextrose            | 40 tons/hr.           | NA                         |
| EU86-5               | Rail for Loading                 | CE86-5: Baghouse         | Dextrose            | 40 tons/hr.           | NA                         |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 86-6**Associated Equipment

| Emission Unit | Emission Unit Description          | Control Equipment   | Raw Material | Rated Capacity | Construction Permit |
|---------------|------------------------------------|---------------------|--------------|----------------|---------------------|
| EU86-6        | Dextrose Hopper Airlock Aspiration | CE86-6:<br>Baghouse | Dextrose     | 18 tons/hr.    | 04-A-305-S1         |
| EU224-1       | Dextrose Rail Scale Hopper         |                     |              | 80,000 lb/hr   |                     |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 04-A-305-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.12 lb/hr.

Authority for Requirement: DNR Construction Permit 04-A-305-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.12 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-305-S1  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE 86-6) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 86-6).

Authority for Requirement: DNR Construction Permit 04-A-305-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 102.3

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 1,350

Exhaust Temperature (°F): 90

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 04-A-305-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 86-7**

Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment   | Raw Material | Rated Capacity             | Construction Permit |
|---------------|---------------------------|---------------------|--------------|----------------------------|---------------------|
| EU86-7A       | #1 Dextrose Hopper        | CE86-7:<br>Baghouse | Dextrose     | 4,300 ft <sup>3</sup> /day | 01-A-912-S3         |
| EU86-7B       | #2 Dextrose Hopper        |                     | Dextrose     | 4,300 ft <sup>3</sup> /day |                     |
| EU86-7C       | #3 Dextrose Hopper        |                     | Dextrose     | 4,300 ft <sup>3</sup> /day |                     |
| EU86-7D       | #4 Dextrose Hopper        |                     | Dextrose     | 4,300 ft <sup>3</sup> /day |                     |
| EU86-7E       | #5 Dextrose Hopper        |                     | Dextrose     | 4,300 ft <sup>3</sup> /day |                     |
| EU86-7F       | #6 Dextrose Hopper        |                     | Dextrose     | 4,300 ft <sup>3</sup> /day |                     |
| EU86-7G       | #7 Dextrose Hopper        |                     | Dextrose     | 4,300 ft <sup>3</sup> /day |                     |
| EU86-7H       | #8 Dextrose Hopper        |                     | Dextrose     | 4,300 ft <sup>3</sup> /day |                     |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 01-A-912-S3  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.445 lb/hr.

Authority for Requirement: DNR Construction Permit 01-A-912-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.445 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 01-A-912-S3  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE 86-7) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 86-7).

Authority for Requirement: DNR Construction Permit 01-A-912-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 104.5

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 2,800

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 01-A-912-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 86-9**

Associated Equipment

| Emission Unit | Emission Unit Description  | Control Equipment    | Raw Material | Rated Capacity | Construction Permit |
|---------------|--|----------------------|--------------|----------------|---------------------|
| EU86-9A       | 1 <sup>st</sup> Pass Big Dryer and Product Recovery Cyclone                      | CE86-9: Wet Scrubber | Dextrose     | 26.5 tons/hr.  | 94-A-317-S4         |
| EU86-9B       | 2 <sup>nd</sup> Pass Big Dryer and Product Recovery Cyclone                      |                      | Dextrose     | 24.4 tons/hr.  |                     |
| EU86-9C       | 2 <sup>nd</sup> Pass Louisville Dryer with Cyclone and Aerodyne Product Recovery |                      | Dextrose     | 7.29 tons/hr.  |                     |
| EU86-9D       | 2 <sup>nd</sup> Pass Hersey Dryer with Cyclone and Aerodyne Product Recovery     |                      | Dextrose     | 7.29 tons/hr.  |                     |
| EU86-9E       | Truck Loading Spout  |                      | Dextrose     | 215 tons/hr.   |                     |
| EU230-9       | Dextrose Fines Transport System  | CE230-9: Baghouse    | Dextrose     | 40 tons/hr.    |                     |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-317-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 3.77 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-317-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-317-S4  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE 86-9 and CE 230-9) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 86-9 and CE 230-9).

Authority for Requirement: DNR Construction Permit 94-A-317-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 187.4

Stack Opening, (inches, dia.): 60

Exhaust Flow Rate (scfm): 44,000

Exhaust Temperature (°F): 100

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-317-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

*(See Appendix A for CAM plans Required for CE86-9)*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 86-11**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|
| EU86-11              | Bulk Truck Blower                | CE86-11: Blower Filter   | Dextrose            | 20 tons/hr.           |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the Applicable Requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 86-12**

Associated Equipment

| Emission Unit | Emission Unit Description | Control Equipment    | Raw Material | Rated Capacity | Construction Permit |
|---------------|---------------------------|----------------------|--------------|----------------|---------------------|
| EU86-12       | Dextrose Cooler No. 1     | CE86-12:<br>Baghouse | Dextrose     | 17.6 tons/hr.  | 08-A-525            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 08-A-525  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.50 lb/hr.

Authority for Requirement: DNR Construction Permit 08-A-525

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.50 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Constructiton Permit 08-A-525  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule or per written facility specific operation and maintenance plan.
- B. The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR Construction Permit 08-A-525

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft., from the ground): 105

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 13,132

Exhaust Temperature (°F): 120

Discharge Style: Vertical w/o rain cap or w/ unobstructing rain cap

Authority for Requirement: DNR Construction Permit 08-A-525

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 86-13**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>     | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|------------------------------|---------------------|-----------------------|----------------------------|
| EU86-13              | Dextrose Cooler No. 2            | CE86-13:<br>Cyclone/Baghouse | Dextrose            | 36,000 lb/hr.         | 96-A-108-S3                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 96-A-108-S3  
567 IACC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.57 lb/hr.

Authority for Requirement: DNR Construction Permit 96-A-108-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.57 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 96-A-108-S3  
567 IAC 23.4(7)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

1. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.
2. The maximum amount of dextrose processed by this emission unit shall not exceed 36,000 pounds per hour, averaged daily.
3. The owner or operator shall keep records of control equipment inspections and maintenance.
4. The facility shall calculate and record the average hourly production rate (lbs/hr) for this system, averaged daily.

Authority for Requirement: DNR Construction Permit 96-A-108-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 115.3

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 12,000

Exhaust Temperature (°F): 104

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 96-A-108-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 86-15**Associated Equipment

| Emission Unit | Emission Unit Description       | Control Equipment          | Raw Material | Rated Capacity | Construction Permit |
|---------------|---------------------------------|----------------------------|--------------|----------------|---------------------|
| EU86-15A      | #1 Whizzer Mechanical Separator | CE86-15:<br>Dust Collector | Dextrose     | 40,000 lb/hr.  | 01-A-911-S2         |
| EU86-15B      | #2 Whizzer Mechanical Separator |                            | Dextrose     | 40,000 lb/hr.  |                     |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 01-A-911-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.53 lb/hr.

Authority for Requirement: DNR Construction Permit 01-A-911-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.53 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 01-A-911-S2  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE 86-15) in accordance with the recommendations of the manufacturer.
2. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 86-15).

Authority for Requirement: DNR Construction Permit 01-A-911-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 158.7

Stack Opening, (inches, dia.): 16

Exhaust Flow Rate (scfm): 3,700

Exhaust Temperature (°F): 95

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 01-A-911-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 224-22 & 224-23

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description           | Control Equipment           | Raw Material | Rated Capacity | Construction Permit |
|----------------|---------------|-------------------------------------|-----------------------------|--------------|----------------|---------------------|
| 224-22         | EU224-22      | #1 Dextrose Cooler Transport System | CE224-22:<br>Dust Collector | Dextrose     | 42,000 lb/hr.  | 01-A-909-S3         |
| 224-23         | EU224-23      | #2 Dextrose Cooler Transport System | CE224-23:<br>Dust Collector | Dextrose     | 42,000 lb/hr.  | 16-A-436-S2         |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 01-A-909-S3 & 16-A-436-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of "No Visible Emission" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.236 lb/hr.

Authority for Requirement: DNR Construction Permits 01-A-909-S3 & 16-A-436-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.236 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 01-A-909-S3 & 16-A-436-S2  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 6. The owner or operator shall operate, inspect, and maintain the control equipment covered by this permit according to the manufacturer’s specifications and instructions.
  - D. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment covered by this permit. At a minimum, this log shall include any issues identified during inspection and maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permit 01-A-909-S3 & 16-436-S2

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

| <b>Emission Point</b>                     | <b>224-22</b> | <b>224-23</b> |
|---|---------------|---------------|
| <b>Stack Height (ft. from the ground)</b> | 107.3         | 107.5         |
| <b>Stack Opening (inches, dia)</b>        | 14.04         | 14.04         |
| <b>Exhaust Flow Rate (scfm)</b>           | 4,200         | 3,700         |
| <b>Exhaust Temperature (°F)</b>           | 95            | 95            |
| <b>Discharge Style</b>                    | Horizontal    | Horizontal    |
| <b>Authority for Requirement</b>          | 01-A-909-S3   | 16-A-436-S2   |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant – PM\*

Stack Test to be Completed by (date) – 9/21/2025

Test Method - 40 CFR 60, Appendix A, Method 5,  
40 CFR 51 Appendix M Method 202

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM<sub>10</sub>\*

Stack Test to be Completed by (date) – 9/21/2025

Test Method – 40 CFR 51 Appendix M 201A with 202 or approved methods

Authority for Requirement - 567 IAC 22.108(3)

\* The facility may choose to test one emission point to demonstrate compliance for both emission points. If the tested emission point does not demonstrate compliance, both points will be considered out of compliance.

*The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**                      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**                      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the Applicable Requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 230-4**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU230-4A             | Dextrose Hopper                  | CE230-4:<br>Baghouse     | Dextrose            | 400,000 lbs/day       | 94-A-315-S4                |
| EU230-4B             | Dextrose Hopper                  |                          | Dextrose            | 400,000 lbs/day       |                            |
| EU230-4C             | Dextrose Hopper                  |                          | Dextrose            | 400,000 lbs/day       |                            |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: DNR Construction Permit 94-A-315-S4  
567 IAC 23.3(2)"d"

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.60 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-315-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.60 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-315-S4  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate, inspect, and maintain the control equipment covered by this permit according to the manufacturer's specifications and instructions.
  - A. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment covered by this permit. At a minimum, this log shall include any issues identified during inspection and maintenance activities and the date each issue was resolved.

Authority for Requirement: DNR Construction Permit 94-A-315-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 98  
Stack Opening, (inches, dia.): 12  
Exhaust Flow Rate (scfm): 6,500  
Exhaust Temperature (°F): 110  
Discharge Style: NA Vents inside building  
Authority for Requirement: DNR Construction Permit 94-A-315-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No   
*(See Appendix B for Agency OM plan Required for CE230-4)*

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 230-6**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU230-6              | No. 2 Dextrose Transport System  | CE230-6: Baghouse        | Dextrose            | 22.5 tons/hr.         | 94-A-311-S4                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 94-A-311-S4  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of "No Visible Emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.204 lb/hr.

Authority for Requirement: DNR Construction Permit 94-A-311-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.204 lb/hr., 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 94-A-311-S4  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department*

1. The owner or operator shall operate, inspect and maintain all the equipment associated with the process and the Baghouse (CE 230-6) in accordance with good air pollution control practices and manufacturer's specifications.
  - A. The owner or operator shall maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection or maintenance of the Baghouse (CE 230-6).

Authority for Requirement: DNR Construction Permit 94-A-311-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 94.5

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 2,800

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-311-S4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 230-8**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b>    | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|-------------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU230-8              | No. 3 & 4 Dextrose Transport System | CE230-8: Baghouse        | Dextrose            | 37.5 tons/hr.         | 96-A-386-S1                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 96-A-386-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.43 lb/hr.

Authority for Requirement: DNR Construction Permit 96-A-386-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.43 lb/hr., 0.1 gr/dscf.

Authority for Requirement: DNR Construction Permit 96-A-386-S1  
567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

A. The owner or operator shall operate and maintain the control equipment (CE 230-8) in accordance with the recommendations of the manufacturer.

B. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 230-8).

Authority for Requirement: DNR Construction Permit 96-A-386-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

- Stack Height, (ft, from the ground): 98.3
- Stack Opening, (inches, dia.): 24
- Exhaust Flow Rate (scfm): 5,200
- Exhaust Temperature (°F): 95
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 96-A-386-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

- Pollutant – PM
- Stack Test to be Completed by (date) – 9/21/2025
- Test Method - 40 CFR 60, Appendix A, Method 5,  
40 CFR 51 Appendix M Method 202
- Authority for Requirement - 567 IAC 22.108(3)

- Pollutant – PM<sub>10</sub>
- Stack Test to be Completed by (date) – 9/21/2025
- Test Method – 40 CFR 51 Appendix M 201A with 202 or approved methods
- Authority for Requirement - 567 IAC 22.108(3)

*The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 230-10**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b>  | <b>Raw Material</b> | <b>Rated Capacity</b> |
|----------------------|----------------------------------|---------------------------|---------------------|-----------------------|
| EU230-10A            | No. 1 Packer                     | CE230-10:<br>Wet Scrubber | Dextrose            | 200 tons/day          |
| EU230-10B            | No. 1 Sealer                     |                           | Dextrose            | 200 tons/day          |
| EU230-10C            | No. 2 Sealer                     |                           | Dextrose            | 200 tons/day          |
| EU230-10D            | No. 2 Packer                     |                           | Dextrose            | 200 tons/day          |
| EU230-10E            | Tote Packer                      |                           | Dextrose            | 200 tons/day          |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operational limits and Recordkeeping for this emission point are not required at this time.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

### Utilities Equipment List

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b> | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|----------------------------------|---------------------------------------|
| 300-1                        | EU300-1                     | Fire Pump No. 4                  | 01-A-772-S2                           |
| 300-2                        | EU300-2                     | Fire Pump No. 5                  | 01-A-773-S2                           |
| 301-1                        | EU301-1                     | Fire Pump No. 6                  | 01-A-774-S2                           |
| 301-2                        | EU301-2                     | Fire Pump No. 7                  | 01-A-775-S2                           |
| 301-3                        | EU301-3                     | Fire Pump No. 8                  | 06-A-874                              |
| 82-5                         | EU82-5                      | Lime Silo No. 1                  | 11-A-025-S2                           |
| 82-6                         | EU82-6                      | Lime Silo No. 2                  | 12-A-088-S1                           |
| 19-1                         | EU19-1                      | Flood Pump No. 1                 | NA                                    |
| 19-2                         | EU19-2                      | Flood Pump No. 2                 | NA                                    |
| 19-3                         | EU19-3                      | Flood Pump No. 3                 | NA                                    |

**Emission Point ID Numbers: 300-1, 300-2, 301-1, 301-2**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| 300-1                 | EU300-1              | Fire Pump No. 4                  | Diesel Fuel         | 460 Horsepower        | 01-A-772-S2                |
| 300-2                 | EU300-2              | Fire Pump No. 5                  | Diesel Fuel         | 460 Horsepower        | 01-A-773-S2                |
| 301-1                 | EU301-1              | Fire Pump No. 6                  | Diesel Fuel         | 460 Horsepower        | 01-A-774-S2                |
| 301-2                 | EU301-2              | Fire Pump No. 7                  | Diesel Fuel         | 460 Horsepower        | 01-A-775-S2                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 01-A-772-S2, 01-A-773-S1,  
01-A-774-S2, 01-A-775-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10

Emission Limit(s): 1.01 lb/hr.

Authority for Requirement: DNR Construction Permits 01-A-772-S2, 01-A-773-S1,  
01-A-774-S2, 01-A-775-S1

Pollutant: Particulate Matter

Emission Limit(s): 1.01 lb/hr.

Authority for Requirement: DNR Construction Permits 01-A-772-S2, 01-A-773-S1,  
01-A-774-S2, 01-A-775-S1

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.154 lb/hr., 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permits 01-A-772-S2, 01-A-773-S1,  
01-A-774-S2, 01-A-775-S1  
567 IAC 23.3(3)"b"(2)

### **Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

Operating limits for this emission unit shall be:

- A. This unit shall not operate in excess of 500 hours in any continuous twelve (12) month rolling period.
- B. This engine is limited to operate as an emergency stationary internal combustion engine as defined in §63.6675 and in accordance with §63.6640(f). There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in condition A is not exceeded. In accordance with §63.6640(f), the engine is limited to operate a maximum of 100 hours per year for maintenance checks and readiness testing.
  - ii. The engine is also allowed to operate up to 50 hours per year in non-emergency situations, but the 50 hours are counted toward the 100 hours provided for maintenance and testing. The 50 hours per year for non-emergency operation cannot be used to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. This engine is not allowed to operate as a peak shaving unit.
- C. The fuel used in this unit shall be diesel with a maximum sulfur content of 0.05% by weight.
- D. The owner or operator must maintain and operate the emission units (EU 300-1, EU 300-2, EU 301-1) according to the manufacturer's emission-related operation and maintenance instructions, or develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- E. Per Table 2c to Subpart ZZZZ of Part 63, the owner or operator must:
  - a. Change oil and filter every 500 hours of operation or annually, whichever comes first.<sup>1</sup>
  - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
  - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary.<sup>1</sup>
  - d. Minimize the engine's time spent in idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.<sup>1</sup>
- F. The owner or operator shall maintain the following monthly records:
  - a. The total number of hours that the engine operated; and
  - b. The rolling 12-month total amount of the number of hours that the engine operated.
- G. A fuel certification showing the sulfur content of the fuel shall be kept for each fuel shipment received.

- H. The owner or operator shall maintain records of the maintenance performed on the engines (EU 300-1, EU 300-2, EU 301-1).
- I. The owner or operator shall maintain the following records:
  - a. The date on which the oil and filter were changed
  - b. The date on which the air cleaner was inspected and the results of that inspection
  - c. The date on which the hoses and belts was inspected and the results of that inspection

<sup>1</sup> Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2c of 40 CFR Part 63, Subpart ZZZZ subpart.

Authority for Requirement: DNR Construction Permits 01-A-772-S2, 01-A-773-S2,  
01-A-774-S1, 01-A-775-S1

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing, emergency demand response. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)
3. If you own or operate an emergency stationary RICE with a site rating of more than 100 bhp that operates you must submit an annual report. See 40 CFR 63.6650(h) for additional information.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ  
567 IAC 23.1(4)"cz"

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b>                 | <b>300-1</b>          | <b>300-2</b>          | <b>301-1</b>          | <b>301-2</b>          |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <b>Stack Height (ft, from ground)</b> | 39.2                  | 39.1                  | 36.9                  | 36.9                  |
| <b>Exhaust Flow Rate</b>              | 2,486                 | 2,486                 | 2,486                 | 2,486                 |
| <b>Exhaust Temperature (°F)</b>       | 904                   | 904                   | 904                   | 904                   |
| <b>Discharge Style</b>                | Vertical Unobstructed | Vertical Unobstructed | Vertical Unobstructed | Vertical Unobstructed |

Authority for Requirement: DNR Construction Permits 01-A-772-S2, 01-A-773-S2, 01-A-774-S1, 01-A-775-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 301-3**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| 301-3                 | EU301-3              | Fire Pump No. 8                  | Diesel Fuel         | 460 Horsepower        | 06-A-874                   |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-874  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10

Emission Limit(s): 1.01 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-874

Pollutant: Particulate Matter

Emission Limit(s): 1.01 lb/hr.

Authority for Requirement: DNR Construction Permit 06-A-874

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.20 lb/hr., 2.5 lb/MMBtu

Authority for Requirement: DNR Construction Permit 06-A-874

## **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation:

1. This emission unit shall be limited to operating a maximum of 500 hours per twelve (12) month rolling period.

Process throughput:

1. This emission unit, EU301-3, shall be limited to firing on diesel fuel only.
2. The sulfur (S) content of the fuel combusted shall not exceed 0.05% by weight

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permit holder, owner or operator of the facility shall retain a fuel certification for each fuel delivery received for this emission unit. The fuel certification shall show the type of fuel delivered along with the sulfur content of the fuel in weight percent.
2. For each day this emission unit is used record the following:
  - a. The date,
  - b. Time of startup,
  - c. Time of shutdown, and
  - d. Total hours of operation.
3. The permit holder, owner or operator of the facility shall maintain a record of the hours of operation of this emission unit for each month of operation. For the first twelve (12) months of operation, the facility shall determine the cumulative hours of operation after each month.
4. After the first twelve (12) months of operation, the permit holder, owner or operator of the facility shall determine the annual hours of operation. This shall be done on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 06-A-874

### **NESHAP:**

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

### **Compliance Date**

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

### **Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ**

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.

3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing, emergency demand response. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response.

Recordkeeping Requirements 40 CFR 63.6655

3. Keep records of the maintenance conducted on the stationary RICE.
4. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

4. An initial notification is not required per 40 CFR 63.6645(a)(5).
5. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)
6. If you own or operate an emergency stationary RICE with a site rating of more than 100 bhp that operates you must submit an annual report. See 40 CFR 63.6650(h) for additional information.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ  
567 IAC 23.1(4)"cz"

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 32  
Stack Opening, (inches, dia.): 6  
Exhaust Flow Rate (scfm): 2,486  
Exhaust Temperature (°F): 904  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 06-A-874

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Numbers: 82-5 & 82-6****Associated Equipment**

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| 82-5                  | EU82-5               | Lime Tank No. 1                  | CE82-5: Bin Vent Filter  | Lime                | 85,000 lbs.           | 11-A-025-S2                |
| 82-6                  | EU82-6               | Lime Tank No. 2                  | CE82-6: Bin Vent Filter  | Lime                | 85,000 lbs.           | 12-A-088-S1                |

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 11-A-025-S1 & 12-A-088-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of "No Visible Emissions" will require the owner to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g. stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.086 lb/hr.

Authority for Requirement: DNR Construction Permits 11-A-025-S1 & 12-A-088-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.086 lb/hr., 0.1 gr/scf

Authority for Requirement: DNR Construction Permits 11-A-025-S1 & 12-A-088-S1  
567 IAC 23.3(2)"a"

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height (ft, from ground)</b> | <b>Discharge Style</b> | <b>Stack Opening (inches)</b> | <b>Exhaust Temp. (°F)</b> | <b>Rxhaust Flowrate (scfm)</b> |
|-----------------------|---------------------------------------|------------------------|-------------------------------|---------------------------|--------------------------------|
| 82-5                  | 65                                    | Horizontal             | 7                             | 70                        | 273                            |
| 82-6                  | 65                                    | Horizontal             | 7                             | 70                        | 1,000                          |

Authority for Requirement: DNR Construction Permits 11-A-025-S1 & 12-A-088-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No   
*(Required for CE82-5 & CE82-6)*

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.*

*The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 19-1, 19-2, 19-3

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description | Raw Material | Rated Capacity |
|----------------|---------------|---------------------------|--------------|----------------|
| 19-1           | EU19-1        | Flood Pump No. 1          | Diesel Fuel  | 189 horsepower |
| 19-2           | EU19-2        | Flood Pump No. 2          | Diesel Fuel  | 189 horsepower |
| 19-3           | EU19-3        | Flood Pump No. 3          | Diesel Fuel  | 189 horsepower |

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

#### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

### NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

### Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

### Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

### Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing, emergency demand response. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response.

### Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

### Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).

2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)
3. If you own or operate an emergency stationary RICE with a site rating of more than 100 bhp that operates you must submit an annual report. See 40 CFR 63.6650(h) for additional information.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ  
567 IAC 23.1(4)"cz"

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

### Wastewater Equipment List

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>     | <b>DNR Construction Permit Number</b> |
|------------------------------|-----------------------------|--------------------------------------|---------------------------------------|
| 217-18                       | EU217-18                    | Wastewater Collection Basin          | 04-A-168-S2                           |
| 501-1                        | EU501-1                     | No. 1 Pit                            | 04-A-180-S1                           |
| 501-2                        | EU501-2                     | No. 0, No. 2 and No. 3 Pit           | 04-A-181-S1                           |
| 501-3                        | EU501-3                     | No. 4 and No. 5 Pit                  | 04-A-182-S1                           |
| 504-1                        | EU504-1                     | Oil Heater No. 1 (CS)                | 04-A-183-S1                           |
| 504-2                        | EU504-2                     | Oil Heater No. 2 (RS)                | 04-A-184-S1                           |
| 504-5                        | EU504-5                     | City Side Biomass Storage Bin No. 1  | 04-A-185-S1                           |
|                              | EU504-8                     | Aspirated Bulk Loading Spout No. 1   |                                       |
|                              | EU504-9                     | Aspirated Bulk Loading Spout No. 2   |                                       |
| 504-6                        | EU504-6                     | Middle Biomass Storage Bin No. 2     | 04-A-186-S2                           |
| 504-7                        | EU504-7                     | River Side Biomass Storage Bin No. 3 | 04-A-187-S2                           |
| WW-F1                        | EUWW-F1                     | Wastewater Aeration Basin "A"        | 04-A-169                              |
| WW-F4                        | EUWW-F4                     | Wastewater Aeration Basin "D"        | 04-A-172-S1                           |
| WW-F5                        | EUWW-F5                     | Bio Tower "E"                        | 04-A-173                              |
| WW-F7                        | EUWW-F7                     | Wastewater Aeration Basin "F"        | 04-A-175-S1                           |
| WW-F8                        | EUWW-F8                     | Clarifier "A"                        | 04-A-176                              |
| WW-F9                        | EUWW-F9                     | Clarifier "B"                        | 04-A-177                              |
| WW-F10                       | EUWW-F10                    | Clarifier "C"                        | 04-A-178-S1                           |
| WW-F2                        | EUWW-F2                     | Wastewater Aeration Basin B          | 04-A-170-S1                           |
|                              | EU504-3                     | Biomass Dryer #1                     |                                       |
|                              | EU504-4                     | Biomass Dryer #2                     |                                       |
| WW-F3                        | EUWW-F3                     | Wastewater Aeration Basin C          | 04-A-171-S2                           |
|                              | EU504-3                     | Biomass Dryer #1                     |                                       |
|                              | EU504-4                     | Biomass Dryer #2                     |                                       |
| YRD-EQ1                      | EUYRD-EQ1                   | Equalization Tank No. 1              | 03-A-1179-S2                          |
| YRD-EQ2                      | EUYRD-EQ2                   | Equalization Tank No. 2              | 03-A-1180-S2                          |

**Emission Point ID Number: 217-18**

Associated Equipment

| <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Control Equipment</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|----------------------|----------------------------------|--------------------------|---------------------|-----------------------|----------------------------|
| EU217-18             | Wastewater Collection Pit        | Scrubber (CE 217-18)     | Wastewater          | 847,000 gallons       | 04-A-168-S2                |

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**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 1.04 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permit 04-A-168-S2  
567 IAC 23.3(3)"e"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall operate and maintain the control equipment (CE 217-18) in accordance with the recommendations of the manufacturer.
  - a. The owner or operator shall maintain records of the maintenance performed on the control equipment (CE 217-18).

Authority for Requirement: DNR Construction Permit 04-A-168-S2

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 44.1  
Stack Opening, (inches, dia.): 24  
Exhaust Flow Rate (scfm): 2,900  
Exhaust Temperature (°F): 122  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 04-A-168-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: 501-1, 501-2, 501-3**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| 501-1                 | EU501-1              | No. 1 Pit                        | Wastewater          | 26,900 gallons        | 04-A-180-S1                |
| 501-2                 | EU501-2              | No. 0, No. 2, and No. 3 Pit      | Wastewater          | 55,900 gallons (each) | 04-A-181-S1                |
| 501-3                 | EU501-3              | No. 4 and No. 5 Pit              | Wastewater          | 33,000 gallons (each) | 04-A-182-S1                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission units at this time.

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

| <b>Emission Point</b>                     | <b>501-1</b> | <b>501-2</b>          | <b>501-3</b>          |
|---|--------------|-----------------------|-----------------------|
| <b>Stack Height (ft. from the ground)</b> | 22.2         | 24.8                  | 24.8                  |
| <b>Stack Opening (inches, dia)</b>        | 18           | 18                    | 18                    |
| <b>Exhaust Flow Rate (scfm)</b>           | 3,725        | 6,700                 | 3,725                 |
| <b>Exhaust Temperature (°F)</b>           | 70           | 70                    | 70                    |
| <b>Discharge Style</b>                    | Horizontal   | Vertical Unobstructed | Vertical Unobstructed |
| <b>Authority for Requirement</b>          | 04-A-180-S1  | 04-A-181-S1           | 04-A-182-S1           |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: 504-1 & 504-2

### Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description | Raw Material | Rated Capacity | Construction Permit |
|----------------|---------------|---------------------------|--------------|----------------|---------------------|
| 504-1          | EU504-1       | Oil Heater No. 1 (CS)     | Natural Gas  | 12 MMBtu/hr    | 04-A-183-S1         |
| 504-2          | EU504-2       | Oil Heater No. 2 (RS)     | Natural Gas  | 12 MMBtu/hr    | 04-A-184-S1         |

### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 % <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 04-A-183-S1 & 04-A-184-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>An exceedance of the indicator opacity of 25% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permits 04-A-183-S1 & 04-A-184-S1  
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.0071 lb/hr, 500 ppmv

Authority for Requirement: DNR Construction Permits 04-A-183-S1 & 04-A-184-S1  
567 IAC 23.3(3)"e"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

A. These units shall be fired by natural gas only.

- (1) The owner or operator shall record and maintain records of the amount of natural gas combusted in each emissions unit during each month.

Authority for Requirement: DNR Construction Permits 04-A-183-S1 & 04-A-184-S1  
40 CFR 60 Subpart Dc  
567 IAC 23.1(2)"III"

**NSPS and NESHAP Applicability**

These emission points are subject to 40 CFR 63 Subpart DDDDD – National Emission Standards for Industrial, Commercial and Institutional Boilers and Process Heaters

Authority for Requirement: 40 CFR 63 Subpart DDDDD

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 62.7

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 3,500

Exhaust Temperature (°F): 550

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 04-A-183-S1 & 04-A-184-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: 504-5, 504-6, 504-7**

Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description            | Control Equipment        | Raw Material | Rated Capacity | Construction Permit |
|----------------|---------------|--------------------------------------|--------------------------|--------------|----------------|---------------------|
| 504-5          | EU504-5       | City Side Biomass Storage Bin No. 1  | Fabric Filter (CE 04-5)  | Biomass      | 1.23 tons/hr.  | 04-A-185-S1         |
|                | EU504-8       | Aspirated Bulk Loading Spout No. 1   |                          | Biomass      | 50 tons/hr     |                     |
|                | EU504-9       | Aspirated Bulk Loading Spout No. 2   |                          | Biomass      | 50 tons/hr.    |                     |
| 504-6          | EU504-6       | Middle Biomass Storage Bin No. 2     | Fabric Filter (CE 504-6) | Biomass      | 1.23 tons/hr.  | 04-A-186-S2         |
| 504-7          | EU504-7       | River Side Biomass Storage Bin No. 3 | Fabric Filter (CE 504-7) | Biomass      | 1.23 tons/hr.  | 04-A-187-S2         |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 04-A-185-S1, 04-A-186-S2,  
04-A-187-S2  
567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.2 lb/hr.

Authority for Requirement: DNR Construction Permits 04-A-185-S1, 04-A-186-S2,  
04-A-187-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.2 lb/hr., 0.1 gr/scf

Authority for Requirement: DNR Construction Permits 04-A-185-S1, 04-A-186-S2,  
04-A-187-S2  
567 IAC 23.3(2)"a"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. Particulate emissions from the truck loadout stations shall be captured and aspirated into one of the three biomass storage bins.
  - a. The owner or operator shall record any instances, including the date and time, that particulate emissions from the truck loadout stations are not captured and aspirated to one of the three biomass storage bins.
- B. The owner/operator shall maintain the fabric filter per manufacturer’s recommendations.
  - a. The owner/operator shall maintain records of all maintenance conducted on the fabric filter.

Authority for Requirement: DNR Construction Permits 04-A-185-S1, 04-A-186-S2, 04-A-187-S2

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height (ft, from ground)</b> | <b>Stack Opening (inches, dia)</b> | <b>Exhaust Flow Rate (scfm)</b> | <b>Exhaust Temperature (°F)</b> | <b>Discharge Style</b> |
|-----------------------|---------------------------------------|------------------------------------|---------------------------------|---------------------------------|------------------------|
| 504-5                 | 60                                    | 7                                  | 1,078                           | 110                             | Horizontal             |
| 504-6                 | 60                                    | 7                                  | 1,078                           | 110                             | Downward               |
| 504-7                 | 60                                    | 7                                  | 1,078                           | 110                             | Downward               |

Authority for Requirement: DNR Construction Permits 04-A-185-S1, 04-A-186-S2, 04-A-187-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: WW-F1, WW-F4, WW-F5, WW-F6, WW-F7,  
WW-F8, WW-F9, WW-F10**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| WW-F1                 | EUWW-F1              | Wastewater Aeration Basin A      | Wastewater          | 1,280,000 gallons     | 04-A-169                   |
| WW-F4                 | EUWW-F4              | Wastewater Aeration Basin D      | Wastewater          | 1,560,000 gallons     | 04-A-172-S1                |
| WW-F5                 | EUWW-F5              | Wastewater Aeration Basin E      | Wastewater          | 580,000 gallons       | 04-A-173                   |
| WW-F6                 | EUWW-F6              | BiotaTron Tank                   | Wastewater          | 950,000 gallons       | 04-A-174-S1                |
| WW-F7                 | EUWW-F7              | Wastewater Aeration Basin F      | Wastewater          | 1,700,000 gallons     | 04-A-175-S1                |
| WW-F8                 | EUWW-F8              | Clarifier A                      | Wastewater          | 430,000 gallons       | 04-A-176                   |
| WW-F9                 | EUWW-F9              | Clarifier B                      | Wastewater          | 430,000 gallons       | 04-A-177                   |
| WW-F10                | EUWW-F10             | Clarifier C                      | Wastewater          | 430,000 gallons       | 04-A-178-S1                |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no applicable emission limits for these emission units at this time.

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height, (ft, from the ground)</b> | <b>Stack Opening, (inches, dia.)</b> | <b>Exhaust Flow Rate (scfm)</b> | <b>Exhaust Temp. (°F)</b> | <b>Discharge Style</b> | <b>Authority for Requirement</b> |
|-----------------------|--|--------------------------------------|---------------------------------|---------------------------|------------------------|----------------------------------|
| WW-F1                 | 11   | 115                                  | 3,725                           | 95                        | Vertical Unobstructed  | 04-A-169                         |
| WW-F4                 | 14.5                                       | 115                                  | 3,724                           | 95                        | Vertical Unobstructed  | 04-A-172-S1                      |
| WW-F5                 | 18.5                                       | 75                                   | 5,133                           | 95                        | Vertical Unobstructed  | 04-A-173                         |
| WW-F7                 | 30   | 102                                  | 5,814                           | 100                       | Vertical Unobstructed  | 04-A-175-S1                      |
| WW-F8                 | 6.5  | 75                                   | NA                              | 95                        | Vertical Unobstructed  | 04-A-176                         |
| WW-F9                 | 6.5  | 75                                   | NA                              | 95                        | Vertical Unobstructed  | 04-A-177                         |
| WW-F10                | 6.5  | 75                                   | NA                              | 95                        | Vertical Unobstructed  | 04-A-178-S1                      |

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: WW-F2 & WW-F3**

Associated Equipment

| <b>Emission Point</b> | <b>Emission Unit</b> | <b>Emission Unit Description</b> | <b>Raw Material</b> | <b>Rated Capacity</b> | <b>Construction Permit</b> |
|-----------------------|----------------------|----------------------------------|---------------------|-----------------------|----------------------------|
| WW-F2                 | EUWW-F2              | Wastewater Aeration Basin B      | Wastewater          | 1,280,000 gallons     | 04-A-170-S1                |
| WW-F3                 | EUWW-F3              | Wastewater Aeration Basin C      | Wastewater          | 1,440,000 gallons     | 04-A-171-S2                |
|                       | EU504-3              | Biomass Dryer 1                  | Biomass             | 300 gallons/ min      |                            |
|                       | EU504-4              | Biomass Dryer 2                  | Biomass             | 300 gallons/ min      |                            |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.126 lb/hr., 500 ppmv

Authority for Requirement: DNR Construction Permits 04-A-170-S1 & 04-A-171-S2  
567 IAC 23.3(3)"e"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. The biomass dryers #1 and #2 shall vent into an aeration basin C-Basin (EP-WW-F3). Prior to exhausting into the aeration basin, emissions from the dryer shall be controlled by a sluiced crossover duct, a multi-stage spray tower, and a liquid ring compressor.

Authority for Requirement: DNR Construction Permits 04-A-170-S1 & 04-A-171-S2

**Emission Point Characteristics**

*Each emission point shall conform to the specifications listed below.*

| <b>Emission Point</b> | <b>Stack Height<br/>(ft, from the<br/>ground)</b> | <b>Stack Opening<br/>(ft)</b> | <b>Exhaust Flow<br/>Rate (scfm)</b> | <b>Exhaust<br/>Temperature<br/>(°F)</b> | <b>Discharge Style</b>    |
|-----------------------|---|-------------------------------|-------------------------------------|---|---------------------------|
| WW-F2                 | 11  | 115                           | 7,059                               | 95                                      | Vertical<br>Unobstructed  |
| WW-F3                 | 11  | 115                           | 7,059                               | 95                                      | Vertical,<br>Unobstructed |

Authority for Requirement: DNR Construction Permits 04-A-170-S1 & 04-A-171-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: YRD-EQ1 & YRD-EQ2**

Associated Equipment

| Emission Point | Emission Unit | Emission Unit Description | Raw Material | Rated Capacity    | Construction Permit |
|----------------|---------------|---------------------------|--------------|-------------------|---------------------|
| YRD-EQ1        | EUYRD-EQ1     | Equalization Tank No. 1   | Wastewater   | 2,500,000 gallons | 03-A-1179-S2        |
| YRD-EQ2        | EUYRD-EQ2     | Equalization Tank No. 2   | Wastewater   | 2,500,000 gallons | 03-A-1180-S2        |

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from each emission point shall not exceed the levels specified below.*

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.46 lb/hr, 500 ppmv

Authority for Requirement: DNR Construction Permits 03-A-1179-S2 & 03-A-1180-S2  
567 IAC 23.3(3)"e"

**Emission Point Characteristics**

*These emission points shall conform to the specifications listed below.*

| Emission Point | Stack Height (ft, from the ground) | Stack Opening (inches, dia) | Exhaust Flow Rate (scfm) | Exhaust Temperature (°F) | Discharge Style |
|----------------|------------------------------------|-----------------------------|--------------------------|--------------------------|-----------------|
| YRDEQ-1        | 52.6                               | 20                          | Displacement             | 122                      | Downward        |
| YRDEQ-2        | 52.9                               | 20                          | Displacement             | 122                      | Downward        |

Authority for Requirement: DNR Construction Permits 03-A-1179-S2 & 03-A-1180-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

### G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

### G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in *567 IAC 22.105(2)*. *567 IAC 22.105*

### G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

### G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with

applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. 567 IAC 22.108 (15)"e"

#### **G5. Semi-Annual Monitoring Report**

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 22.108 (5)

#### **G6. Annual Fee**

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

#### **G7. Inspection of Premises, Records, Equipment, Methods and Discharges**

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

**G8. Duty to Provide Information**

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

**G9. General Maintenance and Repair Duties**

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

**G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
  - b. Maintain a log at the permitted facility of the scenario under which it is operating.
  - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

**G11. Evidence used in establishing that a violation has or is occurring.**

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
  - b. Compliance test methods specified in 567 Chapter 25; or
  - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
- a. Any monitoring or testing methods provided in these rules; or
  - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

**G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

**G13. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

**G14. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an

unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

## 2. Excess Emissions Reporting

a. **Initial Reporting of Excess Emissions.** An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1) ) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. **Written Reporting of Excess Emissions.** A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. **Emergency Defense for Excess Emissions.** For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels

of emissions that exceeded the emissions standards or other requirements of the permit; and  
d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *567 IAC 22.108(16)*

#### **G15. Permit Deviation Reporting Requirements**

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

#### **G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations**

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

#### **G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification**

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.
  - e. The changes comply with all applicable requirements.
  - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
    - i. A brief description of the change within the permitted facility,
    - ii. The date on which the change will occur,
    - iii. Any change in emission as a result of that change,
    - iv. The pollutants emitted subject to the emissions trade

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change.

*567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

### **G18. Duty to Modify a Title V Permit**

#### **1. Administrative Amendment.**

a. An administrative permit amendment is a permit revision that does any of the following:

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

#### **2. Minor Title V Permit Modification.**

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
- ii. The permittee's suggested draft permit;
- iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

### 3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.111-567 IAC 22.113

### **G19. Duty to Obtain Construction Permits**

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. 567 IAC 22.1(1)

### **G20. Asbestos**

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (567 IAC 23.1(3)"a"); training fires and controlled burning of a demolished building (567 IAC 23.2).

### **G21. Open Burning**

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. 567 IAC 23.2 *except* 23.2(3)"j"; 567 IAC 23.2(3)"j" - *State Only*

### **G22. Acid Rain (Title IV) Emissions Allowances**

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

### **G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements**

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with

reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

#### **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the

permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

### **G25. Permit Shield**

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- a. Such applicable requirements are included and are specifically identified in the permit; or
- b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

### **G26. Severability**

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

### **G27. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

### **G28. Transferability**

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of *567 IAC 22.111(1)*. *567 IAC 22.111 (1)"d"*

## **G29. Disclaimer**

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

## **G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification**

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-9545

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

*567 IAC 25.1(7)"a", 567 IAC 25.1(9)*

## **G31. Prevention of Air Pollution Emergency Episodes**

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

### **G32. Contacts List**

The current address and phone number for reports and notifications to the EPA administrator is:

Iowa Compliance Officer  
Air Branch  
Enforcement and Compliance Assurance Division  
U.S. EPA Region 7  
11201 Renner Blvd.  
Lenexa, KS 66219  
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-8200

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

#### **Field Office 1**

1101 Commercial Court, Suite 10  
Manchester, IA 52057  
(563) 927-2640

#### **Field Office 2**

2300-15th St., SW  
Mason City, IA 50401  
(641) 424-4073

#### **Field Office 3**

1900 N. Grand Ave.  
Spencer, IA 51301  
(712) 262-4177

#### **Field Office 4**

1401 Sunnyside Lane  
Atlantic, IA 50022  
(712) 243-1934

#### **Field Office 5**

Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-0268

#### **Field Office 6**

1023 West Madison Street  
Washington, IA 52353-1623  
(319) 653-2135

#### **Polk County Public Works Dept.**

Air Quality Division  
5885 NE 14th St.  
Des Moines, IA 50313  
(515) 286-3351

#### **Linn County Public Health**

Air Quality Branch  
1020 6<sup>th</sup> Street SE  
Cedar Rapids, IA 52401  
(319) 892-6000

# V. Appendix A – CAM Plans

## CE11-30, CE11-31, CE11-32 and CE11-33

### Pellet Cooler Baghouses

#### I. Background

##### a. Emissions Units

|                 |   |
|-----------------|---|
| Description:    | Pellet Cooler Baghouses<br>Nos. 1, 2, 3 and 4 |
| Identification: | CE11-30, CE11-31, CE11-32, CE11-33            |

##### b. Applicable Regulation, Emission Limit and Monitoring Requirements

|                      |                                |
|----------------------|--------------------------------|
| Regulation:          | Permit                         |
| Regulated Pollutant: | PM/PM-10                       |
| Emission limits:     |                                |
| CE11-30, 31, 32, 33  | 0.1 gr PM/dscf                 |
| CE11-30              | 2.38 lb PM/hr, 2.38 lb PM10/hr |
| CE11-31, 32, 33      | 2.40 lb PM/hr, 2.40 lb PM10/hr |

##### c. Control Technology: Baghouses

Reverse Pulse Cleaning

Schenck Process LLC 16 oz Dacron Polyester Bags, 5.8:1 A/C, 3,085 sq. ft.

Schenck Process LLC 16 oz Dacron Polyester Bags, 6:1 A/C, 4,675 sq. ft.

II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                                    | Indicator No. 1  | Indicator No. 2   |
|------------------------------------|--|---|
| Indicator                          | Visible Emissions  | Pressure Drop   |
| Measurement Approach               | Visible emission observations performed weekly.                                | Weekly, Monthly and Quareterly inspections per Operation and Maintenance Plan.  |
| Indicator Range                    | The indicator range is no visible emissions.                                   | The Pressure Drop indicator range is 0.1-10 in H <sub>2</sub> O. Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria               |  |   |
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O.   |
| Verification of Operational Status | NA   | NA  |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.   |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.  |
| Averaging Period                   | NA   | NA  |

Justification:

I. Background

Pellet Coolers cool pellets produced from corn fiber and germ. Cooler and material transfer creates particulate emissions. Baghouses with fabric filters are used to remove the particulate matter from the aspiration air.

II. Rationale for Selection of Performance Indicators:

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a particulate control device; therefore the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

Pulse air baghouses require air under pressure to deliver the pulse for cleaning the baghouse.

III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.1 – 10 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.1 or above 10 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

The range of available air pressure to the baghouse is specified by the manufacturer. Out of range means the pulse cleaning cycle may not perform adequately.

**CE24-4A, CE24-6  
Carbon Furnace Scrubbers**

**I. Background**

**a. Emissions Units**

|                 |  |
|-----------------|--|
| Description:    | Carbon Furnace Scrubbers<br>No. 4 and No. 5 Furnaces |
| Identification: | CE24-4A and CE24-6                                   |

**b. Applicable Regulation, Emission Limit and Monitoring Requirements**

|                             |                        |
|-----------------------------|------------------------|
| Regulation:                 | Permit                 |
| Regulated Pollutant:        | PM/PM-10               |
| Emission limits from stack: |                        |
| PM                          | 0.1 gr/dscf; 2.3 lb/hr |
| PM10                        | 2.3 lb/hr              |

**c. Control Technology: Venturi Scrubbers**

**II. Monitoring Approach:** The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                      | <b>Indicator No. 1</b>  | <b>Indicator No. 2</b>  |
|----------------------|---|---|
| Indicator            | Scrubbant Rate  | Pressure Drop   |
| Measurement Approach | D3, PI process data systems record scrubbant rate.  | Weekly, Monthly and Quareterly inspections per Operation and Maintenance Plan.  |
| Indicator Range      | The indicator range is $\geq 100$ gpm<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. | The Pressure Drop indicator range is $\geq 10$ in H <sub>2</sub> O. Excursions are detected by visual and audible alarms.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria |   |   |

|                                    |   |  |
|------------------------------------|---|--|
| Data Representativeness            | Scrubbant flow rate accuracy is +/- 0.1 gpm.  | DP across the bag house is measured at the scrubber inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O. |
| Verification of Operational Status | NA  | NA   |
| QA/QC Practices and Criteria       | Weekly, Monthly inspection per O&M Plan. Flow meters are calibrated annually.                                 | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.  |
| Monitoring Frequency               | Data sampled at least once per 15 minutes.  | Data sampled at least once per 15 minutes. Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete inspection forms and keep records on file. D3 process data is stored in PI data historian. | Inspections are recorded on weekly inspection sheet. D3 process data is stored in PI data historian.                                       |

|                  | <b>Indicator No. 1</b> | <b>Indicator No. 2</b> |
|------------------|------------------------|------------------------|
| Averaging Period | NA                     | NA                     |

Justification:

I. Background

Carbon regeneration yields particulate emissions. Gases from the furnace pass through the hearth and into the Venturi scrubber, where water spray removes PM and other pollutants.

II. Rationale for Selection of Performance Indicators:

Removal of PM from the exhaust stream is accomplished by contact with a liquid scrubbant. The higher the scrubbant flow rate, the greater the opportunity for contact with the dust particles in the exhaust.

The scrubber differential pressure is proportional to the water flow and air flow through the scrubber Venturi throat and is an indicator of the energy across the scrubber and the proper operation of the scrubber within

III. Rationale for Selection of Indicator Ranges:

The indicator range for scrubbant flow is at least 100 gpm. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the pressure drop is at least 10 inches H<sub>2</sub>O. If the pressure

drop goes below 10 in H<sub>2</sub>O during normal operation, this indicates insufficient energy in the scrubbant, and thus less contact with dust particles. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

## CE38-18 and CE38-19b

### Silos 4 and 5

#### I. Background

##### a. Emissions Units

|                 |   |
|-----------------|---|
| Description:    | Gluten Meal Silo 4 and Germ Meal Silo 5 |
| Identification: | CE38-18, CE38-19b                       |

##### b. Applicable Regulation, Emission Limit and Monitoring Requirements

|                      |                              |
|----------------------|------------------------------|
| Regulation:          | Permit                       |
| Regulated Pollutant: | PM/PM <sub>10</sub>          |
| Emission limits:     |                              |
| CE38-18, 19b         | 0.1 gr PM/dscf               |
| CE38-18              | 0.40 lb PM <sub>10</sub> /hr |
| CE38-19b             | 0.29 lb PM/hr                |

##### c. Control Technology: Baghouse (Bin Vent Filter)

Reverse Pulse Cleaning

#### II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                      | Indicator No. 1                                 | Indicator No. 2   |
|----------------------|---|---|
| Indicator            | Visible Emissions                               | Pressure Drop   |
| Measurement Approach | Visible emission observations performed weekly. | Weekly, Monthly and Quarterly inspections per Operation and Maintenance Plan. |

|                                    |  |   |
|------------------------------------|--|---|
| Indicator Range                    | The indicator range is no visible emissions.                                   | The Pressure Drop indicator range is 0.1-10 in H <sub>2</sub> O. Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria               |  |   |
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O.   |
| Verification of Operational Status | NA   | NA  |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.   |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.  |
| Averaging Period                   | NA   | NA  |

**Justification:**

**I. Background**

Material transfer into the silos suspends particulates into the silo air, which is displaced from the silo during loading. Baghouses with fabric filters are used to remove the particulate matter from the silo exhaust air.

**II. Rationale for Selection of Performance Indicators:**

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a particulate control device; therefore the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

Pulse air baghouses require air under pressure to deliver the pulse for cleaning the baghouse.

### III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.1 – 10 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.1 or above 10 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

The range of available air pressure to the baghouse is specified by the manufacturer. Out of range means the pulse cleaning cycle may not perform adequately.

## CE38-63

### Pellet Rail Loadout

#### I. Background

##### a. Emissions Units

|                 |                     |
|-----------------|---------------------|
| Description:    | Pellet Loadout Rail |
| Identification: | CE38-63             |

##### b. Applicable Regulation, Emission Limit and Monitoring Requirements

|                      |                     |
|----------------------|---------------------|
| Regulation:          | Permit              |
| Regulated Pollutant: | PM/PM <sub>10</sub> |
| Emission limits:     |                     |
| PM                   | 0.1 gr/dscf         |
| PM                   | 1.54 lb/hr          |
| PM <sub>10</sub>     | 1.54 lb/hr          |

##### c. Control Technology: Baghouse (Bin Vent Filter)

Reverse Pulse Cleaning

II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                      | Indicator No. 1                                 | Indicator No. 2   |
|----------------------|---|---|
| Indicator            | Visible Emissions                               | Pressure Drop   |
| Measurement Approach | Visible emission observations performed weekly. | Weekly, Monthly and Quarterly inspections per Operation and Maintenance Plan. |

|                                    |  |   |
|------------------------------------|--|---|
| Indicator Range                    | The indicator range is no visible emissions.                                   | The Pressure Drop indicator range is 0.1-10 in H <sub>2</sub> O. Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria               |  |   |
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O.   |
| Verification of Operational Status | NA   | NA  |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.   |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.  |
| Averaging Period                   | NA   | NA  |

Justification:

I. Background

Material transfer into railcars creates particulate suspensions in the car head space, which in turn creates particulate emissions when the air is displaced out of the car during filling. The displaced air is aspirated into a baghouse with fabric filters, which then remove the particulate matter from the aspiration air.

II. Rationale for Selection of Performance Indicators:

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a particulate control device; therefore

the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

Pulse air baghouses require air under pressure to deliver the pulse for cleaning the baghouse.

### III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.1 – 10 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.1 or above 10 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

The range of available air pressure to the baghouse is specified by the manufacturer. Out of range means the pulse cleaning cycle may not perform adequately.

**CE57-16**

**Barge Pellet Silos 1 and 2**

**I. Background**

**a. Emissions Units**

|                 |                            |
|-----------------|----------------------------|
| Description:    | Barge Pellet Silos 1 and 2 |
| Identification: | CE57-16                    |

**b. Applicable Regulation, Emission Limit and Monitoring Requirements**

|                      |                                 |
|----------------------|---------------------------------|
| Regulation:          | Permit                          |
| Regulated Pollutant: | PM/PM <sub>10</sub>             |
| Emission limits:     |                                 |
| PM                   | 0.1 gr/dscf (regulation)        |
| PM                   | 0.01 gr/dscf (used in modeling) |
| PM                   | 0.99 lb/hr                      |

**c. Control Technology: Baghouse (Bin Vent Filter)**

Reverse Pulse Cleaning

**II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.**

|                      | Indicator No. 1                                 | Indicator No. 2   |
|----------------------|---|---|
| Indicator            | Visible Emissions                               | Pressure Drop   |
| Measurement Approach | Visible emission observations performed weekly. | Weekly, Monthly and Quarterly inspections per Operation and Maintenance Plan.   |
| Indicator Range      | The indicator range is no visible emissions.    | The Pressure Drop indicator range is 0.1-10 in H <sub>2</sub> O. Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |

| Performance Criteria               |  |   |
|------------------------------------|--|---|
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O. |
| Verification of Operational Status | NA   | NA  |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.   |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.  |
| Averaging Period                   | NA   | NA  |

#### Justification:

##### I. Background

Material transfer into silos creates particulates suspended in the silo head space, which when displaced by the silo filling can emit particulates. Baghouses with fabric filters are used to remove the particulate matter from the aspiration air.

##### II. Rationale for Selection of Performance Indicators:

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a particulate control device; therefore the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

Pulse air baghouses require air under pressure to deliver the pulse for cleaning the baghouse.

### III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.1 – 10 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.1 or above 10 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

The range of available air pressure to the baghouse is specified by the manufacturer. Out of range means the pulse cleaning cycle may not perform adequately.

## CAM Plan for Feed House Scrubbers

### I. Background

#### a. Emissions Units

|        |                        |
|--------|------------------------|
| 216-01 | Steam Tube Germ Dryers |
| 216-02 | Fluid Bed Germ Dryer   |

#### b. Control Technology: 3-Stage Spray Tower Scrubbers

II. Monitoring Approach: The key elements of the monitoring approach for the VOCs in the Feedhouse scrubbers are presented in Table 1.

| <b>Table 1 – Monitoring Approach</b> |   |  |
|--------------------------------------|---|--|
|                                      | <b>Indicator No. 1</b>  | <b>Indicator No. 2</b>   |
| Indicator                            | Total scrubbant flow rate   | Scrubber dP  |
| Measurement Approach                 | D3/PI process data system, sampled at least once per minute.                                  | Weekly inspection  |
| Indicator Range                      | See Table 1 below   | See Table below  |
| <b>Performance Criteria</b>          |   |  |
| Data Representativeness              | A compliant stack test determines the minimum scrubbant flow rate as specified in the permit. | Proper differential pressure across the scrubber ensures there are no blockages or restrictions within the scrubber. |
| Verification of Operational Status   | NA  | NA   |
| QA/QC Practices and Criteria         | Visual and audible Alarms are set up on the D3 system to alert operators of flow rate status. | Pressure indicators are calibrated annually.   |
| Monitoring Frequency                 | At least once per minute.   | Weekly dP reading recorded by inspector.   |
| Data Collection Procedures           | PI system continuously records sampled data.  | Readings are recorded weekly on an inspection form.  |
| Averaging Period                     | One-hour  | NA   |

| CE     | Description            | Device                       | Pollutant | Emission Limit(s) | Monitoring Indicator | Indicator Level                         | Monitoring Frequency | Regulation No.        |
|--------|------------------------|------------------------------|-----------|-------------------|----------------------|---|----------------------|-----------------------|
| 216-01 | Steam Tube Germ Dryers | 3-Stage Spray Tower Scrubber | VOC       | 22.0 lb/hr        | Flow Rate            | 600 gpm or greater total scrubber flow  | Hourly               | Permit # 06-A- 035-S5 |
| 216-02 | Fluid Bed Germ Dryer   | 3-Stage Spray Tower Scrubber | VOC       | 7.41 lb/hr        | Flow Rate            | 660 gpm or greater total scrubbing flow | Hourly               | Permit # 08-A- 440-S2 |

**II. Justification:**

**I. Background**

The 3 Scrubbers remove VOC from various Feedhouse processes. The VOC is scrubbed from the aspiration air by a 3-stage spray tower scrubber.

**II. Rationale for Selection of Performance Indicators:**

Removal of VOC from the exhaust stream is accomplished by contact with a liquid scrubbing, in this case introduced in spray form in each of 3 chambers or stages. The higher the scrubbing flow rate in each stage, the greater the opportunity for contact with the VOC molecules in the exhaust.

Monitoring differential pressure across the scrubber provides indication that airflow is passing through the scrubber correctly and that the scrubber is not blocked or restricted. Proper airflow ensures adequate contact with the liquid scrubbing.

**III. Rationale for Selection of Indicator Ranges:**

The scrubbing flow rate is recorded during any compliance stack test. This becomes the minimum overall scrubbing flow rate H, which may be revised following a subsequent passing compliance stack test.

The indicator range selected for differential pressures is per manufacturer's recommendation.

## CAM Plan for Scrubbers

### I. Background

#### A. Emissions Units

58-1, 61-6

### II. Monitoring Approach

The key elements of the monitoring approach are presented in Table A. The selected performance indicators are scrubbant flow rate and visible emissions.

Table A – Monitoring Approach

|                                       | Indicator #1   | Indicator #2   |
|---------------------------------------|--|--|
| I. Indicator                          | Scrubbant flow rate through the scrubber   | Visible Emissions  |
| Measurement Approach                  | Scrubbant flow rate measured in the scrubber by a flow meter.  | Visible emissions from scrubber exhaust while operating.   |
| II. Indicator Range                   | An excursion is defined as a scrubbant flow rate outside the acceptable range. The acceptable ranges are listed in Table B below. Excursions trigger an inspection, corrective action and a recordkeeping requirement. | An excursion is defined as any visible emission occurring. Excursions trigger an inspection, corrective action, and a recordkeeping requirement. |
| III. Performance Criteria             |  |  |
| A. Data Representativeness            | The scrubbant flow rate is measured in the scrubber.   | Visible emissions observations are made at the emission point and on the external scrubber unit, system ductwork and associated components.      |
| B. Verification of Operational Status | The flow meter will be calibrated, operated, and maintained according to the plant Title V O&M plan.   | Not applicable.  |
| C. QA/QC Practices and Criteria       | Flow meter will be calibrated, operated, and maintained according to the plant Title V O&M plan.   | The observer will be trained by ADM to detect visible emissions.   |
| D. Monitoring Frequency               | The scrubbant flow rate will be inspected a minimum of   | No visible emissions (NVE) observations are made at  |

|                               |  |   |
|-------------------------------|--|---|
|                               | once per day when the scrubber is operating.   | the emission point on a weekly basis.   |
| E. Data Collection Procedures | Results of scrubbant flow rate checks will be recorded on the log. This log will be kept a minimum of 5 years. | Results of "no visible emissions" observations are recorded on the visible emissions. This log will be kept a minimum of 5 years. |

Table B – Scrubbant Flow Rate

| Control Equipment ID | Equipment                   | Pressure Drop Range (inches of water) |
|----------------------|-----------------------------|---------------------------------------|
| CE58-1               | Alcohol – Fermenters #1     | 40 to 80 gallons/minute               |
| CE58-2               | Alcohol – Fermenters #2     | 40 to 80 gallons/minute               |
| CE61-6               | Alcohol – Anhydrous Vent #1 | 2 to 10.5 gallons/minute              |
| CE64-5               | Alcohol – Anhydrous Vent #2 | 2 to 10.5 gallons/minute              |
| CE86-9               | Sugar – Dextrose Dryers     | 40 to 80 gallons/minute               |
| CE86-9C              | Sugar – Louisville Dryer    | 40 to 80 gallons/minute               |
| CE86-9D              | Sugar – Hersey Dryer        | 40 to 80 gallons/minute               |

### III. Additional Inspections

- A. Visible external inspections of the scrubbers are performed semiannually. Servicing of the unit and its components is performed as needed or during shutdown periods.
- B. Visible external inspections of the scrubbers are performed while the systems are operating.
- C. Maintenance is performed on an as-needed basis.
- D. Work orders generated and maintenance activities are recorded and kept on file for five years.

**CE86--9**

**Sugar House Process Stack**

**I. Background**

**a. Emissions Units**

|                 |   |
|-----------------|---|
| Description:    | Sugar House Process Stack<br>Big Dryer, 2 <sup>nd</sup> Pass Louisville and Hersey,<br>and Fines Transport System |
| Identification: | CE86-9  |

**b. Applicable Regulation, Emission Limit and Monitoring Requirements**

|                             |             |
|-----------------------------|-------------|
| Regulation:                 | Permit      |
| Regulated Pollutant:        | PM/PM-10    |
| Emission limits from stack: |             |
| PM                          | 0.1 gr/dscf |
| PM10                        | 3.77 lb/hr  |

**c. Control Technology: Impinjet Scrubber (impingement scrubber)**

**II. Monitoring Approach:** The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                      | <b>Indicator No. 1</b>  | <b>Indicator No. 2</b>  |
|----------------------|---|---|
| Indicator            | Scrubbant Rate  | Pressure Drop   |
| Measurement Approach | D3, PI process data systems record scrubbant rate.  | Weekly, Monthly and Quareterly inspections per Operation and Maintenance Plan.  |
| Indicator Range      | The indicator range is $\geq 100$ gpm<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. | The Pressure Drop indicator range is $\geq 10$ in H <sub>2</sub> O. Excursions are detected by visual and audible alarms.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |

| Performance Criteria               |   |  |
|------------------------------------|---|--|
| Data Representativeness            | Scrubbant flow rate accuracy is +/- 0.1 gpm.  | DP across the bag house is measured at the scrubber inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O. |
| Verification of Operational Status | NA  | NA   |
| QA/QC Practices and Criteria       | Weekly, Monthly inspection per O&M Plan. Flow meters are calibrated annually.                                 | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.  |
| Monitoring Frequency               | Data sampled at least once per 15 minutes.  | Data sampled at least once per 15 minutes. Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete inspection forms and keep records on file. D3 process data is stored in PI data historian. | Inspections are recorded on weekly inspection sheet. D3 process data is stored in PI data historian.                                       |

|                  | Indicator No. 1 | Indicator No. 2 |
|------------------|-----------------|-----------------|
| Averaging Period | NA              | NA              |

Justification:

I. Background

Carbon regeneration yields particulate emissions. Gases from the furnace pass through the hearth and into the Venturi scrubber, where water spray removes PM and other pollutants.

II. Rationale for Selection of Performance Indicators:

Removal of PM from the exhaust stream is accomplished by contact with a liquid scrubbant. The higher the scrubbant flow rate, the greater the opportunity for contact with the dust particles in the exhaust.

The scrubber differential pressure is proportional to the water flow and air flow through the scrubber Venturi throat and is an indicator of the energy across the scrubber and the proper operation of the scrubber within

### III. Rationale for Selection of Indicator Ranges:

The indicator range for scrubbant flow is at least 100 gpm. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the pressure drop is at least 10 inches H<sub>2</sub>O. If the pressure drop goes below 10 in H<sub>2</sub>O during normal operation, this indicates insufficient energy in the scrubbant, and thus less contact with dust particles. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

## CE118-1A, 1B and 1E, and CE136-3

### Spray Dryer Baghouses

#### I. Background

##### a. Emissions Units

|                   |  |
|-------------------|--|
| Description & ID: | Fibersol Spray Dryer No. 1 Baghouses (EP118-1)<br>Baghouse (CE118-1A)<br>Load Collector No. 1 (CE118-1B)<br>Load Collector No. 2 (CE118-1E)<br>Fibersol Spray Dryer No. 2 Baghouses (CE136-3) (EP136-3)<br>Transport Collector<br>Dryer Dust Collector |
|-------------------|--|

##### b. Applicable Regulation, Emission Limit and Monitoring Requirements

|                      |  |
|----------------------|--|
| Regulation:          | Permit   |
| Regulated Pollutant: | PM/PM-10   |
| Emission limits:     |  |
| EP118-1              | PM: 0.1 gr/dscf, 2.31 lb/hr                                |
|                      | PM10: 2.31 lb/hr   |
| EP136-3              | PM: 0.1 gr/dscf, 2.53 lb/hr<br>PM10: 1.23 lb/hr (0.45 tpy) |

##### c. Control Technology: Baghouses

Pulse Jet Cleaning

CPE Filters

120-TNFW-1120-S

16 oz Polyester Bags, 3.44:1 A/C, 17,136 sq. ft.

II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                                    | Indicator No. 1  | Indicator No. 2  |
|------------------------------------|--|--|
| Indicator                          | Visible Emissions  | Pressure Drop  |
| Measurement Approach               | Visible emission observations performed weekly.                                | Weekly, Monthly and Quarterly inspections per Operation and Maintenance Plan.  |
| Indicator Range                    | The indicator range is no visible emissions.                                   | The Pressure Drop indicator range is 0.1-8 in H <sub>2</sub> O. Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria               |  |  |
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O.  |
| Verification of Operational Status | NA   | NA   |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.  |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.   |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.   |
| Averaging Period                   | NA   | NA   |

Justification:

I. Background

The Fibersol Spray Dryers create a dry, powdery Fibersol product, the handling of which creates particulate emissions. Baghouses with fabric filters are used to remove the particulate matter from the aspiration air.

II. Rationale for Selection of Performance Indicators:

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a particulate control device; therefore the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.1 – 8 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.1 or above 8 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

**CE124-1 Starch 50 lb Bag Hopper No. 9**  
**CE127-1 Starch Tote Packer Storage Hopper**  
**CE110-1 Starch I Hopper**  
**CE110-2 Starch J Hopper**

I. Background

a. Emissions Units

|                   |  |
|-------------------|--|
| Description (ID): | Starch 50 lb Bag Hopper No. 9 (CE124-1)<br>Starch Tote Packer Storage Hopper (CE127-1)<br>Starch I Hopper (CE110-1)<br>Starch J Hopper (CE110-2) |
|-------------------|--|

b. Applicable Regulation, Emission Limit and Monitoring Requirements

|                      |  |
|----------------------|--|
| Regulation:          | Permit   |
| Regulated Pollutant: | PM   |
| Emission limits:     |  |
| CE124-1              | PM10: 0.01 gr/dscf; 0.11 lb/hr                                     |
| CE127-1              | PM: 0.1 gr/dscf; 0.34 lb/hr<br>PM10: 0.34 lb/hr                    |
| CE110-1 and CE110-2  | PM: 0.1 gr/dscf; 0.32 lb/hr; 1.4 tpy<br>PM10: 0.19 lb/hr; 0.83 tpy |

c. Control Technology: Fabric Filter

CE124-1: C.P. Environmental Filters Inc., pulse jet dust collector,  
polyester bags  
CE127-1 : Bin Vent.

CE110-1 and CE110-2: C.P. Environmental Filters Inc., pulse jet dust  
collector, polyester bags; Model 58FRB024CESSIIG

II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                      | Indicator No. 1                                 | Indicator No. 2   |
|----------------------|---|---|
| Indicator            | Visible Emissions                               | Pressure Drop   |
| Measurement Approach | Visible emission observations performed weekly. | Weekly, Monthly and Quarterly inspections per Operation and Maintenance Plan. |

|                                    |  |  |
|------------------------------------|--|--|
| Indicator Range                    | The indicator range is no visible emissions.                                   | The Pressure Drop indicator range is<br>CE127-1: 0.1-10 in H <sub>2</sub> O<br>CE24-1: 1 to 10 in H <sub>2</sub> O<br>CE110-1: 0.5 to 9 in H <sub>2</sub> O<br>CE110-2: 0.5 to 9 in H <sub>2</sub> O<br>Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria               |  |  |
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O.  |
| Verification of Operational Status | NA   | NA   |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.  |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.   |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.   |

|                  | Indicator No. 1 | Indicator No. 2 |
|------------------|-----------------|-----------------|
| Averaging Period | NA              | NA              |

Justification:

I. Background

Material transferred to the hopper falls into the hopper due to the loss of velocity associated with the larger diameter hopper. The material is then bagged or loaded into totes. Dust entrained in the exhaust air is removed from the air by the baghouse or bin vent filter before discharge to the atmosphere.

## II. Rationale for Selection of Performance Indicators:

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a particulate control device; therefore the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

## III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.1 – 10 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.1 or above 10 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

**CE137-2A**

**Fuller No. 23 and 24 Air Merges Baghouse**

**I. Background**

a. Emissions Units

|                   |                                  |
|-------------------|----------------------------------|
| Description (ID): | Nos. 23 and 24 Fuller Air Merges |
| Identification:   | CE137-2A                         |

b. Applicable Regulation, Emission Limit and Monitoring Requirements

|                      |             |
|----------------------|-------------|
| Regulation:          | Permit      |
| Regulated Pollutant: | PM          |
| Emission limits:     |             |
| PM:                  | 0.1 gr/dscf |
| PM, PM10:            | 0.60 lb/hr  |

c. Control Technology: Fabric Filter

**II. Monitoring Approach:** The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                      | <b>Indicator No. 1</b>                          | <b>Indicator No. 2</b>  |
|----------------------|---|---|
| Indicator            | Visible Emissions                               | Pressure Drop   |
| Measurement Approach | Visible emission observations performed weekly. | Weekly, Monthly and Quarterly inspections per Operation and Maintenance Plan.   |
| Indicator Range      | The indicator range is no visible emissions.    | The Pressure Drop indicator range is 0.51-7.5 in H <sub>2</sub> O. Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria |   |   |

|                                    |  |   |
|------------------------------------|--|---|
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.5 in. H <sub>2</sub> O. |
| Verification of Operational Status | NA   | NA  |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.   |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.  |
| Averaging Period                   | NA   | NA  |

Justification:

I. Background

The Fuller Air Merges convey starch to packaging and loadout areas. This transfer creates particulate emissions, which are removed from the air stream using a baghouse with fabric filter.

II. Rationale for Selection of Performance Indicators:

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a particulate control device; therefore the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

### III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.5 to 7.5 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.5 or above 7.5 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

**CE216-03**

**Fluid Bed Germ Cooler Baghouse**

I. Background

a. Emissions Units

|                 |  |
|-----------------|--|
| Description:    | Fluid Bed Germ Cooler Baghouse<br>Nos. 1, 2, 3 and 4 |
| Identification: | CE216-03   |

b. Applicable Regulation, Emission Limit and Monitoring Requirements

|                      |             |
|----------------------|-------------|
| Regulation:          | Permit      |
| Regulated Pollutant: | PM/PM-10    |
| Emission limits:     |             |
| PM                   | 0.1 gr/dscf |
| PM                   | 2.29 lb/hr  |
| PM10                 | 1.34 lb/hr  |

c. Control Technology:

Baghouse Reverse

Pulse Cleaning

II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

|                      | Indicator No. 1                                 | Indicator No. 2   |
|----------------------|---|---|
| Indicator            | Visible Emissions                               | Pressure Drop   |
| Measurement Approach | Visible emission observations performed weekly. | Weekly, Monthly and Quarterly inspections per Operation and Maintenance Plan. |

|                                    |  |   |
|------------------------------------|--|---|
| Indicator Range                    | The indicator range is no visible emissions.                                   | The Pressure Drop indicator range is 0.1-10 in H <sub>2</sub> O. Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria               |  |   |
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O.   |
| Verification of Operational Status | NA   | NA  |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.   |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.  |
| Averaging Period                   | NA   | NA  |

Justification:

I. Background

The fluid bed germ cooler aspiration and material transfer to and from the cooler creates particulate emissions. Baghouses with fabric filters are used to remove the particulate matter from the aspiration air.

II. Rationale for Selection of Performance Indicators:

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a

particulate control device; therefore the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

Pulse air baghouses require air under pressure to deliver the pulse for cleaning the baghouse.

### III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.1 – 10 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.1 or above 10 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

The range of available air pressure to the baghouse is specified by the manufacturer. Out of range means the pulse cleaning cycle may not perform adequately.

**CE237-01**

**Sifting and Grinding Baghouse**

**I. Background**

**a. Emissions Units**

|                 |                               |
|-----------------|-------------------------------|
| Description:    | Sifting and Grinding Baghouse |
| Identification: | CE237-01                      |

**b. Applicable Regulation, Emission Limit and Monitoring Requirements**

|                      |             |
|----------------------|-------------|
| Regulation:          | Permit      |
| Regulated Pollutant: | PM/PM-10    |
| Emission limits:     |             |
| PM                   | 0.1 gr/dscf |
| PM/PM10              | 2.80 lb/hr  |

**c. Control Technology:**

Baghouse Reverse

Pulse Cleaning

**II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.**

|                      | Indicator No. 1                                 | Indicator No. 2   |
|----------------------|---|---|
| Indicator            | Visible Emissions                               | Pressure Drop   |
| Measurement Approach | Visible emission observations performed weekly. | Weekly, Monthly and Quarterly inspections per Operation and Maintenance Plan. |

|                                    |  |   |
|------------------------------------|--|---|
| Indicator Range                    | The indicator range is no visible emissions.                                   | The Pressure Drop indicator range is 0.1-10 in H <sub>2</sub> O. Excursions are detected by reading magnehelic gauge and recording on inspection sheet.<br><br>Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours. |
| Performance Criteria               |  |   |
| Data Representativeness            | Observations of the stack exhaust are performed while the system is operating. | DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.1 in. H <sub>2</sub> O.   |
| Verification of Operational Status | NA   | NA  |
| QA/QC Practices and Criteria       | Trained observers perform visible emission observations.                       | Pressure gauges are calibrated annually. Pressure taps checked annually for plugging.   |
| Monitoring Frequency               | Weekly   | Weekly DP recorded by inspector.  |
| Data Collection Procedures         | Observers complete visible emission forms and keep records on file.            | Inspections are recorded on weekly inspection sheet.  |
| Averaging Period                   | NA   | NA  |

Justification:

I. Background

The feed grinding and material transfer operations create particulates. Since the particulates may settle in area of the conduit, the system is aspirated in strategic locations. The aspiration air can contain particulates and must be filtered prior to release to the atmosphere. Baghouses with fabric filters are used to remove the particulate matter from the aspiration air.

II. Rationale for Selection of Performance Indicators:

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the bag house. When the bag

house is operating properly, there will be no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of a particulate control device; therefore the presence of visible emissions is used as a performance indicator.

In general, baghouses are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate excessive cleaning, or broken or loose bags. Bag problems may also be indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the baghouse also serves to indicate that there is airflow through the control device.

Pulse air baghouses require air under pressure to deliver the pulse for cleaning the baghouse.

### III. Rationale for Selection of Indicator Ranges:

The indicator range for opacity is no visible emissions. This indicator range was selected based on the facility's permit requirements and results during the compliance tests.

The indicator range chosen for the baghouse pressure drop is 0.1 – 10 inches H<sub>2</sub>O. An automatic cleaning system operates on a continuous timer. If the pressure drop goes below 0.1 or above 10 in H<sub>2</sub>O during normal operation, a problem may be indicated. This range is chosen from manufacturer's recommendation and historical data.

The range of available air pressure to the baghouse is specified by the manufacturer. Out of range means the pulse cleaning cycle may not perform adequately.

## CAM Plan for Flare

### I. Background

#### B. Emissions Units

YRD-L2

### II. Monitoring Approach

The key elements of the monitoring approach are presented in Table A. The selected performance indicators are combustion chamber temperature and visible emissions.

Table A – Monitoring Approach

|                                       | Indicator #1   | Indicator #2   |
|---------------------------------------|--|--|
| I. Indicator                          | Combustion chamber temperature   | Visible Emissions  |
| Measurement Approach                  | Combustion chamber temperature is measured   | Visible emissions from flare exhaust while operating.  |
| II. Indicator Range                   | An excursion is defined as a combustion chamber temperature below 1500°F. If the temperature is below 1500°F, alcohol truck loadout may not occur. | An excursion is defined as any visible emission occurring. Excursions trigger an inspection, corrective action, and a recordkeeping requirement. |
| III. Performance Criteria             |  |  |
| A. Data Representativeness            | The temperature of the combustion chamber is measured.   | Visible emissions observations are made at the emission point and on the flare unit, system ductwork and associated components.                  |
| B. Verification of Operational Status | Temperature instrumentation is utilized to measure chamber temperature (thermocouple).   | Not applicable.  |
| C. QA/QC Practices and Criteria       | Temperature instrumentation is utilized to measure chamber temperature (thermocouple).   | The observer will be trained by ADM to detect visible emissions.   |
| D. Monitoring Frequency               | The combustion chamber temperature is measured   | No visible emissions (NVE) observations are  |

|                               |   |   |
|-------------------------------|---|---|
|                               | on a continuous basis when the flare is operating.                          | made at the emission point on a weekly basis.   |
| E. Data Collection Procedures | Data shall be collected with the D3 (or equivalent) electronic file system. | Results of "no visible emissions" observations are recorded on the visible emissions. This log will be kept a minimum of 5 years. |

### III. Additional Inspections

- E. Visible external inspections of the flare are performed quarterly. Servicing of the unit and its components is performed as needed or during shutdown periods.
- F. Visible external inspections of the flare are performed while the systems are operating.
- G. Maintenance is performed on an as-needed basis.
- H. Work orders generated and maintenance activities are recorded and kept on file for five years.

# Appendix B

## Agency O&M Plan CE230-4

### Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

### General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

### Weekly

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required in order to continue operation. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal or the process will be shut down until repairs are made.
- Maintain a written record of the observation and any action resulting from the inspection.

### **Monthly**

- Check the hopper functions and performance.
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.
- Maintain a written record of the inspection and any action resulting from the inspection.

### **Quarterly**

- Check the cleaning sequence of the baghouse.
  - Pulse jet baghouse - check the air delivery system
- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.
- Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse.
- Maintain a written record of the inspection and any action resulting from the inspection.

### **Semiannual**

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.
- If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.
- Maintain a written record of the inspection and any action resulting from the inspection.

### **Record Keeping and Reporting**

- Maintenance and inspection records will be kept for five years and available upon request.

### **Quality Control**

- The filter equipment will be operated and maintained according to the manufacturer's recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)"b"