Iowa Department of Natural Resources
Draft Title V Operating Permit Fact Sheet

This document has been prepared to fulfill the public participation requirements of 40 CFR Part 70 and 567 Iowa Administrative Code (IAC) 22.107(6). 40 CFR Part 70 contains operating permit regulations pursuant to Title V of the Clean Air Act.

The Iowa Department of Natural Resources (DNR) finds that:

1. Cargill, Inc. - Cedar Rapids, located at 1710 16th Street SE, Cedar Rapids, IA 52401 has applied to renew their Title V Operating Permit. The designated responsible official of this facility is Dan Pulis.
2. Cargill, Inc. - Cedar Rapids is a corn wet milling facility. This facility consists of 179 emission units with potential emissions of:

Pollutant	**Abbreviation**	**Potential Emissions** (Tons per Year)
Particulate Matter (≤ 2.5 μm)	$PM_{2.5}$	45.94
Particulate Matter (≤ 10 μm)	PM_{10}	161.70
Particulate Matter	PM	168.72
Sulfur Dioxide	SO_2	83.89
Nitrogen Oxides	NO_x	262.58
Volatile Organic Compounds	VOC	453.37
Carbon Monoxide	CO	254.50
Lead	Lead	0.00
Hazardous Air Pollutants [(1)]	HAP	152.13

[(1)] May include the following: see application for a complete list of potential HAP's.

3. Cargill, Inc. - Cedar Rapids submitted a Title V Operating Permit renewal application on December 14, 2023 and additional information on February 9, 2024. Based on the information provided in these documents, DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 22.107.
4. DNR has complied with the procedures set forth in 567 IAC 22.107, including those regarding public notice, opportunity for public hearing, and notification of EPA and surrounding state and local air pollution programs.

DNR procedures for reaching a final decision on the draft permit:

1. The public comment period for the draft permit will run from May 9, 2024 through June 7, 2024. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Anthony Daugherty at the Linn County address shown below. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period.
2. Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Anthony Daugherty at the Linn County address shown below.
3. DNR and Linn County will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the renewal application. The responsiveness summary and the final permit will be available to the public upon request.

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   Air Quality Division
   1020 6th Street SE
   Cedar Rapids, IA 52401
   Phone: (319) 892-6013
   E-mail: Anthony.Daugherty@linncountyiowa.gov

DNR concludes that:

1. DNR has authority under 455B.133 Code of Iowa to promulgate rules contained in 567 IAC Chapters 20-35, including, but not limited to, rules containing emission limits, providing for compliance schedules, compliance determination methods and issuance of permits.
2. DNR has the authority to issue operating permits for air contaminant sources and to include conditions in such permits under 455B.134 Code of Iowa.
3. The emission limits included in this permit are authorized by 455B.133 Code of Iowa and 567 IAC Chapters 20-35.
4. DNR is required to comply with 567 IAC Chapter 22 in conjunction with issuing a Title V Operating Permit.
5. The issuance of this permit does not preclude the DNR from pursuing enforcement action for any violation.

Permit Reviewer Notes
For the issuance of Cargill, Inc – Cedar Rapids R3 Title V Operating Permit

Permitting Authority:
Iowa Department of Natural Resources
Air Quality Bureau
6200 Park Ave, Suite 200
Des Moines, IA 50321

Applicant:
Cargill, Inc. – Cedar Rapids
1710 16th St. SE
Cedar Rapids, IA 52401

EIQ#: 92-9020
Facility File Number: 57-01-004

Permit Writer:
Anthony J. Daugherty
Senior Air Quality Scientist
Linn County Public Health
Air Quality Division
1020 6th St SE
Cedar Rapids, IA 52401

Process Description and SIC/NAICS Codes:
NAICS Description: Wet Corn Milling
Principal NAICS Code: 311221
SIC Description: Wet Corn Milling
Principal SIC Code: 2046

Attainment Status:
Cargill, Inc. operates in the city of Cedar Rapids in Linn County, Iowa. The attainment status for this location is provided below. Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria pollutant. Visit https://www3.epa.gov/airquality/urbanair/sipstatus/reports/ia_areabypoll.html for the status of any areas in Iowa designated as nonattainment.

Table 1 - Attainment Status

Pollutant	Averaging Period	Attainment Status
PM_{10} (150 µg/m^3)	24-hour	Attainment
$PM_{2.5}$ (12.0 µg/m^3)	Annual	Attainment
$PM_{2.5}$ (35 µg/m^3)	24-hour	Attainment
Ozone (0.070 ppm)	8-hour	Attainment
SO_2 (75 ppb)	1-hour	Attainment
SO_2 (1,300 µg/m^3) (0.5 ppm)	3-hour	Attainment
CO (10 mg/m^3) (9 ppm)	8-hour	Attainment
CO (40 mg/m^3) (35 ppm)	1-hour	Attainment
NO_2 (100 µg/m^3) (0.053 ppm)	Annual	Attainment
NO_2 (100 ppb)	1-hour	Attainment
Lead (0.15 µg/m^3)	Rolling 3-Month Average	Attainment

Facility Compliance Status:
The facility is currently in compliance with all applicable federal, state, and local air pollution regulations.

Significant permitting action since issuance of Renewal 2 includes incorporating new or modified construction permits for the following EP(s):

EP85 – C Star Starch Bin #10
EP 70 – Starch Mod Tanks
EP 453 – Dryer 3 Baghouse
EP 454 – Dryer 4 Baghouse
EP 20 – RTO Maintenance Bypass
EP 410 – Gluten & Germ Dryers
EP 210 – 500 kW Emergency Generator
EP 450 - #8 Starch Slurry Tank
EP 116 - #5 Starch Dryer
EP 265 – West Dilute Supersack Receiver
EP 266 – West Dense Supersack Receiver
EP 267 – West Supersack Vacuum System
EP 268 – West Dilute Supersack Surge Bin
EP 269 – West Dense Supersack Surge Bin
EP 162 - #6 Starch Flash Dryer
EP 177 – Corn Rail Dump
EP 32 – Carbon Furnace
EP 24 – Precoat Bin
EP 169 – Storage Bin 109
EP 171 – Storage Bin 108
EP 37 – Corn Cleaner
EP 101 - #2 Gas Boiler
EP 160 – Specialty Reactors
EP 109 – Gluten Filter Aspiration
EP 40 – Millhouse Aspiration
EP 113 – RTO Maintenance Bypass
EP 23 – Dryer Startup Purge
EP 118 – Salt Storage Bin
EP300 – C Star Film Starch Receiving Filter
EP320 – Starch Dryer

Background:
Cargill, Inc. – Cedar Rapids has applied for a Part 70 Title V Operating Permit. The facility is a corn wet milling facility with principal products being gluten meal, germ meal, wet feed, industrial and food starches, and corn syrup. The facility consists of 54 insignificant emission units and 179 significant units.

Table 2 - Facility Contacts

Permit Contact	Responsible Official[1]
Tom Loving Environmental Specialist	Dan Pulis Facility Manager
1710 16th St SE Cedar Rapids, IA 52401	1710 16th St SE Cedar Rapids, IA 52401
(319) 399-3620 Tom_Loving@Cargill.com	(319) 399-2177 Dan_Pulis@Cargill.com

[1] Individual listed meets the requirements outlined in 567 IAC 22.100.

The company submitted its third renewal application on December 14, 2023. Additional information was submitted on February 9, 2024.

Regulatory Status:
The facility is defined as a major source according to 567 IAC 22.100 and LCO Sec. 10-55 for the pollutants checked below.

Table 3 - Regulatory Status

Pollutant	Major for Title V?	PTE (by Rule) tons per year	2023 Actuals tons per year
$PM_{2.5}$	☐	45.97	16.13
PM_{10}	☒	161.83	42.34
PM	NA	168.85	42.06
SO_2	☐	83.89	16.20
NO_x	☒	262.58	53.79
VOC	☒	453.37	173.32
CO	☒	254.50	100.09
Lead	☐	0.00	0.00
Individual HAP[1]	☒	46.08 (Chloroform)	25.21 (Propylene Oxide)
Total HAPs	☒	152.13	51.14

[1] See permit application for a complete list of HAPs.

General Facility Requirements

Table 4 - NSPS (40 CFR Part 60)

NSPS Subpart	Affected Emission Unit(s)
A – General Provisions	All NSPS-affected emission units
IIII – Stationary Compression Ignition Internal Combustion Engines	258 (500 kW Back-up Generator)
Db – Industrial, Commercial, Institutional Steam Generating Units	100 (Gas Boiler); 101 (#2 Gas Boiler)

The New Source Performance Standards (NSPS) Subparts A (General Provisions; 40 CFR §60.1 through §60.19) and DD (Standards of Performance for Grain Elevators; 40 CFR §60.300 through §60.304) does not apply to the facility. The facility does not meet the applicability criteria of §60.300. Permanent grain storage capacity is less than one million bushels.

Table 5 - NESHAP (40 CFR Part 61)

NESHAP Subpart	Affected Emission Unit(s)
M – Asbestos	Entire Facility – Demolition and Renovation Projects

Table 6 - NESHAP (40 CFR Part 63)

NESHAP Subpart	Affected Emission Unit(s)
A – General Provisions	All NESHAP-affected emission units except 258
ZZZZ – Stationary Reciprocating Internal Combustion Engines	210 (Emergency Generator) 258 (500 kW Back-up Generator)
EEEE – Organic Liquids Distribution (Non-Gasoline)	160 (Specialty Starch Reactors)
DDDDD – Industrial, Commercial, Institutional Boilers and Process Heaters	100 (Gas Boiler) 101 (#2 Gas Boiler) 516 (Refinery Boiler)

Emission unit 380 is of the source category for Subpart Q (*National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers*; 40 CFR §63.400 – §63.407). However, this emission unit is not subject because this facility does not use chromium-based chemicals and therefore does not meet the applicability criteria of 40 CFR §63400(a).

PSD (40 CFR Part 52.21):

A major stationary source has the potential emissions of 100 tons/year or more of any PSD pollutant (PM,PM_{10}, NO_x, SO_2, VOC, CO, or Pb) if the source is one of the 28 listed in 40 CFR §52.21(b)(1)(i)(a) or its potential emissions are 250 tons/yr or greater for a PSD pollutant if the source is not one of the 28 listed.

Cargill, Inc. – Cedar Rapids is subject to PSD. It is one of the 28 listed source categories (Fossil fuel-fired boilers (or combination thereof) totaling more than 250 million British thermal units per hour heat input). In addition, the facility has the potential to emit 250 tpy or more of any single regulated NSR pollutant.

112(r) (40 CFR Part 68):

The facility is subject to 112(r) requirements.
A plant, factory, or other facility is subject to the provisions of Section 313 if it meets all three of the following criteria:

1) It is included in Standard Industrial Classification (SIC) code of 20; and

2) It has 10 or more full-time employees; and
3) It manufactures, imports, processes, or otherwise uses any of the EPCRA section 313 chemicals listed greater than the "threshold" quantity.

Its initial Risk Management Plan (RMP) was submitted to EPA no later than 6/21/1999. The facility most recently updated its RMP to reflect the removal of ethylene oxide from its facility. This plan was submitted to the EPA (postmarked) on December 6, 2006.

NAAQS (40 CFR Part 50):

The facility is located in an attainment area. Modeling is not required as part of the Title V operating permit process. The Department has evaluated predicted compliance with the PM_{10} 24-hour standard. The facility is in predicted compliance with this standard and was below 90% of the respective NAAQS (150 $\mu g/m^3$) at the time of the last modeling analysis conducted in 2014. The current version of AERMOD at the time of analysis was 14134. This is the model preferred by the US EPA under 40 CFR 51, Appendix W. The Department has not evaluated predicted compliance with the 24-hour $PM_{2.5}$ NAAQS, 1-hour and 8-hour CO NAAQS, annual and 1-hour NO_2 NAAQS, or 3-hour and 1-hour SO_2 NAAQS as this facility has not had a permitting project which would trigger such an analysis pursuant to current IDNR modeling guidelines. However, this facility was included in the 1-hr SO_2 Data Requirements Rule modeling analysis conducted in Linn County. The facility predicted compliance with the 1-hour SO_2 NAAQS.

Title IV (40 CFR Part 72, 73, 75, 76, 77 and 78):

The facility is not considered an affected source under 40 CFR 72, 73, 75, 76, 77, and 78 definitions as emission units at this source are not subject to the acid rain emission reduction requirements or the acid rain emission limitations, as adopted by the Department by reference (See 567 IAC 22.120 – 567 IAC 22.148).

Stratospheric Ozone (40 CFR Part 82):

The facility is subject to the Stratospheric Ozone requirements (1990 Clean Air Act, as amended, Sections 601-618).

CAM (40 CFR Part 64):

The following emission units are subject to CAM requirements:

Table 7 - CAM (40 CFR Part 64)

EP	EU	EU Description	Pollutant	Control Equipment
13	13	Truck Loadout	PM	Baghouse
32[1]	32A	Carbon Furnace	VOC, CO	Afterburner
33	33	Refinery Process Tanks	HAP	Packed Bed Scrubber
41	41	Steep Tanks	VOC	Packed Bed Scrubber
90	90	#4 Starch Flash Dryer	VOC, PM, PM10	Wet Scrubber
116	116	Starch Spray Dryer	PM	Baghouse
177	177	Grain Receiving Pit	PM	Baghouse
410[1]	20A	Germ Dryer Burner	VOC, CO	RTO
	20BNEW	Gluten Steam Tube Dryer		
	20C	Germ Dryer Sections 1-4		
	20D	Waste Gas Steepwater Evaporator		
	20F	Bran Dewatering System		
	113	Germ Dryer Section 5		
	113B	Germ Dryer Burner		
	410	RTO Burner		

[1] NOTE: The construction permit requirements of EPs 32 and 410 are considered CAM equivalent (require continuous monitoring of the RTO chamber temperature). Pursuant to 40 CFR §64.3(4)(iii) the required frequency of conducting the monitoring and data collection procedures requires at least once per 24-hour period since the PTE for each emission unit is less than major source thresholds. Therefore, a CAM plan will not be required as part of this renewal permit.

Facility O&M Plans Summary
The following emission unit(s) are subject to Facility O&M requirements:

Table 8 - Facility O&M Plans

EP	EU	EU Description	Pollutant	Control Equipment
5	5	Soda Ash Storage Bin	PM	Baghouse
40	40A-40G	Mill Aspiration System	VOC	Packed Bed Scrubber
263	263	Elevator Tunnel Vacuum	PM	Baghouse

General Comments:

A spreadsheet titled "9020R3calcs" has been developed which contains much of the information used to base decisions relevant to the issuance of this renewal Title V permit. These reviewer notes are intended to supplement the information contained in this spreadsheet. This spreadsheet includes the following tabs:
EU INFO - Identifies each emission point, emission unit, control equipment, continuous monitoring system (if applicable), rated capacity, and permit numbers.
PTE-RULE – Includes calculations of potential emissions based on the following local, state or federal regulations (as applicable): Linn County Code of Ordinances, Iowa Administrative Code, and Code of Federal Regulations. In addition, the emissions are based on construction/operating (ATI/PTO) permit

allowables, or by calculating the emission rate based on the equipment's rated capacity and published emission factors where no emission limit for a pollutant subject to regulation is listed and there is not an applicable Federal, State or Local regulation limiting the potential emissions. Lastly, emissions may be based on engineering tests at this facility or similar equipment at another facility owned by Cargill.
PTE-EF – Includes calculations of potential emissions using published emission factors from webfire, AP-42, site-specific stack test data, or engineering estimates.
PTE-UNCONTROLLED – Includes calculations of uncontrolled potential emissions to determine which sources are major, significant or minor by estimating emissions pre-control for proposed monitoring requirements pursuant to DNR's periodic monitoring guidance.
PTE-HAP – Includes calculations of potential hazardous air pollutants.
PTE-EF HAPs – Includes calculations of potential emissions using published emission factors from webfire, AP-42, site-specific stack test data, or engineering estimates.
PTE-UNCONTTROLLED HAPs - Includes calculations of uncontrolled potential emissions to determine which sources are major, significant, or minor by estimating emissions pre-control for proposed monitoring requirements pursuant to DNR's periodic monitoring guidance.
2023 ACTUALS - Summarizes the amount of emissions emitted from the facility in calendar year 2022.
2023 Actuals – HAPs – Summarizes the amount of HAP emissions emitted from the facility in calendar year 2022.
Source Tests - Summarizes all the sources and pollutants tested. This supports the emission factors used in the "PTE-EF" tab.
Monitoring - Identifies which sources are subject to Compliance Assurance Monitoring (CAM), which is subject to an Agency or Facility O&M plan and which sources have opacity monitoring associated with them.
PTE-GHG – Includes calculations of non-biogenic GHG emissions from the facility.
Form 1.3 - Summarizes the insignificant activities listed in Form 1.3 of the permittee's application.

Opacity Monitoring

The "Monitoring" tab also identifies which sources require opacity monitoring. Weekly opacity monitoring is required on particulate-emitting sources at this facility because the opacity limit in Linn County is 20%, which is less than the state limit of 40%. The facility requested the no visible emissions action level instead of the Method 9 readings for all units in its initial Title V permit. These requirements will continue to be carried forward in this renewal permit.
Sources which emit particulate matter which are having opacity monitoring waived entirely are the following sources: 20, 23, 100, 101, 113, 210, 258, 268, 269, 380, and 516. EPs 20 and 113 are bypass stacks when the RTO is down for maintenance (50 hours per year) and EP23 is only operated during dryer startup (100 hours per year). EPs 210 and 258 are diesel-fired engines. EPs 268 and 269 exhaust indoors. EP 380 is a cooling tower. EPs 100, 101, and 516 are natural gas-fired boilers.

Monitoring (Source Testing) Determination Basis:

The initial Title V permit did not require any source tests for fuels the facility was currently combusting. IPL never combusted old corrugated cardboard reject (OCCR) fuel in boilers 1 and 2. For purposes of this renewal permit to determine which sources and the total number of sources to be tested the following criteria were considered:

1) Has the source already been tested?
2) How recently was the source tested?
3) Are the potential controlled emissions (based on the approved emission factor) from the source in excess of 1 ton/year?
4) Is the source subject to a CAM plan?
5) Is the source already subject to a Federal Regulation such as an NSPS or NESHAP?
6) What is the current permitted emission allowable and how close to that allowable are actual emissions?
7) What are DNR's Periodic Monitoring Guidance guidelines?

It should be noted that only because the afore-mentioned criteria was selected in determining which sources should potentially be tested for the purposes of this renewal, the Department maintains the authority to require source testing of other sources pursuant to IDNR's periodic monitoring guidance, the IAC and LCCO at the Department's discretion for future renewals. Furthermore, the Department maintains the authority to require testing of existing equipment pursuant to LCCO Sec. 10-70(e)(2)(b). Specifically, LCCO Sec. 10-70(e)(2)(b) states:

"The Air Pollution Control Officer may require the owner or the operator's authorized agent to conduct an emission test on any equipment if the Air Pollution Control Officer has reason to believe that the equipment does not comply with the applicable requirements. Grounds for requiring such a demonstration for compliance include a modification of control or process equipment, age of equipment, or observation of opacities or other parameters outside the range of those indicative of properly maintained and operated equipment. Testing may be required as necessary to determine actual emissions from a source where that source is believed to have a significant impact on the public health or ambient air quality of an area. The Air Pollution Control Officer shall provide the owner or agent not less than 30 days to perform the compliance demonstration and shall provide written notice of the requirement."

PM/PM_{10}

The following sources have a PTE > 1 tpy of PM or PM_{10}: 1, 13, 32, 41, 70, 71, 90, 101, 116, 162, 177, 320, 410, and 452. (14sources). Of these sources, the following have not been previously tested: 70, 71, 177, and 452 (4 sources). EPs 70 and 71 are packed bed scrubbers. EP 70 has a PM/PM_{10} emission allowable of 0.1 gr/dscf and EP 71 has an emission limit equivalent to 0.01 gr/dscf. Both emission limits are conservative and should easily be achievable based on the control and nature of process the scrubbers are controlling. EP 177 is subject to CAM and will require a test during this renewal cycle. It is a baghouse-controlled grain receiving pit. EP 452 is a small (<1,000 scfm) uncontrolled starch centrifuge that has a PM emission limit of the 0.1 gr/dscf LCCO allowable. Of the sources which have been tested, EP 101 is subject to the Boiler MACT (NESHAP Subpart DDDDD) and is subject to work practices. The other sources either demonstrated compliance through source testing within the last ten years or demonstrated compliance with the allowable emission limit by a considerable margin. EP12, Gluten Sizing System, will also require a stack test. It was the subject of an excess emissions event early in 2024.

$PM_{2.5}$

Currently there are no $PM_{2.5}$ emission limits in any of the affected $PM_{2.5}$-emitting sources at this facility. $PM_{2.5}$ testing of any source will not be required as part of this renewal permit.

SO_2

The following sources have a PTE > 1 tpy of SO_2: 1, 41, 90, 109, 116, 162, 254, and 410 (8 sources). Of all SO_2-emitting sources with a PTE > 1 tpy none are subject to CAM for SO_2. EPs 32, 20, 41, 109, 113, and 410 have previously been tested at the Cedar Rapids Cargill facility. EPs 1 and 162 SO_2 emissions are calculated based tests from other Cargill plants. EP 254 is a starch slurry tank with passive vents which emissions are based on SO2 testing conducted on similar slurry tanks (EPs 248 and 252) at the Cedar Rapids Cargill facility. EPs 90 and 116 SO_2 emissions are generated exclusively from the combustion of natural gas. Emission factors are well established for natural gas combustion. EP32 was tested in January 2023 and based on those results, its PTE is below 1 tpy using this test data. No SO_2 source tests will be required in this renewal permit.

NO_x

The following sources have a controlled PTE > 1 tpy of NO_x: 32, 100, 101, 116, 162, 210, 258, 410, and 516 (9 sources). EP 100 and EP 101 have NOx CEMS installed and conduct annual RATA's and cylinder gas audits pursuant to PS2 of 40 CFR 60. They are both subject to NSPS Subpart Db. Emission points 32, 116, 162, 410, and 516 combust natural gas. Emission factors are well established for these sources. EP 516 is subject to federal regulations (NESHAP Subpart DDDDD (Boiler MACT)) and is subject to work practices. EPs 210 and 258 are diesel-fired generators. Emission factors are well established for diesel-fired emission units. Of all NOx-emitting sources with a PTE > 1 tpy, none are subject to CAM for NO_x. No NO_x source tests will be required in this renewal permit.

CO

The following sources have a PTE > 1 tpy of CO: 32, 100, 101, 116, 162, 410, and 516 (7 sources). EPs 32, 101, 210, 258, and 410 have previously tested and demonstrated compliance with their respective CO emission limits or standards (258 is subject to NESHAP Subpart ZZZZ which required the installation of a Diesel Oxidation Catalyst, and the source uses continuous parametric monitoring systems (CPMS)). EP210 is now operated as an emergency engine only and the permit has been amended to make this change federally enforceable. EP 32 continuously monitors the temperature of its zero hearth furnace and maintains a minimum temperature which was established during its compliance test. EPs 100, 101 and 516 are boilers and are subject to Federal regulations (NESHAP Subpart DDDDD (Boiler MACT)). EPs 100, 101 and 516 are subject to work practices. EP's 116 and 162 CO emissions are generated from the combustion of natural gas. Emission factors are well established for these sources. Of all CO-emitting sources with a PTE > 1 tpy, EPs 32 and 410 would be subject to CAM for CO, however since their respective construction permits are considered CAM equivalent. No CO source tests will be required in this renewal permit.

VOC

The following sources have a controlled PTE > 1 tpy of VOC: 1, 6, 8, 9, 12, 13, 14, 23, 32, 40, 41, 51, 61, 70, 71, 85, 90, 100, 101, 109, 116, 160, 161, 162, 173, 249, 250, 251, 320, and 410 (30 sources). Of all VOC-emitting sources with a PTE > 1 tpy EPs 40, 41, and 90 are subject to CAM. EPs 32 and 410 continuously monitor the temperature of its zero hearth furnace (EP32) or RTO (EP410) and maintain a minimum temperature which was established during their respective compliance tests. Cargill has previously conducted engineering tests to determine VOC emissions from certain emission units which have the potential to emit VOC to establish federally enforceable limits in their respective construction permits, in addition to using these tests to base emission limits on other similar sources. Cargill applied a safety factor to the engineering test results and proposed those values as VOC emission limits in the permits. Sources with VOC PTE > 10 tpy which haven't demonstrated compliance with the established VOC limit were required to test as part of the renewal application VOC tests will be required for EPs 90 (oxidized and non-oxidized tests), 13, 40, 109, 160 and 320. This renewal permit will require a VOC test on EP161 in this renewal permit.

HAP

The following sources have HAP emissions > 1 tpy for a single HAP: 1, 13, 32, 33, 41, 100, 101, 116, 160, 161, 162, 320, and 410 (13 sources). EPs 100 and 101 are subject to Federal regulations (NESHAP Subpart DDDDD (Boiler MACT)) and will be subject to work practices. Additionally, these HAP emissions are generated from the combustion of natural gas. Emission factors are well established for these sources. Cargill tested EPs 13, 40, 90, 109, 160, and 320 during the previous renewal permit. EPs 32, 33, 41, 116, 160, 161, and 162 have either conducted engineering or compliance HAP testing. A VOC test was previously conducted on EP 410. This renewal cycle, EP33 will be required to test HCl. An engineering test was conducted in 2007 for various HAPs except for HCl.

Pollutant Testing Summary

In summary, a total number of 5 one-time tests (per the duration of this renewal permit) will be required as part of the issuance of this renewal Title V operating permit. This total does not include the one CO or formaldehyde test will be required at least annually as required under the RICE regulations. This does not include the required annual RATA tests on the NO_x CEMS of EPs 100 and 101. CEMS cylinder gas audit (CGA) and relative accuracy test audit (RATA) requirements within 40 CFR Appendix B (performance specifications) and Appendix F (Quality Assurance Procedures) satisfy the test requirements for NO_x on CEMS of EPs 100 and 101 and are not represented in this table.

Table 9 - Pollutant Testing Summary

EP	EU Description	Pollutant	Compliance Methodology	Completion Deadline	Test Method
12	Gluten Sizing System	PM	Stack Test	TBD (w/in 3 years)	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
33	Refinery Process Tanks	HCl	Stack Test	TBD (w/in 3 years)	40 CFR 60, Appendix A, Method 26
70	Starch Mod Tanks	VOC	Stack Test	TBD (w/in 3 years)	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
161	$POCl_3$ Mod Scrubber	VOC HAP	Stack Test	TBD (w/in 3 years)	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
177	Grain Receiving Pit	PM	Stack Test	TBD (w/in 3 years)	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
258	Non-emergency Engine	CO[1]	Stack Test	See Footnote 2[2] See Footnote 3[3]	40 CFR 60, Appendix A, Method 10 or ASTM D6522-00

[1] Cargill, Inc. may also elect to test pollutant formaldehyde in lieu of CO pursuant to Table 2a as referenced in §§63.6600 and 63.6640.
[2] Pursuant to §63.6610, the initial performance test must be conducted within 180 days after the compliance date that is specified in §63.6595 and according to the provisions in §63.7(a)(2) (Initial compliance test was completed on November 29, 2011). Compliance with the emission limitation stated in Table 2a as referenced in §63.6600 must be demonstrated while testing the engine at 100% load ± 10%.
[3] Pursuant to Table 3 as referenced in §63.6615, subsequent performance tests must be conducted semiannually. However, after Cargill, Inc. has demonstrated compliance for two consecutive tests, Cargill, Inc. may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO emission limitation, or Cargill, Inc. deviates from any of its operating limitations, Cargill, Inc. must resume semiannual performance tests.

Actual Emissions:

All emission factors for the 2022 EIQ were reviewed. The emission factors used are from CEMS, source test data, webfire, AP-42, or engineering estimates from similar sources/process. The 2023 EIQ was submitted on March 29, 2024, and was not reviewed at the time of this renewal. It should be noted, however, that actual emissions reported in 2023 were below 2022 levels.

EU INFO

Cargill, Incorporated

EIQ# 92-9020 **Facility # 57-01-004**

EP ID	Process Group	EU ID	EU Description	CMS ID	CMS Description	ATI #	PTO #	PTO Issue Date	PSD #	CE ID	CE Description	Temp (°F)	ACFM	SCFM	Raw Material	SCC	Rated Capacity	Capacity Units	Operating Limits	Operating Limits Units
																		FACILITYWIDE TOTALS:		
1	5-Industrial Starch	EU-1	#3 Starch Flash Dryer			6922	6802-R1	12/6/2018		CE-1	Wet Scrubber	106	69731	65296	Starch	30201410	15	TPH		
		EU-1A	#3 Starch Flash Dryer												Oxidized Starch		15	TPH	105000	tons
5	5-Industrial Starch	EU-5	Bulk Soda Ash Loadout			4879	4872-R2	5/6/2019		CE-5	Baghouse	70	1120	1120	Sodium Carbonate	30102122	24	TPH		
6	4-Food Starch	EU-6	#5 Starch Bulk Storage Bin			4460	4476-R3	3/26/2018		CE-6	Baghouse	72	1783	1776	Starch	30201407	12.5	TPH		
8	4-Food Starch	EU-8	#7 Starch Bulk Storage Bin			4461	4477-R3	3/26/2018		CE-8	Baghouse	72	1790	1783	Starch	30201407	12.5	TPH		
9	5-Industrial Starch	EU-9	C* Starch Bin #8			5460	5441-R1	3/26/2018		CE-9	Baghouse	72	1790	1783	Starch	30201407	7	TPH		
11	3-Process	EU-11	Corn Truck Unload			6068	5794-R2	12/6/2018		CE-11	Baghouse	68	10224	10263	Corn	30200751	600	TPH		
12	3-Process	EU-12	Gluten Sizing System			7124	6897	6/1/2018		CE-12	Baghouse	70	4425	4425	Gluten	30200769	9.375	TPH		
13	3-Process	EU-13A	Truck Gluten/Germ Loadout			5674	5681-R3	5/6/2019		CE-13	Baghouse	70	43239	43239	Gluten & Germ	30200763	135	TPH	5840	hours
		EU-13B	Rail Gluten Loadout												Gluten		135	TPH		
14	3-Process	EU-14A	Gluten Scale			6950	6756-R1	3/26/2018		CE-14	Baghouse	70	4441	4441	Gluten & Germ	30200763	135	TPH	5840	hours
		EU-14B	Gluten Conveying												Gluten		135	TPH		
15	3-Process	EU-15	East Germ Bin			5512	5560-R3	3/26/2018		CE-15	Baghouse	78	1027	1012	Germ	30200766	7.5	TPH		
16	3-Process	EU-16	West Germ Bin			5513	5561-R3	3/26/2018		CE-16	Baghouse	78	1027	1012	Germ	30200766	7.5	TPH		
17	3-Process	EU-17	West Gluten Bin			5514	5562-R3	3/26/2018		CE-17	Baghouse	82	1163	1137	Gluten	30200763	7.5	TPH		
20	3-Process	EU-20A	Germ Dryer Burner			7402	7250	4/9/2021		CE-20	Wet Scrubber	170	31000	26079	Natural Gas	10200602	0.04	MMcf/hr	50	hours
		EU-20BNEW	Gluten Steam Tube Dryer - new												Gluten	30200764	5.00	TPH		
		EU-20C	Germ Dryer Sections 1-4												Germ	30200754	8.00	TPH		
		EU-20D	Waste Gas Steepwater Evaporator												Steepwater	30200762	4,500.00	BU/hr		
		EU-20F	Bran Dewatering System												Bran	30200766	10.10	TPH		
23	3-Process	20A	Germ Dryer Burner			7064	6799-R1	4/9/2021		CE-20C	Cyclone	159	20740	17758	Natural Gas	10200602	0.04	MMcf/hr	100	hours
		20C	Germ Dryer Sections 1-4												Germ	30200766	8.00	TPH		
24	2-Refinery	24	Precoat Bin From Railcar			7664	7505	8/29/2023		CE-24	Baghouse	70	800	800	Other	30201407	6.67	TPH		
27	4-Food Starch	EU-27	#3 Starch Bulk Storage Bin			4558	4618-R4	3/26/2018		CE-27	Baghouse	72	1000	996	Starch	30201407	12.5	TPH		
32	2-Refinery	EU-32A	Carbon Furnace			7648	7449	3/6/2023		CE-32A	Afterburner	224	3613	2800	Carbon	30200756	0.75	TPH		
		EU-32B	Carbon Furnace Burner							CE-32B	Wet Scrubber				Natural Gas	10200603	0.03	MMcf/hr		26
33	2-Refinery	EU-33A	HCL Tank A			6378	6116-R5	5/6/2019		CE-33	Packed Bed Scrubber	72	1482	1476	HCl	30200756	1,123	Gallons		
		EU-33B	HCL Tank B														1,123	Gallons		
		EU-33C	Acid Storage Tank														19,500	Gallons		
		EU-33D	Acid Head Tank														470	Gallons		
		EU-33E	Acidification Tank														375	Gallons		
		EU-33F	Converter Feed Tank														2,880	Gallons		
		EU-33G	Carbon Column Feed Tank														2,800	Gallons		
37	3-Process	EU-37	Corn Cleaning & Conveying Aspiration			7687	7438	1/17/2023		CE-37	Baghouse	85	15115	14699	Corn	30200753	8,000	Bu/hr		
40	3-Process	EU-40A	Mill Aspiration System			7021	6800-R2	8/31/2022		CE-40	Packed Bed Scrubber	94	7825	7486	Corn	30200756	110,000	BPD	110,000 bu/day	12-month rolling average
		EU-40B	Gluten Tank																	
		EU-40C	Clarifier Feed Tank																	
		EU-40D	Primary Feed Tank																	
		EU-40E	Clarifiers																	
		EU-40F	MST Feed Tank																	
		EU-40G	Millwater Tank																	
41	3-Process	EU-41	Steep Tanks			6034	5761-R2	12/6/2018		CE-41	Wet Scrubber	94	25358	24259	Corn	30200756	110,000	BPD		
43	4-Food Starch	EU-43	Vacuum Cleaner Vent--Starch Area (East)			5462	5443-R3	3/26/2018		CE-43	Baghouse	144	627	550	Starch	30201407	10	TPH		
51	4-Food Starch	EU-51A	50 Pound Bagger			6951	6730-R1	3/26/2018		CE-51	Baghouse	82	10173	9948	Starch	30201407	5	TPH		
		EU-51B	Industrial Starch Super Sacker														8	TPH		
		EU-51C	Food Starch Super Sacker														5	TPH		
		EU-51D	A/B Bins														6	TPH		
52	4-Food Starch	EU-52	#1 Starch Bulk Storage Bin			4559	4619-R3	3/26/2018		CE-52	Baghouse	72	1000	996	Starch	30201407	12.5	TPH		
58	4-Food Starch	EU-58	Starch Truck Loadout			6243	6040-R3	3/26/2018		CE-58	Baghouse	70	4078	4078	Starch	30201408	7.008	TPH		
61	5-Industrial Starch	EU-61A	Modifiation Tank 4			6960	6731-R1	12/6/2018		CE-61	Wet Scrubber	94	1176	1125	Starch Slurry	30201401	30,000	Gallons		
		EU-61B	Modification Tank 5														30,000	Gallons		
		EU-61C	Modification Tank 6														30,000	Gallons		
		EU-61D	Modification Tank 7														45,000	Gallons		
		EU-61E	Modification Tank 8														45,000	Gallons		
65	4-Food Starch	EU-65	Starch Rail Loadout			2139	2246-R5	3/26/2018		CE-65	Baghouse	73	2013	2002	Starch	30201408	18.173	TPH		
68	3-Process	EU-68	Cracked Corn Hammermill			5881	5582-R3	3/26/2018		CE-68	Baghouse	68	1302	1307	Corn	30200753	7.66	TPH		
70	5-Industrial Starch	EU-70A	Starch Modification Tank 1			7345	7125	5/14/2020		CE-70	Wet Scrubber	80	1369	1344	Starch Slurry	30201401	24	TPH	105000	tons
		EU-70B	Starch Modification Tank 2																	
		EU-70C	Starch Washer 1																	
		EU-70D	Starch Washer 2																	
		EU-70E	Soda Ash Storage Tank 3																	
		EU-IU-544	SBS Tank Starch														5,100	Gallons		
71	5-Industrial Starch	EU-71A	Starch Modification Tank 9			6952	6814-R2	5/6/2019		CE-71	Packed Bed Scrubber	80	3592	3525	Starch Slurry	30201401	50,000	Gallons	105000	tons
		EU-71B	Starch Modification Tank 10														50,000	Gallons		
		EU-71C	Starch Modification Tank 12														50,000	Gallons		
		EU-71D	Starch Modification Tank 14														125,000	Gallons		
		EU-71E	Starch Modification Tank 15														125,000	Gallons		
		EU-71F	Starch Modification Tank 16														125,000	Gallons		
		EU-71G	Starch Modification Tank 17														125,000	Gallons		
79	5-Industrial Starch	EU-79	Industrial Starch Loadout			5463	5345-R3	1/11/2019	16-A-258-P1	CE-79	Baghouse	73	4607	4581	Starch	30201408	80	TPH		
85	5-Industrial Starch	EU-85	#10 Starch Bulk Storage Bin			5464	5444-R4	5/8/2024		CE-85	Baghouse	72	1791	1784	Starch	30201407	14	TPH		
90	5-Industrial Starch	EU-90	Starch Flash Dryer #4			6923	6803-R2	1/10/2019	16-A-259-P2	CE-90	Wet Scrubber	106	82396	77155	Starch	30201410	16	TPH		
		EU-90A	Starch Flash Dryer #4 Burner												Oxidized Starch		16	TPH		
91	5-Industrial Starch	EU-91	#11 Industrial Starch Storage Bin			2447	2410-R3	3/8/2018	16-A-260-P1	CE-91	Baghouse	80	1517	1489	Starch	30201407	14	TPH		
92	5-Industrial Starch	EU-92	#12 Industrial Starch Storage Bin			2446	2409-R3	3/8/2018	16-A-261-P1	CE-92	Baghouse	80	1849	1815	Starch	30201407	14	TPH		
93	5-Industrial Starch	EU-93	#13 Industrial Starch Storage Bin			2445	2408-R3	3/8/2018	16-A-262-P1	CE-93	Baghouse	80	1849	1815	Starch	30201407	14	TPH		
94	5-Industrial Starch	EU-94	#18 Industrial Starch Storage Bin			5465	5445-R4	3/26/2018		CE-94	Dust Collector	100	900	852	Starch	30201407	7	TPH		

EU INFO

EP ID	Process Group	EU ID	EU Description	CMS ID	CMS Description	ATI #	PTO #	PTO Issue Date	PSD #	CE ID	CE Description	Temp (°F)	ACFM	SCFM	Raw Material	SCC	Rated Capacity	Capacity Units	Operating Limits	Operating Limits Units
95	5-Industrial Starch	EU-95	Starch Surge Bin			2475	2416-R3	3/26/2018		CE-95	Baghouse	81	450	441	Starch	30201407	14	TPH		
100	1-Utilities	EU-100	224 MMBtu Gas Boiler	ME-100A	CO2 Analyzer	6774	6728	2/23/2017		CE-100A	Low NOx Burner	300	65603	45749	Natural Gas	10200601	0.2183	MMcf/hr		
				ME-100B	NOx Analyzer					CE-100B	Flue Gas Recirculation									
101	1-Utilities	EU-101	#2 Gas Boiler	ME-101A	CO2 Analyzer	7746	7507-R1	4/11/2024		CE-101A	Low NOx Burner	360	87900	56813	Natural Gas	10200601	0.27	MMcf/hr		
				ME-101B	NOx Analyzer					CE-101B	Flue Gas Recirculation									
102	5-Industrial Starch	EU-102	#14 Industrial Starch Storage Bin			2563	2559-R3	3/26/2018		CE-102	Baghouse	80	900	883	Starch	30201407	14	TPH		
103	5-Industrial Starch	EU-103	C* Film Vertical Bin #15			5466	5446-R3	3/26/2018		CE-103	Baghouse	100	900	852	Starch	30201407	7	TPH		
104	5-Industrial Starch	EU-104	#16 Industrial Starch Storage Bin			2565	2558-R3	3/26/2018		CE-104	Baghouse	70	900	900	Starch	30201407	14	TPH		
105	5-Industrial Starch	EU-105	#17 Industrial Starch Storage Bin			2566	2556-R3	3/26/2018		CE-105	Baghouse	70	900	900	Starch	30201407	14	TPH		
109	3-Process	EU-109A	Gluten Filter Aspiration			6953	6815-R2	4/11/2024		CE-109	Packed Bed Scrubber	77	15909	15702	Gluten	30200769	110,000	bushels/day		
		EU-20F	Bran Dewatering System												Bran	30200766	10.10	TPH		
113	3-Process	EU-113	Germ Dryer Section 5			7065	6801-R1	4/9/2021		CE-113	Cyclone	175	17000	14189	Germ	30200799	8	TPH	50	hours
		EU-113B	Germ Dryer Burner												Natural Gas	30200799	0.04	MMcf/hr	100	hours
115	7-Specialty Starch	EU-115	Specialty Starch Bulk Truck Loadout			2739	3668-R2	8/23/2016		CE-115	Baghouse	68	410	412	Starch	30201408	14	TPH		
116	7-Specialty Starch	EU-116A	Starch Spray Dryer #5			7532	7405	6/13/2022		CE-116	Baghouse	197	52193	42104	Starch	30201411	2	TPH		
		EU-116B	Starch Spray Dryer #5 Burner												Natural Gas	10200602	0.01765	MMcf/hr		1
118	7-Specialty Starch	EU-118	Salt Storage Bin			4276	4264-R1	10/21/2019		CE-118	Bin Vent Filter	70	1100	1100	Sodium Sulfate	30201408	12.5	TPH		
119	7-Specialty Starch	EU-119	#19 Starch Bulk Storage Bin			6392	6247-R3	11/30/2018		CE-119	Baghouse	70	600	600	Starch	30201407	2	TPH		
120	7-Specialty Starch	EU-120	#20 Starch Bulk Storage Bin			6393	6248-R3	11/30/2018		CE-120	Baghouse	70	600	600	Starch	30201407	2	TPH		
121	7-Specialty Starch	EU-121	#21 Starch Bulk Storage Bin			6934	6249-R3	11/30/2018		CE-121	Baghouse	70	600	600	Starch	30201407	2	TPH		
124	7-Specialty Starch	EU-124	Packer Hopper Vent			6587	6548-R1	3/26/2018		CE-124	Baghouse	70	300	300	Starch	30201407	20	TPH		
130	3-Process	EU-130	Corn Silos 1-4			6069	5795-R2	8/23/2016		CE-130	Single Sock Filter	68	462	464	Corn	30200751	600	TPH		
149	4-Food Starch	EU-149	Starch Bulk Bagger			2977	3662-R4	3/16/2018		CE-149	Baghouse	70	1500	1500	Starch	30200755	15	TPH		
153	7-Specialty Starch	EU-153	Sodium Sulfate Receiving			5677	5439-R1	10/1/2013		CE-153	Baghouse	70	500	500	Sodium Sulfate	30201408	12.5	TPH		
155	5-Industrial Starch	EU-155	Industrial Grade Starch Packer/Blower			3715	4212-R4	3/26/2018		CE-155	Baghouse	142	3140	2764	Starch	30201422	20	TPH		
160	7-Specialty Starch	EU-160A	PO Storage			5876	5740-R3	5/17/2023		CE-160	Packed Bed Scrubber	70	1000	1000	Propylene Oxide	30201401	12.1	TPH		
		EU-160C	Reactor #131																	
		EU-160D	Reactor #132																	
		EU-160E	Reactor #134																	
		EU-160F	Reactor #135																	
		EU-160H	Stripper #2																	
161	7-Specialty Starch	EU-161A	$POCL_3$ Storage			6961	6732-R1	12/6/2018		CE-161	Packed Bed Scrubber	90	1460	1407	Sulfate, $POCL_3$	30187033	12.1	TPH		
		EU-161B	H_2SO_4 Storage Tank												Sulfuric Acid	30187009	1,200	Gallons		
		EU-161C	Deactivation Tank												Starch Slurry	30201401	50	Gallons		
		EU-161D	Modification Tank #101														12.1	TPH		
		EU-161E	Modification Tank #102														12.1	TPH		
		EU-161F	Modification Tank #103														12.1	TPH		
		EU-161G	Modification Tank #104														12.1	TPH		
		EU-161H	nOSA Tank														7,000	Gallons		
		EU-161I	Modification Tank #105														55,000	Gallons		
162	7-Specialty Starch	EU-162A	Flash Dryer #6			7533	7404	6/13/2022		CE-162	Wet Scrubber	120	60298	55100	Starch	30201410	10.1	TPH		
		EU-162B	Flash Dryer #6 Burner												Natural Gas	10200602	0.01794	MMcf/hr		2
164	7-Specialty Starch	EU-164	Starch Storage Bin #104			4026	4461-R3	3/26/2018		CE-164	Dust Collector	70	800	800	Starch	30201407	9	TPH		
165	7-Specialty Starch	EU-165	Starch Storage Bin #105			4027	4462-R3	3/26/2018		CE-165	Dust Collector	70	800	800	Starch	30201407	9	TPH		
166	7-Specialty Starch	EU-166	Starch Storage Bin #106			4028	4463-R3	3/26/2018		CE-166	Dust Collector	70	800	800	Starch	30201407	9	TPH		
167	7-Specialty Starch	EU-167	Specialty Starch Storage Bin #107			5320	5580-R3	3/26/2018		CE-167	Dust Collector	70	1200	1200	Starch	30201407	10	TPH		
169	7-Specialty Starch	EU-169	Specialty Starch Storage Bin #109			7669	7445	1/24/2023		CE-169	Baghouse	70	1200	1200	Starch	30201407	10	TPH		
170	7-Specialty Starch	EU-170	Warehouse Receiver			6618	6549-R4	3/26/2018		CE-170	Baghouse	68	1500	1506	Starch	30201407	12.5	TPH		
171	7-Specialty Starch	EU-171	Starch Storage Bin 108			7668	7506	8/29/2023		CE-171	Dust Collector	70	1465	1465	Starch	30201407	17.5	TPH		
173	7-Specialty Starch	EU-173A	Starch Packer			6727	6471-R2	3/26/2018		CE-173	Dust Collector	68	15000	15057	Starch	30201407	12.5	TPH		
		EU-173B	Super Sacker																	
		EU-173C	Cleanup Vacuum																	
174	7-Specialty Starch	EU-174	Starch Grinder Discharge Receiver			4272	4467-R3	3/26/2018		CE-174	Dust Collector	70	1011	1011	Starch	30201403	12.5	TPH		
175	7-Specialty Starch	EU-175	Starch Warehouse Vacuum Receiver			4273	4468-R4	3/26/2018		CE-175	Baghouse	70	300	300	Starch	30201401	12.5	TPH		
176	3-Process	EU-176A	Waxy Corn Silo #1			4330	4469-R4	12/5/2018		CE-176	Baghouse	70	3000	3000	Corn	30200752	75,000	Bushels		
		EU-176B	Waxy Corn Silo #2														75,000	Bushels		
177	3-Process	EU-177	Grain Receiving Pit			7541	7378	4/25/2022		CE-177	Baghouse	70	10000	10000	Grain	30200752	10,000	Bu/hr		
210	1-Utilities	EU-210	500 kW Emergency Engine			7490	7211-R1	4/11/2024		--	--	981	4000	1471	Diesel Fuel	20100102	36.3	GPH	500	hours
230	3-Process	EU-230	Cracked Corn Conveying			4720	4785-R2	3/26/2018		CE-230	Dust Collector	72	600	598	Cracked Corn	30200752	20	TPH		
240	7-Specialty Starch	EU-240	Starch Reslurry System			4855	4862-R3	3/26/2018		CE-240	Dust Collector	70	1250	1250	Starch	30201401	5	TPH		
245	3-Process	EU-245	East Gluten Bin			4998	5034-R3	3/26/2018		CE-245	Baghouse	82	1163	1137	Gluten	30200763	18	TPH		
246	3-Process	EU-246	Dry Gluten Receiver			5173	5146-R3	3/26/2018		CE-246	Baghouse	200	1101	884	Gluten	30200763	7.5	TPH		
247	3-Process	EU-247	Wet Feed Loadout			5475	5236-R3	8/23/2016		--	None	140	25	22	Bran	30200743	45	TPH		
248	7-Specialty Starch	EU-248	Starch Slurry Tank #6			5137	5100-R2	8/23/2016		--	None	110	260	242	Starch Slurry	30201401	500,000	TPH		
249	3-Process	EU-249	East Gluten Filter Vacuum Pump			5337	5217-R4	5/6/2019		--	None	85	1050	1021	Air & Water	30200756	2,000	ft^3/hr		
250	3-Process	EU-250	Middle Gluten Filter Vacuum Pump			5643	5397-R3	5/6/2019		--	None	85	903	878	Air & Water	30200756	2,000	ft^3/hr		
251	3-Process	EU-251	West Gluten Filter Vacuum Pump			5644	5398-R2	4/26/2018		--	None	85	1250	1216	Air & Water	30200756	2,000	ft^3/hr		
252	3-Process	EU-252	Starch Slurry Tank #7			5344	5673-R1	8/23/2016		--	None	120	87	80	Starch Slurry	30201401	850,000	Gallons		
254	4-Food Starch	EU-254	Starch Slurry Tank #5			5416	5674-R2	8/23/2016		--	None	110	377	351	Starch Slurry	30201401	500,000	Gallons		
255	3-Process	EU-255A	Rail Germ Loadout			5676	5440-R3	3/26/2018		CE-255	Baghouse	70	903	903	Germ	30200755	135	TPH		
		EU-255B	Germ Conveying												Germ	30200752	135	TPH		
258	1-Utilities	EU-258	500 kW Non-Emergency Engine			6215	6085-R3	4/11/2024		CE-258	Diesel Oxidation Catalyst	942	3842	1452	Diesel Fuel	20100102	36.6	GPH	4000	hours
260	7-Specialty Starch	EU-260	East Dilute Phase Pot			6535	6434-R4	11/30/2018		CE-260	Dust Collector	68	1000	1004	Starch	30201407	12	TPH		
262	7-Specialty Starch	EU-262	West Dilute Phase Pot			6750	6550-R4	11/30/2018		CE-262	Dust Collector	68	1000	1004	Starch	30201407	12	TPH		
263	3-Process	EU-263	Elevator Tunnel Vacuum Filter			6629	6441-R1	8/23/2016		CE-263	Dust Collector	200	2350	1887	Air w/ Corn Dust	30200799	141,000	cubic feet/hour		
265	7-Specialty Starch	EU-265	West Dilute Supersack Receiver			7534	7427	11/14/2022		CE-265	Baghouse	70	1385	1385	Starch	30201407	30,000	lbs/hr		
266	7-Specialty Starch	EU-266	West Dense Supersack Receiver			7535	7428	11/14/2022		CE-266	Baghouse	70	640	640	Starch	30201407	30,000	lbs/hr		
267	7-Specialty Starch	EU-267	West Supersack Vacuum System			7536	7429	11/14/2022		CE-267	Baghouse	70	690	690	Starch	30201407	30,000	lbs/hr		
268	7-Specialty Starch	EU-268	West Dilute Supersack Surge Bin			7537	7430	4/11/2024		CE-268	Baghouse	70	20	20	Starch	30201407	120	cubic feet/hour		

EU INFO

EP ID	Process Group	EU ID	EU Description	CMS ID	CMS Description	ATI #	PTO #	PTO Issue Date	PSD #	CE ID	CE Description	Temp (°F)	ACFM	SCFM	Raw Material	SCC	Rated Capacity	Capacity Units	Operating Limits	Operating Limits Units
269	7-Specialty Starch	EU-269	West Dense Supersack Surge Bin			7538	7431	4/11/2024		CE-269	Baghouse	70	20	20	Starch	30201407	120	cubic feet/hour		
300	5-Industrial Starch	EU-300	C* Fim Starch Receiving Filter			5456	5447-R5	5/8/2024		CE-300	Dust Collector	70	622	622	Starch	30201406	7	TPH		
		EU-301WF	Weight Feeder														7	TPH		
320	5-Industrial Starch	EU-320	Starch Dryer			5043	5583-R3	5/8/2024		CE-320	Vent Cage Wet Scrubber	171	10232	8594	Starch	30201410	7	TPH		
		EU-310SH	Starch Hopper														7	TPH		
330	5-Industrial Starch	EU-330	Modified Starch Receiving Filter			5044	5448-R4	3/26/2018		CE-330	Baghouse	95	640	611	Starch	30201406	7	TPH		
340	5-Industrial Starch	EU-340	Sifter			5045	5449-R4	3/26/2008		CE-340	Dust Collector	95	134	128	Starch	30201404	7	TPH		
350	5-Industrial Starch	EU-350	Product Hopper			5457	5450-R4	3/26/2018		CE-350	Dust Collector	113	320	296	Starch	30201407	7	TPH		
360	5-Industrial Starch	EU-360	Product Receiving Filter			5047	5451-R4	3/26/2018		CE-360	Dust Collector	113	233	216	Starch	30201406	7	TPH		
370	5-Industrial Starch	EU-370	C* Film Loadout Surge Hopper			5458	5452-R4	3/26/2018		CE-370	Baghouse	72	1600	1594	Starch	30201407	5	TPH		
380	5-Industrial Starch	EU-380	C* Cooling Tower			5459	5453-R1	10/1/2013		CE-380	Drift Eliminator	93	104600	100250	Water	38500101	400	gallons/minute		
390	4-Food Starch	EU-390	Food Starch Sifter			6395	6257-R3	3/26/2018		CE-390	Dust Collector	110	1250	1162	Starch	30201404	19	TPH		
410	3-Process	EU-20A	Germ Dryer Burner			7403	7251	4/9/2021		CE-410	RTO	152	48000	41569	Natural Gas	10200602	0.04	MMcf/hr		
		EU-20BNEW	Gluten Steam Tube Dryer - new												Gluten	30200764	5.00	TPH		
		EU-20C	Germ Dryer Sections 1-4												Germ	30200754	8.00	TPH		
		EU-20D	Waste Gas Steepwater Evaporator												Steepwater	30200762	4500.00	BPH		
		EU-20F	Bran Dewatering System												Bran	30200766	10.10	TPH		
		EU-113	Germ Dryer Section 5												Germ	30200799	8	TPH		
		EU-113B	Germ Dryer Burner												Natural Gas	30200799	0.04	Mmcf/hr		
		EU-410	RTO Burner												Natural Gas	30200799	0.018	Mmcf/hr		
450	4-Food Starch	EU-450	Starch Slurry Tank #8			7539	7377	4/24/2022		CE-450	Packed Bed Scrubber	120	1538	1405	Starch Slurry	30201401	600,000	Gallons		
		EU-180	Turbilizer												Starch	30201405	--	--		
		EU-181	Merco O/F Tank												Wastewater	30201401	3,000	Gallons		
		EU-182	Mod Tank #101												Starch	30201401	30,000	Gallons		
		EU-183	Deactivation Tank												Starch	30201401	1,000	Gallons		
		EU-184	Wash Merco Feed Tank												Starch	30201401	3,000	Gallons		
		EU-185	Merco 36												Starch	30201405	--	--		
452	5-Industrial Starch	EU-452	Starch Centrifuge			7196	6914	8/10/2018		--	--	107	906	847	Starch		15	TPH		
453	5-Industrial Starch	EU-1A, 1B, 1C	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper			7395	7121	5/5/2020		CE-453	Baghouse	100	1130	1069	Starch	30201410	15	TPH		
454	5-Industrial Starch	EU-90A, 90B, 90C	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper			7396	7193	9/17/2020		CE-454	Baghouse	100	1720	1628	Starch	30201410	16	TPH		
516	1-Utilities	EU-516	Refinery Loadout Boiler			--	--			--	--	300	12000	8368	Natural Gas	10200603	0.00817	MMcf/hr	10%	Annual Capacity

PTE-RULE

Cargill, Incorporated							Minor		Significant	Major				
EIQ# 92-9020	Facility # 57-01-004													
EP ID	**EU ID**	**EU Description**	**SCFM**	**Raw Material**	**Rated Capacity**	**Capacity Units**	**EF**	**EF Units**	**PM**	**EF**	**EF Units**	**PM_{10}**	**EF**	**EF Units**
						FACILITYWIDE TOTALS:			**168.72**			**161.70**		
1	EU-1	#3 Starch Flash Dryer	65296	Starch	15	TPH	0.005	gr/dscf	12.26	0.005	gr/dscf	12.26	0.64	lb/hr
	EU-1A	#3 Starch Flash Dryer		Oxidized Starch	15	TPH	--	--	--	--	--	--	--	--
5	EU-5	Bulk Soda Ash Loadout	1120	Sodium Carbonate	24	TPH	0.1	gr/dscf	4.20	0.01	gr/dscf	0.42	0.05	lb/hr
6	EU-6	#5 Starch Bulk Storage Bin	1776	Starch	12.5	TPH	0.15	lb/hr	0.66	0.15	lb/hr	0.66	0.04	lb/hr
8	EU-8	#7 Starch Bulk Storage Bin	1783	Starch	12.5	TPH	0.15	lb/hr	0.66	0.15	lb/hr	0.66	0.04	lb/hr
9	EU-9	C* Starch Bin #8	1783	Starch	7	TPH	0.15	lb/hr	0.66	0.15	lb/hr	0.66	0.04	lb/hr
11	EU-11	Corn Truck Unload	10263	Corn	600	TPH	0.41	lb/hr	1.80	0.41	lb/hr	1.80	0.00	lb/hr
12	EU-12	Gluten Sizing System	4425	Gluten	9.375	TPH	0.39	lb/hr	1.71	0.39	lb/hr	1.71	0.07	lb/hr
13	EU-13A	Truck Gluten/Germ Loadout	43239	Gluten & Germ	135	TPH	3.25	lb/hr	9.49	3.25	lb/hr	9.49	0.75	lb/hr
	EU-13B	Rail Gluten Loadout		Gluten	135	TPH	--	--	--	--	--	--	--	--
14	EU-14A	Gluten Scale	4441	Gluten & Germ	135	TPH	0.2	lb/hr	0.58	0.2	lb/hr	0.58	0.05	lb/hr
	EU-14B	Gluten Conveying		Gluten	135	TPH	--	--	--	--	--	--	--	--
15	EU-15	East Germ Bin	1012	Germ	7.5	TPH	0.09	lb/hr	0.39	0.09	lb/hr	0.39	0.021	lb/hr
16	EU-16	West Germ Bin	1012	Germ	7.5	TPH	0.09	lb/hr	0.39	0.09	lb/hr	0.39	0.021	lb/hr
17	EU-17	West Gluten Bin	1137	Gluten	7.5	TPH	0.1	lb/hr	0.44	0.1	lb/hr	0.44	0.02	lb/hr
20	EU-20A	Germ Dryer Burner	26079	Natural Gas	0.037	MMcf/hr	22.353	lb/hr	0.56	22.353	lb/hr	0.56	5.151	lb/hr
	EU-20BNEW	Gluten Steam Tube Dryer - new		Gluten	5	TPH	-	--	--	--	--	--	--	--
	EU-20C	Germ Dryer Sections 1-4		Germ	8	TPH	-	-	-	-		-		
	EU-20D	Waste Gas Steepwater Evaporator		Steepwater	4500	BU/hr	-	-	-	-		-		
	EU-20F	Bran Dewatering System		Bran	10.1	TPH	-	-	-	-	-	-	-	-
23	20A	Germ Dryer Burner	17758	Natural Gas	0.037	MMcf/hr	-	--	--	--	--	--	--	--
	20C	Germ Dryer Sections 1-4		Germ	8	TPH	15.221	lb/hr	0.76	15.221	lb/hr	0.76	3.501	lb/hr
24	24	Precoat Bin From Railcar	800	Other	6.67	TPH	0.034	lb/hr	0.00	0.034	lb/hr	0.00	0.0078	lb/hr
27	EU-27	#3 Starch Bulk Storage Bin	996	Starch	12.5	TPH	0.08	lb/hr	0.35	0.04	lb/hr	0.18	0.02	lb/hr
32	EU-32A	Carbon Furnace	2800	Carbon	0.75	TPH	1.44	lb/hr	6.31	1.44	lb/hr	6.31	1.44	lb/hr
	EU-32B	Carbon Furnace Burner		Natural Gas	0.03	MMcf/hr	-							
33	EU-33A	HCL Tank A	1476	HCl	1123	Gallons	0.24	lb/hr	1.05	0.24	lb/hr	1.05	0.24	lb/hr
	EU-33B	HCL Tank B			1123	Gallons	-							
	EU-33C	Acid Storage Tank			19500	Gallons	-							
	EU-33D	Acid Head Tank			470	Gallons	-							
	EU-33E	Acidification Tank			375	Gallons	-							
	EU-33F	Converter Feed Tank			2880	Gallons	-							
	EU-33G	Carbon Column Feed Tank			2800	Gallons	-							
37	EU-37	Corn Cleaning & Conveying Aspiration	14699	Corn	8000	Bu/hr	2.14	lb/hr	9.37	2.14	lb/hr	9.37	0.30	lb/hr
40	EU-40A	Mill Aspiration System	7486	Corn	110000	BPD	-							
	EU-40B	Gluten Tank					-							
	EU-40C	Clarifier Feed Tank					-							
	EU-40D	Primary Feed Tank					-							
	EU-40E	Clarifiers					-							
	EU-40F	MST Feed Tank					-							
	EU-40G	Millwater Tank					-							
41	EU-41	Steep Tanks	24259	Corn	110000	BPD	1.07	lb/hr	4.69	1.07	lb/hr	4.69	0.18	lb/hr
43	EU-43	Vacuum Cleaner Vent--Starch Area (East)	550	Starch	10	TPH	0.05	lb/hr	0.22	0.05	lb/hr	0.22	0.01	lb/hr
51	EU-51A	50 Pound Bagger	9948	Starch	5	TPH	0.4	lb/hr	1.88	0.43	lb/hr	1.88	0.10	lb/hr
	EU-51B	Industrial Starch Super Sacker			8	TPH	-		-	-		-		
	EU-51C	Food Starch Super Sacker			5	TPH	-		-	-		-		
	EU-51D	A/B Bins			6	TPH	-		-	-		-		
52	EU-52	#1 Starch Bulk Storage Bin	996	Starch	12.5	TPH	0.08	lb/hr	0.35	0.08	lb/hr	0.35	0.019	lb/hr
58	EU-58	Starch Truck Loadout	4078	Starch	7.008	TPH	0.34	lb/hr	1.49	0.34	lb/hr	1.49	0.078	lb/hr
61	EU-61A	Modifiation Tank 4	1125	Starch Slurry	30000	Gallons	-							
	EU-61B	Modification Tank 5			30000	Gallons	-							
	EU-61C	Modification Tank 6			30000	Gallons	-							
	EU-61D	Modification Tank 7			45000	Gallons	-							

PTE-RULE

Cargill, Incorpora																			
EIQ# 92-9020	POTENTIALS (TONS/YEAR) - CRITERIA POLLUTANTS																		
EP ID	$PM_{2.5}$	EF	EF Units	SO_2	EF	EF Units	NO_x	EF	EF Units	VOC	EF	EF Units	CO	EF	EF Units	Lead	EF	EF Units	NH_3
	45.94			**83.89**			**262.58**			**453.37**			**254.50**			**0.00**			**7.88**
1	2.82	1.3	lb/hr	5.69				4.48	lb/hr	19.62	0.35	lb/hr	1.52						
	--	0.8	lb/hr	3.50				1.46	lb/ton	76.65									
5	0.20																		
6	0.15							0.245	lb/hr	1.07									
8	0.15							0.245	lb/hr	1.07									
9	0.15							0.245	lb/hr	1.07									
11	0.02																		
12	0.29							0.607	lb/hr	2.66									
13	2.18							5.8	lb/hr	16.94									
	--																		
14	0.13							0.61	lb/hr	1.78									
	--																		
15	0.09							0.14	lb/hr	0.61									
16	0.09							0.14	lb/hr	0.61									
17	0.10							0.16	lb/hr	0.70									
	0.13	4.67	lb/hr	0.12	100	lb/mmcf		24.79	lb/hr	0.62	84	lb/mmcf		0.0005	lb/mmcf	0.00	3.20	lb/mmcf	0.00
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
		-		-															
		-		-															
	-																		
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	0.18	4.67	lb/hr	0.23	0.89	lb/hr	0.04	24.79	lb/hr	1.24	1.3	lb/hr	0.07	0.0005	lb/mmcf	0.00			
24	0.00																		
27	0.08							0.137	lb/hr	0.60									
32	6.31	1	lb/hr	4.38	3.28	lb/hr	14.37	1	lb/hr	4.38	8.47	lb/hr	37.10						
														0.0005	lb/mmcf	0.00	3.20	lb/mmcf	0.42
33	1.05							0.41	lb/hr	1.80									
37	1.31																		
		0.75	lb/hr	3.29				8.25	lb/hr	36.14									
40																			
41	0.79	2.35	lb/hr	10.29				9.79	lb/hr	42.88									
43	0.05							0.01	lb/hr	0.04									
51	0.43							0.34	lb/hr	1.49									
52	0.08							0.137	lb/hr	0.60									
58	0.34							0.14	lb/hr	0.61									
61		0.01	lb/hr	0.04				0.21	lb/hr	0.92									

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EP ID	EU ID	EU Description	SCFM	Raw Material	Rated Capacity	Capacity Units	EF	EF Units	PM	EF	EF Units	PM_{10}	EF	EF Units
	EU-61E	Modification Tank 8			45000	Gallons	-							
65	EU-65	Starch Rail Loadout	2002	Starch	18.173	TPH	0.4	lb/hr	1.75	0.4	lb/hr	1.75	0.09	lb/hr
68	EU-68	Cracked Corn Hammermill	1307	Corn	7.66	TPH	0.06	lb/hr	0.26	0.06	lb/hr	0.26	0.01	lb/hr
70	EU-70A	Starch Modification Tank 1	1344	Starch Slurry	24	TPH	0.1	gr/dscf	5.04	0.1	gr/dscf	5.04	0.07	lb/hr
	EU-70B	Starch Modification Tank 2					-		-	-		-		
	EU-70C	Starch Washer 1					-		-	-		-		
	EU-70D	Starch Washer 2					-		-	-		-		
	EU-70E	Soda Ash Storage Tank 3					-		-	-		-		
	EU-IU-544	SBS Tank Starch			5100	Gallons								
71	EU-71A	Starch Modification Tank 9	3525	Starch Slurry	50000	Gallons	0.26	lb/hr	1.14	0.26	lb/hr	1.14	0.06	lb/hr
	EU-71B	Starch Modification Tank 10			50000	Gallons	-		-	-		-		
	EU-71C	Starch Modification Tank 12			50000	Gallons	-		-	-		-		
	EU-71D	Starch Modification Tank 14			125000	Gallons	-		-	-		-		
	EU-71E	Starch Modification Tank 15			125000	Gallons	-		-	-		-		
	EU-71F	Starch Modification Tank 16			125000	Gallons	-		-	-		-		
	EU-71G	Starch Modification Tank 17			125000	Gallons	-		-	-		-		
79	EU-79	Industrial Starch Loadout	4581	Starch	80	TPH	0.31	lb/hr	1.36	0.31	lb/hr	1.36	0.09	lb/hr
85	EU-85	#10 Starch Bulk Storage Bin	1784	Starch	14	TPH	0.15	lb/hr	0.66	0.15	lb/hr	0.66	0.035	lb/hr
90	EU-90	Starch Flash Dryer #4	77155	Starch	16	TPH	3.85	lb/hr	16.86	3.850	lb/hr	16.86	0.9	lb/hr
	EU-90A	Starch Flash Dryer #4 Burner		Oxidized Starch	16	TPH	-							
91	EU-91	#11 Industrial Starch Storage Bin	1489	Starch	14	TPH	0.13	lb/hr	0.57	0.13	lb/hr	0.57	0.03	lb/hr
92	EU-92	#12 Industrial Starch Storage Bin	1815	Starch	14	TPH	0.13	lb/hr	0.57	0.13	lb/hr	0.57	0.03	lb/hr
93	EU-93	#13 Industrial Starch Storage Bin	1815	Starch	14	TPH	0.13	lb/hr	0.57	0.13	lb/hr	0.57	0.03	lb/hr
94	EU-94	#18 Industrial Starch Storage Bin	852	Starch	7	TPH	0.08	lb/hr	0.35	0.08	lb/hr	0.35	0.018	lb/hr
95	EU-95	Starch Surge Bin	441	Starch	14	TPH	0.13	lb/hr	0.57	0.13	lb/hr	0.57	0.03	lb/hr
100	EU-100	224 MMBtu Gas Boiler	45749	Natural Gas	0.2183	MMcf/hr	1.66	lb/hr	7.27	1.66	lb/hr	7.27	0.43	lb/mmcf
							-							
101	EU-101	#2 Gas Boiler	56813	Natural Gas	0.27	MMcf/hr	1.15	lb/hr	5.04	1.15	lb/hr	5.04	1.15	lb/hr
							-							
102	EU-102	#14 Industrial Starch Storage Bin	883	Starch	14	TPH	0.26	lb/hr	1.14	0.26	lb/hr	1.14	0.06	lb/hr
103	EU-103	C* Film Vertical Bin #15	852	Starch	7	TPH	0.08	lb/hr	0.35	0.08	lb/hr	0.35	0.02	lb/hr
104	EU-104	#16 Industrial Starch Storage Bin	900	Starch	14	TPH	0.26	lb/hr	1.14	0.26	lb/hr	1.14	0.06	lb/hr
105	EU-105	#17 Industrial Starch Storage Bin	900	Starch	14	TPH	0.26	lb/hr	1.14	0.26	lb/hr	1.14	0.06	lb/hr
109	EU-109A	Gluten Filter Aspiration	15702	Gluten	110000	bushels/day	-	--	--	--	--	--	--	--
	EU-20F	Bran Dewatering System		Bran	10.1	TPH	-		-	-		-		
113	EU-113	Germ Dryer Section 5	14189	Germ	8	TPH	0.66	lb/hr	0.02	0.4	lb/hr	0.01	0.15	lb/hr
	EU-113B	Germ Dryer Burner		Natural Gas	0.04	MMcf/hr	0.66	lb/hr	0.03	0.4	lb/hr	0.02	0.15	lb/hr
115	EU-115	Specialty Starch Bulk Truck Loadout	412	Starch	14	TPH	0.1	gr/dscf	1.55	0.1	gr/dscf	1.54	0.001	lb/hr
116	EU-116A	Starch Spray Dryer #5	42104	Starch	2	TPH	2.18	lb/hr	9.55	2.18	lb/hr	9.55	0.50	lb/hr
	EU-116B	Starch Spray Dryer #5 Burner		Natural Gas	0.01765	MMcf/hr	-		-	-		-		
118	EU-118	Salt Storage Bin	1100	Sodium Sulfate	12.5	TPH	0.09	lb/hr	0.39	0.09	lb/hr	0.39	0.021	lb/hr
119	EU-119	#19 Starch Bulk Storage Bin	600	Starch	2	TPH	0.05	lb/hr	0.22	0.050	lb/hr	0.22	0.012	lb/hr
120	EU-120	#20 Starch Bulk Storage Bin	600	Starch	2	TPH	0.05	lb/hr	0.22	0.05	lb/hr	0.22	0.012	lb/hr
121	EU-121	#21 Starch Bulk Storage Bin	600	Starch	2	TPH	0.05	lb/hr	0.22	0.05	lb/hr	0.22	0.012	lb/hr
124	EU-124	Packer Hopper Vent	300	Starch	20	TPH	0.03	lb/hr	0.13	0.03	lb/hr	0.13	0.006	lb/hr
130	EU-130	Corn Silos 1-4	464	Corn	600	TPH	0.04	lb/hr	0.18	0.04	lb/hr	0.18	0.006	lb/hr
149	EU-149	Starch Bulk Bagger	1500	Starch	15	TPH	0.26	lb/hr	1.14	0.26	lb/hr	1.14	0.06	lb/hr
153	EU-153	Sodium Sulfate Receiving	500	Sodium Sulfate	12.5	TPH	0.04	lb/hr	0.18	0.04	lb/hr	0.18	0.009	lb/hr
155	EU-155	Industrial Grade Starch Packer/Blower	2764	Starch	20	TPH	0.12	lb/hr	0.53	0.12	lb/hr	0.53	0.028	lb/hr
160	EU-160A	PO Storage	1000	Propylene Oxide	12.1	TPH	-		-	-		-	-	-
	EU-160C	Reactor #131					-		-	-		-		
	EU-160D	Reactor #132					-		-	-		-		
	EU-160E	Reactor #134					-		-	-		-		

PTE-RULE

EP ID	$PM_{2.5}$	EF	EF Units	SO_2	EF	EF Units	NO_x	EF	EF Units	VOC	EF	EF Units	CO	EF	EF Units	Lead	EF	EF Units	NH_3
65	0.40							0.068	lb/hr	0.30									
68	0.06																		
70	0.30	0.35	lb/hr	1.53				1.460	lb/ton	76.65									
71	0.26	0.01	lb/hr	0.04				0.17	lb/hr	0.74									
		-		-															
		-		-															
		-		-															
		-		-															
		-		-															
		-		-															
79	0.39							0.156		0.68									
85	0.15							0.244	lb/hr	1.07									
90	3.88	0.96	lbhr	4.20				5.27	lb/hr	23.08									
91	0.13																		
92	0.13																		
93	0.13																		
94	0.08																		
95	0.13																		
100	0.41	0.6	lb/mmcf	0.57	8.995	lb/hr	39.40	5.50	lb/mmcf	5.26	84.00	lb/mmcf	80.32	0.0005		0.00	3.20	lb/mmcf	3.06
101	5.04	0.6	lb/mmcf	0.71	22.00	lb/hr	96.36	5.50	lb/mmcf	6.50	84.00	lb/mmcf	99.34	0.0005		0.00	3.20	lb/mmcf	3.78
102	0.26							0.2		0.88									
103	0.08							0.12		0.53									
104	0.26							0.2		0.88									
105	0.26							0.2		0.88									
109	--	0.31	lb/hr	1.36				5.12	lb/hr	22.43									
		-		-															
113	0.00	0.34	lb/hr	0.01	0.09	lb/hr	0.00	1.57	lb/hr	0.04	0.23	lb/hr	0.01						
	0.01	0.34	lb/hr	0.02	0.09	lb/hr	0.00	1.57	lb/hr	0.08	0.23	lb/hr	0.01						
115	0.00							0.056	lb/hr	0.25									
116	2.20	1.60	lb/hr	7.01				4.03	lb/hr	17.65									
		0.60		0.05	1.75	lb/hr	7.67				1.48	lb/hr	6.48	0.0005	lb/mmcf	0.00	3.20	lb/mmcf	0.25
118	0.09																		
119	0.05							0.08	lb/hr	0.35									
120	0.05							0.08	lb/hr	0.35									
121	0.05							0.08	lb/hr	0.35									
124	0.03							0.01	lb/hr	0.06									
130	0.03																		
149	0.26							0.2	lb/hr	0.88									
153	0.04																		
155	0.12							0.18		0.79									
160	-							1.65	lb/hr	7.23									

PTE-RULE

EP ID	EU ID	EU Description	SCFM	Raw Material	Rated Capacity	Capacity Units	EF	EF Units	PM	EF	EF Units	PM_{10}	EF	EF Units
	EU-160F	Reactor #135					-		-	-		-		
	EU-160H	Stripper #2					-		-	-		-		
161	EU-161A	POCL3 Storage	1407	Sulfate, POCL3	12.1	TPH	0.08	lb/hr	0.35	0.08	lb/hr	0.35	0.08	lb/hr
	EU-161B	H2SO4 Storage Tank		Sulfuric Acid	1200	Gallons	-		-	-		-		
	EU-161C	Deactivation Tank		Starch Slurry	50	Gallons	-		-	-		-		
	EU-161D	Modification Tank #101			12.1	TPH	-		-	-		-		
	EU-161E	Modification Tank #102			12.1	TPH	-		-	-		-		
	EU-161F	Modification Tank #103			12.1	TPH	-		-	-		-		
	EU-161G	Modification Tank #104			12.1	TPH	-		-	-		-		
	EU-161H	nOSA Tank			7000	Gallons	-	-	-	-	-	-		
	EU-161I	Modification Tank #105			55000	Gallons	-	-	-	-	-	-		
162	EU-162A	Flash Dryer #6	55100	Starch	10.1	TPH	3.07	lb/hr	13.45	3.07	lb/hr	13.45	0.71	lb/hr
	EU-162B	Flash Dryer #6 Burner		Natural Gas	0.01794	MMcf/hr			-			-		
164	EU-164	Starch Storage Bin #104	800	Starch	9	TPH	0.03	lb/hr	0.13	0.03	lb/hr	0.13	0.007	lb/hr
165	EU-165	Starch Storage Bin #105	800	Starch	9	TPH	0.03	lb/hr	0.13	0.03	lb/hr	0.13	0.007	lb/hr
166	EU-166	Starch Storage Bin #106	800	Starch	9	TPH	0.03	lb/hr	0.13	0.03	lb/hr	0.13	0.007	lb/hr
167	EU-167	Specialty Starch Storage Bin #107	1200	Starch	10	TPH	0.08	lb/hr	0.35	0.08	lb/hr	0.35	0.018	lb/hr
169	EU-169	Specialty Starch Storage Bin #109	1200	Starch	10	TPH	0.08	lb/hr	0.35	0.08	lb/hr	0.35	0.018	lb/hr
170	EU-170	Warehouse Receiver	1506	Starch	12.5	TPH	0.13	lb/hr	0.57	0.13	lb/hr	0.57	0.03	lb/hr
171	EU-171	Starch Storage Bin 108	1465	Starch	17.5	TPH	0.06	lb/hr	0.26	0.06	lb/hr	0.26	0.014	lb/hr
173	EU-173A	Starch Packer	15057	Starch	12.5	TPH	0.32	lb/hr	1.40	0.32	lb/hr	1.40	0.07	lb/hr
	EU-173B	Super Sacker					-							
	EU-173C	Cleanup Vacuum					-							
174	EU-174	Starch Grinder Discharge Receiver	1011	Starch	12.5	TPH	0.04	lb/hr	0.18	0.4	lb/hr	1.75	0.009	lb/hr
175	EU-175	Starch Warehouse Vacuum Receiver	300	Starch	12.5	TPH	0.01	lb/hr	0.04	0.01	lb/hr	0.04	0.00	lb/hr
176	EU-176A	Waxy Corn Silo #1	3000	Corn	75000	Bushels	0.13	lb/hr	0.57	0.13	lb/hr	0.57	0.02	lb/hr
	EU-176B	Waxy Corn Silo #2			75000	Bushels	-		-	-		-		
177	EU-177	Grain Receiving Pit	10000	Grain	10000	Bu/hr	0.64	lb/hr	2.80	0.64	lb/hr	2.80	0.15	lb/hr
210	EU-210	500 kW Emergency Engine	1471	Diesel Fuel	36.3	GPH	0.6	lb/mmbtu	6.10	0.6	lb/mmbtu	6.10	0.02	lb/gal
230	EU-230	Cracked Corn Conveying	598	Cracked Corn	20	TPH	0.05	lb/hr	0.22	0.05	lb/hr	0.22	0.008	lb/hr
240	EU-240	Starch Reslurry System	1250	Starch	5	TPH	0.05	lb/hr	0.04	0.05	lb/hr	0.04	0.012	lb/hr
245	EU-245	East Gluten Bin	1137	Gluten	18	TPH	0.1	lb/hr	0.44	0.1	lb/hr	0.44	0.02	lb/hr
246	EU-246	Dry Gluten Receiver	884	Gluten	7.5	TPH	0.09	lb/hr	0.39	0.09	lb/hr	0.39	0.02	lb/hr
247	EU-247	Wet Feed Loadout	22	Bran	45	TPH	-							
248	EU-248	Starch Slurry Tank #6	242	Starch Slurry	500000	TPH	-							
249	EU-249	East Gluten Filter Vacuum Pump	1021	Air & Water	2000	ft3/hr	-							
250	EU-250	Middle Gluten Filter Vacuum Pump	878	Air & Water	2000	ft3/hr	-							
251	EU-251	West Gluten Filter Vacuum Pump	1216	Air & Water	2000	ft3/hr	-							
252	EU-252	Starch Slurry Tank #7	80	Starch Slurry	850000	Gallons	-							
254	EU-254	Starch Slurry Tank #5	351	Starch Slurry	500000	Gallons	-							
255	EU-255A	Rail Germ Loadout	903	Germ	135	TPH	0.04	lb/hr	0.12	0.04	lb/hr	0.12	0.007	lb/hr
	EU-255B	Germ Conveying		Germ	135	TPH	-							
258	EU-258	500 kW Non-Emergency Engine	1452	Diesel Fuel	36.6	GPH	0.33	lb/hr	0.66	0.33	lb/hr	0.66	0.33	lb/hr
260	EU-260	East Dilute Phase Pot	1004	Starch	12	TPH	0.09	lb/hr	0.39	0.09	lb/hr	0.39	0.09	lb/hr
262	EU-262	West Dilute Phase Pot	1004	Starch	12	TPH	0.03	lb/hr	0.13	0.03	lb/hr	0.13	0.01	lb/hr
263	EU-263	Elevator Tunnel Vacuum Filter	1887	Air w/ Corn Dust	141000	cubic feet/hour	0.2	lb/hr	0.88	0.2	lb/hr	0.88	0.2	lb/hr
265	EU-265	West Dilute Supersack Receiver	1385	Starch	30000	lbs/hr	0.06	lb/hr	0.26	0.06	lb/hr	0.26	0.06	lb/hr
266	EU-266	West Dense Supersack Receiver	640	Starch	30000	lbs/hr	0.03	lb/hr	0.13	0.03	lb/hr	0.13	0.03	lb/hr
267	EU-267	West Supersack Vacuum System	690	Starch	30000	lbs/hr	0.03	lb/hr	0.13	0.03	lb/hr	0.13	0.03	lb/hr
268	EU-268	West Dilute Supersack Surge Bin	20	Starch	120	cubic feet/hour	0.0017	lb/hr	0.01	0.0017	lb/hr	0.01	0.0017	lb/hr

PTE-RULE

EP ID	$PM_{2.5}$	EF	EF Units	SO_2	EF	EF Units	NO_x	EF	EF Units	VOC	EF	EF Units	CO	EF	EF Units	Lead	EF	EF Units	NH_3
161	0.35	0.017	lb/hr	0.07				0.83	lb/hr	3.62									
162	3.09	0.8	lb/hr	3.50				6.52	lb/hr	28.56									
		0.6	lb/mmcf	0.05	100	lb/mmcf	7.86	5.5	lb/mmcf	0.43	1.72	lb/hr	7.53	0.0005	lb/mmcf	0.00	3.20	lb/mmcf	0.25
164	0.03							0.11	lb/hr	0.48									
165	0.03							0.11	lb/hr	0.48									
166	0.03							0.11	lb/hr	0.48									
167	0.08							0.16	lb/hr	0.70									
169	0.08							0.16	lb/hr	0.70									
170	0.13							0.051	lb/hr	0.22									
171	0.06							0.05	lb/hr	0.22									
173	0.32							0.753	lb/hr	3.30									
174	0.04							0.0347	lb/hr	0.15									
175	0.01							0.0411	lb/hr	0.18									
176	0.09																		
177	0.64																		
210	1.38	0.00768	ppm	0.02	0.438	lb/gal	31.80	0.0115	lb/gal	0.83	0.116	lb/gal	8.42						
230	0.04																		
240	0.01							0.17	lb/hr	0.15									
245	0.10							0.16	lb/hr	0.70									
246	0.09							0.14	lb/hr	0.63									
247		500	ppmv	0.46				0.003	lb/hr	0.01									
248		500	ppmv	5.02				0.0517	lb/hr	0.23									
249		0.04	lb/hr	0.18				0.605	lb/hr	2.65									
250		0.01	lb/hr	0.04				0.61	lb/hr	2.67									
251		0.01	lb/hr	0.04				0.61	lb/hr	2.67									
252		500	ppmv	1.65				0.011	lb/hr	0.05									
254		500	ppmv	7.27				0.052	lb/hr	0.23									
255	0.02							0.12	lb/hr	0.35									
258	0.66	0.00774	ppm	0.02	10.58	lb/hr	21.16	0.0115	lb/gal	0.84	3.86	lb/hr	7.72						
260	0.39							0.1376587	lb/hr	0.60									
262	0.03							0.1376587	lb/hr	0.60									
263	0.88																		
265	0.26																		
266	0.13																		
267	0.13																		
268	0.01																		

PTE-RULE

EP ID	EU ID	EU Description	SCFM	Raw Material	Rated Capacity	Capacity Units	EF	EF Units	PM	EF	EF Units	PM_{10}	EF	EF Units
269	EU-269	West Dense Supersack Surge Bin	20	Starch	120	cubic feet/hour	0.0017	lb/hr	0.01	0.0017	lb/hr	0.01	0.0017	lb/hr
300	EU-300	C* Fim Starch Receiving Filter	622	Starch	7	TPH	0.05	lb/hr	0.22	0.05	lb/hr	0.22	0.012	lb/hr
	EU-301WF	Weight Feeder			7	TPH	-							
320	EU-320	Starch Dryer	8594	Starch	7	TPH	0.73	lb/hr	3.20	0.73	lb/hr	3.20	0.168	lb/hr
	EU-310SH	Starch Hopper			7	TPH	-							
330	EU-330	Modified Starch Receiving Filter	611	Starch	7	TPH	0.05	lb/hr	0.22	0.05	lb/hr	0.22	0.012	lb/hr
340	EU-340	Sifter	128	Starch	7	TPH	0.01	lb/hr	0.04	0.01	lb/hr	0.04	0.002	lb/hr
350	EU-350	Product Hopper	296	Starch	7	TPH	0.03	lb/hr	0.13	0.03	lb/hr	0.13	0.007	lb/hr
360	EU-360	Product Receiving Filter	216	Starch	7	TPH	0.02	lb/hr	0.09	0.02	lb/hr	0.09	0.005	lb/hr
370	EU-370	C* Film Loadout Surge Hopper	1594	Starch	5	TPH	0.14	lb/hr	0.61	0.14	lb/hr	0.61	0.032	lb/hr
380	EU-380	C* Cooling Tower	100250	Water	400	gallons/minute	0.02	lb/hr	0.09	0.02	lb/hr	0.09	0.02	lb/hr
390	EU-390	Food Starch Sifter	1162	Starch	19	TPH	0.11	lb/hr	0.48	0.11	lb/hr	0.48	0.025	lb/hr
410	EU-20A	Germ Dryer Burner	41569	Natural Gas	0.04	MMcf/hr	2.05	lb/hr	8.98	1.25	lb/hr	5.48	0.47	lb/hr
	EU-20BNEW	Gluten Steam Tube Dryer - new		Gluten	5	TPH	-	-	-	-	-	-	-	
	EU-20C	Germ Dryer Sections 1-4		Germ	8	TPH	-	-	-	-	-	-		
	EU-20D	Waste Gas Steepwater Evaporator		Steepwater	4500	BPH	-	-	-	-	-	-		
	EU-20F	Bran Dewatering System		Bran	10.1	TPH								
	EU-113	Germ Dryer Section 5		Germ	8	TPH	-	-	-	-	-	-		
	EU-113B	Germ Dryer Burner		Natural Gas	0.04	Mmcf/hr	-	-	-	-	-	-		
	EU-410	RTO Burner		Natural Gas	0.018	Mmcf/hr	-	-	-	-	-	-		
450	EU-450	Starch Slurry Tank #8	1405	Starch Slurry	600000	Gallons	-	-	-	-	-	-	-	-
	EU-180	Turbilizer		Starch	--	--								
	EU-181	Merco O/F Tank		Wastewater	3000	Gallons								
	EU-182	Mod Tank #101		Starch	30000	Gallons								
	EU-183	Deactivation Tank		Starch	1000	Gallons								
	EU-184	Wash Merco Feed Tank		Starch	3000	Gallons								
	EU-185	Merco 36		Starch	--	--								
452	EU-452	Starch Centrifuge	847	Starch	15	TPH	0.1	gr/dscf	2.84	0.061	gr/scf	1.73	0.023	gr/scf
453	EU-1A, 1B, 1C	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper	1069	Starch	15	TPH	0.05	lb/hr	0.22	0.05	lb/hr	0.22	0.012	lb/hr
454	EU-90A, 90B, 90C	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper	1628	Starch	16	TPH	0.07	lb/hr	0.31	0.07	lb/hr	0.31	0.016	lb/hr
516	EU-516	Refinery Loadout Boiler	8368	Natural Gas	0.00817	MMcf/hr	7.6	lb/mmcf	0.27	7.6	lb/mmcf	0.27	7.60	lb/mmcf

PTE-RULE

EP ID	$PM_{2.5}$	EF	EF Units	SO_2	EF	EF Units	NO_x	EF	EF Units	VOC	EF	EF Units	CO	EF	EF Units	Lead	EF	EF Units	NH_3
269	0.01																		
300	0.05							0.08	lb/hr	0.35									
320	0.74							2.934	lb/hr	12.85									
330	0.05							0.0835	lb/hr	0.37									
340	0.01							0.018	lb/hr	0.08									
350	0.03							0.04	lb/hr	0.18									
360	0.02							0.03	lb/hr	0.13									
370	0.14							0.217	lb/hr	0.95									
380	0.09																		
390	0.11							0.04	lb/hr	0.17									
	2.06	5.02	lb/hr	21.99	9.21	lb/hr	40.34	0.469	lb/hr	2.05	0.681	lb/hr	2.98						
410																			
	-	0.044	lb/hr	0.19				0.19	lb/hr	0.83									
450																			
452	0.65	10	ppmv	0.31				20	ppmv	0.45									
453	0.05																		
454	0.07																		
516	0.27	0.6	lb/mmcf	0.02	100	lb/mmcf	3.58	5.5	lb/mmcf	0.20	84	lb/mmcf	3.01	0.0005	lb/mmcf	0.00	3.2	lb/mmcf	0.11

PTE-EF

Cargill, Incorporated						Minor		Significant	Major								
EIQ# 92-9020	Facility # 57-01-004																POTENTIAL
EP ID	**EU ID**	**EU Description**	**SCFM**	**Rated Capacity**	**Capacity Units**	**EF**	**EF Units**	**PM**	**EF**	**EF Units**	**PM10**	**EF**	**EF Units**	**PM2.5**	**EF**	**EF Units**	**SO2**
					FACILITYWIDE TOTALS:			**83.08**			**79.66**			**29.93**			**20.89**
1	EU-1	#3 Starch Flash Dryer	65296	15	TPH	0.710	lb/hr	3.11	0.710	lb/hr	3.11	0.163	lb/hr	0.72	0.800	lb/hr	3.50
	EU-1A	#3 Starch Flash Dryer		15	TPH												
5	EU-5	Bulk Soda Ash Loadout	1120	24	TPH	0.005	lb/ton	0.54	0.005	lb/ton	0.54	0.001	lb/ton	0.16			
6	EU-6	#5 Starch Bulk Storage Bin	1776	12.5	TPH	0.005	gr/dscf	0.35	0.003	gr/dscf	0.22	0.001	gr/dscf	0.05			
8	EU-8	#7 Starch Bulk Storage Bin	1783	12.5	TPH	0.005	gr/dscf	0.35	0.003	gr/dscf	0.22	0.001	gr/dscf	0.05			
9	EU-9	C* Starch Bin #8	1783	7	TPH	0.005	gr/dscf	0.35	0.003	gr/dscf	0.22	0.001	gr/dscf	0.05			
11	EU-11	Corn Truck Unload	10263	600	TPH	0.088	lb/hr	0.39	0.088	lb/hr	0.39	0.088	lb/hr	0.39			
12	EU-12	Gluten Sizing System	4425	9.375	TPH	0.190	lb/hr	0.83	0.190	lb/hr	0.83	0.032	lb/hr	0.14			
13	EU-13A	Truck Gluten/Germ Loadout	43239	135	TPH	1.634	lb/hr	4.77	1.634	lb/hr	4.77	0.278	lb/hr	0.81			
	EU-13B	Rail Gluten Loadout		135	TPH												
14	EU-14A	Gluten Scale	4441	135	TPH	0.090	lb/hr	0.26	0.090	lb/hr	0.26	0.015	lb/hr	0.04			
	EU-14B	Gluten Conveying		135	TPH												
15	EU-15	East Germ Bin	1012	7.5	TPH	0.005	gr/dscf	0.19	0.005	gr/dscf	0.19	0.001	gr/dscf	0.03			
16	EU-16	West Germ Bin	1012	7.5	TPH	0.005	gr/dscf	0.19	0.005	gr/dscf	0.19	0.001	gr/dscf	0.03			
17	EU-17	West Gluten Bin	1137	7.5	TPH	0.005	gr/dscf	0.21	0.005	gr/dscf	0.21	0.001	gr/dscf	0.04			
20	EU-20A	Germ Dryer Burner	26079	0.037	MMcf/hr	1.393	lb/hr	0.03	1.393	lb/hr	0.03	0.320	lb/hr	0.01	1.221	lb/hr	0.03
	EU-20BNEW	Gluten Steam Tube Dryer - new		5	TPH												
	EU-20C	Germ Dryer Sections 1-4		8	TPH												
	EU-20D	Waste Gas Steepwater Evaporator		4500	BU/hr												
	EU-20F	Bran Dewatering System		10.1	TPH												
23	20A	Germ Dryer Burner	17758	0.037	MMcf/hr	3.475	lb/hr	0.17	4.250	lb/hr	0.21	1.600	lb/hr	0.08	4.670	lb/hr	0.23
	20C	Germ Dryer Sections 1-4		8	TPH												
24	24	Precoat Bin From Railcar	800	6.67	TPH	0.005	gr/dscf	0.15	0.005	gr/dscf	0.15	0.001	gr/dscf	0.03			
27	EU-27	#3 Starch Bulk Storage Bin	996	12.5	TPH	0.005	gr/dscf	0.20	0.003	gr/dscf	0.12	0.001	gr/dscf	0.02			
32	EU-32A	Carbon Furnace	2800	0.75	TPH	0.456	lb/hr	2.00	0.340	lb/hr	0.34	0.340	lb/hr	1.49	0.008	lb/hr	0.03
	EU-32B	Carbon Furnace Burner		0.03	MMcf/hr												
33	EU-33A	HCL Tank A	1476	1123	Gallons												
	EU-33B	HCL Tank B		1123	Gallons												
	EU-33C	Acid Storage Tank		19500	Gallons												
	EU-33D	Acid Head Tank		470	Gallons												
	EU-33E	Acidification Tank		375	Gallons												
	EU-33F	Converter Feed Tank		2880	Gallons												
	EU-33G	Carbon Column Feed Tank		2800	Gallons												
37	EU-37	Corn Cleaning & Conveying Aspiration	14699	8000	Bu/hr	0.191	lb/hr	0.84	0.191	lb/hr	0.84	0.032	lb/hr	0.14			
40	EU-40A	Mill Aspiration System	7486	110000	BPD										0.109	lb/hr	0.48
	EU-40B	Gluten Tank															
	EU-40C	Clarifier Feed Tank															
	EU-40D	Primary Feed Tank															
	EU-40E	Clarifiers															
	EU-40F	MST Feed Tank															
	EU-40G	Millwater Tank															
41	EU-41	Steep Tanks	24259	110000	BPD	0.369	lb/hr	1.61	0.369	lb/hr	1.61	0.063	lb/hr	0.27	0.386	lb/hr	1.69
43	EU-43	Vacuum Cleaner Vent--Starch Area (East)	550	10	TPH	0.005	gr/dscf	0.11	0.001	gr/dscf	0.03	0.000	gr/dscf	0.01			
51	EU-51A	50 Pound Bagger	9948	5	TPH	0.152	lb/hr	0.66	0.152	lb/hr	0.66	0.035	lb/hr	0.15			
	EU-51B	Industrial Starch Super Sacker		8	TPH												
	EU-51C	Food Starch Super Sacker		5	TPH												
	EU-51D	A/B Bins		6	TPH												
52	EU-52	#1 Starch Bulk Storage Bin	996	12.5	TPH	0.005	gr/dscf	0.20	0.005	gr/dscf	0.20	0.001	gr/dscf	0.05			
58	EU-58	Starch Truck Loadout	4078	7.008	TPH	0.005	gr/dscf	0.83	0.005	gr/dscf	0.83	0.001	gr/dscf	0.19			
61	EU-61A	Modifiation Tank 4	1125	30000	Gallons										0.005	lb/hr	0.02
	EU-61B	Modification Tank 5		30000	Gallons												
	EU-61C	Modification Tank 6		30000	Gallons												
	EU-61D	Modification Tank 7		45000	Gallons												
	EU-61E	Modification Tank 8		45000	Gallons												
65	EU-65	Starch Rail Loadout	2002	18.173	TPH	0.005	gr/dscf	0.41	0.005	gr/dscf	0.41	0.001	gr/dscf	0.09			

PTE-EF

EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	EF	EF Units	PM	EF	EF Units	PM10	EF	EF Units	PM2.5	EF	EF Units	SO2
68	EU-68	Cracked Corn Hammermill	1307	7.66	TPH	0.059	lb/hr	0.26	0.059	lb/hr	0.26	0.014	lb/hr	0.06			
70	EU-70A	Starch Modification Tank 1	1344	24	TPH	0.025	gr/dscf	1.26	0.025	gr/dscf	1.26	0.004	gr/dscf	0.19	0.002	lb/hr	0.01
	EU-70B	Starch Modification Tank 2															
	EU-70C	Starch Washer 1															
	EU-70D	Starch Washer 2															
	EU-70E	Soda Ash Storage Tank 3															
	EU-IU-544	SBS Tank Starch		5100	Gallons												
71	EU-71A	Starch Modification Tank 9	3525	50000	Gallons	0.010	gr/dscf	1.32	0.010	gr/dscf	1.32	0.002	gr/dscf	0.30	0.002	lb/hr	0.01
	EU-71B	Starch Modification Tank 10		50000	Gallons												
	EU-71C	Starch Modification Tank 12		50000	Gallons												
	EU-71D	Starch Modification Tank 14		125000	Gallons												
	EU-71E	Starch Modification Tank 15		125000	Gallons												
	EU-71F	Starch Modification Tank 16		125000	Gallons												
	EU-71G	Starch Modification Tank 17		125000	Gallons												
79	EU-79	Industrial Starch Loadout	4581	80	TPH	0.046	lb/hr	0.20	0.046	lb/hr	0.20	0.010	lb/hr	0.05			
85	EU-85	#10 Starch Bulk Storage Bin	1784	14	TPH	0.005	gr/dscf	0.35	0.005	gr/dscf	0.35	0.001	gr/dscf	0.08			
90	EU-90	Starch Flash Dryer #4	77155	16	TPH	4.935	lb/hr	21.62	4.935	lb/hr	21.62	1.135	lb/hr	4.97	0.800	lb/hr	3.50
	EU-90A	Starch Flash Dryer #4 Burner		16	TPH												
91	EU-91	#11 Industrial Starch Storage Bin	1489	14	TPH	0.005	gr/dscf	0.30	0.005	gr/dscf	0.30	0.001	gr/dscf	0.07			
92	EU-92	#12 Industrial Starch Storage Bin	1815	14	TPH	0.003	gr/dscf	0.23	0.003	gr/dscf	0.23	0.001	gr/dscf	0.05			
93	EU-93	#13 Industrial Starch Storage Bin	1815	14	TPH	0.005	gr/dscf	0.36	0.005	gr/dscf	0.36	0.001	gr/dscf	0.08			
94	EU-94	#18 Industrial Starch Storage Bin	852	7	TPH	0.005	gr/dscf	0.17	0.005	gr/dscf	0.17	0.001	gr/dscf	0.04			
95	EU-95	Starch Surge Bin	441	14	TPH	0.005	gr/dscf	0.09	0.005	gr/dscf	0.09	0.001	gr/dscf	0.02			
100	EU-100	224 MMBtu Gas Boiler	45749	0.2183	MMcf/hr	0.520	lb/mmcf	0.50	0.520	lb/mmcf	0.50	0.430	lb/mmcf	0.41	0.600	lb/mmcf	0.57
101	EU-101	#2 Gas Boiler	56813	0.27	MMcf/hr	1.479	lb/hr	6.48	1.479	lb/hr	6.48	1.479	lb/hr	6.48	0.600	lb/mmcf	0.71
102	EU-102	#14 Industrial Starch Storage Bin	883	14	TPH	0.005	gr/dscf	0.18	0.005	gr/dscf	0.18	0.001	gr/dscf	0.04			
103	EU-103	C* Film Vertical Bin #15	852	7	TPH	0.005	gr/dscf	0.17	0.005	gr/dscf	0.17	0.001	gr/dscf	0.04			
104	EU-104	#16 Industrial Starch Storage Bin	900	14	TPH	0.005	gr/dscf	0.18	0.005	gr/dscf	0.18	0.001	gr/dscf	0.04			
105	EU-105	#17 Industrial Starch Storage Bin	900	14	TPH	0.005	gr/dscf	0.18	0.005	gr/dscf	0.18	0.001	gr/dscf	0.04			
109	EU-109A	Gluten Filter Aspiration	15702	110000	bushels/day										2.000	ppm	1.37
	EU-20F	Bran Dewatering System		10.1	TPH												
113	EU-113	Germ Dryer Section 5	14189	8	TPH	0.664	lb/hr	0.02	0.664	lb/hr	0.02	0.153	lb/hr	0.00	0.340	lb/hr	0.01
	EU-113B	Germ Dryer Burner		0.04	MMcf/hr	0.664	lb/hr	0.03	0.664	lb/hr	0.03	0.153	lb/hr	0.01	0.340	lb/hr	0.02
115	EU-115	Specialty Starch Bulk Truck Loadout	412	14	TPH	0.001	gr/dscf	0.02	0.001	gr/dscf	0.02	0.000	gr/dscf	0.00			
116	EU-116A	Starch Spray Dryer #5	42104	2	TPH	0.504	lb/hr	2.21	0.504	lb/hr	2.21	0.116	lb/hr	0.51	0.329	lb/hr	1.44
	EU-116B	Starch Spray Dryer #5 Burner		0.01765	MMcf/hr												
118	EU-118	Salt Storage Bin	1100	12.5	TPH	0.010	gr/dscf	0.41	0.010	gr/dscf	0.41	0.002	gr/dscf	0.06			
119	EU-119	#19 Starch Bulk Storage Bin	600	2	TPH	0.005	gr/dscf	0.12	0.005	gr/dscf	0.12	0.001	gr/dscf	0.03			
120	EU-120	#20 Starch Bulk Storage Bin	600	2	TPH	0.005	gr/dscf	0.12	0.005	gr/dscf	0.12	0.001	gr/dscf	0.03			
121	EU-121	#21 Starch Bulk Storage Bin	600	2	TPH	0.005	gr/dscf	0.12	0.005	gr/dscf	0.12	0.001	gr/dscf	0.03			

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EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	EF	EF Units	PM	EF	EF Units	PM10	EF	EF Units	PM2.5	EF	EF Units	SO2
124	EU-124	Packer Hopper Vent	300	20	TPH	0.005	gr/dscf	0.06	0.005	gr/dscf	0.06	0.001	gr/dscf	0.01			
130	EU-130	Corn Silos 1-4	464	600	TPH	0.010	gr/dscf	0.17	0.010	gr/dscf	0.17	0.002	gr/dscf	0.03			
149	EU-149	Starch Bulk Bagger	1500	15	TPH	0.005	gr/dscf	0.31	0.005	gr/dscf	0.31	0.001	gr/dscf	0.07			
153	EU-153	Sodium Sulfate Receiving	500	12.5	TPH	0.010	gr/dscf	0.19	0.010	gr/dscf	0.19	0.002	gr/dscf	0.04			
155	EU-155	Industrial Grade Starch Packer/Blower	2764	20	TPH	0.070	lb/hr	0.31	0.070	lb/hr	0.31	0.016	lb/hr	0.07			
160	EU-160A	PO Storage	1000	12.1	TPH												
	EU-160C	Reactor #131															
	EU-160D	Reactor #132															
	EU-160E	Reactor #134															
	EU-160F	Reactor #135															
	EU-160H	Stripper #2															
161	EU-161A	POCL3 Storage	1407	12.1	TPH										0.001	lb/hr	0.00
	EU-161B	H2SO4 Storage Tank		1200	Gallons												
	EU-161C	Deactivation Tank		50	Gallons												
	EU-161D	Modification Tank #101		12.1	TPH												
	EU-161E	Modification Tank #102		12.1	TPH												
	EU-161F	Modification Tank #103		12.1	TPH												
	EU-161G	Modification Tank #104		12.1	TPH												
	EU-161H	nOSA Tank		7000	Gallons												
	EU-161I	Modification Tank #105		55000	Gallons												
162	EU-162A	Flash Dryer #6	55100	10.1	TPH	1.482	lb/hr	6.49	1.482	lb/hr	6.49	0.341	lb/hr	1.49	0.420	lb/hr	1.84
	EU-162B	Flash Dryer #6 Burner		0.01794	MMcf/hr												
164	EU-164	Starch Storage Bin #104	800	9	TPH	0.005	gr/dscf	0.16	0.005	gr/dscf	0.16	0.001	gr/dscf	0.04			
165	EU-165	Starch Storage Bin #105	800	9	TPH	0.005	gr/dscf	0.16	0.005	gr/dscf	0.16	0.001	gr/dscf	0.04			
166	EU-166	Starch Storage Bin #106	800	9	TPH	0.005	gr/dscf	0.16	0.005	gr/dscf	0.16	0.001	gr/dscf	0.04			
167	EU-167	Specialty Starch Storage Bin #107	1200	10	TPH	0.005	gr/dscf	0.24	0.005	gr/dscf	0.24	0.001	gr/dscf	0.05			
169	EU-169	Specialty Starch Storage Bin #109	1200	10	TPH	0.005	gr/dscf	0.24	0.005	gr/dscf	0.24	0.001	gr/dscf	0.05			
170	EU-170	Warehouse Receiver	1506	12.5	TPH	0.005	gr/dscf	0.30	0.005	gr/dscf	0.30	0.001	gr/dscf	0.07			
171	EU-171	Starch Storage Bin 108	1465	17.5	TPH	0.005	gr/dscf	0.29	0.005	gr/dscf	0.29	0.001	gr/dscf	0.07			
173	EU-173A	Starch Packer	15057	12.5	TPH	0.143	lb/hr	0.63	0.143	lb/hr	0.63	0.033	lb/hr	0.14			
	EU-173B	Super Sacker															
	EU-173C	Cleanup Vacuum															
174	EU-174	Starch Grinder Discharge Receiver	1011	12.5	TPH	0.005	gr/dscf	0.21	0.005	gr/dscf	0.21	0.001	gr/dscf	0.05			
175	EU-175	Starch Warehouse Vacuum Receiver	300	12.5	TPH	0.005	gr/dscf	0.06	0.005	gr/dscf	0.06	0.001	gr/dscf	0.01			
176	EU-176A	Waxy Corn Silo #1	3000	75000	Bushels	0.005	gr/dscf	0.60	0.005	gr/dscf	0.60	0.001	gr/dscf	0.14			
	EU-176B	Waxy Corn Silo #2		75000	Bushels												
177	EU-177	Grain Receiving Pit	10000	10000	Bu/hr	0.005	gr/dscf	1.88	0.005	gr/dscf	1.88	0.001	gr/dscf	0.43			
210	EU-210	500 kW Emergency Engine	1471	36.3	GPH	0.347	lb/hr	0.09	0.285	lb/hr	0.07	0.274	lb/hr	0.07	0.008	lb/hr	0.00
230	EU-230	Cracked Corn Conveying	598	20	TPH	0.005	gr/dscf	0.12	0.005	gr/dscf	0.12	0.001	gr/dscf	0.02			
240	EU-240	Starch Reslurry System	1250	5	TPH	0.005	gr/dscf	0.25	0.005	gr/dscf	0.25	0.001	gr/dscf	0.06			
245	EU-245	East Gluten Bin	1137	18	TPH	0.005	gr/dscf	0.21	0.005	gr/dscf	0.21	0.001	gr/dscf	0.04			
246	EU-246	Dry Gluten Receiver	884	7.5	TPH	0.005	gr/dscf	0.17	0.005	gr/dscf	0.17	0.001	gr/dscf	0.03			
247	EU-247	Wet Feed Loadout	22	45	TPH										70.000	ppm	0.07
248	EU-248	Starch Slurry Tank #6	242	500000	TPH										0.146	lb/hr	0.64
249	EU-249	East Gluten Filter Vacuum Pump	1021	2000	ft3/hr										0.002	lb/hr	0.01
250	EU-250	Middle Gluten Filter Vacuum Pump	878	2000	ft3/hr										0.005	lb/hr	0.02
251	EU-251	West Gluten Filter Vacuum Pump	1216	2000	ft3/hr										0.005	lb/hr	0.02
252	EU-252	Starch Slurry Tank #7	80	850000	Gallons										0.003	lb/hr	0.01
254	EU-254	Starch Slurry Tank #5	351	500000	Gallons										0.314	lb/hr	1.38
255	EU-255A	Rail Germ Loadout	903	135	TPH	0.005	gr/dscf	0.17	0.005	gr/dscf	0.17	0.001	gr/dscf	0.03			
	EU-255B	Germ Conveying		135	TPH												
258	EU-258	500 kW Non-Emergency Engine	1452	36.6	GPH	0.350	lb/hr	0.70	0.287	lb/hr	0.57	0.276	lb/hr	0.55	0.008	lb/hr	0.02

PTE-EF

EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	EF	EF Units	PM	EF	EF Units	PM10	EF	EF Units	PM2.5	EF	EF Units	SO2
260	EU-260	East Dilute Phase Pot	1004	12	TPH	0.005	gr/dscf	0.19	0.005	gr/dscf	0.19	0.001	gr/dscf	0.04			
262	EU-262	West Dilute Phase Pot	1004	12	TPH	0.005	gr/dscf	0.19	0.005	gr/dscf	0.19	0.001	gr/dscf	0.04			
263	EU-263	Elevator Tunnel Vacuum Filter	1887	141000	cubic feet/hour	0.010	gr/dscf	0.71	0.010	gr/dscf	0.71	0.002	gr/dscf	0.11			
265	EU-265	West Dilute Supersack Receiver	1385	30000	lbs/hr	0.005	gr/dscf	0.26	0.005	gr/dscf	0.26	0.005	gr/dscf	0.26			
266	EU-266	West Dense Supersack Receiver	640	30000	lbs/hr	0.005	gr/dscf	0.12	0.005	gr/dscf	0.12	0.005	gr/dscf	0.12			
267	EU-267	West Supersack Vacuum System	690	30000	lbs/hr	0.005	gr/dscf	0.13	0.005	gr/dscf	0.13	0.005	gr/dscf	0.13			
268	EU-268	West Dilute Supersack Surge Bin	20	120	cubic feet/hour	0.100	gr/dscf	0.08	0.100	gr/dscf	0.08	0.100	gr/dscf	0.08			
269	EU-269	West Dense Supersack Surge Bin	20	120	cubic feet/hour	0.100	gr/dscf	0.08	0.100	gr/dscf	0.08	0.100	gr/dscf	0.08			
300	EU-300	C* Fim Starch Receiving Filter	622	7	TPH	0.005	gr/dscf	0.12	0.005	gr/dscf	0.12	0.001	gr/dscf	0.03			
	EU-301WF	Weight Feeder		7	TPH												
320	EU-320	Starch Dryer	8594	7	TPH	0.440	lb/hr	1.93	0.440	lb/hr	1.93	0.101	lb/hr	0.44			
	EU-310SH	Starch Hopper		7	TPH												
330	EU-330	Modified Starch Receiving Filter	611	7	TPH	0.005	gr/dscf	0.12	0.005	gr/dscf	0.12	0.001	gr/dscf	0.03			
340	EU-340	Sifter	128	7	TPH	0.005	gr/dscf	0.03	0.005	gr/dscf	0.03	0.001	gr/dscf	0.01			
350	EU-350	Product Hopper	296	7	TPH	0.005	gr/dscf	0.06	0.005	gr/dscf	0.06	0.001	gr/dscf	0.01			
360	EU-360	Product Receiving Filter	216	7	TPH	0.005	gr/dscf	0.04	0.005	gr/dscf	0.04	0.001	gr/dscf	0.01			
370	EU-370	C* Film Loadout Surge Hopper	1594	5	TPH	0.005	gr/dscf	0.32	0.005	gr/dscf	0.32	0.001	gr/dscf	0.07			
380	EU-380	C* Cooling Tower	100250	400	gallons/minute	0.020	lb/hr	0.09	0.020	lb/hr	0.09	0.020	lb/hr	0.09			
390	EU-390	Food Starch Sifter	1162	19	TPH	0.005	gr/dscf	0.23	0.005	gr/dscf	0.23	0.001	gr/dscf	0.05			
410	EU-20A	Germ Dryer Burner	41569	0.04	MMcf/hr	1.135	lb/hr	4.97	1.135	lb/hr	4.97	1.135	lb/hr	4.97	0.640	lb/hr	2.80
	EU-20BNEW	Gluten Steam Tube Dryer - new		5	TPH												
	EU-20C	Germ Dryer Sections 1-4		8	TPH												
	EU-20D	Waste Gas Steepwater Evaporator		4500	BPH												
	EU-20F	Bran Dewatering System															
	EU-113	Germ Dryer Section 5		8	TPH												
	EU-113B	Germ Dryer Burner		0.04	Mmcf/hr												
	EU-410	RTO Burner		0.018	Mmcf/hr												
450	EU-450	Starch Slurry Tank #8	1405	600000	Gallons										0.044	lb/hr	0.19
	EU-180	Turbilizer		--	--												
	EU-181	Merco O/F Tank		3000	Gallons												
	EU-182	Mod Tank #101		30000	Gallons												
	EU-183	Deactivation Tank		1000	Gallons												
	EU-184	Wash Merco Feed Tank		3000	Gallons												
	EU-185	Merco 36		--	--												
452	EU-452	Starch Centrifuge	847	15	TPH	0.100	gr/dscf	2.842	0.061	gr/scf	1.734	0.023	gr/scf	0.654	0.052	lb/hr	0.229
453	EU-1A, 1B, 1C	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper	1069	15	TPH	0.050	lb/hr	0.219	0.050	lb/hr	0.219	0.012	lb/hr	0.050			
454	EU-90A, 90B, 90C	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper	1628	16	TPH	0.070	lb/hr	0.307	0.070	lb/hr	0.307	0.016	lb/hr	0.071			
516	EU-516	Refinery Loadout Boiler	8368	0.00817	MMcf/hr	7.600	lb/mmcf	0.27	7.600	lb/mmcf	0.27	7.600	lb/mmcf	0.27	0.600	lb/mmcf	0.02

Cargill, Incorpor:															
EIQ# 92-9020	S (TONS/YEAR) - CRITERIA POLLUTANTS														
EP ID	**EF**	**EF Units**	**NOx**	**EF**	**EF Units**	**VOC**	**EF**	**EF Units**	**CO**	**EF**	**EF Units**	**Lead**	**EF**	**EF Units**	**NH3**
			209.82			**298.17**			**161.02**			**0.00**			**7.89**
1				4.480	lb/hr	19.62	0.169	lb/hr	0.74						
				1.460	lb/ton	76.65									
5															
6				0.244	lb/hr	1.07									
8				0.245	lb/hr	1.07									
9				0.245	lb/hr	1.07									
11															
12				0.607	lb/hr	2.66									
13				0.357	lb/hr	1.04									
14				0.609	lb/hr	1.78									
15				0.139	lb/hr	0.61									
16				0.139	lb/hr	0.61									
17				0.156	lb/hr	0.68									
20	4.986	lb/hr	0.12	24.787	lb/hr	0.62	1.316	lb/hr	0.03	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.00
23	0.890	lb/hr	0.04	24.790	lb/hr	1.24	1.320	lb/hr	0.07	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.01
24															
27				0.137	lb/hr	0.60									
32	4.372	lb/hr	19.15	0.537	lb/hr	2.35	8.474	lb/hr	37.12						
										0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.42
				0.183	lb/hr	0.80									
33															
37															
				0.001	lb/bu	20.05									
40															
41				9.793	lb/hr	42.89									
43				0.019	lb/hr	0.08									
51				0.341	lb/hr	1.49									
52				0.137	lb/hr	0.60									
58				0.140	lb/hr	0.61									
61				0.525	lb/hr	2.30									
65				0.069	lb/hr	0.30									

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EP ID	EF	EF Units	NOx	EF	EF Units	VOC	EF	EF Units	CO	EF	EF Units	Lead	EF	EF Units	NH3
68															
				0.387	lb/hr	1.69									
70															
				2.209	lb/hr	9.67									
71															
79															
85				0.245	lb/hr	1.07									
90				0.520	lb/hr	2.28									
91															
92															
93															
94															
95															
100	0.040	lb/mmbtu	39.24	5.500	lb/mmcf	5.26	82.080	lb/mmcf	78.48	0.001	lb/mmcf	0.00	3.200	lb/mmcf	3.06
101	0.080	lb/mmbtu	96.36	5.500	lb/mmcf	6.50	1.327	lb/hr	5.81	0.001	lb/mmcf	0.00	3.200	lb/mmcf	3.78
102															
103															
104															
105															
109				0.001	lb/bu	14.84									
113	0.093	lb/hr	0.00	1.573	lb/hr	0.04	0.226	lb/hr	0.01						
	0.093	lb/hr	0.00	1.573	lb/hr	0.08	0.226	lb/hr	0.01						
115				0.014	lb/hr	0.06									
116	0.923	lb/hr	4.04	1.753	lb/hr	7.68	0.726	lb/hr	3.18						
										0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.25
118															
119				0.082	lb/hr	0.36									
120				0.082	lb/hr	0.36									
121				0.082	lb/hr	0.36									

PTE-EF

EP ID	EF	EF Units	NOx	EF	EF Units	VOC	EF	EF Units	CO	EF	EF Units	Lead	EF	EF Units	NH3
124				0.010	lb/hr	0.05									
130															
149				0.206	lb/hr	0.90									
153															
155															
160				1.492	lb/hr	6.53									
161				0.965	lb/hr	4.23									
162	0.908	lb/hr	3.98	0.927	lb/hr	4.06	0.602	lb/hr	2.64						
										0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.25
164				0.110	lb/hr	0.48									
165				0.110	lb/hr	0.48									
166				0.110	lb/hr	0.48									
167				0.165	lb/hr	0.72									
169				0.165	lb/hr	0.72									
170				0.052	lb/hr	0.23									
171				0.050	lb/hr	0.22									
173				0.516	lb/hr	2.26									
174				0.035	lb/hr	0.15									
175				0.041	lb/hr	0.18									
176															
177															
210	15.899	lb/hr	3.97	0.417	lb/hr	0.10	0.130	lb/hr	0.03						
230															
240				0.171	lb/hr	0.75									
245				0.156	lb/hr	0.68									
246				0.121	lb/hr	0.53									
247				0.003	lb/hr	0.01									
248				0.033	lb/hr	0.15									
249				0.000	lb/bu	2.21									
250				0.000	lb/bu	2.21									
251				0.000	lb/bu	2.21									
252				0.011	lb/hr	0.05									
254				0.048	lb/hr	0.21									
255				0.124	lb/hr	0.54									
258	16.031	lb/hr	32.06	0.421	lb/hr	0.84	0.058	lb/h	0.12						

PTE-EF

EP ID	EF	EF Units	NOx	EF	EF Units	VOC	EF	EF Units	CO	EF	EF Units	Lead	EF	EF Units	NH3
260				0.138	lb/hr	0.60									
262				0.138	lb/hr	0.60									
263															
265															
266															
267															
268															
269															
300				0.085	lb/hr	0.37									
320				2.947	lb/hr	12.91									
330				0.084	lb/hr	0.37									
340				0.018	lb/hr	0.08									
350				0.041	lb/hr	0.18									
360				0.030	lb/hr	0.13									
370				0.219	lb/hr	0.96									
380															
390				0.159	lb/hr	0.70									
410	1.656	lb/hr	7.25	3.775	lb/hr	16.54	6.800	lb/hr	29.78						
				0.193	lb/hr	0.84									
450															
452				20.000	ppmv	0.455									
453															
454															
516	100.000	lb/mmcf	3.58	5.500	lb/mmcf	0.20	84.000	lb/mmcf	3.01	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.11

PTE-UNCONTROLLED

Cargill, Incorporated					Minor		Significant	Major																
EIQ# 92-9020	Facility # 57-01-004				POTENTIALS (TONS/YEAR) - CRITERIA POLLUTANTS																			
EP ID	EU ID	EU Description	CE ID	CE Description	EF	EF Units	PM	EF	EF Units	PM10	EF	EF Units	PM2.5	EF	EF Units	SO2	EF	EF Units	NOx	EF	EF Units	VOC	EF	EF Units	CO
							3212.99			977.66			286.68			41.35			345.43			865.55			763.40
1	EU-1	#3 Starch Flash Dryer	CE-1	Wet Scrubber	0.710	lb/hr	31.11	0.710	lb/hr	31.11	0.163	lb/hr	7.16	0.800	lb/hr	5.01				4.480	lb/hr	19.62	0.169	lb/hr	0.74
	EU-1A	#3 Starch Flash Dryer																		1.460	lb/ton	76.65			
5	EU-5	Bulk Soda Ash Loadout	CE-5	Baghouse	0.005	lb/ton	53.61	0.005	lb/ton	10.72	0.001	lb/ton	3.11												
6	EU-6	#5 Starch Bulk Storage Bin	CE-6	Baghouse	0.005	gr/dscf	35.28	0.003	gr/dscf	4.41	0.001	gr/dscf	1.01							0.244	lb/hr	1.07			
8	EU-8	#7 Starch Bulk Storage Bin	CE-8	Baghouse	0.005	gr/dscf	35.42	0.003	gr/dscf	4.43	0.001	gr/dscf	1.02							0.245	lb/hr	1.07			
9	EU-9	C* Starch Bin #8	CE-9	Baghouse	0.005	gr/dscf	35.42	0.003	gr/dscf	4.43	0.001	gr/dscf	1.02							0.245	lb/hr	1.07			
11	EU-11	Corn Truck Unload	CE-11	Baghouse	0.088	lb/hr	38.73	0.088	lb/hr	7.75	0.088	lb/hr	7.75												
12	EU-12	Gluten Sizing System	CE-12	Baghouse	0.190	lb/hr	83.22	0.190	lb/hr	16.64	0.032	lb/hr	2.83							0.607	lb/hr	2.66			
13	EU-13A	Truck Gluten/Germ Loadout	CE-13	Baghouse	1.634	lb/hr	477.01	1.634	lb/hr	95.40	0.278	lb/hr	16.22							0.357	lb/hr	1.04			
	EU-13B	Rail Gluten Loadout																							
14	EU-14A	Gluten Scale	CE-14	Baghouse	0.090	lb/hr	26.28	0.090	lb/hr	5.26	0.015	lb/hr	0.89							0.609	lb/hr	1.78			
	EU-14B	Gluten Conveying																							
15	EU-15	East Germ Bin	CE-15	Baghouse	0.005	gr/dscf	18.99	0.005	gr/dscf	3.80	0.001	gr/dscf	0.65							0.139	lb/hr	0.61			
16	EU-16	West Germ Bin	CE-16	Baghouse	0.005	gr/dscf	18.99	0.005	gr/dscf	3.80	0.001	gr/dscf	0.65							0.139	lb/hr	0.61			
17	EU-17	West Gluten Bin	CE-17	Baghouse	0.005	gr/dscf	21.35	0.005	gr/dscf	4.27	0.001	gr/dscf	0.73							0.156	lb/hr	0.68			
20	EU-20A	Germ Dryer Burner	CE-20	Wet Scrubber	1.393	lb/hr	0.35	1.393	lb/hr	0.35	0.320	lb/hr	0.08	1.221	lb/hr	0.04	4.986	lb/hr	0.12	24.787	lb/hr	0.62	1.316	lb/hr	0.03
	EU-20BNEW	Gluten Steam Tube Dryer - new																							
	EU-20C	Germ Dryer Sections 1-4																							
	EU-20D	Waste Gas Steepwater Evaporator																							
	EU-20F	Bran Dewatering System																							
23	20A	Germ Dryer Burner	CE-20C	Cyclone	3.475	lb/hr	3.48	4.250	lb/hr	1.06	1.600	lb/hr	0.40	4.670	lb/hr	0.23	0.890	lb/hr	0.04	24.790	lb/hr	1.24	1.320	lb/hr	0.07
	20C	Germ Dryer Sections 1-4																							
24	24	Precoat Bin From Railcar	CE-24	Baghouse	0.005	gr/dscf	15.02	0.005	gr/dscf	3.00	0.001	gr/dscf	0.69												
27	EU-27	#3 Starch Bulk Storage Bin	CE-27	Baghouse	0.005	gr/dscf	19.79	0.003	gr/dscf	2.47	0.001	gr/dscf	0.42							0.137	lb/hr	0.60			
32	EU-32A	Carbon Furnace	CE-32A	Afterburner	0.456	lb/hr	19.98	0.340	lb/hr	3.40	0.340	lb/hr	14.87	0.008	lb/hr	0.05	4.372	lb/hr	19.15	0.537	lb/hr	47.06	8.474	lb/hr	371.18
	EU-32B	Carbon Furnace Burner	CE-32B	Wet Scrubber																					
33	EU-33A	HCL Tank A	CE-33	Packed Bed Scrubber																0.183	lb/hr	2.67			
	EU-33B	HCL Tank B																							
	EU-33C	Acid Storage Tank																							
	EU-33D	Acid Head Tank																							
	EU-33E	Acidification Tank																							
	EU-33F	Converter Feed Tank																							
	EU-33G	Carbon Column Feed Tank																							
37	EU-37	Corn Cleaning & Conveying Aspiration	CE-37	Baghouse	0.191	lb/hr	83.56	0.191	lb/hr	16.71	0.032	lb/hr	2.84												
40	EU-40A	Mill Aspiration System	CE-40	Packed Bed Scrubber										0.109	lb/hr	0.68				0.001	lb/bu	66.85			
	EU-40B	Gluten Tank																							
	EU-40C	Clarifier Feed Tank																							
	EU-40D	Primary Feed Tank																							
	EU-40E	Clarifiers																							
	EU-40F	MST Feed Tank																							
	EU-40G	Millwater Tank																							
41	EU-41	Steep Tanks	CE-41	Wet Scrubber	0.369	lb/hr	16.15	0.369	lb/hr	16.15	0.063	lb/hr	2.75	0.386	lb/hr	2.42				9.793	lb/hr	142.97			
43	EU-43	Vacuum Cleaner Vent--Starch Area (East)	CE-43	Baghouse	0.005	gr/dscf	11.25	0.001	gr/dscf	0.56	0.000	gr/dscf	0.13							0.019	lb/hr	0.08			
51	EU-51A	50 Pound Bagger	CE-51	Baghouse	0.152	lb/hr	66.37	0.152	lb/hr	13.27	0.035	lb/hr	3.05							0.341	lb/hr	1.49			
	EU-51B	Industrial Starch Super Sacker																							
	EU-51C	Food Starch Super Sacker																							
	EU-51D	A/B Bins																							
52	EU-52	#1 Starch Bulk Storage Bin	CE-52	Baghouse	0.005	gr/dscf	19.79	0.005	gr/dscf	3.96	0.001	gr/dscf	0.91							0.137	lb/hr	0.60			
58	EU-58	Starch Truck Loadout	CE-58	Baghouse	0.005	gr/dscf	83.37	0.005	gr/dscf	16.67	0.001	gr/dscf	3.83							0.140	lb/hr	0.61			
61	EU-61A	Modifiation Tank 4	CE-61	Wet Scrubber										0.005	lb/hr	0.03				0.525	lb/hr	2.30			
	EU-61B	Modification Tank 5																							
	EU-61C	Modification Tank 6																							
	EU-61D	Modification Tank 7																							
	EU-61E	Modification Tank 8																							
65	EU-65	Starch Rail Loadout	CE-65	Baghouse	0.005	gr/dscf	40.92	0.005	gr/dscf	8.18	0.001	gr/dscf	1.88							0.069	lb/hr	0.30			
68	EU-68	Cracked Corn Hammermill	CE-68	Baghouse	0.059	lb/hr	25.88	0.059	lb/hr	5.18	0.014	lb/hr	1.19												
70	EU-70A	Starch Modification Tank 1	CE-70	Wet Scrubber	0.025	gr/dscf	12.61	0.025	gr/dscf	12.61	0.004	gr/dscf	1.89	0.002	lb/hr	0.01				0.387	lb/hr	1.69			
	EU-70B	Starch Modification Tank 2																							
	EU-70C	Starch Washer 1																							
	EU-70D	Starch Washer 2																							
	EU-70E	Soda Ash Storage Tank 3																							
	EU-IU-544	SBS Tank Starch																							

PTE-UNCONTROLLED

EP ID	EU ID	EU Description	CE ID	CE Description	EF	EF Units	PM	EF	EF Units	PM10	EF	EF Units	PM2.5	EF	EF Units	SO2	EF	EF Units	NOx	EF	EF Units	VOC	EF	EF Units	CO
71	EU-71A	Starch Modification Tank 9	CE-71	Packed Bed Scrubber	0.010	gr/dscf	13.24	0.010	gr/dscf	13.24	0.002	gr/dscf	3.04	0.002	lb/hr	0.44				2.209	lb/hr	9.67			
	EU-71B	Starch Modification Tank 10																							
	EU-71C	Starch Modification Tank 12																							
	EU-71D	Starch Modification Tank 14																							
	EU-71E	Starch Modification Tank 15																							
	EU-71F	Starch Modification Tank 16																							
	EU-71G	Starch Modification Tank 17																							
79	EU-79	Industrial Starch Loadout	CE-79	Baghouse	0.046	lb/hr	19.94	0.046	lb/hr	3.99	0.010	lb/hr	0.92												
85	EU-85	#10 Starch Bulk Storage Bin	CE-85	Baghouse	0.005	gr/dscf	35.44	0.005	gr/dscf	7.09	0.001	gr/dscf	1.63							0.245	lb/hr	1.07			
90	EU-90	Starch Flash Dryer #4	CE-90	Wet Scrubber	4.935	lb/hr	216.17	4.935	lb/hr	216.17	1.135	lb/hr	49.72	0.800	lb/hr	5.01				0.520	lb/hr	2.28			
	EU-90A	Starch Flash Dryer #4 Burner																							
91	EU-91	#11 Industrial Starch Storage Bin	CE-91	Baghouse	0.005	gr/dscf	29.57	0.005	gr/dscf	5.91	0.001	gr/dscf	1.36												
92	EU-92	#12 Industrial Starch Storage Bin	CE-92	Baghouse	0.003	gr/dscf	22.53	0.003	gr/dscf	4.51	0.001	gr/dscf	1.04												
93	EU-93	#13 Industrial Starch Storage Bin	CE-93	Baghouse	0.005	gr/dscf	36.05	0.005	gr/dscf	7.21	0.001	gr/dscf	1.66												
94	EU-94	#18 Industrial Starch Storage Bin	CE-94	Dust Collector	0.005	gr/dscf	16.92	0.005	gr/dscf	3.38	0.001	gr/dscf	0.78												
95	EU-95	Starch Surge Bin	CE-95	Baghouse	0.005	gr/dscf	8.76	0.005	gr/dscf	1.75	0.001	gr/dscf	0.40												
100	EU-100	224 MMBtu Gas Boiler	CE-100A	Low NOx Burner	0.520	lb/mmcf	0.50	0.520	lb/mmcf	0.50	0.430	lb/mmcf	0.41	0.600	lb/mmcf	0.57	0.040	lb/mmbtu	78.49	5.500	lb/mmcf	5.26	82.080	lb/mmcf	78.48
			CE-100B	Flue Gas Recirculation																					
101	EU-101	#2 Gas Boiler	CE-101A	Low NOx Burner	1.479	lb/hr	6.48	1.479	lb/hr	6.48	1.479	lb/hr	6.48	0.600	lb/mmcf	0.71	0.080	lb/mmbtu	192.72	5.500	lb/mmcf	6.50	1.327	lb/hr	5.81
			CE-101B	Flue Gas Recirculation																					
102	EU-102	#14 Industrial Starch Storage Bin	CE-102	Baghouse	0.005	gr/dscf	17.55	0.005	gr/dscf	3.51	0.001	gr/dscf	0.81												
103	EU-103	C* Film Vertical Bin #15	CE-103	Baghouse	0.005	gr/dscf	16.92	0.005	gr/dscf	3.38	0.001	gr/dscf	0.78												
104	EU-104	#16 Industrial Starch Storage Bin	CE-104	Baghouse	0.005	gr/dscf	17.88	0.005	gr/dscf	3.58	0.001	gr/dscf	0.82												
105	EU-105	#17 Industrial Starch Storage Bin	CE-105	Baghouse	0.005	gr/dscf	17.88	0.005	gr/dscf	3.58	0.001	gr/dscf	0.82												
109	EU-109A	Gluten Filter Aspiration	CE-109	Packed Bed Scrubber										2.000	ppm	13.71				0.001	lb/bu	49.47			
	EU-20F	Bran Dewatering System																							
113	EU-113	Germ Dryer Section 5	CE-113	Cyclone	0.664	lb/hr	0.33	0.664	lb/hr	0.08	0.153	lb/hr	0.02	0.340	lb/hr	0.01	0.093	lb/hr	0.00	1.573	lb/hr	0.04	0.226	lb/hr	0.01
	EU-113B	Germ Dryer Burner			0.664	lb/hr	0.03	0.664	lb/hr	0.03	0.153	lb/hr	0.01	0.340	lb/hr	0.02	0.093	lb/hr	0.00	1.573	lb/hr	0.08	0.226	lb/hr	0.01
115	EU-115	Specialty Starch Bulk Truck Loadout	CE-115	Baghouse	0.001	gr/dscf	1.88	0.001	gr/dscf	0.38	0.000	gr/dscf	0.09							0.014	lb/hr	0.06			
116	EU-116A	Starch Spray Dryer #5	CE-116	Baghouse	0.504	lb/hr	220.78	0.504	lb/hr	44.16	0.116	lb/hr	10.16	0.329	lb/hr	1.44	0.923	lb/hr	4.04	1.753	lb/hr	7.68	0.726	lb/hr	3.18
	EU-116B	Starch Spray Dryer #5 Burner																							
118	EU-118	Salt Storage Bin	CE-118	Bin Vent Filter	0.010	gr/dscf	41.30	0.010	gr/dscf	8.26	0.002	gr/dscf	1.24												
119	EU-119	#19 Starch Bulk Storage Bin	CE-119	Baghouse	0.005	gr/dscf	11.92	0.005	gr/dscf	2.38	0.001	gr/dscf	0.55							0.082	lb/hr	0.36			
120	EU-120	#20 Starch Bulk Storage Bin	CE-120	Baghouse	0.005	gr/dscf	11.92	0.005	gr/dscf	2.38	0.001	gr/dscf	0.55							0.082	lb/hr	0.36			
121	EU-121	#21 Starch Bulk Storage Bin	CE-121	Baghouse	0.005	gr/dscf	11.92	0.005	gr/dscf	2.38	0.001	gr/dscf	0.55							0.082	lb/hr	0.36			
124	EU-124	Packer Hopper Vent	CE-124	Baghouse	0.005	gr/dscf	5.96	0.005	gr/dscf	1.19	0.001	gr/dscf	0.27							0.010	lb/hr	0.05			
130	EU-130	Corn Silos 1-4	CE-130	Single Sock Filter	0.010	gr/dscf	17.41	0.010	gr/dscf	3.48	0.002	gr/dscf	0.52												
149	EU-149	Starch Bulk Bagger	CE-149	Baghouse	0.005	gr/dscf	30.67	0.005	gr/dscf	6.13	0.001	gr/dscf	1.41							0.206	lb/hr	0.90			
153	EU-153	Sodium Sulfate Receiving	CE-153	Baghouse	0.010	gr/dscf	18.77	0.010	gr/dscf	3.75	0.002	gr/dscf	0.86												
155	EU-155	Industrial Grade Starch Packer/Blower	CE-155	Baghouse	0.070	lb/hr	30.66	0.070	lb/hr	6.13	0.016	lb/hr	1.41												
160	EU-160A	PO Storage	CE-160	Packed Bed Scrubber																1.492	lb/hr	21.78			
	EU-160C	Reactor #131																							
	EU-160D	Reactor #132																							
	EU-160E	Reactor #134																							
	EU-160F	Reactor #135																							
	EU-160H	Stripper #2																							
161	EU-161A	POCL3 Storage	CE-161	Packed Bed Scrubber										0.001	lb/hr	0.01				0.965	lb/hr	14.09			
	EU-161B	H2SO4 Storage Tank																							
	EU-161C	Deactivation Tank																							
	EU-161D	Modification Tank #101																							
	EU-161E	Modification Tank #102																							
	EU-161F	Modification Tank #103																							
	EU-161G	Modification Tank #104																							
	EU-161H	nOSA Tank																							
	EU-161I	Modification Tank #105																							
162	EU-162A	Flash Dryer #6	CE-162	Wet Scrubber	1.482	lb/hr	64.91	1.482	lb/hr	64.91	0.341	lb/hr	14.93	0.420	lb/hr	2.63	0.908	lb/hr	3.98	0.927	lb/hr	4.06	0.602	lb/hr	2.64
	EU-162B	Flash Dryer #6 Burner																							
164	EU-164	Starch Storage Bin #104	CE-164	Dust Collector	0.005	gr/dscf	15.89	0.005	gr/dscf	3.18	0.001	gr/dscf	0.73							0.110	lb/hr	0.48			
165	EU-165	Starch Storage Bin #105	CE-165	Dust Collector	0.005	gr/dscf	15.89	0.005	gr/dscf	3.18	0.001	gr/dscf	0.73							0.110	lb/hr	0.48			
166	EU-166	Starch Storage Bin #106	CE-166	Dust Collector	0.005	gr/dscf	15.89	0.005	gr/dscf	3.18	0.001	gr/dscf	0.73							0.110	lb/hr	0.48			
167	EU-167	Specialty Starch Storage Bin #107	CE-167	Dust Collector	0.005	gr/dscf	23.84	0.005	gr/dscf	4.77	0.001	gr/dscf	1.10							0.165	lb/hr	0.72			
169	EU-169	Specialty Starch Storage Bin #109	CE-169	Baghouse	0.005	gr/dscf	23.84	0.005	gr/dscf	4.77	0.001	gr/dscf	1.10							0.165	lb/hr	0.72			
170	EU-170	Warehouse Receiver	CE-170	Baghouse	0.005	gr/dscf	29.91	0.005	gr/dscf	5.98	0.001	gr/dscf	1.38							0.052	lb/hr	0.23			

PTE-UNCONTROLLED

EP ID	EU ID	EU Description	CE ID	CE Description	EF	EF Units	PM	EF	EF Units	PM10	EF	EF Units	PM2.5	EF	EF Units	SO2	EF	EF Units	NOx	EF	EF Units	VOC	EF	EF Units	CO
171	EU-171	Starch Storage Bin 108	CE-171	Dust Collector	0.005	gr/dscf	29.10	0.005	gr/dscf	5.82	0.001	gr/dscf	1.34							0.050	lb/hr	0.22			
173	EU-173A	Starch Packer	CE-173	Dust Collector	0.143	lb/hr	62.71	0.143	lb/hr	12.54	0.033	lb/hr	2.88							0.516	lb/hr	2.26			
	EU-173B	Super Sacker																							
	EU-173C	Cleanup Vacuum																							
174	EU-174	Starch Grinder Discharge Receiver	CE-174	Dust Collector	0.005	gr/dscf	20.67	0.005	gr/dscf	4.13	0.001	gr/dscf	0.95							0.035	lb/hr	0.15			
175	EU-175	Starch Warehouse Vacuum Receiver	CE-175	Baghouse	0.005	gr/dscf	6.13	0.005	gr/dscf	1.23	0.001	gr/dscf	0.28							0.041	lb/hr	0.18			
176	EU-176A	Waxy Corn Silo #1	CE-176	Baghouse	0.005	gr/dscf	59.59	0.005	gr/dscf	11.92	0.001	gr/dscf	2.74												
	EU-176B	Waxy Corn Silo #2																							
177	EU-177	Grain Receiving Pit	CE-177	Baghouse	0.005	gr/dscf	187.71	0.005	gr/dscf	37.54	0.001	gr/dscf	8.63												
210	EU-210	500 kW Emergency Engine	--	--	0.347	lb/hr	0.09	0.285	lb/hr	0.07	0.274	lb/hr	0.07	0.008	lb/hr	0.00	15.899	lb/hr	3.97	0.417	lb/hr	0.10	0.130	lb/hr	0.03
230	EU-230	Cracked Corn Conveying	CE-230	Dust Collector	0.005	gr/dscf	11.87	0.005	gr/dscf	2.37	0.001	gr/dscf	0.40												
240	EU-240	Starch Reslurry System	CE-240	Dust Collector	0.005	gr/dscf	24.83	0.005	gr/dscf	4.97	0.001	gr/dscf	1.14							0.171	lb/hr	0.75			
245	EU-245	East Gluten Bin	CE-245	Baghouse	0.005	gr/dscf	21.35	0.005	gr/dscf	4.27	0.001	gr/dscf	0.73							0.156	lb/hr	0.68			
246	EU-246	Dry Gluten Receiver	CE-246	Baghouse	0.005	gr/dscf	16.60	0.005	gr/dscf	3.32	0.001	gr/dscf	0.56							0.121	lb/hr	0.53			
247	EU-247	Wet Feed Loadout	--	None										70.000	ppm	0.07				0.003	lb/hr	0.01			
248	EU-248	Starch Slurry Tank #6	--	None										0.146	lb/hr	0.64				0.033	lb/hr	0.15			
249	EU-249	East Gluten Filter Vacuum Pump	--	None										0.002	lb/hr	0.01				0.000	lb/bu	2.21			
250	EU-250	Middle Gluten Filter Vacuum Pump	--	None										0.005	lb/hr	0.02				0.000	lb/bu	2.21			
251	EU-251	West Gluten Filter Vacuum Pump	--	None										0.005	lb/hr	0.02				0.000	lb/bu	2.21			
252	EU-252	Starch Slurry Tank #7	--	None										0.003	lb/hr	0.01				0.011	lb/hr	0.05			
254	EU-254	Starch Slurry Tank #5	--	None										0.314	lb/hr	1.38				0.048	lb/hr	0.21			
255	EU-255A	Rail Germ Loadout	CE-255	Baghouse	0.005	gr/dscf	16.95	0.005	gr/dscf	3.39	0.001	gr/dscf	0.58							0.124	lb/hr	0.54			
	EU-255B	Germ Conveying																							
258	EU-258	500 kW Non-Emergency Engine	CE-258	Diesel Oxidation Catalyst	0.350	lb/hr	0.78	0.287	lb/hr	0.64	0.276	lb/hr	0.55	0.008	lb/hr	0.02	16.031	lb/hr	32.06	0.421	lb/hr	0.84	0.058	lb/h	0.39
260	EU-260	East Dilute Phase Pot	CE-260	Dust Collector	0.005	gr/dscf	18.84	0.005	gr/dscf	3.77	0.001	gr/dscf	0.87							0.138	lb/hr	0.60			
262	EU-262	West Dilute Phase Pot	CE-262	Dust Collector	0.005	gr/dscf	18.84	0.005	gr/dscf	3.77	0.001	gr/dscf	0.87							0.138	lb/hr	0.60			
263	EU-263	Elevator Tunnel Vacuum Filter	CE-263	Dust Collector	0.010	gr/dscf	70.85	0.010	gr/dscf	14.17	0.002	gr/dscf	2.13												
265	EU-265	West Dilute Supersack Receiver	CE-265	Baghouse	0.005	gr/dscf	26.00	0.005	gr/dscf	5.20	0.005	gr/dscf	5.20												
266	EU-266	West Dense Supersack Receiver	CE-266	Baghouse	0.005	gr/dscf	12.01	0.005	gr/dscf	2.40	0.005	gr/dscf	2.40												
267	EU-267	West Supersack Vacuum System	CE-267	Baghouse	0.005	gr/dscf	12.95	0.005	gr/dscf	2.59	0.005	gr/dscf	2.59												
268	EU-268	West Dilute Supersack Surge Bin	CE-268	Baghouse	0.100	gr/dscf	7.51	0.100	gr/dscf	1.50	0.100	gr/dscf	1.50												
269	EU-269	West Dense Supersack Surge Bin	CE-269	Baghouse	0.100	gr/dscf	7.51	0.100	gr/dscf	1.50	0.100	gr/dscf	1.50												
300	EU-300	C* Fim Starch Receiving Filter	CE-300	Dust Collector	0.005	gr/dscf	12.35	0.005	gr/dscf	2.47	0.001	gr/dscf	0.57							0.085	lb/hr	0.37			
	EU-301WF	Weight Feeder																							
320	EU-320	Starch Dryer	CE-320	Vent Cage Wet Scrubber	0.440	lb/hr	19.27	0.440	lb/hr	19.27	0.101	lb/hr	4.43							2.947	lb/hr	12.91			
	EU-310SH	Starch Hopper																							
330	EU-330	Modified Starch Receiving Filter	CE-330	Baghouse	0.005	gr/dscf	12.14	0.005	gr/dscf	2.43	0.001	gr/dscf	0.56							0.084	lb/hr	0.37			
340	EU-340	Sifter	CE-340	Dust Collector	0.005	gr/dscf	2.54	0.005	gr/dscf	0.51	0.001	gr/dscf	0.12							0.018	lb/hr	0.08			
350	EU-350	Product Hopper	CE-350	Dust Collector	0.005	gr/dscf	5.88	0.005	gr/dscf	1.18	0.001	gr/dscf	0.27							0.041	lb/hr	0.18			
360	EU-360	Product Receiving Filter	CE-360	Dust Collector	0.005	gr/dscf	4.28	0.005	gr/dscf	0.86	0.001	gr/dscf	0.20							0.030	lb/hr	0.13			
370	EU-370	C* Film Loadout Surge Hopper	CE-370	Baghouse	0.005	gr/dscf	31.66	0.005	gr/dscf	6.33	0.001	gr/dscf	1.46							0.219	lb/hr	0.96			
380	EU-380	C* Cooling Tower	CE-380	Drift Eliminator	0.020	lb/hr	0.10	0.020	lb/hr	0.10	0.020	lb/hr	0.10												
390	EU-390	Food Starch Sifter	CE-390	Dust Collector	0.005	gr/dscf	23.09	0.005	gr/dscf	4.62	0.001	gr/dscf	1.06							0.159	lb/hr	0.70			
410	EU-20A	Germ Dryer Burner	CE-410	RTO	1.135	lb/hr	49.70	1.135	lb/hr	49.70	1.135	lb/hr	49.70	0.640	lb/hr	4.01	1.656	lb/hr	7.25	3.775	lb/hr	330.70	6.800	lb/hr	297.82
	EU-20BNEW	Gluten Steam Tube Dryer - new																							
	EU-20C	Germ Dryer Sections 1-4																							
	EU-20D	Waste Gas Steepwater Evaporator																							
	EU-20F	Bran Dewatering System																							
	EU-113	Germ Dryer Section 5																							
	EU-113B	Germ Dryer Burner																							
	EU-410	RTO Burner																							
450	EU-450	Starch Slurry Tank #8	CE-450	Packed Bed Scrubber										0.044	lb/hr	1.93				0.193	lb/hr	0.84			
	EU-180	Turbilizer																							
	EU-181	Merco O/F Tank																							
	EU-182	Mod Tank #101																							
	EU-183	Deactivation Tank																							
	EU-184	Wash Merco Feed Tank																							
	EU-185	Merco 36																							
452	EU-452	Starch Centrifuge	--	--	0.100	gr/dscf	2.842	0.061	gr/scf	1.734	0.023	gr/scf	0.654	0.052	lb/hr	0.229				20.000	ppmv	0.455			
453	EU-1A, 1B, 1C	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper	CE-453	Baghouse	0.050	lb/hr	21.900	0.050	lb/hr	4.380	0.012	lb/hr	1.007												
454	EU-90A, 90B, 90C	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper	CE-454	Baghouse	0.070	lb/hr	30.660	0.070	lb/hr	6.132	0.016	lb/hr	1.410												
516	EU-516	Refinery Loadout Boiler	--	--	7.600	lb/mmcf	0.27	7.600	lb/mmcf	0.27	7.600	lb/mmcf	0.27	0.600	lb/mmcf	0.02	100.000	lb/mmcf	3.58	5.500	lb/mmcf	0.20	84.000	lb/mmcf	3.01

PTE-UNCONTROLLED

Cargill, Incorpora						
EIQ# 92-9020						
EP ID	**EF**	**EF Units**	**Lead**	**EF**	**EF Units**	**NH3**
			0.00			**7.89**
1						
5						
6						
8						
9						
11						
12						
13						
14						
15						
16						
17						
	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.00
20						
23	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.01
24						
27						
32	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.42
33						
37						
40						
41						
43						
51						
52						
58						
61						
65						
68						
70						

PTE-UNCONTROLLED

EP ID	EF	EF Units	Lead	EF	EF Units	NH3
71						
79						
85						
90						
91						
92						
93						
94						
95						
100	0.001	lb/mmcf	0.00	3.200	lb/mmcf	3.06
101	0.001	lb/mmcf	0.00	3.200	lb/mmcf	3.78
102						
103						
104						
105						
109						
113						
115						
116	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.25
118						
119						
120						
121						
124						
130						
149						
153						
155						
160						
161						
162						
	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.25
164						
165						
166						
167						
169						
170						

PTE-UNCONTROLLED

EP ID	EF	EF Units	Lead	EF	EF Units	NH3
171						
173						
174						
175						
176						
177						
210						
230						
240						
245						
246						
247						
248						
249						
250						
251						
252						
254						
255						
258						
260						
262						
263						
265						
266						
267						
268						
269						
300						
320						
330						
340						
350						
360						
370						
380						
390						
410						
450						
452						
453						
454						
516	0.001	lb/mmcf	0.00	3.200	lb/mmcf	0.11

PTE-RULE HAPs

Cargill, Incorporated					Hours of Operation	8760	Minor	Significant	Major									
EIQ# 92-9020	Facility # 57-01-004				lbs/ton	2000												
EP ID	**EU ID**	**EU Description**	**SCFM**	**Rated Capacity**	**Capacity Units**	**Total HAP**	**EF**	**ACEHY**	**EF**	**MTNOL**	**EF**	**FORM**	**EF**	**ACRLE**	**EF**	**HXNE**	**EF**	**CHLFO**
					FACILITYWIDE TOTALS:	**152.13**		**40.64**		**18.04**		**5.51**		**3.89**		**4.56**		**46.08**
1	EU-1	#3 Starch Flash Dryer	65296	**15**	TPH	4.69	0.396	1.73	0.674	2.95								
	EU-1A	#3 Starch Flash Dryer		15	TPH	60.38	0.035	1.84			0.05	2.68					0.781	41.00
5	EU-5	Bulk Soda Ash Loadout	1120	24	TPH													
6	EU-6	#5 Starch Bulk Storage Bin	1776	12.5	TPH	0.27	0.02	0.10	0.04	0.17								
8	EU-8	#7 Starch Bulk Storage Bin	1783	12.5	TPH	0.27	0.02	0.10	0.04	0.17								
9	EU-9	C* Starch Bin #8	1783	7	TPH	0.27	0.02	0.10	0.04	0.17								
11	EU-11	Corn Truck Unload	10263	600	TPH													
12	EU-12	Gluten Sizing System	4425	9.375	TPH	0.67	0.09	0.41	0.06	0.25								
13	EU-13A	Truck Gluten/Germ Loadout	43239	135	TPH	4.23	0.90	2.63	0.55	1.61								
	EU-13B	Rail Gluten Loadout		135	TPH													
14	EU-14A	Gluten Scale	4441	135	TPH	0.44	0.09	0.27	0.06	0.17								
	EU-14B	Gluten Conveying		135	TPH													
15	EU-15	East Germ Bin	1012	7.5	TPH	0.13	0.03	0.13										
16	EU-16	West Germ Bin	1012	7.5	TPH	0.13	0.03	0.13										
17	EU-17	West Gluten Bin	1137	7.5	TPH	0.18	0.03	0.11	0.02	0.07								
20	EU-20A	Germ Dryer Burner	26079	0.037	MMcf/hr	0.12	4.07	0.10	0.48	0.01	0.22	0.01	0.15	0.00	0.07	0.00		
	EU-20BNEW	Gluten Steam Tube Dryer - new		5	TPH													
	EU-20C	Germ Dryer Sections 1-4		8	TPH													
	EU-20D	Waste Gas Steepwater Evaporator		4500	BU/hr													
	EU-20F	Bran Dewatering System		10.1	TPH													
23	20A	Germ Dryer Burner	17758	0.037	MMcf/hr	0.24	4.07	0.20	0.48	0.02	0.22	0.01	0.15	0.01	0.07	0.00		
	20C	Germ Dryer Sections 1-4		8	TPH													
24	24	Precoat Bin From Railcar	800	6.67	TPH													
27	EU-27	#3 Starch Bulk Storage Bin	996	12.5	TPH	0.13	0.01	0.05	0.02	0.08								
32	EU-32A	Carbon Furnace	2800	0.75	TPH	1.51	0.02	0.07			0.00	0.02			1.80	0.20		
	EU-32B	Carbon Furnace Burner		0.03	MMcf/hr													
33	EU-33A	HCL Tank A	1476	1123	Gallons	3.85	0.28	1.23	0.18	0.78	0.08	0.35						
	EU-33B	HCL Tank B		1123	Gallons													
	EU-33C	Acid Storage Tank		19500	Gallons													
	EU-33D	Acid Head Tank		470	Gallons													
	EU-33E	Acidification Tank		375	Gallons													
	EU-33F	Converter Feed Tank		2880	Gallons													
	EU-33G	Carbon Column Feed Tank		2800	Gallons													
37	EU-37	Corn Cleaning & Conveying Aspiration	14699	8000	Bu/hr													
40	EU-40A	Mill Aspiration System	7486	110000	BPD	1.14	0.24	1.06			0.02	0.08						
	EU-40B	Gluten Tank																
	EU-40C	Clarifier Feed Tank																
	EU-40D	Primary Feed Tank																
	EU-40E	Clarifiers																
	EU-40F	MST Feed Tank																
	EU-40G	Millwater Tank																
41	EU-41	Steep Tanks	24259	110000	BPD	1.75	0.13	0.57	0.25	1.10	0.02	0.09	0.02	0.09				
43	EU-43	Vacuum Cleaner Vent--Starch Area (East)	550	10	TPH	0.02	0.00	0.01	0.00	0.01								
51	EU-51A	50 Pound Bagger	9948	5	TPH	0.35	0.03	0.13	0.05	0.22								
	EU-51B	Industrial Starch Super Sacker		8	TPH													
	EU-51C	Food Starch Super Sacker		5	TPH													
	EU-51D	A/B Bins		6	TPH													
52	EU-52	#1 Starch Bulk Storage Bin	996	12.5	TPH	0.13	0.01	0.05	0.02	0.08								
58	EU-58	Starch Truck Loadout	4078	7.008	TPH	0.18	0.02	0.07	0.03	0.11								
61	EU-61A	Modifiation Tank 4	1125	30000	Gallons													
	EU-61B	Modification Tank 5		30000	Gallons													
	EU-61C	Modification Tank 6		30000	Gallons													
	EU-61D	Modification Tank 7		45000	Gallons													
	EU-61E	Modification Tank 8		45000	Gallons													
65	EU-65	Starch Rail Loadout	2002	18.173	TPH	0.09	0.01	0.03	0.01	0.06								
68	EU-68	Cracked Corn Hammermill	1307	7.66	TPH													
70	EU-70A	Starch Modification Tank 1	1344	24	TPH													
	EU-70B	Starch Modification Tank 2																
	EU-70C	Starch Washer 1																
	EU-70D	Starch Washer 2																
	EU-70E	Soda Ash Storage Tank 3																
	EU-IU-544	SBS Tank Starch		5100	Gallons													
71	EU-71A	Starch Modification Tank 9	3525	50000	Gallons	0.04			0.01	0.04								
	EU-71B	Starch Modification Tank 10		50000	Gallons													
	EU-71C	Starch Modification Tank 12		50000	Gallons													
	EU-71D	Starch Modification Tank 14		125000	Gallons													
	EU-71E	Starch Modification Tank 15		125000	Gallons													
	EU-71F	Starch Modification Tank 16		125000	Gallons													
	EU-71G	Starch Modification Tank 17		125000	Gallons													
79	EU-79	Industrial Starch Loadout	4581	80	TPH													
85	EU-85	#10 Starch Bulk Storage Bin	1784	14	TPH	0.33	0.02	0.07	0.00	0.01							0.06	0.26
90	EU-90	Starch Flash Dryer #4	77155	16	TPH	5.79	0.49	2.14	0.83	3.65								
	EU-90A	Starch Flash Dryer #4 Burner		16	TPH													
91	EU-91	#11 Industrial Starch Storage Bin	1489	14	TPH													
92	EU-92	#12 Industrial Starch Storage Bin	1815	14	TPH													
93	EU-93	#13 Industrial Starch Storage Bin	1815	14	TPH													
94	EU-94	#18 Industrial Starch Storage Bin	852	7	TPH													
95	EU-95	Starch Surge Bin	441	14	TPH													
100	EU-100	224 MMBtu Gas Boiler	45749	0.2183	MMcf/hr	1.79					0.08	0.07			1.80	1.72		
101	EU-101	#2 Gas Boiler	56813	0.27	MMcf/hr	2.22					0.08	0.09			1.80	2.13		
102	EU-102	#14 Industrial Starch Storage Bin	883	14	TPH													
103	EU-103	C* Film Vertical Bin #15	852	7	TPH													
104	EU-104	#16 Industrial Starch Storage Bin	900	14	TPH													
105	EU-105	#17 Industrial Starch Storage Bin	900	14	TPH													

PTE-RULE HAPs

EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	Total HAP	EF	ACEHY	EF	MTNOL	EF	FORM	EF	ACRLE	EF	HXNE	EF	CHLFO
109	EU-109A	Gluten Filter Aspiration	15702	110000	bushels/day	0.66	0.15	0.66										
	EU-20F	Bran Dewatering System		10.1	TPH													
113	EU-113	Germ Dryer Section 5	14189	8	TPH	0.02	0.64	0.02	0.07	0.00	0.06	0.00	0.06	0.00	0.07	0.00		
	EU-113B	Germ Dryer Burner		0.04	MMcf/hr	0.04	0.64	0.03	0.07	0.00	0.06	0.00	0.06	0.00	0.07	0.00		
115	EU-115	Specialty Starch Bulk Truck Loadout	412	14	TPH	0.06	0.01	0.02	0.01	0.04								
116	EU-116A	Starch Spray Dryer #5	42104	2	TPH	6.25	0.28	1.10	0.10	0.40	0.09	0.38	0.35	1.40				
	EU-116B	Starch Spray Dryer #5 Burner		0.01765	MMcf/hr	0.13									1.80	0.13		
118	EU-118	Salt Storage Bin	1100	12.5	TPH													
119	EU-119	#19 Starch Bulk Storage Bin	600	2	TPH	0.09	0.01	0.03	0.01	0.06								
120	EU-120	#20 Starch Bulk Storage Bin	600	2	TPH	0.09	0.01	0.03	0.01	0.06								
121	EU-121	#21 Starch Bulk Storage Bin	600	2	TPH	0.09	0.01	0.03	0.01	0.06								
124	EU-124	Packer Hopper Vent	300	20	TPH	0.01	0.00	0.00	0.00	0.01								
130	EU-130	Corn Silos 1-4	464	600	TPH													
149	EU-149	Starch Bulk Bagger	1500	15	TPH	0.22	0.02	0.08	0.03	0.14								
153	EU-153	Sodium Sulfate Receiving	500	12.5	TPH													
155	EU-155	Industrial Grade Starch Packer/Blower	2764	20	TPH													
160	EU-160A	PO Storage	1000	12.1	TPH	5.74	0.01	0.03	0.04	0.16	0.00	0.00						
	EU-160C	Reactor #131																
	EU-160D	Reactor #132																
	EU-160E	Reactor #134																
	EU-160F	Reactor #135																
	EU-160H	Stripper #2																
161	EU-161A	POCL3 Storage	1407	12.1	TPH	3.64	0.00	0.01	0.01	0.03								
	EU-161B	H2SO4 Storage Tank		1200	Gallons													
	EU-161C	Deactivation Tank		50	Gallons													
	EU-161D	Modification Tank #101		12.1	TPH													
	EU-161E	Modification Tank #102		12.1	TPH													
	EU-161F	Modification Tank #103		12.1	TPH													
	EU-161G	Modification Tank #104		12.1	TPH													
	EU-161H	nOSA Tank		7000	Gallons													
	EU-161I	Modification Tank #105		55000	Gallons													
162	EU-162A	Flash Dryer #6	55100	10.1	TPH	6.50	0.26	1.15	0.10	0.42	0.09	0.39	0.33	1.46				
	EU-162B	Flash Dryer #6 Burner		0.01794	MMcf/hr	0.14									1.80	0.14		
164	EU-164	Starch Storage Bin #104	800	9	TPH	0.13	0.01	0.05	0.02	0.08								
165	EU-165	Starch Storage Bin #105	800	9	TPH	0.13	0.01	0.05	0.02	0.08								
166	EU-166	Starch Storage Bin #106	800	9	TPH	0.13	0.01	0.05	0.02	0.08								
167	EU-167	Specialty Starch Storage Bin #107	1200	10	TPH	0.18	0.02	0.07	0.03	0.11								
169	EU-169	Specialty Starch Storage Bin #109	1200	10	TPH	0.18	0.02	0.07	0.03	0.11								
170	EU-170	Warehouse Receiver	1506	12.5	TPH	0.06	0.01	0.02	0.01	0.04								
171	EU-171	Starch Storage Bin 108	1465	17.5	TPH	0.04	0.00	0.02	0.01	0.03								
173	EU-173A	Starch Packer	15057	12.5	TPH	0.83	0.07	0.31	0.12	0.53								
	EU-173B	Super Sacker																
	EU-173C	Cleanup Vacuum																
174	EU-174	Starch Grinder Discharge Receiver	1011	12.5	TPH	0.04	0.00	0.02	0.01	0.03								
175	EU-175	Starch Warehouse Vacuum Receiver	300	12.5	TPH	0.04	0.00	0.02	0.01	0.03								
176	EU-176A	Waxy Corn Silo #1	3000	75000	Bushels													
	EU-176B	Waxy Corn Silo #2		75000	Bushels													
177	EU-177	Grain Receiving Pit	10000	10000	Bu/hr													
210	EU-210	500 kW Emergency Engine	1471	36.3	GPH	0.01	0.00	0.00			0.00	0.00						
230	EU-230	Cracked Corn Conveying	598	20	TPH													
240	EU-240	Starch Reslurry System	1250	5	TPH	0.18	0.02	0.07	0.03	0.11								
245	EU-245	East Gluten Bin	1137	18	TPH	0.18	0.03	0.11	0.02	0.07								
246	EU-246	Dry Gluten Receiver	884	7.5	TPH	0.18	0.03	0.11	0.02	0.07								
247	EU-247	Wet Feed Loadout	22	45	TPH	0.00	0.00	0.00			0.00	0.00						
248	EU-248	Starch Slurry Tank #6	242	500000	TPH	0.04	0.01	0.04			0.00	0.00						
249	EU-249	East Gluten Filter Vacuum Pump	1021	2000	ft3/hr	0.09	0.02	0.09										
250	EU-250	Middle Gluten Filter Vacuum Pump	878	2000	ft3/hr	0.09	0.02	0.09										
251	EU-251	West Gluten Filter Vacuum Pump	1216	2000	ft3/hr	0.09	0.02	0.09										
252	EU-252	Starch Slurry Tank #7	80	850000	Gallons	0.01	0.00	0.01										
254	EU-254	Starch Slurry Tank #5	351	500000	Gallons	0.04	0.01	0.04			0.00	0.00						
255	EU-255A	Rail Germ Loadout	903	135	TPH	0.13	0.03	0.13										
	EU-255B	Germ Conveying		135	TPH													
258	EU-258	500 kW Non-Emergency Engine	1452	36.6	GPH	0.01	0.00	0.00			0.00	0.00						
260	EU-260	East Dilute Phase Pot	1004	12	TPH	0.15	0.01	0.06	0.02	0.10								
262	EU-262	West Dilute Phase Pot	1004	12	TPH	0.15	0.01	0.06	0.02	0.10								
263	EU-263	Elevator Tunnel Vacuum Filter	1887	141000	cubic feet/hour													
265	EU-265	West Dilute Supersack Receiver	1385	30000	lbs/hr													
266	EU-266	West Dense Supersack Receiver	640	30000	lbs/hr													
267	EU-267	West Supersack Vacuum System	690	30000	lbs/hr													
268	EU-268	West Dilute Supersack Surge Bin	20	120	cubic feet/hour													
269	EU-269	West Dense Supersack Surge Bin	20	120	cubic feet/hour													
300	EU-300	C* Fim Starch Receiving Filter	622	7	TPH	0.17	0.01	0.04			0.00	0.00					0.03	0.14
	EU-301WF	Weight Feeder		7	TPH													
320	EU-320	Starch Dryer	8594	7	TPH	6.79	0.24	1.05			0.01	0.05					0.92	4.03
	EU-310SH	Starch Hopper		7	TPH													
330	EU-330	Modified Starch Receiving Filter	611	7	TPH	0.17	0.01	0.04			0.00	0.00					0.03	0.14
340	EU-340	Sifter	128	7	TPH	0.04	0.00	0.01			0.00	0.00					0.01	0.04
350	EU-350	Product Hopper	296	7	TPH	0.09	0.00	0.02			0.00	0.00					0.02	0.07
360	EU-360	Product Receiving Filter	216	7	TPH	0.04	0.00	0.01			0.00	0.00					0.01	0.04
370	EU-370	C* Film Loadout Surge Hopper	1594	5	TPH	0.48	0.02	0.10			0.00	0.00					0.09	0.38
380	EU-380	C* Cooling Tower	100250	400	gallons/minute													
390	EU-390	Food Starch Sifter	1162	19	TPH	0.04	0.00	0.02	0.01	0.03								
410	EU-20A	Germ Dryer Burner	41569	0.04	MMcf/hr	24.45	4.71	20.63	0.55	2.41	0.29	1.25	0.21	0.92	0.00	0.16		
	EU-20BNEW	Gluten Steam Tube Dryer - new		5	TPH													
	EU-20C	Germ Dryer Sections 1-4		8	TPH													
	EU-20D	Waste Gas Steepwater Evaporator		4500	BPH													
	EU-20F	Bran Dewatering System		10.1	TPH													
	EU-113	Germ Dryer Section 5		8	TPH													
	EU-113B	Germ Dryer Burner		0.04	Mmcf/hr													

PTE-RULE HAPs

EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	Total HAP	EF	ACEHY	EF	MTNOL	EF	FORM	EF	ACRLE	EF	HXNE	EF	CHLFO
450	EU-410	RTO Burner	1405	0.018	Mmcf/hr													
	EU-450	Starch Slurry Tank #8		600000	Gallons	0.22	0.05	0.21			0.00	0.02						
	EU-180	Turbilizer		--	--													
	EU-181	Merco O/F Tank		3000	Gallons													
	EU-182	Mod Tank #101		30000	Gallons													
	EU-183	Deactivation Tank		1000	Gallons													
	EU-184	Wash Merco Feed Tank		3000	Gallons													
	EU-185	Merco 36		--	--													
452	EU-452	Starch Centrifuge	847	15	TPH	0.45	20 ppmv	0.45										
453	EU-1A, 1B, 1C	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper	1069	15	TPH													
454	EU-90A, 90B, 90C	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper	1628	16	TPH	0.96			0.22	0.96								
516	EU-516	Refinery Loadout Boiler	8368	0.00817	MMcf/hr	0.07					0.08	0.00			1.80	0.06		

PTE-RULE HAPs

Cargill, Incorpora																								
EIQ# 92-9020	POTENTIALS (TONS/YEAR) - HAZARDOUS AIR POLLUTANTS																							
EP ID	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
		18.05		**0.63**		**4.99**		**6.41**		**0.16**		**0.79**		**1.63**		**0.26**		**3.15**		**0.01**		**0.02**		**1.23**
1																								
			0.01	0.63	0.10	4.99	0.12	6.41	0.00	0.16	0.02	0.79	0.03	1.63	0.01	0.26								
5																								
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24																								
27																								
32																							0.28	1.23
																	0.34	1.48						
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105																								

PTE-RULE HAPs

EP ID	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
109																								
113																								
115																								
116	1.09	4.37																						
118																								
119																								
120																								
121																								
124																								
130																								
149																								
153																								
155																								
160	1.27	5.55																						
161	0.82	3.60															0.00	0.00						
162	1.04	4.54																						
164																								
165																								
166																								
167																								
169																								
170																								
171																								
173																								
174																								
175																								
176																								
177																								
210																			0.00	0.00	0.00	0.01		
230																								
240																								
245																								
246																								
247																								
248																								
249																								
250																								
251																								
252																								
254																								
255																								
258																			0.00	0.002839	0.00	0.01		
260																								
262																								
263																								
265																								
266																								
267																								
268																								
269																								
300																								
320																	0.38	1.66						
330																								
340																								
350																								
360																								
370																								
380																								
390																								
410																								

PTE-RULE HAPs

EP ID	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
450																								
452																								
453																								
454																								
516																								

PTE-EF HAPs

Cargill, Incorporated					Hours of Operation	8760	Minor	Significant	Major																			
EIQ# 92-9020	Facility # 57-01-004				lbs/ton	2000	POTENTIALS (TONS/YEAR) - HAZARDOUS AIR POLLUTANTS																					
EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	Total HAP	EF	ACEHY	EF	MTNOL	EF	FORM	EF	ACRLE	EF	HXNE	EF	CHLFO	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF
					FACILITYWIDE TOTALS:	103.31		11.93		4.31		3.64		1.83		4.32		45.78		14.07		0.63		4.99		6.41	
1	EU-1	#3 Starch Flash Dryer	65296	15	TPH	0.21	0.02	0.08	0.03	0.13																	
	EU-1A	#3 Starch Flash Dryer		15	TPH	60.38	0.04	1.84			0.05	2.68					0.78	41.00			0.01	0.63	0.10	4.99	0.12	6.41	0.00
5	EU-5	Bulk Soda Ash Loadout	1120	24	TPH																						
6	EU-6	#5 Starch Bulk Storage Bin	1776	12.5	TPH	0.01	0.00	0.00	0.00	0.01																	
8	EU-8	#7 Starch Bulk Storage Bin	1783	12.5	TPH	0.01	0.00	0.00	0.00	0.01																	
9	EU-9	C* Starch Bin #8	1783	7	TPH	0.01	0.00	0.00	0.00	0.01																	
11	EU-11	Corn Truck Unload	10263	600	TPH																						
12	EU-12	Gluten Sizing System	4425	9.375	TPH	0.56	0.08	0.35	0.05	0.21																	
13	EU-13A	Truck Gluten/Germ Loadout	43239	135	TPH	3.78	0.80	2.34	0.49	1.44																	
	EU-13B	Rail Gluten Loadout		135	TPH																						
14	EU-14A	Gluten Scale	4441	135	TPH	0.37	0.08	0.23	0.05	0.14																	
	EU-14B	Gluten Conveying		135	TPH																						
15	EU-15	East Germ Bin	1012	7.5	TPH	0.04	0.01	0.04																			
16	EU-16	West Germ Bin	1012	7.5	TPH	0.04	0.01	0.04																			
17	EU-17	West Gluten Bin	1137	7.5	TPH	0.14	0.02	0.09	0.01	0.05																	
20	EU-20A	Germ Dryer Burner	26079	0.037	MMcf/hr	0.09	3.00	0.08	0.39	0.01	0.09	0.00	0.12	0.00													
	EU-20BNEW	Gluten Steam Tube Dryer - new		5	TPH																						
	EU-20C	Germ Dryer Sections 1-4		8	TPH																						
	EU-20D	Waste Gas Steepwater Evaporator		4500	BU/hr																						
	EU-20F	Bran Dewatering System		10.1	TPH																						
23	20A	Germ Dryer Burner	17758	0.037	MMcf/hr	0.17	3.00	0.15	0.39	0.02	0.09	0.00	0.12	0.01													
	20C	Germ Dryer Sections 1-4		8	TPH																						
24	24	Precoat Bin From Railcar	800	6.67	TPH																						
27	EU-27	#3 Starch Bulk Storage Bin	996	12.5	TPH	0.01	0.00	0.00	0.00	0.00																	
32	EU-32A	Carbon Furnace	2800	0.75	TPH	1.32	0.02	0.07	0.00	0.01	0.00	0.02	0.00	0.00													
	EU-32B	Carbon Furnace Burner		0.03	MMcf/hr																						
33	EU-33A	HCL Tank A	1476	1123	Gallons	1.60	0.01	0.06	0.01	0.04	0.00	0.02															
	EU-33B	HCL Tank B		1123	Gallons																						
	EU-33C	Acid Storage Tank		19500	Gallons																						
	EU-33D	Acid Head Tank		470	Gallons																						
	EU-33E	Acidification Tank		375	Gallons																						
	EU-33F	Converter Feed Tank		2880	Gallons																						
	EU-33G	Carbon Column Feed Tank		2800	Gallons																						
37	EU-37	Corn Cleaning & Conveying Aspiration	14699	8000	Bu/hr																						
40	EU-40A	Mill Aspiration System	7486	110000	BPD	0.86	0.18	0.80			0.01	0.06															
	EU-40B	Gluten Tank																									
	EU-40C	Clarifier Feed Tank																									
	EU-40D	Primary Feed Tank																									
	EU-40E	Clarifiers																									
	EU-40F	MST Feed Tank																									
	EU-40G	Millwater Tank																									
41	EU-41	Steep Tanks	24259	110000	BPD	1.75	0.13	0.57	0.25	1.10	0.02	0.09	0.02	0.09													
43	EU-43	Vacuum Cleaner Vent--Starch Area (East)	550	10	TPH	0.00	0.00	0.00	0.00	0.00																	
51	EU-51A	50 Pound Bagger	9948	5	TPH	0.02	0.00	0.01	0.00	0.01																	
	EU-51B	Industrial Starch Super Sacker		8	TPH																						
	EU-51C	Food Starch Super Sacker		5	TPH																						
	EU-51D	A/B Bins		6	TPH																						
52	EU-52	#1 Starch Bulk Storage Bin	996	12.5	TPH	0.01	0.00	0.00	0.00	0.00																	
58	EU-58	Starch Truck Loadout	4078	7.008	TPH	0.01	0.00	0.00	0.00	0.00																	
61	EU-61A	Modifiation Tank 4	1125	30000	Gallons	0.34											0.08	0.34									
	EU-61B	Modification Tank 5		30000	Gallons																						
	EU-61C	Modification Tank 6		30000	Gallons																						
	EU-61D	Modification Tank 7		45000	Gallons																						
	EU-61E	Modification Tank 8		45000	Gallons																						
65	EU-65	Starch Rail Loadout	2002	18.173	TPH	0.00	0.00	0.00	0.00	0.00																	
68	EU-68	Cracked Corn Hammermill	1307	7.66	TPH																						
70	EU-70A	Starch Modification Tank 1	1344	24	TPH	0.41											0.09	0.41									
	EU-70B	Starch Modification Tank 2																									
	EU-70C	Starch Washer 1																									
	EU-70D	Starch Washer 2																									
	EU-70E	Soda Ash Storage Tank 3																									
	EU-IU-544	SBS Tank Starch		5100	Gallons																						
71	EU-71A	Starch Modification Tank 9	3525	50000	Gallons	0.22			0.01	0.04							0.04	0.18									
	EU-71B	Starch Modification Tank 10		50000	Gallons																						
	EU-71C	Starch Modification Tank 12		50000	Gallons																						
	EU-71D	Starch Modification Tank 14		125000	Gallons																						
	EU-71E	Starch Modification Tank 15		125000	Gallons																						
	EU-71F	Starch Modification Tank 16		125000	Gallons																						
	EU-71G	Starch Modification Tank 17		125000	Gallons																						
79	EU-79	Industrial Starch Loadout	4581	80	TPH																						
85	EU-85	#10 Starch Bulk Storage Bin	1784	14	TPH	0.33	0.02	0.07	0.00	0.01							0.06	0.26									
	EU-90	Starch Flash Dryer #4		16	TPH	0.02	0.00	0.01	0.00	0.01																	

PTE-EF HAPs

Cargill, Incorpora															
EIQ# 92-9020															
EP ID	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
	0.16		**0.79**		**1.63**		**0.26**		**3.15**		**0.01**		**0.02**		**1.23**
1	0.16	0.02	0.79	0.03	1.63	0.01	0.26								
5															
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15															
16															
17															
20															
23															
24															
27															
32														0.28	1.23
33								0.34	1.49						
37															
40															
41															
43															
51															
52															
58															
61															
65															
68															
70															
71															
79															
85															

PTE-EF HAPs

EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	Total HAP	EF	ACEHY	EF	MTNOL	EF	FORM	EF	ACRLE	EF	HXNE	EF	CHLFO	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF
90	EU-90A	Starch Flash Dryer #4 Burner	77155	16	TPH																						
91	EU-91	#11 Industrial Starch Storage Bin	1489	14	TPH																						
92	EU-92	#12 Industrial Starch Storage Bin	1815	14	TPH																						
93	EU-93	#13 Industrial Starch Storage Bin	1815	14	TPH																						
94	EU-94	#18 Industrial Starch Storage Bin	852	7	TPH																						
95	EU-95	Starch Surge Bin	441	14	TPH																						
100	EU-100	224 MMBtu Gas Boiler	45749	0.2183	MMcf/hr	1.79					0.08	0.07			1.80	1.72											
101	EU-101	#2 Gas Boiler	56813	0.27	MMcf/hr	2.22					0.08	0.09			1.80	2.13											
102	EU-102	#14 Industrial Starch Storage Bin	883	14	TPH																						
103	EU-103	C* Film Vertical Bin #15	852	7	TPH																						
104	EU-104	#16 Industrial Starch Storage Bin	900	14	TPH																						
105	EU-105	#17 Industrial Starch Storage Bin	900	14	TPH																						
109	EU-109A	Gluten Filter Aspiration	15702	110000	bushels/day	0.15	0.04	0.15																			
	EU-20F	Bran Dewatering System		10.1	TPH																						
113	EU-113	Germ Dryer Section 5	14189	8	TPH	0.02	0.54	0.01	0.07	0.00	0.02	0.00	0.06	0.00													
	EU-113B	Germ Dryer Burner		0.04	MMcf/hr	0.03	0.54	0.03	0.07	0.00	0.02	0.00	0.06	0.00													
115	EU-115	Specialty Starch Bulk Truck Loadout	412	14	TPH	0.00	0.00	0.00	0.00	0.00																	
116	EU-116A	Starch Spray Dryer #5	42104	2	TPH	4.08	0.12	0.48	0.05	0.20	0.03	0.12	0.17	0.68					0.82	3.28							
	EU-116B	Starch Spray Dryer #5 Burner		0.01765	MMcf/hr	0.13									1.80	0.13											
118	EU-118	Salt Storage Bin	1100	12.5	TPH																						
119	EU-119	#19 Starch Bulk Storage Bin	600	2	TPH	0.00	0.00	0.00	0.00	0.00																	
120	EU-120	#20 Starch Bulk Storage Bin	600	2	TPH	0.00	0.00	0.00	0.00	0.00																	
121	EU-121	#21 Starch Bulk Storage Bin	600	2	TPH	0.00	0.00	0.00	0.00	0.00																	
124	EU-124	Packer Hopper Vent	300	20	TPH	0.00	0.00	0.00	0.00	0.00																	
130	EU-130	Corn Silos 1-4	464	600	TPH																						
149	EU-149	Starch Bulk Bagger	1500	15	TPH	0.01	0.00	0.00	0.00	0.01																	
153	EU-153	Sodium Sulfate Receiving	500	12.5	TPH																						
155	EU-155	Industrial Grade Starch Packer/Blower	2764	20	TPH																						
160	EU-160A	PO Storage	1000	12.1	TPH	5.74	0.01	0.03	0.04	0.16	0.00	0.00							1.27	5.55							
	EU-160C	Reactor #131																									
	EU-160D	Reactor #132																									
	EU-160E	Reactor #134																									
	EU-160F	Reactor #135																									
	EU-160H	Stripper #2																									
161	EU-161A	POCL3 Storage	1407	12.1	TPH	2.82	0.00	0.01	0.00	0.02									0.64	2.79							
	EU-161B	H2SO4 Storage Tank		1200	Gallons																						
	EU-161C	Deactivation Tank		50	Gallons																						
	EU-161D	Modification Tank #101		12.1	TPH																						
	EU-161E	Modification Tank #102		12.1	TPH																						
	EU-161F	Modification Tank #103		12.1	TPH																						
	EU-161G	Modification Tank #104		12.1	TPH																						
	EU-161H	nOSA Tank		7000	Gallons																						
	EU-161I	Modification Tank #105		55000	Gallons																						
162	EU-162A	Flash Dryer #6	55100	10.1	TPH	3.77	0.16	0.70	0.06	0.26	0.08	0.35	0.21	0.92					0.56	2.46							
	EU-162B	Flash Dryer #6 Burner		0.01794	MMcf/hr	0.14									1.80	0.14											
164	EU-164	Starch Storage Bin #104	800	9	TPH	0.00	0.00	0.00	0.00	0.00																	
165	EU-165	Starch Storage Bin #105	800	9	TPH	0.00	0.00	0.00	0.00	0.00																	
166	EU-166	Starch Storage Bin #106	800	9	TPH	0.00	0.00	0.00	0.00	0.00																	
167	EU-167	Specialty Starch Storage Bin #107	1200	10	TPH	0.01	0.00	0.00	0.00	0.00																	
169	EU-169	Specialty Starch Storage Bin #109	1200	10	TPH	0.01	0.00	0.00	0.00	0.00																	
170	EU-170	Warehouse Receiver	1506	12.5	TPH	0.00	0.00	0.00	0.00	0.00																	
171	EU-171	Starch Storage Bin 108	1465	17.5	TPH	0.00	0.00	0.00	0.00	0.00																	
173	EU-173A	Starch Packer	15057	12.5	TPH	0.02	0.00	0.01	0.00	0.01																	
	EU-173B	Super Sacker																									
	EU-173C	Cleanup Vacuum																									
174	EU-174	Starch Grinder Discharge Receiver	1011	12.5	TPH	0.00	0.00	0.00	0.00	0.00																	
175	EU-175	Starch Warehouse Vacuum Receiver	300	12.5	TPH	0.00	0.00	0.00	0.00	0.00																	
176	EU-176A	Waxy Corn Silo #1	3000	75000	Bushels																						
	EU-176B	Waxy Corn Silo #2		75000	Bushels																						
177	EU-177	Grain Receiving Pit	10000	10000	Bu/hr																						
210	EU-210	500 kW Emergency Engine	1471	36.3	GPH	0.01	0.00	0.00			0.00	0.00															
230	EU-230	Cracked Corn Conveying	598	20	TPH																						
240	EU-240	Starch Reslurry System	1250	5	TPH	0.01	0.00	0.00	0.00	0.00																	
245	EU-245	East Gluten Bin	1137	18	TPH	0.14	0.02	0.09	0.01	0.05																	
246	EU-246	Dry Gluten Receiver	884	7.5	TPH	0.11	0.02	0.07	0.01	0.04																	
247	EU-247	Wet Feed Loadout	22	45	TPH	0.00	0.00	0.00	0.00	0.00																	
248	EU-248	Starch Slurry Tank #6	242	500000	TPH	0.00	0.00	0.00	0.00	0.00																	
249	EU-249	East Gluten Filter Vacuum Pump	1021	2000	ft3/hr	0.06	0.01	0.06																			
250	EU-250	Middle Gluten Filter Vacuum Pump	878	2000	ft3/hr	0.06	0.01	0.06																			

PTE-EF HAPs

EP ID	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
90															
91															
92															
93															
94															
95															
100															
101															
102															
103															
104															
105															
109															
113															
115															
116															
118															
119															
120															
121															
124															
130															
149															
153															
155															
160															
161															
162															
164															
165															
166															
167															
169															
170															
171															
173															
174															
175															
176															
177															
210											0.00	0.00	0.00	0.01	
230															
240															
245															
246															
247															
248															
249															
250															

PTE-EF HAPs

EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	Total HAP	EF	ACEHY	EF	MTNOL	EF	FORM	EF	ACRLE	EF	HXNE	EF	CHLFO	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF
251	EU-251	West Gluten Filter Vacuum Pump	1216	2000	ft3/hr	0.06	0.01	0.06																			
252	EU-252	Starch Slurry Tank #7	80	850000	Gallons	0.00	0.00	0.00	0.00	0.00																	
254	EU-254	Starch Slurry Tank #5	351	500000	Gallons	0.01	0.00	0.01	0.00	0.00																	
255	EU-255A	Rail Germ Loadout	903	135	TPH	0.04	0.01	0.04																			
	EU-255B	Germ Conveying		135	TPH																						
258	EU-258	500 kW Non-Emergency Engine	1452	36.6	GPH	0.01	0.00	0.00			0.00	0.00															
260	EU-260	East Dilute Phase Pot	1004	12	TPH	0.01	0.00	0.00	0.00	0.00																	
262	EU-262	West Dilute Phase Pot	1004	12	TPH	0.01	0.00	0.00	0.00	0.00																	
263	EU-263	Elevator Tunnel Vacuum Filter	1887	141000	cubic feet/hour																						
265	EU-265	West Dilute Supersack Receiver	1385	30000	lbs/hr																						
266	EU-266	West Dense Supersack Receiver	640	30000	lbs/hr																						
267	EU-267	West Supersack Vacuum System	690	30000	lbs/hr																						
268	EU-268	West Dilute Supersack Surge Bin	20	120	cubic feet/hour																						
269	EU-269	West Dense Supersack Surge Bin	20	120	cubic feet/hour																						
300	EU-300	C* Fim Starch Receiving Filter	622	7	TPH	0.11	0.01	0.02			0.00	0.00					0.02	0.09									
	EU-301WF	Weight Feeder		7	TPH																						
320	EU-320	Starch Dryer	8594	7	TPH	5.59	0.18	0.81			0.01	0.03					0.70	3.09									
	EU-310SH	Starch Hopper		7	TPH																						
330	EU-330	Modified Starch Receiving Filter	611	7	TPH	0.11	0.01	0.02			0.00	0.00					0.02	0.09									
340	EU-340	Sifter	128	7	TPH	0.02	0.00	0.00			0.00	0.00					0.00	0.02									
350	EU-350	Product Hopper	296	7	TPH	0.05	0.00	0.01			0.00	0.00					0.01	0.04									
360	EU-360	Product Receiving Filter	216	7	TPH	0.04	0.00	0.01			0.00	0.00					0.01	0.03									
370	EU-370	C* Film Loadout Surge Hopper	1594	5	TPH	0.29	0.01	0.06			0.00	0.00					0.05	0.23									
380	EU-380	C* Cooling Tower	100250	400	gallons/minute																						
390	EU-390	Food Starch Sifter	1162	19	TPH	0.01	0.00	0.00	0.00	0.00																	
410	EU-20A	Germ Dryer Burner	41569	0.04	MMcf/hr	2.41	0.47	2.06	0.06	0.26	0.02	0.09	0.02	0.09													
	EU-20BNEW	Gluten Steam Tube Dryer - new		5	TPH																						
	EU-20C	Germ Dryer Sections 1-4		8	TPH																						
	EU-20D	Waste Gas Steepwater Evaporator		4500	BPH																						
	EU-20F	Bran Dewatering System		10.1	TPH																						
	EU-113	Germ Dryer Section 5		8	TPH																						
	EU-113B	Germ Dryer Burner		0.04	Mmcf/hr																						
	EU-410	RTO Burner		0.018	Mmcf/hr	0.15					0.08	0.01			1.80	0.14											
450	EU-450	Starch Slurry Tank #8	1405	600000	Gallons																						
	EU-180	Turbilizer		--	--																						
	EU-181	Merco O/F Tank		3000	Gallons																						
	EU-182	Mod Tank #101		30000	Gallons																						
	EU-183	Deactivation Tank		1000	Gallons																						
	EU-184	Wash Merco Feed Tank		3000	Gallons																						
	EU-185	Merco 36		--	--																						
452	EU-452	Starch Centrifuge	847	15	TPH	0.24	0.06	0.24					0.01	0.03													
453	EU-1A, 1B, 1C	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper	1069	15	TPH																						
454	EU-90A, 90B, 90C	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper	1628	16	TPH																						
516	EU-516	Refinery Loadout Boiler	8368	0.00817	MMcf/hr	0.07					0.08	0.00			1.80	0.06											

PTE-EF HAPs

EP ID	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
251															
252															
254															
255															
258										0.00	0.00	0.00	0.01		
260															
262															
263															
265															
266															
267															
268															
269															
300															
320								0.38	1.66						
330															
340															
350															
360															
370															
380															
390															
410															
450															
452															
453															
454															
516															

PTE-UNCONTROLLED HAPs

Cargill, Incorporated					Hours of Operation	8760	Minor	Significant	Major									
EIQ# 92-9020	Facility # 57-01-004				lbs/ton	2000												
EP ID	**EU ID**	**EU Description**	**SCFM**	**Rated Capacity**	**Capacity Units**	**Total HAP**	**EF**	**ACEHY**	**EF**	**MTNOL**	**EF**	**FORM**	**EF**	**ACRLE**	**EF**	**HXNE**	**EF**	**CHLFO**
					FACILITYWIDE TOTALS:	**214.58**		**56.04**		**12.47**		**6.05**		**3.77**		**4.32**		**45.78**
1	EU-1	#3 Starch Flash Dryer	65296	15	TPH	0.21	0.02	0.08	0.03	0.13								
	EU-1A	#3 Starch Flash Dryer		15	TPH	60.38	0.04	1.84			0.05	2.68					0.78	41.00
5	EU-5	Bulk Soda Ash Loadout	1120	24	TPH													
6	EU-6	#5 Starch Bulk Storage Bin	1776	12.5	TPH	0.01	0.00	0.00	0.00	0.01								
8	EU-8	#7 Starch Bulk Storage Bin	1783	12.5	TPH	0.01	0.00	0.00	0.00	0.01								
9	EU-9	C* Starch Bin #8	1783	7	TPH	0.01	0.00	0.00	0.00	0.01								
11	EU-11	Corn Truck Unload	10263	600	TPH													
12	EU-12	Gluten Sizing System	4425	9.375	TPH	0.56	0.08	0.35	0.05	0.21								
13	EU-13A	Truck Gluten/Germ Loadout	43239	135	TPH	3.78	0.80	2.34	0.49	1.44								
	EU-13B	Rail Gluten Loadout		135	TPH													
14	EU-14A	Gluten Scale	4441	135	TPH	0.37	0.08	0.23	0.05	0.14								
	EU-14B	Gluten Conveying		135	TPH													
15	EU-15	East Germ Bin	1012	7.5	TPH	0.04	0.01	0.04										
16	EU-16	West Germ Bin	1012	7.5	TPH	0.04	0.01	0.04										
17	EU-17	West Gluten Bin	1137	7.5	TPH	0.14	0.02	0.09	0.01	0.05								
20	EU-20A	Germ Dryer Burner	26079	0.037	MMcf/hr	0.09	3.00	0.08	0.39	0.01	0.09	0.00	0.12	0.00				
	EU-20BNEW	Gluten Steam Tube Dryer - new		5	TPH													
	EU-20C	Germ Dryer Sections 1-4		8	TPH													
	EU-20D	Waste Gas Steepwater Evaporator		4500	BU/hr													
	EU-20F	Bran Dewatering System		10.1	TPH													
23	20A	Germ Dryer Burner	17758	0.037	MMcf/hr	0.17	3.00	0.15	0.39	0.02	0.09	0.00	0.12	0.01				
	20C	Germ Dryer Sections 1-4		8	TPH													
24	24	Precoat Bin From Railcar	800	6.67	TPH													
27	EU-27	#3 Starch Bulk Storage Bin	996	12.5	TPH	0.01	0.00	0.00	0.00	0.00								
32	EU-32A	Carbon Furnace	2800	0.75	TPH	26.38		1.35	0.00	0.13	0.00	0.37	0.00	0.08				
	EU-32B	Carbon Furnace Burner		0.03	MMcf/hr													
33	EU-33A	HCL Tank A	1476	1123	Gallons	15.26	0.01	0.19	0.01	0.12	0.00	0.06						
	EU-33B	HCL Tank B		1123	Gallons													
	EU-33C	Acid Storage Tank		19500	Gallons													
	EU-33D	Acid Head Tank		470	Gallons													
	EU-33E	Acidification Tank		375	Gallons													
	EU-33F	Converter Feed Tank		2880	Gallons													
	EU-33G	Carbon Column Feed Tank		2800	Gallons													
37	EU-37	Corn Cleaning & Conveying Aspiration	14699	8000	Bu/hr													
40	EU-40A	Mill Aspiration System	7486	110000	BPD	2.88	0.18	2.68			0.01	0.20						
	EU-40B	Gluten Tank																
	EU-40C	Clarifier Feed Tank																
	EU-40D	Primary Feed Tank																
	EU-40E	Clarifiers																
	EU-40F	MST Feed Tank																
	EU-40G	Millwater Tank																
41	EU-41	Steep Tanks	24259	110000	BPD	5.84	0.13	1.90	0.25	3.65	0.02	0.29	0.02	0.29				
43	EU-43	Vacuum Cleaner Vent--Starch Area (East)	550	10	TPH	0.00	0.00	0.00	0.00	0.00								
51	EU-51A	50 Pound Bagger	9948	5	TPH	0.02	0.00	0.01	0.00	0.01								
	EU-51B	Industrial Starch Super Sacker		8	TPH													
	EU-51C	Food Starch Super Sacker		5	TPH													
	EU-51D	A/B Bins		6	TPH													
52	EU-52	#1 Starch Bulk Storage Bin	996	12.5	TPH	0.01	0.00	0.00	0.00	0.00								
58	EU-58	Starch Truck Loadout	4078	7.008	TPH	0.01	0.00	0.00	0.00	0.00								
61	EU-61A	Modifiation Tank 4	1125	30000	Gallons	0.34											0.08	0.34
	EU-61B	Modification Tank 5		30000	Gallons													
	EU-61C	Modification Tank 6		30000	Gallons													
	EU-61D	Modification Tank 7		45000	Gallons													
	EU-61E	Modification Tank 8		45000	Gallons													
65	EU-65	Starch Rail Loadout	2002	18.173	TPH	0.00	0.00	0.00	0.00	0.00								
68	EU-68	Cracked Corn Hammermill	1307	7.66	TPH													
70	EU-70A	Starch Modification Tank 1	1344	24	TPH	0.41											0.09	0.41
	EU-70B	Starch Modification Tank 2																
	EU-70C	Starch Washer 1																
	EU-70D	Starch Washer 2																
	EU-70E	Soda Ash Storage Tank 3																
	EU-IU-544	SBS Tank Starch		5100	Gallons													
71	EU-71A	Starch Modification Tank 9	3525	50000	Gallons	0.22			0.01	0.04							0.04	0.18
	EU-71B	Starch Modification Tank 10		50000	Gallons													
	EU-71C	Starch Modification Tank 12		50000	Gallons													
	EU-71D	Starch Modification Tank 14		125000	Gallons													
	EU-71E	Starch Modification Tank 15		125000	Gallons													
	EU-71F	Starch Modification Tank 16		125000	Gallons													
	EU-71G	Starch Modification Tank 17		125000	Gallons													
79	EU-79	Industrial Starch Loadout	4581	80	TPH													
85	EU-85	#10 Starch Bulk Storage Bin	1784	14	TPH	0.33	0.02	0.07	0.00	0.01							0.06	0.26
90	EU-90	Starch Flash Dryer #4	77155	16	TPH	0.02	0.00	0.01	0.00	0.01								
	EU-90A	Starch Flash Dryer #4 Burner		16	TPH													
91	EU-91	#11 Industrial Starch Storage Bin	1489	14	TPH													
92	EU-92	#12 Industrial Starch Storage Bin	1815	14	TPH													
93	EU-93	#13 Industrial Starch Storage Bin	1815	14	TPH													
94	EU-94	#18 Industrial Starch Storage Bin	852	7	TPH													
95	EU-95	Starch Surge Bin	441	14	TPH													

PTE-UNCONTROLLED HAPs

EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	Total HAP	EF	ACEHY	EF	MTNOL	EF	FORM	EF	ACRLE	EF	HXNE	EF	CHLFO
100	EU-100	224 MMBtu Gas Boiler	45749	0.2183	MMcf/hr	1.79					0.08	0.07			1.80	1.72		
101	EU-101	#2 Gas Boiler	56813	0.27	MMcf/hr	2.22					0.08	0.09			1.80	2.13		
102	EU-102	#14 Industrial Starch Storage Bin	883	14	TPH													
103	EU-103	C* Film Vertical Bin #15	852	7	TPH													
104	EU-104	#16 Industrial Starch Storage Bin	900	14	TPH													
105	EU-105	#17 Industrial Starch Storage Bin	900	14	TPH													
109	EU-109A	Gluten Filter Aspiration	15702	110000	bushels/day	0.51	0.04	0.51										
	EU-20F	Bran Dewatering System		10.1	TPH													
113	EU-113	Germ Dryer Section 5	14189	8	TPH	0.02	0.54	0.01	0.07	0.00	0.02	0.00	0.06	0.00				
	EU-113B	Germ Dryer Burner		0.04	MMcf/hr	0.03	0.54	0.03	0.07	0.00	0.02	0.00	0.06	0.00				
115	EU-115	Specialty Starch Bulk Truck Loadout	412	14	TPH	0.00	0.00	0.00	0.00	0.00								
116	EU-116A	Starch Spray Dryer #5	42104	2	TPH	4.08	0.12	0.48	0.05	0.20	0.03	0.12	0.17	0.68				
	EU-116B	Starch Spray Dryer #5 Burner		0.01765	MMcf/hr	0.13									1.80	0.13		
118	EU-118	Salt Storage Bin	1100	12.5	TPH													
119	EU-119	#19 Starch Bulk Storage Bin	600	2	TPH	0.00	0.00	0.00	0.00	0.00								
120	EU-120	#20 Starch Bulk Storage Bin	600	2	TPH	0.00	0.00	0.00	0.00	0.00								
121	EU-121	#21 Starch Bulk Storage Bin	600	2	TPH	0.00	0.00	0.00	0.00	0.00								
124	EU-124	Packer Hopper Vent	300	20	TPH	0.00	0.00	0.00	0.00	0.00								
130	EU-130	Corn Silos 1-4	464	600	TPH													
149	EU-149	Starch Bulk Bagger	1500	15	TPH	0.01	0.00	0.00	0.00	0.01								
153	EU-153	Sodium Sulfate Receiving	500	12.5	TPH													
155	EU-155	Industrial Grade Starch Packer/Blower	2764	20	TPH													
160	EU-160A	PO Storage	1000	12.1	TPH	19.05	0.01	0.03	0.04	0.53	0.00	0.01						
	EU-160C	Reactor #131																
	EU-160D	Reactor #132																
	EU-160E	Reactor #134																
	EU-160F	Reactor #135																
	EU-160H	Stripper #2																
161	EU-161A	POCL3 Storage	1407	12.1	TPH	9.40	0.00	0.04	0.00	0.06								
	EU-161B	H2SO4 Storage Tank		1200	Gallons													
	EU-161C	Deactivation Tank		50	Gallons													
	EU-161D	Modification Tank #101		12.1	TPH													
	EU-161E	Modification Tank #102		12.1	TPH													
	EU-161F	Modification Tank #103		12.1	TPH													
	EU-161G	Modification Tank #104		12.1	TPH													
	EU-161H	nOSA Tank		7000	Gallons													
	EU-161I	Modification Tank #105		55000	Gallons													
162	EU-162A	Flash Dryer #6	55100	10.1	TPH	3.77	0.16	0.70	0.06	0.26	0.08	0.35	0.21	0.92				
	EU-162B	Flash Dryer #6 Burner		0.01794	MMcf/hr	0.14									1.80	0.14		
164	EU-164	Starch Storage Bin #104	800	9	TPH	0.00	0.00	0.00	0.00	0.00								
165	EU-165	Starch Storage Bin #105	800	9	TPH	0.00	0.00	0.00	0.00	0.00								
166	EU-166	Starch Storage Bin #106	800	9	TPH	0.00	0.00	0.00	0.00	0.00								
167	EU-167	Specialty Starch Storage Bin #107	1200	10	TPH	0.01	0.00	0.00	0.00	0.00								
169	EU-169	Specialty Starch Storage Bin #109	1200	10	TPH	0.01	0.00	0.00	0.00	0.00								
170	EU-170	Warehouse Receiver	1506	12.5	TPH	0.00	0.00	0.00	0.00	0.00								
171	EU-171	Starch Storage Bin 108	1465	17.5	TPH	0.00	0.00	0.00	0.00	0.00								
173	EU-173A	Starch Packer	15057	12.5	TPH	0.02	0.00	0.01	0.00	0.01								
	EU-173B	Super Sacker																
	EU-173C	Cleanup Vacuum																
174	EU-174	Starch Grinder Discharge Receiver	1011	12.5	TPH	0.00	0.00	0.00	0.00	0.00								
175	EU-175	Starch Warehouse Vacuum Receiver	300	12.5	TPH	0.00	0.00	0.00	0.00	0.00								
176	EU-176A	Waxy Corn Silo #1	3000	75000	Bushels													
	EU-176B	Waxy Corn Silo #2		75000	Bushels													
177	EU-177	Grain Receiving Pit	10000	10000	Bu/hr													
210	EU-210	500 kW Emergency Engine	1471	36.3	GPH	0.01	0.00	0.00			0.00	0.00						
230	EU-230	Cracked Corn Conveying	598	20	TPH													
240	EU-240	Starch Reslurry System	1250	5	TPH	0.01	0.00	0.00	0.00	0.00								
245	EU-245	East Gluten Bin	1137	18	TPH	0.14	0.02	0.09	0.01	0.05								
246	EU-246	Dry Gluten Receiver	884	7.5	TPH	0.11	0.02	0.07	0.01	0.04								
247	EU-247	Wet Feed Loadout	22	45	TPH	0.00	0.00	0.00	0.00	0.00								
248	EU-248	Starch Slurry Tank #6	242	500000	TPH	0.00	0.00	0.00	0.00	0.00								
249	EU-249	East Gluten Filter Vacuum Pump	1021	2000	ft3/hr	0.06	0.01	0.06										
250	EU-250	Middle Gluten Filter Vacuum Pump	878	2000	ft3/hr	0.06	0.01	0.06										
251	EU-251	West Gluten Filter Vacuum Pump	1216	2000	ft3/hr	0.06	0.01	0.06										
252	EU-252	Starch Slurry Tank #7	80	850000	Gallons	0.00	0.00	0.00	0.00	0.00								
254	EU-254	Starch Slurry Tank #5	351	500000	Gallons	0.01	0.00	0.01	0.00	0.00								
255	EU-255A	Rail Germ Loadout	903	135	TPH	0.04	0.01	0.04										
	EU-255B	Germ Conveying		135	TPH													
258	EU-258	500 kW Non-Emergency Engine	1452	36.6	GPH	0.01	0.00	0.00			0.00	0.00						
260	EU-260	East Dilute Phase Pot	1004	12	TPH	0.01	0.00	0.00	0.00	0.00								
262	EU-262	West Dilute Phase Pot	1004	12	TPH	0.01	0.00	0.00	0.00	0.00								
263	EU-263	Elevator Tunnel Vacuum Filter	1887	141000	cubic feet/hour													
265	EU-265	West Dilute Supersack Receiver	1385	30000	lbs/hr													

PTE-UNCONTROLLED HAPs

EP ID	EU ID	EU Description	SCFM	Rated Capacity	Capacity Units	Total HAP	EF	ACEHY	EF	MTNOL	EF	FORM	EF	ACRLE	EF	HXNE	EF	CHLFO
266	EU-266	West Dense Supersack Receiver	640	30000	lbs/hr													
267	EU-267	West Supersack Vacuum System	690	30000	lbs/hr													
268	EU-268	West Dilute Supersack Surge Bin	20	120	cubic feet/hour													
269	EU-269	West Dense Supersack Surge Bin	20	120	cubic feet/hour													
300	EU-300	C* Fim Starch Receiving Filter	622	7	TPH	0.11	0.01	0.02			0.00	0.00					0.02	0.09
	EU-301WF	Weight Feeder		7	TPH													
320	EU-320	Starch Dryer	8594	7	TPH	6.01	0.18	0.81			0.01	0.03					0.70	3.09
	EU-310SH	Starch Hopper		7	TPH													
330	EU-330	Modified Starch Receiving Filter	611	7	TPH	0.11	0.01	0.02			0.00	0.00					0.02	0.09
340	EU-340	Sifter	128	7	TPH	0.02	0.00	0.00			0.00	0.00					0.00	0.02
350	EU-350	Product Hopper	296	7	TPH	0.05	0.00	0.01			0.00	0.00					0.01	0.04
360	EU-360	Product Receiving Filter	216	7	TPH	0.04	0.00	0.01			0.00	0.00					0.01	0.03
370	EU-370	C* Film Loadout Surge Hopper	1594	5	TPH	0.29	0.01	0.06			0.00	0.00					0.05	0.23
380	EU-380	C* Cooling Tower	100250	400	gallons/minute													
390	EU-390	Food Starch Sifter	1162	19	TPH	0.01	0.00	0.00	0.00	0.00								
410	EU-20A	Germ Dryer Burner	41569	0.04	MMcf/hr	48.18	0.47	41.17	0.06	5.26	0.02	1.75	0.02	1.75				
	EU-20BNEW	Gluten Steam Tube Dryer - new		5	TPH													
	EU-20C	Germ Dryer Sections 1-4		8	TPH													
	EU-20D	Waste Gas Steepwater Evaporator		4500	BPH													
	EU-20F	Bran Dewatering System		10.1	TPH													
	EU-113	Germ Dryer Section 5		8	TPH													
	EU-113B	Germ Dryer Burner		0.04	Mmcf/hr													
	EU-410	RTO Burner		0.018	Mmcf/hr	0.15					0.08	0.01			1.80	0.14		
450	EU-450	Starch Slurry Tank #8	1405	600000	Gallons													
	EU-180	Turbilizer		--	--													
	EU-181	Merco O/F Tank		3000	Gallons													
	EU-182	Mod Tank #101		30000	Gallons													
	EU-183	Deactivation Tank		1000	Gallons													
	EU-184	Wash Merco Feed Tank		3000	Gallons													
	EU-185	Merco 36		--	--													
452	EU-452	Starch Centrifuge	847	15	TPH	0.24	0.06	0.24					0.01	0.03				
453	EU-1A, 1B, 1C	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper	1069	15	TPH													
454	EU-90A, 90B, 90C	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper	1628	16	TPH													
516	EU-516	Refinery Loadout Boiler	8368	0.00817	MMcf/hr	0.07					0.08	0.00			1.80	0.06		

PTE-UNCONTROLLED HAPs

Cargill, Incorpora																								
EIQ# 92-9020	POTENTIALS (TONS/YEAR) - HAZARDOUS AIR POLLUTANTS																							
EP ID	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
		33.52		**0.63**		**4.99**		**6.41**		**0.16**		**0.79**		**1.63**		**0.26**		**16.97**		**0.01**		**0.02**		**24.53**
1																								
			0.01	0.63	0.10	4.99	0.12	6.41	0.00	0.16	0.02	0.79	0.03	1.63	0.01	0.26								
5																								
6																								
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23																								
24																								
27																								
32																							0.28	24.53
																	0.34	14.89						
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PTE-UNCONTROLLED HAPs

EP ID	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
100																								
101																								
102																								
103																								
104																								
105																								
109																								
113																								
115																								
116	0.82	3.28																						
118																								
119																								
120																								
121																								
124																								
130																								
149																								
153																								
155																								
160	1.27	18.48																						
161	0.64	9.30																						
162	0.56	2.46																						
164																								
165																								
166																								
167																								
169																								
170																								
171																								
173																								
174																								
175																								
176																								
177																								
210																			0.00	0.00	0.00	0.01		
230																								
240																								
245																								
246																								
247																								
248																								
249																								
250																								
251																								
252																								
254																								
255																								
258																			0.00	0.00	0.00	0.01		
260																								
262																								
263																								
265																								

PTE-UNCONTROLLED HAPs

EP ID	EF	PROX	EF	ACRNI	EF	ACETR	EF	TCA	EF	TE112	EF	3CLET	EF	Tetrachloroethylene	EF	PRAL	EF	HCL	EF	TOLU	EF	BZ	EF	Hydrogen Cyanide
266																								
267																								
268																								
269																								
300																								
320																	0.38	2.08						
330																								
340																								
350																								
360																								
370																								
380																								
390																								
410																								
450																								
452																								
453																								
454																								
516																								

2023 Actuals

Cargill, Incorporated													
EIQ# 92-9020	Facility # 57-01-004												
EP ID	**EU ID**	**EU Description**	**Raw Material**	**Hours or Throughput**	**Units**	**EF**	**EF Units**	**EF Source**	**PM**	**EF**	**EF Units**	**EF Source**	**PM_{10}**
									40.49				**40.77**
1	EU-1	#3 Starch Flash Dryer	Starch	5699	hours	0.541	lb/hr	ST 6/2/2015	1.54	0.54	lb/hr	ST 6/2/2015	1.54
	EU-1A	#3 Starch Flash Dryer	Oxidized Starch	18541.63876	tons								
5	EU-5	Bulk Soda Ash Loadout	Sodium Carbonate	991.7	tons	0.0051	lb/ton	AP-42 8.12-3	0.00	0.01	lb/ton	AP-42 8.12-3	0.00
6	EU-6	#5 Starch Bulk Storage Bin	Starch	703	hours	0.076	lb/hr	EP 92 ST 11/92	0.03	0.08	lb/hr	EP 92 ST 11/92	0.03
8	EU-8	#7 Starch Bulk Storage Bin	Starch	842	hours	0.076	lb/hr	EP 92 ST 11/92	0.03	0.08	lb/hr	EP 92 ST 11/92	0.03
9	EU-9	C* Starch Bin #8	Starch	3132	hours	0.076	lb/hr	EP 92 ST 11/92	0.12	0.08	lb/hr	EP 92 ST 11/92	0.12
11	EU-11	Corn Truck Unload	Corn	2207	hours	0.0537	lb/hr	ST 6/9/10	0.06	0.05	lb/hr	ST 6/9/10	0.06
12	EU-12	Gluten Sizing System	Gluten	8211	hours	0.19	lb/hr	12 ST Eddyville 8	0.78	0.19	lb/hr	2 ST Eddyville	0.78
13	EU-13A	Truck Gluten/Germ Loadout	Gluten & Germ	1190	hours	1.49	lb/hr	ST 1/23/09	0.89	1.49	lb/hr	ST 1/23/09	0.89
	EU-13B	Rail Gluten Loadout	Gluten										
14	EU-14A	Gluten Scale	Gluten & Germ	607	hours	0.09	lb/hr	ST 3/4/09	0.03	0.09	lb/hr	ST 3/4/09	0.03
	EU-14B	Gluten Conveying	Gluten										
15	EU-15	East Germ Bin	Germ	8246	hours	0.043	lb/hr	5 ST Eddyville 6/	0.18	0.04	lb/hr	ST Eddyville 6	0.18
16	EU-16	West Germ Bin	Germ	8571	hours	0.043	lb/hr	5 ST Eddyville 6/	0.18	0.04	lb/hr	ST Eddyville 6	0.18
17	EU-17	West Gluten Bin	Gluten	8629	hours	0.049	lb/hr	5 ST Eddyville 6/	0.21	0.05	lb/hr	ST Eddyville 6	0.21
20	EU-20A	Germ Dryer Burner	Natural Gas	1	hours	0.774	lb/hr	ST 8/13/14	0.00	0.77	lb/hr	ST 8/13/14	0.00
	EU-20BNEW	Gluten Steam Tube Dryer - new	Gluten										
	EU-20C	Germ Dryer Sections 1-4	Germ										
	EU-20D	Waste Gas Steepwater Evaporator	Steepwater										
	EU-20F	Bran Dewatering System	Bran										
23	20A	Germ Dryer Burner	Natural Gas	48	hours	0.774	lb/hr	ST 8/13/14	0.02	0.77	lb/hr	ST 8/13/14	0.02
	20C	Germ Dryer Sections 1-4	Germ										
24	24	Precoat Bin From Railcar	Other	0	hours								
27	EU-27	#3 Starch Bulk Storage Bin	Starch	736	hours	0.043	lb/hr	EP 92 ST 11/92	0.02	0.04	lb/hr	EP 92 ST 11/92	0.02
32	EU-32A	Carbon Furnace	Carbon	8139	hours	0.88	lb/hr	ST 4/20/01	3.58	0.88	lb/hr	ST 4/20/01	3.58
	EU-32B	Carbon Furnace Burner	Natural Gas										
33	EU-33A	HCL Tank A	HCl	8634	hours								
	EU-33B	HCL Tank B											
	EU-33C	Acid Storage Tank											
	EU-33D	Acid Head Tank											
	EU-33E	Acidification Tank											
	EU-33F	Converter Feed Tank											
	EU-33G	Carbon Column Feed Tank											
37	EU-37	Corn Cleaning & Conveying Aspiration	Corn	8666	hours	0.127	lb/hr	ST 1/12/10	0.55	0.13	lb/hr	ST 1/12/10	0.55
40	EU-40A	Mill Aspiration System	Corn	8662	hours								
	EU-40B	Gluten Tank											
	EU-40C	Clarifier Feed Tank											
	EU-40D	Primary Feed Tank											
	EU-40E	Clarifiers											
	EU-40F	MST Feed Tank											
	EU-40G	Millwater Tank											
41	EU-41	Steep Tanks	Corn	8655	hours	0.299	lb/hr	ST 6/02/15	1.29	0.30	lb/hr	ST 6/02/15	1.29
43	EU-43	Vacuum Cleaner Vent--Starch Area (East)	Starch	8760	hours	0.016	lb/hr	EP 173 ST 8/7/02	0.07	0.02	lb/hr	P 173 ST 8/7/0	0.07
51	EU-51A	50 Pound Bagger	Starch	8650	hours	0.141	lb/hr	ST 8/13-14/15	0.61	0.14	lb/hr	ST 8/13-14/15	0.61
	EU-51B	Industrial Starch Super Sacker											
	EU-51C	Food Starch Super Sacker											
	EU-51D	A/B Bins											
52	EU-52	#1 Starch Bulk Storage Bin	Starch	938	hours	0.043	lb/hr	EP 92 ST 11/92	0.02	0.04	lb/hr	EP 92 ST 11/92	0.02
58	EU-58	Starch Truck Loadout	Starch	399	hours	0.175	lb/hr	EP 173 ST 8/7/02	0.03	0.18	lb/hr	P 173 ST 8/7/0	0.03
	EU-61A	Modifiation Tank 4	Starch Slurry	8740	hours								
	EU-61B	Modification Tank 5											

2023 Actuals

EP ID	EU ID	EU Description	Raw Material	Hours or Throughput	Units	EF	EF Units	EF Source	PM	EF	EF Units	EF Source	PM_{10}
61	EU-61C	Modification Tank 6											
	EU-61D	Modification Tank 7											
	EU-61E	Modification Tank 8											
65	EU-65	Starch Rail Loadout	Starch	1210	hours	0.086	lb/hr	EP 173 ST 8/7/02	0.05	0.09	lb/hr	P 173 ST 8/7/0	0.05
68	EU-68	Cracked Corn Hammermill	Corn	7640	hours	0.034	lb/hr	ST 11/25/97	0.13	0.03	lb/hr	ST 11/25/97	0.13
70	EU-70A	Starch Modification Tank 1	Starch Slurry	8336	hours	0.287	lb/hr	0.025 gr/dscf	1.20	0.29	lb/hr	0.025 gr/dscf	1.20
	EU-70B	Starch Modification Tank 2											
	EU-70C	Starch Washer 1											
	EU-70D	Starch Washer 2											
	EU-70E	Soda Ash Storage Tank 3											
	EU-IU-544	SBS Tank Starch											
71	EU-71A	Starch Modification Tank 9	Starch Slurry	8653	hours	0.125	lb/hr	0.01 gr/dscf	0.54	0.13	lb/hr	0.01 gr/dscf	0.54
	EU-71B	Starch Modification Tank 10											
	EU-71C	Starch Modification Tank 12											
	EU-71D	Starch Modification Tank 14											
	EU-71E	Starch Modification Tank 15											
	EU-71F	Starch Modification Tank 16											
	EU-71G	Starch Modification Tank 17											
79	EU-79	Industrial Starch Loadout	Starch	2376	hours	0.041	lb/hr	ST 8/15	0.05	0.04	lb/hr	ST 8/15	0.05
85	EU-85	#10 Starch Bulk Storage Bin	Starch	180	hours	0.076	lb/hr	EP 92 ST 11/92	0.01	0.08	lb/hr	EP 92 ST 11/92	0.01
90	EU-90	Starch Flash Dryer #4	Starch	7193	hours	3.139	lb/hr	ST 10/1/19	11.29	3.14	lb/hr	ST 10/1/19	11.29
	EU-90A	Starch Flash Dryer #4 Burner	Oxidized Starch										
91	EU-91	#11 Industrial Starch Storage Bin	Starch	8472	hours	0.064	lb/hr	EP 92 ST 11/92	0.27	0.06	lb/hr	EP 92 ST 11/92	0.27
92	EU-92	#12 Industrial Starch Storage Bin	Starch	1813	hours	0.078	lb/hr	EP 92 ST 11/92	0.07	0.08	lb/hr	EP 92 ST 11/92	0.07
93	EU-93	#13 Industrial Starch Storage Bin	Starch	1384	hours	0.078	lb/hr	EP 92 ST 11/92	0.05	0.08	lb/hr	EP 92 ST 11/92	0.05
94	EU-94	#18 Industrial Starch Storage Bin	Starch	8187	hours	0.0365	lb/hr	EP 92 ST 11/92	0.15	0.04	lb/hr	EP 92 ST 11/92	0.15
95	EU-95	Starch Surge Bin	Starch	1649	hours	0.0189	lb/hr	EP 92 ST 11/92	0.02	0.02	lb/hr	EP 92 ST 11/92	0.02
100	EU-100	224 MMBtu Gas Boiler	Natural Gas	18.5	tons NOx								
				841	mmcf	0.52	lb/mmcf	P-42 EPA Rev She	0.22	0.52	lb/mmcf	42 EPA Rev Sh	0.22
101	EU-101	#2 Gas Boiler	Natural Gas	5888	hours	0.947	lb/hr	ST 4/7/10	2.79	0.95	lb/hr	ST 4/7/10	2.79
				455	mmcf								
102	EU-102	#14 Industrial Starch Storage Bin	Starch	8385	hours	0.0378	lb/hr	EP 92 ST 11/92	0.16	0.04	lb/hr	EP 92 ST 11/92	0.16
103	EU-103	C* Film Vertical Bin #15	Starch	696	hours	0.0365	lb/hr	EP 92 ST 11/92	0.01	0.04	lb/hr	EP 92 ST 11/92	0.01
104	EU-104	#16 Industrial Starch Storage Bin	Starch	8415	hours	0.039	lb/hr	EP 92 ST 11/92	0.16	0.04	lb/hr	EP 92 ST 11/92	0.16
105	EU-105	#17 Industrial Starch Storage Bin	Starch	8626	hours	0.039	lb/hr	EP 92 ST 11/92	0.17	0.04	lb/hr	EP 92 ST 11/92	0.17
109	EU-109A	Gluten Filter Aspiration	Gluten	8520	hours								
	EU-20F	Bran Dewatering System	Bran										
113	EU-113	Germ Dryer Section 5	Germ	47	hours	0.301	lb/hr	ST 8/13/14	0.01	0.30	lb/hr	ST 8/13/14	0.01
	EU-113B	Germ Dryer Burner	Natural Gas										
115	EU-115	Specialty Starch Bulk Truck Loadout	Starch	0	hours	0.004	lb/hr	EP 79 ST 8/18/15		0.00	lb/hr	P 79 ST 8/18/1	
116	EU-116A	Starch Spray Dryer #5	Starch	6707	hours	0.201	lb/hr	ST 9/10/14	0.67	0.20	lb/hr	ST 9/10/14	0.67
	EU-116B	Starch Spray Dryer #5 Burner	Natural Gas		hours								
118	EU-118	Salt Storage Bin	Sodium Sulfate	2219	hours	0.094	lb/hr	Eng. Est.	0.10	0.09	lb/hr	Eng. Est.	0.10
119	EU-119	#19 Starch Bulk Storage Bin	Starch	3958	hours	0.026	lb/hr	EP 92 ST 11/92	0.05	0.03	lb/hr	EP 92 ST 11/92	0.05
120	EU-120	#20 Starch Bulk Storage Bin	Starch	3315	hours	0.026	lb/hr	EP 92 ST 11/92	0.04	0.03	lb/hr	EP 92 ST 11/92	0.04
121	EU-121	#21 Starch Bulk Storage Bin	Starch	2848	hours	0.026	lb/hr	EP 92 ST 11/92	0.04	0.03	lb/hr	EP 92 ST 11/92	0.04
124	EU-124	Packer Hopper Vent	Starch	8305	hours	0.013	lb/hr	EP 92 ST 11/92	0.05	0.01	lb/hr	EP 92 ST 11/92	0.05
130	EU-130	Corn Silos 1-4	Corn	8760	hours	0.0398	lb/hr	Eng. Est.	0.17	0.04	lb/hr	Eng. Est.	0.17
149	EU-149	Starch Bulk Bagger	Starch	494	hours	0.064	lb/hr	EP 173 ST 8/7/02	0.02	0.06	lb/hr	P 173 ST 8/7/0	0.02
153	EU-153	Sodium Sulfate Receiving	Sodium Sulfate	315	hours	0.043	lb/hr	Eng. Est.	0.01	0.04	lb/hr	Eng. Est.	0.01
155	EU-155	Industrial Grade Starch Packer/Blower	Starch	3233	hours	0.07	lb/hr	ST 8/13/15	0.11	0.07	lb/hr	ST 8/13/15	0.11
160	EU-160A	PO Storage	Propylene Oxide	8508	hours								
	EU-160C	Reactor #131											
	EU-160D	Reactor #132											
	EU-160E	Reactor #134											
	EU-160F	Reactor #135											
	EU-160H	Stripper #2											
	EU-161A	POCL3 Storage	Sulfate, POCL3	8404	hours								
	EU-161B	H2SO4 Storage Tank	Sulfuric Acid										
	EU-161C	Deactivation Tank	Starch Slurry										
	EU-161D	Modification Tank #101											

2023 Actuals

EP ID	EU ID	EU Description	Raw Material	Hours or Throughput	Units	EF	EF Units	EF Source	PM	EF	EF Units	EF Source	PM_{10}
161	EU-161E	Modification Tank #102											
	EU-161F	Modification Tank #103											
	EU-161G	Modification Tank #104											
	EU-161H	nOSA Tank											
	EU-161I	Modification Tank #105											
162	EU-162A	Flash Dryer #6	Starch	5651	hours	1.028	lb/hr	ST 8/12/15	2.90	1.03	lb/hr	ST 8/12/15	2.90
	EU-162B	Flash Dryer #6 Burner	Natural Gas		mmcf								
164	EU-164	Starch Storage Bin #104	Starch	3715	hours	0.034	lb/hr	EP 92 ST 11/92	0.06	0.03	lb/hr	EP 92 ST 11/92	0.06
165	EU-165	Starch Storage Bin #105	Starch	6863	hours	0.034	lb/hr	EP 92 ST 11/92	0.12	0.03	lb/hr	EP 92 ST 11/92	0.12
166	EU-166	Starch Storage Bin #106	Starch	3164	hours	0.034	lb/hr	EP 92 ST 11/92	0.05	0.03	lb/hr	EP 92 ST 11/92	0.05

2023 Actuals

EP ID	EU ID	EU Description	Raw Material	Hours or Throughput	Units	EF	EF Units	EF Source	PM	EF	EF Units	EF Source	PM_{10}
167	EU-167	Specialty Starch Storage Bin #107	Starch	1394	hours	0.051	lb/hr	EP 92 ST 11/92	0.04	0.05	lb/hr	EP 92 ST 11/92	0.04
169	EU-169	Specialty Starch Storage Bin #109	Starch	782	hours	0.051	lb/hr	EP 92 ST 11/92	0.02	0.05	lb/hr	EP 92 ST 11/92	0.02
170	EU-170	Warehouse Receiver	Starch	621	hours	0.064	lb/hr	EP 92 ST 11/92	0.02	0.06	lb/hr	EP 92 ST 11/92	0.02
171	EU-171	Starch Storage Bin 108	Starch	498	hours	0.063	lb/hr	EP 92 ST 11/92	0.02	0.06	lb/hr	EP 92 ST 11/92	0.02
173	EU-173A	Starch Packer	Starch	8275	hours	0.13	lb/hr	EP 173 ST 8/7/02	0.54	0.13	lb/hr	P 173 ST 8/7/0	0.54
	EU-173B	Super Sacker											
	EU-173C	Cleanup Vacuum											
174	EU-174	Starch Grinder Discharge Receiver	Starch	5535	hours	0.043	lb/hr	EP 173 ST 8/7/02	0.12	0.04	lb/hr	P 173 ST 8/7/0	0.12
175	EU-175	Starch Warehouse Vacuum Receiver	Starch	8259	hours	0.013	lb/hr	EP 173 ST 8/7/02	0.05	0.01	lb/hr	P 173 ST 8/7/0	0.05
176	EU-176A	Waxy Corn Silo #1	Corn	8707	hours	0.129	lb/hr	EP 92 ST 11/92	0.56	0.13	lb/hr	EP 92 ST 11/92	0.56
	EU-176B	Waxy Corn Silo #2											
177	EU-177	Grain Receiving Pit	Grain	3247		0.64	lb/hr	0.1 gr/dscf	1.04	0.64	lb/hr	0.1 gr/dscf	1.04
210	EU-210	500 kW Emergency Engine	Diesel Fuel	1.2	1000 gallons	9.55	lb/100 gal	Webfire	0.01	7.85	lb/100 gal	Webfire	0.00
230	EU-230	Cracked Corn Conveying	Cracked Corn	7446	hours	0.0256	lb/hr	EP 92 ST 11/92	0.10	0.03	lb/hr	EP 92 ST 11/92	0.10
240	EU-240	Starch Reslurry System	Starch	13	hours	0.054	lb/hr	EP 92 ST 11/92	0.00	0.05	lb/hr	EP 92 ST 11/92	0.00
245	EU-245	East Gluten Bin	Gluten	8560	hours	0.049	lb/hr	5 ST Eddyville 6/	0.21	0.05	lb/hr	ST Eddyville 6	0.21
246	EU-246	Dry Gluten Receiver	Gluten	8178	hours	0.038	lb/hr	5 ST Eddyville 6/	0.16	0.04	lb/hr	ST Eddyville 6	0.16
247	EU-247	Wet Feed Loadout	Bran	7493	hours								
248	EU-248	Starch Slurry Tank #6	Starch Slurry	1068	hours								
249	EU-249	East Gluten Filter Vacuum Pump	Air & Water	4925	hours								
250	EU-250	Middle Gluten Filter Vacuum Pump	Air & Water	7177	hours								
251	EU-251	West Gluten Filter Vacuum Pump	Air & Water	5508	hours								
252	EU-252	Starch Slurry Tank #7	Starch Slurry	8599	hours								
254	EU-254	Starch Slurry Tank #5	Starch Slurry	8279	hours								
255	EU-255A	Rail Germ Loadout	Germ	3710	hours	0.039	lb/hr	5 ST Eddyville 6/	0.07	0.04	lb/hr	ST Eddyville 6	0.07
	EU-255B	Germ Conveying	Germ										
258	EU-258	500 kW Non-Emergency Engine	Diesel Fuel	2.15	1000 gallons	9.55	lb/1000 gal	Webfire	0.01	7.85	lb/1000 gal	Webfire	0.01
260	EU-260	East Dilute Phase Pot	Starch	364	hours	0.043	lb/hr	5 ST Eddyville 6/	0.01	0.04	lb/hr	ST Eddyville 6	0.01
262	EU-262	West Dilute Phase Pot	Starch	1047	hours	0.043	lb/hr	5 ST Eddyville 6/	0.02	0.04	lb/hr	ST Eddyville 6	0.02
263	EU-263	Elevator Tunnel Vacuum Filter	Air w/ Corn Dust	8760	hours	0.0162	lb/hr	.1 gr/dscf, 99% C	0.07	0.08	lb/hr	. gr/dscf, 95%	0.35
265	EU-265	West Dilute Supersack Receiver	Starch	2021	hours	0.059	lb/hr	0.005 gr/dscf	0.06	0.06	lb/hr	0.005 gr/dscf	0.06
266	EU-266	West Dense Supersack Receiver	Starch	3309	hours	0.027	lb/hr	0.005 gr/dscf	0.04	0.03	lb/hr	0.005 gr/dscf	0.04
267	EU-267	West Supersack Vacuum System	Starch	3918	hours	0.03	lb/hr	0.005 gr/dscf	0.06	0.03	lb/hr	0.005 gr/dscf	0.06
268	EU-268	West Dilute Supersack Surge Bin	Starch	7021	hours	0.017	lb/hr	0.1 gr/scf	0.06	0.02	lb/hr	0.1 gr/scf	0.06
269	EU-269	West Dense Supersack Surge Bin	Starch	7021	hours	0.017	lb/hr	0.1 gr/scf	0.06	0.02	lb/hr	0.1 gr/scf	0.06
300	EU-300	C* Fim Starch Receiving Filter	Starch	6137	hours	0.027	lb/hr	EP 92 ST 11/92	0.08	0.03	lb/hr	EP 92 ST 11/92	0.08
	EU-301WF	Weight Feeder											
	EU-310SH	Starch Hopper	#REF!										
320	EU-320	Starch Dryer	Starch	5898	hours	0.368	lb/hr	g. Est. 0.005 gr/s	1.09	0.37	lb/hr	. Est. 0.005 gr	1.09
330	EU-330	Modified Starch Receiving Filter	Starch	5428	hours	0.026	lb/hr	EP 92 ST 11/92	0.07	0.03	lb/hr	EP 92 ST 11/92	0.07
340	EU-340	Sifter	Starch	5898	hours	0.005	lb/hr	EP 92 ST 11/92	0.01	0.01	lb/hr	EP 92 ST 11/92	0.01
350	EU-350	Product Hopper	Starch	5940	hours	0.013	lb/hr	EP 92 ST 11/92	0.04	0.01	lb/hr	EP 92 ST 11/92	0.04
360	EU-360	Product Receiving Filter	Starch	5929	hours	0.009	lb/hr	EP 92 ST 11/92	0.03	0.01	lb/hr	EP 92 ST 11/92	0.03
370	EU-370	C* Film Loadout Surge Hopper	Starch	381	hours	0.068	lb/hr	EP 92 ST 11/92	0.01	0.07	lb/hr	EP 92 ST 11/92	0.01
380	EU-380	C* Cooling Tower	Water	8524	hours	0.02	lb/hr	Max TDS	0.09	0.02	lb/hr	Max TDS	0.09
390	EU-390	Food Starch Sifter	Starch	2259	hours	0.05	lb/hr	EP 92 ST 11/92	0.06	0.05	lb/hr	EP 92 ST 11/92	0.06
410	EU-20A	Germ Dryer Burner	Natural Gas	8629	hours	1.11	lb/hr	ST 1/28/16	4.79	1.11	lb/hr	ST 1/28/16	4.79
	EU-20BNEW	Gluten Steam Tube Dryer - new	Gluten										
	EU-20C	Germ Dryer Sections 1-4	Germ										
	EU-20D	Waste Gas Steepwater Evaporator	Steepwater										
	EU-20F	Bran Dewatering System	Bran										
	EU-113	Germ Dryer Section 5	Germ										
	EU-113B	Germ Dryer Burner	Natural Gas										
	EU-410	RTO Burner	Natural Gas										
450	EU-450	Starch Slurry Tank #8	Starch Slurry	8699	hours								
	EU-180	Turbilizer	Starch										
	EU-181	Merco O/F Tank	Wastewater										
	EU-182	Mod Tank #101	Starch										
	EU-183	Deactivation Tank	Starch										
	EU-184	Wash Merco Feed Tank	Starch										
	EU-185	Merco 36	Starch										

2023 Actuals

EP ID	EU ID	EU Description	Raw Material	Hours or Throughput	Units	EF	EF Units	EF Source	PM	EF	EF Units	EF Source	PM_{10}
452	EU-452	Starch Centrifuge	Starch	5948	hours	0.021	lb/hr	ebfire SCC 302014	0.06	0.02	lb/hr	fire SCC 3020	0.06
453	EU-1A, 1B, 1C	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper	Starch	6694	hours	0.05	lb/hr	0.1 gr/dscf	0.17	0.05	lb/hr	0.1 gr/dscf	0.17
454	EU-90A, 90B, 90C	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper	Starch	7491	hours	0.05	lb/hr	0.1 gr/dscf	0.19	0.05	lb/hr	0.1 gr/dscf	0.19
516	EU-516	Refinery Loadout Boiler	Natural Gas	[redacted]	mmcf	7.6	lb/mmcf	AP-42 1.4	0.02	7.60	lb/mmcf	AP-42 1.4	0.02

2023 Actuals

Cargill, Incorpora																			
EIQ# 92-9020																			
EP ID	**EF**	**EF Units**	**EF Source**	**$PM_{2.5}$**	**EF**	**EF Units**	**EF Source**	**SO_2**	**EF**	**EF Units**	**EF Source**	**NO_x**	**EF**	**EF Units**	**EF Source**	**VOC**	**EF**	**EF Units**	**EF Source**
				15.77				**13.92**				**53.78**				**160.58**			
1	0.12	lb/hr	AP42 23%	0.35	0.80	lb/hr	Memphis ST	2.28					4.48	lb/hr	10 ppm; Ratios EP161 test	12.77	0.17	lb/hr	ST 6/2/15
													1.46	lb/ton	1999 Memphis study	13.54			
5	0.00	lb/ton	AP42 29%	0.00															
6	0.02	lb/hr	AP42 23%	0.01									0.25	lb/hr	Ratio 20 ppn	0.09			
8	0.02	lb/hr	AP42 23%	0.01									0.25	lb/hr	Ratio 20 ppn	0.10			
9	0.02	lb/hr	AP42 23%	0.03									0.25	lb/hr	Ratio 20 ppn	0.38			
11	0.05	lb/hr	ST 6/9/10	0.06															
12	0.03	lb/hr	AP42 17%	0.13									0.61	lb/hr	Ratio 20 ppn	2.50			
13	0.25	lb/hr	AP42 17%	0.15									6.16	lb/hr	Ratio 20 ppn	3.66			
14	0.02	lb/hr	AP42 17%	0.00									0.61	lb/hr	Ratio 20 ppn	0.19			
15	0.01	lb/hr	AP42 17%	0.03									0.14	lb/hr	Ratio 20 ppn	0.58			
16	0.01	lb/hr	AP42 17%	0.03									0.14	lb/hr	Ratio 20 ppn	0.60			
17	0.01	lb/hr	AP42 17%	0.03									0.16	lb/hr	Ratio 20 ppn	0.67			
20	0.18	lb/hr	AP42 23%	0.00	0.59	lb/hr	ST 8/13/14	0.00	0.76	lb/hr	ST 8/13/14	0.00	23.74	lb/hr	VOC ST 8/1	0.01	1.09	lb/hr	ST 8/13/14
23	0.18	lb/hr	AP42 23%	0.00	0.59	lb/hr	ST 8/13/14	0.01	0.76	lb/hr	ST 8/13/14	0.02	23.74	lb/hr	VOC ST 8/1	0.57	1.09	lb/hr	ST 8/13/14
24																			
27	0.01	lb/hr	AP42 23%	0.00									0.14	lb/hr	ppm Site Spe	0.05			
32	0.26	lb/hr	AP42 30%	1.07	0.49	lb/hr	ST 6/9-11/10	2.01	2.87	lb/hr	ST 6/9-11/10	11.68	0.73	lb/hr	6/9/10-11/	2.95	8.28	lb/hr	ST 6/9-11/10
33													0.05	lb/hr	5 ppm	0.22			
37	0.02	lb/hr	AP42 17%	0.09															
					0.07	lb/hr	ST 8/20/02	0.30					6.43	lb/hr	0.0018 lb/bu	27.85			
40																			
41	0.05	lb/hr	AP42 17%	0.22	0.23	lb/hr	ST 8/20/02	1.00					9.30	lb/hr	ST 12/3/09	40.25			
43	0.00	lb/hr	AP42 23%	0.02									0.02	lb/hr	om Site Spe	0.09			
51	0.03	lb/hr	AP42 23%	0.14									0.34	lb/hr	om Site Spe	1.47			
52	0.01	lb/hr	AP42 23%	0.00									0.14	lb/hr	ppm Site Spe	0.07			
58	0.04	lb/hr	AP42 23%	0.01									0.14	lb/hr	om Site Spe	0.03			
					0.00	lb/hr	ST 7/13/16	0.01					0.32	lb/hr	ppm ST 8/1	1.40			

2023 Actuals

EP ID	EF	EF Units	EF Source	$PM_{2.5}$	EF	EF Units	EF Source	SO_2	EF	EF Units	EF Source	NO_x	EF	EF Units	EF Source	VOC	EF	EF Units	EF Source
61																			
65	0.02	lb/hr	AP42 23%	0.01									0.07	lb/hr	pm Site Spe	0.04			
68	0.01	lb/hr	AP42 23%	0.03															
70	0.04	lb/hr	AP42 15%	0.18	0.00	lb/hr	ST 7/12/16 EP 71	0.01					0.39	lb/hr	pm Site Spe	1.63			
71	0.03	lb/hr	AP42 23%	0.13	0.00	lb/hr	ST 7/12/16 EP 71	0.01					0.07	lb/hr	7 ppm	0.30			
79	0.01	lb/hr	AP42 23%	0.01															
85	0.02	lb/hr	AP42 23%	0.00									0.24	lb/hr	pm Site Spe	0.02			
90	0.72	lb/hr	ST AP42 23%	2.60	0.80	lb/hr	ST Memphis	2.88					0.52	lb/hr	EP90 ST	1.87			
91	0.01	lb/hr	AP42 23%	0.06															
92	0.02	lb/hr	AP42 23%	0.02															
93	0.02	lb/hr	AP42 23%	0.01															
94	0.01	lb/hr	AP42 3%	0.03															
95	0.00	lb/hr	AP42 23%	0.00															
100									Manual	N/A	CEMS	18.50							
	0.43	lb/mmcf	42 EPA Rev Sh	0.18	0.60	lb/mmcf	AP42	0.25					5.50	lb/mmcf	Webfire	2.31	82.08	lb/mmcf	endor Guarante
101	0.95	lb/hr	ST 4/7/10	2.79					Manual	N/A	CEMS	12.43					1.21	lb/hr	ST 4/7/10
					0.60	lb/mmcf	AP42	0.14					5.50	lb/mmcf	Webfire	1.25			
102	0.01	lb/hr	AP42 23%	0.04															
103	0.01	lb/hr	AP42 23%	0.00															
104	0.01	lb/hr	AP42 3%	0.04															
105	0.01	lb/hr	AP42 23%	0.04															
109					0.31	lb/hr	g. Estimate 2 pp	1.32					1.23	lb/hr	70% CE	5.22			
113	0.07	lb/hr	AP42 23%	0.00	0.25	lb/hr	ST 8/13/14	0.01	0.03	lb/hr	ST 8/13/14	0.00	1.32	lb/hr	ST 8/13/14	0.03	0.10	lb/hr	ST 8/13/14
115	0.00	lb/hr	AP42 20%										0.01	lb/hr	pm Site Spe				
116	0.05	lb/hr	AP42 23%	0.15	0.31	lb/hr	ST /10/14	1.04	0.85	lb/hr	ST 6/3/15	2.85	1.51	lb/hr	ST 9/10/14	5.06	0.71	lb/hr	ST 6/3/15
118	0.01	lb/hr	AP42 15%	0.02															
119	0.01	lb/hr	AP42 23%	0.01									0.08	lb/hr	pm Site Spe	0.16			
120	0.01	lb/hr	AP42 23%	0.01									0.08	lb/hr	pm Site Spe	0.13			
121	0.01	lb/hr	AP42 23%	0.01									0.08	lb/hr	pm Site Spe	0.11			
124	0.00	lb/hr	AP42 23%	0.01									0.01	lb/hr	pm Site Spe	0.04			
130	0.01	lb/hr	AP42 15%	0.03															
149	0.01	lb/hr	AP42 23%	0.00									0.21	lb/hr	pm Site Spe	0.05			
153	0.01	lb/hr	AP42 23%	0.00															
155	0.02	lb/hr	AP42 23%	0.03															
160													4.32	lb/hr	ppm Site Sp	18.38			
					0.00	lb/hr	ST 7/12/16 EP 71	0.00					0.65	lb/hr	7 Site Specif	2.73			

2023 Actuals

EP ID	EF	EF Units	EF Source	$PM_{2.5}$	EF	EF Units	EF Source	SO_2	EF	EF Units	EF Source	NO_x	EF	EF Units	EF Source	VOC	EF	EF Units	EF Source
161																			
162	0.24	lb//hr	AP42 23%	0.67	0.42	lb/hr	ST 9/9/14	1.19	0.86	lb/hr	ST 6/3/15	2.43	0.89	lb/hr	ST 9/9/14	2.51	0.44	lb/hr	ST 6/3/15
164	0.01	lb/hr	AP42 23%	0.01									0.11	lb/hr	20 ppm Site	0.20			
165	0.01	lb/hr	AP42 23%	0.03									0.11	lb/hr	20 ppm Site	0.38			
166	0.01	lb/hr	AP42 23%	0.01									0.11	lb/hr	20 ppm Site	0.17			

2023 Actuals

EP ID	EF	EF Units	EF Source	$PM_{2.5}$	EF	EF Units	EF Source	SO_2	EF	EF Units	EF Source	NO_x	EF	EF Units	EF Source	VOC	EF	EF Units	EF Source
167	0.01	lb/hr	AP42 23%	0.01									0.16	lb/hr	20 ppm Site	0.11			
169	0.01	lb/hr	AP42 23%	0.00									0.16	lb/hr	20 ppm Site	0.06			
170	0.02	lb/hr	AP42 23%	0.00									0.05	lb/hr	20 ppm Site	0.02			
171	0.01	lb/hr	AP42 23%	0.00									0.05	lb/hr	20 ppm Site	0.01			
173	0.03	lb/hr	AP42 23%	0.12									0.52	lb/hr	pm Site Spe	2.15			
174	0.01	lb/hr	AP42 23%	0.03									0.03	lb/hr	pm Site Spe	0.08			
175	0.00	lb/hr	AP42 23%	0.01									0.04	lb/hr	pm Site Spe	0.17			
176	0.02	lb/hr	AP42 17%	0.10															
177	0.15	lb/hr	% of 0.1 gr/d	0.24															
210	7.55	lb/1000 gal	Webfire	0.00	0.21	lb/1000 gal	FIRE	0.00	438.00	lb/1000 gal	webfire	0.26	11.50	lb/1000 gal	Webfire	0.01	26.78	lb/1000 gal	t CE from ST 10/
230	0.00	lb/hr	AP42 17%	0.02															
240	0.01	lb/hr	AP42 23%	0.00									0.17	lb/hr	pm Site Spe	0.00			
245	0.01	lb/hr	AP42 23%	0.03									0.16	lb/hr	pm Site Spe	0.67			
246	0.01	lb/hr	AP42 17%	0.03									0.12	lb/hr	pm Site Spe	0.49			
247					0.02	lb/hr	Eng. Est. 70 ppm	0.06					0.00	lb/hr	Blair Mill S	0.01			
248					0.15	lb/hr	ST 9/12/16	0.08					0.03	lb/hr	20 ppm	0.02			
249					0.00	lb/hr	ST Blair	0.00					0.40	lb/hr	0.0001 lb/bu	0.99			
250					0.01	lb/hr	ST Blair	0.02					0.40	lb/hr	00011 lb/bu	1.44			
251					0.01	lb/hr	ST Blair	0.01					0.40	lb/hr	00011 lb/bu	1.10			
252					0.00	lb/hr	ST 9/15/16	0.01					0.01	lb/hr	pm Site Spe	0.04			
254					0.31	lb/hr	T 9/15/16 EP 24	1.30					0.05	lb/hr	pm Site Spe	0.21			
255	0.01	lb/hr	AP4217%	0.01									0.12	lb/hr	n Blair Germ	0.22			
258	7.55	lb/1000 gal	Webfire	0.01	0.21	lb/1000 gal	Webfire	0.00	438.00	lb/1000 gal	webfire	0.47	11.50	lb/1000 gal	Webfire	0.01	6.99	lb/1000 gal	t CE from ST 10/
260	0.01	lb/hr	AP42 23%	0.00									0.14	lb/hr	pm Site Spe	0.03			
262	0.01	lb/hr	AP42 23%	0.01									0.14	lb/hr	pm Site Spe	0.07			
263	0.08	lb/hr	r/dscf 95% co	0.35															
265	0.06	lb/hr	.005 gr/dscf	0.06															
266	0.03	lb/hr	.005 gr/dscf	0.04															
267	0.03	lb/hr	.005 gr/dscf	0.06															
268	0.02	lb/hr	.1 gr/scf	0.06															
269	0.02	lb/hr	.1 gr/scf	0.06															
300	0.01	lb/hr	AP42 23%	0.02									0.09	lb/hr	pm Site Spe	0.28			
320	0.09	lb/hr	AP42 23%	0.25									2.95	lb/hr	pm Site Spe	8.70			
330	0.01	lb/hr	AP42 23%	0.02									0.08	lb/hr	pm Site Spe	0.22			
340	0.00	lb/hr	AP42 23%	0.00									0.02	lb/hr	pm Site Spe	0.06			
350	0.00	lb/hr	AP42 23%	0.01									0.04	lb/hr	pm Site Spe	0.12			
360	0.00	lb/hr	AP42 23%	0.01									0.03	lb/hr	pm Site Spe	0.09			
370	0.02	lb/hr	AP42 23%	0.00									0.22	lb/hr	pm Site Spe	0.04			
380	0.02	lb/hr	Max TDS	0.09															
390	0.01	lb/hr	AP42 23%	0.01									0.16	lb/hr	pm Site Spe	0.18			
	1.11	lb/hr	ST 1/28/16	4.79	0.38	lb/hr	ST 1/28/16	1.64	1.14	lb/hr	ST 1/28/16	4.92	0.49	lb/hr	ST 1/28/16	2.12	5.56	lb/hr	ST 1/28/16
410																			
					0.13	lb/hr	0% control	0.55					0.19	lb/hr	Site Specific	0.83			
450																			

2023 Actuals

EP ID	EF	EF Units	EF Source	$PM_{2.5}$	EF	EF Units	EF Source	SO_2	EF	EF Units	EF Source	NO_x	EF	EF Units	EF Source	VOC	EF	EF Units	EF Source
452	0.00	lb/hr	fire SCC 3020	0.01	0.03	lb/hr	ST EP452 6/19/1	0.08					0.05	lb/hr	ST 6/19/18	0.15			
453	0.01	lb/hr	.1 gr/dscf 23	0.04															
454	0.01	lb/hr	1 gr/dscf 23%	0.04															
516	7.60	lb/mmcf	AP-42 1.4	0.02	0.60	lb/mmcf	AP-42 1.4	0.00	100.00	lb/mmcf	AP-42 1.4	0.22	5.50	lb/mmcf	AP-42 1.4	0.01	84.00	lb/mmcf	AP-42 1.4

2023 Actuals

Cargill, Incorpora				
EIQ# 92-9020				
EP ID	**CO**	**Lead**	**NH_3**	**THAP**
	99.87	**0.00**	**2.44**	**51.14**
1	0.48			
5				
6				
8				
9				
11				
12				
13				
14				
15				
16				
17				
20	0.00		0.14	
23	0.03			
24				
27				
32	33.70		0.05	
33				
37				
40				
41				
43				
51				
52				
58				

2023 Actuals

EP ID	CO	Lead	NH_3	THAP
61				
65				
68				
70				
71				
79				
85				
90				
91				
92				
93				
94				
95				
100		0.00	1.35	
	34.51			
101	3.56	0.00	0.73	
	0.28			
102				
103				
104				
105				
109				
113	0.00			
115				
116	2.36			
		0.00	0.13	
118				
119				
120				
121				
124				
130				
149				
153				
155				
160				

2023 Actuals

EP ID	CO	Lead	NH_3	THAP
161				
162	1.24			
		0.00		
164				
165				
166				

2023 Actuals

EP ID	CO	Lead	NH_3	THAP
167				
169				
170				
171				
173				
174				
175				
176				
177				
210	0.02			
230				
240				
245				
246				
247				
248				
249				
250				
251				
252				
254				
255				
258	0.01			
260				
262				
263				
265				
266				
267				
268				
269				
300				
320				
330				
340				
350				
360				
370				
380				
390				
410	23.99		0.04	
450				

2023 Actuals

EP ID	CO	Lead	NH_3	THAP
452				
453				
454				
516	0.18		0.01	

Source Tests

EP	EU	Pollutant	Test Method	Test Date	Stack Test Summary				Average	n	t	CI	if <85%	Permit Limit	
					Run 1	Run 2	Run 3	units					Avg * (P/A)^2		
PM/PM_{10} (lb/hr)															
1	#3 Starch Flash Dryer	PM	5 / 202 bh	7/25/2000	3.94	3.38	3.25	lb/hr	3.523	3	2.92	4.14	#DIV/0!		lb/hr
1	#3 Starch Flash Dryer	PM	5 / 202 bh	1/13/2010	1.33	0.56	0.45	lb/hr	0.780	3	2.92	1.59	1.234		lb/hr
1	#3 Starch Flash Dryer	PM	6 / 202 bh	6/2/2015	0.462	0.654	0.507	lb/hr	0.541	3	2.92	0.71	#DIV/0!	2.798	lb/hr
				Group Statistics (1)					1.615	9	1.86	2.52			
11	Corn Truck Dump	PM	5 / 202 bh	4/6/1999	0.69	1.11	0.39	lb/hr	0.730	3	2.92	1.34	2.292		lb/hr
11	Corn Truck Dump	PM	5 / 202 bh	6/9/2010	0.07	0.06	0.03	lb/hr	0.053	3	2.92	0.09	0.109		lb/hr
				Group Statistics (11)					0.392	6	2.015	0.75			
13	Truck Gluten/Germ Loadout	PM	5 / 202 bh	1/23/2009	1.48	1.48	1.24	lb/hr	1.400	3	2.92	1.63	1.400		lb/hr
14	Gluten Scale/Germ Conveying	PM	5 / 202 bh	1/23/2009	0.09	0.09	0.09	lb/hr	0.090	3	2.92	0.09	0.090		lb/hr
20	Germ Dryer	PM	5 / 202 bh	9/20/1995	0.8	1.6	1	lb/hr	1.133	3	2.92	1.84	#DIV/0!		lb/hr
20	Germ Dryer	PM	5 / 202 bh	5/3/1999	1.84	2.13	2.15	lb/hr	2.040	3	2.92	2.33	#DIV/0!		lb/hr
20	Germ Dryer	PM	5 / 202 bh	1/14/2010	0.588	0.626	0.58	lb/hr	0.598	3	2.92	0.64	#DIV/0!		lb/hr
20	Germ Dryer	PM	5 / 202 bh	8/13/2014	0.872	0.676		lb/hr	0.774	2	6.314	1.39		engineering	
				Group Statistics (20)					1.169	11	1.812	1.54			
32	Carbon Furnace	PM	5 / 202 bh	1/11/1995	1.03	0.65	0.49	lb/hr	0.723	3	2.92	1.19	#DIV/0!		lb/hr
32	Carbon Furnace	PM	5 / 202 bh	10/13/1998	1	0.85	1.09	lb/hr	0.980	3	2.92	1.18	#DIV/0!		lb/hr
32	Carbon Furnace	PM	5 / 202 bh	4/20/2001	0.85	0.8	1	lb/hr	0.883	3	2.92	1.06	#DIV/0!	engineering?	
32	Carbon Furnace	PM	5 / 202 bh	1/10/2023	0.43	0.45	0.43	lb/hr	0.437	3	2.92	0.46	0.437	1.44	lb/hr
32	Carbon Furnace	PM10	201A/202	1/10/2023	0.29	0.19	0.13	lb/hr	0.203	3	2.92	0.34	0.203	1.44	lb/hr
				Group Statistics (32)					0.862	9	1.86	1.01			
37	Corn Cleaner	PM	5 / 202 bh	8/23/1990	0.93	0.73	1.6	lb/hr	1.087	3	2.92	1.85	3.549		lb/hr
37	Corn Cleaner	PM	5 / 202 bh	1/12/2010	0.17	0.12	0.1	lb/hr	0.130	3	2.92	0.19	0.329		lb/hr
				Group Statistics (37)					0.608	6	2.015	1.10			
41	Steep House	PM	5 / 202 bh	6/2/2015	0.301	0.339	0.256	lb/hr	0.299	3	2.92	0.37	#DIV/0!	engineering	lb/hr
51	Packer	PM	5 / 202 bh	8/13-14/15	0.136	0.139	0.148	lb/hr	0.141	3	2.92	0.15	0.288	0.43	lb/hr
68	CC Hammermill	PM	5 / 202 bh	11/25/1997	0.03	0.02	0.05	lb/hr	0.033	3	2.92	0.06	#DIV/0!		lb/hr
79	Starch Bin Loadout	PM	5 / 202 bh	11/19-20/92	0.09	0.06	0.08	lb/hr	0.077	3	2.92	0.10	0.123		lb/hr
79	Starch Bin Loadout	PM	5 / 202 bh	8/18-19/15	0.044	0.039	0.039	lb/hr	0.041	3	2.92	0.046	0.041	0.31	lb/hr
				Group Statistics (79)					0.059	6	2.015	0.08			
90	Starch Flash Dryer	PM	5 / 202 bh	11/16/1992	9.72	12.66	10.11	lb/hr	10.830	3	2.92	13.52	17.692		lb/hr
90	Starch Flash Dryer	PM	5 / 202 bh	2/24/1993	5.39	5.92	5.35	lb/hr	5.553	3	2.92	6.09	13.338		lb/hr
90	Starch Flash Dryer	PM	5 / 202 bh	6/8/2010	2.84	7.16	8.06	lb/hr	6.020	3	2.92	10.72	28.252		lb/hr
90	Starch Flash Dryer	PM	5 / 202 bh	3/7/2012	3.098	1.625	3.861	lb/hr	2.861	3	2.92	4.78	2.861		lb/hr
90	Starch Flash Dryer	PM	5 / 202 bh	6/14/2017	5.949	2.849	3.096	lb/hr	3.965	3	2.92	6.87	3.965	3.307	lb/hr
90	Starch Flash Dryer	PM	5 / 202 bh	10/1/2019	3.608	3.89	1.92	lb/hr	3.139	3	2.92	4.94	3.139	3.85	lb/hr
				Group Statistics (90)					5.846	15	1.771	7.30			
92	Starch Bin Loadout	PM	5 / 202 bh	11/18/1992	0.032	0.039	0.03	lb/hr	0.034	3	2.92	0.04	0.063		lb/hr
101	Gas Boiler	PM	5 / 202 bh	4/7/2010	0.74	0.79	1.31	lb/hr	0.947	3	2.92	1.48	0.947		lb/hr
113	Germ Dryer	PM	5 / 202 bh	7/11/1995	0.3	0.25	0.25	lb/hr	0.267	3	2.92	0.32	0.817		lb/hr
113	Germ Dryer	PM	5 / 202 bh	11/21/1997	0.75	0.36	0.6	lb/hr	0.570	3	2.92	0.90	#DIV/0!		lb/hr
113	Germ Dryer	PM	5 / 202 bh	1/7/2010	0.81	0.48	0.61	lb/hr	0.633	3	2.92	0.91	3.046		lb/hr
113	Germ Dryer	PM	5 / 202 bh	8/13/2014	0.243	0.358		lb/hr	0.301	2	6.314	0.66		engineering	
				Group Statistics (113)					0.456	11	1.812	0.57			
116	Starch Spray Dryer	PM	5 / 202 bh	4/1/1996	2.15	1.29	1.88	lb/hr	1.773	3	2.92	2.51	#DIV/0!		lb/hr
116	Starch Spray Dryer	PM	5 / 202 bh	5/5/2010	0.46	0.52	0.78	lb/hr	0.587	3	2.92	0.87	0.587		lb/hr
116	Starch Spray Dryer	PM	5 / 202 bh	9/10/2014	0.153	0.249		lb/hr	0.201	2	6.314	0.50		engineering	
				Group Statistics (37)					0.935	8	1.895	1.44			
155	ıstrial Starch Pa	PM	5 / 202 bh	8/13/2015	0.017	0.016	0.009	lb/hr	0.014	3	2.92	0.07	0.388	0.12	lb/hr
162	Specialty Starch Dryer #6	PM	5 / 202 bh	10/29/2002	1.89	2.67	2.44	lb/hr	2.333	3	2.92	3.01	4.560		lb/hr
162	Specialty Starch Dryer #6	PM	5 / 202 bh	5/6/2010	1.17	2.93	4.92	lb/hr	3.007	3	2.92	6.17	7.121		lb/hr
162	Specialty Starch Dryer #6	PM	5 / 202 bh	3/8/2012	0.07	0.07	0.02	lb/hr	0.053	3	2.92	0.10	0.095		lb/hr
162	Specialty Starch Dryer #6	PM	5 / 202 bh	10/24/2012	3.1558	1.5122	1.2257	lb/hr	1.965	3	2.92	3.72	3.471		lb/hr
162	Specialty Starch Dryer #6	PM	5 / 202 bh	8/12/2015	1.235	0.724	1.126	lb/hr	1.028	3	2.92	1.48	1.028	3.07	lb/hr
				Group Statistics (162)					1.677	15	1.771	2.30			

Source Tests

Operating Data										
Run 1	Run 2	Run 3	Operating Rate	Units	Maximum Rate	Units	% Tested vs. Rated	(ACFM)	(SCFM)	Agency Observer
										None
			#DIV/0!	ton/hr	10	ton/hr	#DIV/0!	63553		Unknown
7.95	7.95	7.95	7.95	ton/hr	10	ton/hr	80%	62186		
					15	ton/hr				None
370.19	299.475	346.2285	338.6311667	ton/hr	600	ton/hr	56%	10557		Rich Stephens
420	420	420	420	ton/hr	600	ton/hr	70%	10224		None
85.777	79.225	86.332	83.778	ton/hr	53.13	ton/hr	158%	43239		Tony Daugherty
85.777	79.225	86.332	83.778	ton/hr	53.13	ton/hr	158%	2922		Tony Daugherty
18.538	19.477	19.477	19.164	bph		bph	#DIV/0!	32510		Rich Stephens
			#DIV/0!	bph		bph	#DIV/0!	33025		Tim Drahos
			#DIV/0!	bph		bph	#DIV/0!	27663		None
								30899	16502	None (engineerin
UNK	UNK	UNK	#DIV/0!	ton/hr	0.75	ton/hr	#DIV/0!	4121		Rich Stephens
UNK	UNK	UNK	#DIV/0!	ton/hr	0.75	ton/hr	#DIV/0!	3630		None
UNK	UNK	UNK	#DIV/0!	ton/hr	1.75	ton/hr	#DIV/0!	3630		None?
1268	1683	1093	1348	lbs/hr	1500	lbs/hr	90%	3268	2247	None
1268	1683	1093	1348	lbs/hr	1500	lbs/hr	90%	3268	2247	None
83	83	83	83	bu/min	150	bu/min	55%	15501		None
118	87	78	94.33333333	bu/min	150	bu/min	63%	16862		None
										None (engineerin
3.5	3.5	3.5	3.5	ton/hr	5	ton/hr	70%	12161	11540	None
UNK	UNK	UNK	#DIV/0!	ton/hr	7.66	ton/hr	#DIV/0!	1302		Rich Stephens
63.2	63.2	63.2	63.2	ton/hr	80	ton/hr	79%	4123		Shawn Peters, Da
81.825	92.5	90	88.10833333	ton/hr	80	ton/hr	110%	4123		None
10.9535	10.9535	10.9535	10.9535	ton/hr	14	ton/hr	78%	75173		Shawn Peters, Da
9.0335	9.0335	9.0335	9.0335	ton/hr	14	ton/hr	65%	78850		Shawn Peters, Sea
6.6765	6.1145	6.5965	6.4625	ton/hr	14	ton/hr	46%	86845		Tony Daugherty
10.2105	14	13.2	12.47016667	ton/hr	14	ton/hr	89%	78545		Tony Daugherty
13.892	13.606	13.8275	13.77516667	ton/hr	16	ton/hr	86%	73503	65667	None
13.027	14.897	13.96	13.96133333	ton/hr	16	ton/hr	87%	66671	61546	None
10.235	10.235	10.235	10.235	ton/hr	14	ton/hr	73%	1990		Shawn Peters, Da
189000	189000	189000	189000	lb/hr	200000	lb/hr	95%	89834		Tony Daugherty
7.1435	7.1435	7.1435	7.1435	ton/hr	12.5	ton/hr	57%	15080		Rich Stephens
UNK	UNK	UNK	#DIV/0!	ton/hr	12.5	ton/hr	#DIV/0!	12798		Rich Stephens
5.7	5.7	5.7	5.7	ton/hr	12.5	ton/hr	46%	14994		None
UNK	UNK	UNK	#DIV/0!	ton/hr	2	ton/hr	#DIV/0!	62336		Greg Slager
1.836	1.836	1.836	1.836	ton/hr	2	ton/hr	92%	52193		None
3.8	3.8	3.8	3.8	ton/hr	20	ton/hr	19%	3140	2718	None
7.2245	7.2245	7.2245	7.2245	ton/hr	10.1	ton/hr	72%	47049		Tony Daugherty
6.6355	6.4005	6.653	6.563	ton/hr	10.1	ton/hr	65%	53343		None
7.096	7.7095	7.914	7.573166667	ton/hr	10.1	ton/hr	75%	54234		None
7.734	7.4995	7.563	7.598833333	ton/hr	10.1	ton/hr	75%	48985		None
9.518	9.518	9.518	9.518	ton/hr	10.1	ton/hr	94%	60298	50427	None

Source Tests

EP	EU	Pollutant	Test Method	Test Date	Stack Test Summary				Average	n	t	CI	if <85% Avg * (P/A)^2	Permit Limit	
					Run 1	Run 2	Run 3	units							
173	Specialty Starch Packer	PM	5 / 202 bh	8/7/2002	0.125	0.139	0.126	lb/hr	0.130	3	2.92	0.14	0.427		lb/hr
320	C* Dryer	PM	5 / 202 bh	4/2/2009	0.22	0.26	0.39	lb/hr	0.290	3	2.92	0.44	0.516		lb/hr
410	RTO	PM	5 / 202 bh	1/28-29/16	1.367	0.948	1.013	lb/hr	1.109	3	2.92	1.49	2.294	2.05	lb/hr
410	RTO	PM	5 / 202 bh	1/19/2021	1.013	0.788	0.984	lb/hr	0.928	3	2.92	1.13	0.928	1.25	lb/hr
PM/PM_{10} (gr/dscf)															
1	#3 Starch Flash Dryer	PM	5 / 202 bh	7/25/2000	0.008	0.007	0.007	gr/dscf	0.007	3	2.92	0.008	#DIV/0!		lb/hr
1	#3 Starch Flash Dryer	PM	5 / 202 bh	1/13/2010	0.003	0.001	0.001	gr/dscf	0.002	3	2.92	0.004	0.003	0.005	gr/dscf
1	#3 Starch Flash Dryer	PM	5 / 202 bh	6/2/2015	0.00098	0.00141	0.00109	gr/dscf	0.001	3	2.92	0.002	#DIV/0!	0.005	gr/dscf
				Group Statistics (1)					0.003	9	1.86	0.005			
11	Corn Truck Dump	PM	5 / 202 bh	4/6/1999	0.008	0.012	0.004	gr/dscf	0.008	3	2.92	0.015	0.025		lb/hr
11	Corn Truck Dump	PM	5 / 202 bh	6/9/2010	0.001	0.001	0.000323	gr/dscf	0.001	3	2.92	0.001	0.002		lb/hr
				Group Statistics (11)					0.004	6	2.015	0.008			
13	Truck Gluten/Germ Loadout	PM	5 / 202 bh	1/23/2009	0.041	0.041	0.003	gr/dscf	0.028	3	2.92	0.065	0.028		lb/hr
14	Gluten Scale/Germ Conveying	PM	5 / 202 bh	1/23/2009	0.004	0.004	0.003	gr/dscf	0.004	3	2.92	0.005	0.004		lb/hr
20	Germ Dryer	PM	5 / 202 bh	9/20/1995	0.005	0.009	0.006	gr/dscf	0.007	3	2.92	0.010	#DIV/0!		lb/hr
20	Germ Dryer	PM	5 / 202 bh	5/3/1999	0.01	0.012	0.011	gr/dscf	0.011	3	2.92	0.013	#DIV/0!		lb/hr
20	Germ Dryer	PM	5 / 202 bh	1/14/2010	0.003	0.003	0.003	gr/dscf	0.003	3	2.92	0.003	#DIV/0!		lb/hr
20	Germ Dryer	PM	5 / 202 bh	8/13/2014	0.00624	0.00472		gr/dscf	0.005	2	6.314	0.010	#DIV/0!	engineering	
				Group Statistics (20)					0.007	11	1.812	0.009	#DIV/0!		lb/hr
32	Carbon Furnace	PM	5 / 202 bh	1/11/1995	0.043	0.028	0.021	gr/dscf	0.031	3	2.92	0.050	#DIV/0!		lb/hr
32	Carbon Furnace	PM	5 / 202 bh	10/13/1998	0.053	0.045	0.055	gr/dscf	0.051	3	2.92	0.060	#DIV/0!		lb/hr
32	Carbon Furnace	PM	5 / 202 bh	1/10/2023	0.022	0.024	0.023	gr/dscf	0.023	3	2.92	0.025	0.023	1.44	lb/hr
32	Carbon Furnace	PM10	201A/202	1/10/2023	0.015	0.01	0.007	gr/dscf	0.011	3	2.92	0.017	0.011	1.44	lb/hr
				Group Statistics (32)					0.041	6	2.015	0.052			
37	Corn Cleaner	PM	5 / 202 bh	8/23/1990	0.007	0.006	0.013	gr/dscf	0.009	3	2.92	0.015	0.028		lb/hr
37	Corn Cleaner	PM	5 / 202 bh	1/12/2010	0.001	0.001	0.001	gr/dscf	0.001	3	2.92	0.001	0.003		lb/hr
				Group Statistics (37)					0.005	6	2.015	0.009			
41	Steep House	PM	5 / 202 bh	6/2/2015	0.00149	0.00171	0.00133	gr/dscf	0.002	3	2.92	0.00	#DIV/0!	engineering	lb/hr
51	Packer	PM	5 / 202 bh	8/13-14/15	0.00138	0.00138	0.00152	lb/hr	0.001	3	2.92	0.00	0.003	0.43	lb/hr
68	CC Hammermill	PM	5 / 202 bh	11/25/1997	0.003	0.002	0.004	gr/dscf	0.003	3	2.92	0.005	#DIV/0!		lb/hr
79	Starch Bin Loadout	PM	5 / 202 bh	11/19-20/92	0.003	0.002	0.002	gr/dscf	0.002	3	2.92	0.003	0.004		
79	Starch Bin Loadout	PM	5 / 202 bh	8/18-19/15	0.00117	0.00102	0.00104	gr/dscf	0.001	3	2.92	0.001	0.001	0.01	gr/dscf
				Group Statistics (79)					0.002	6	2.015	0.002			
90	Starch Flash Dryer	PM	5 / 202 bh	11/16/1992	0.017	0.023	0.018	gr/dscf	0.019	3	2.92	0.025	0.032		lb/hr
90	Starch Flash Dryer	PM	5 / 202 bh	2/24/1993	0.009	0.01	0.009	gr/dscf	0.009	3	2.92	0.010	0.022		lb/hr
90	Starch Flash Dryer	PM	5 / 202 bh	6/8/2010	0.005	0.012	0.013	gr/dscf	0.010	3	2.92	0.017	0.047		lb/hr
90	Starch Flash Dryer	PM	5 / 202 bh	10/1/2019	0.00728	0.00787	0.0039	gr/dscf	0.006	3	2.92	0.010	0.006	0.015	gr/dscf
				Group Statistics (90)					0.013	9	1.86	0.016			
92	Starch Bin Loadout	PM	5 / 202 bh	11/18/1992	0.002	0.003	0.002	gr/dscf	0.002	3	2.92	0.003	0.004		lb/hr
101	Gas Boiler	PM	5 / 202 bh	4/7/2010	0.001881	0.002045	0.003315	gr/dscf	0.002	3	2.92	0.004	0.002		lb/hr
113	Germ Dryer	PM	5 / 202 bh	7/11/1995	0.003	0.002	0.002	gr/dscf	0.002	3	2.92	0.003	0.007		lb/hr
113	Germ Dryer	PM	5 / 202 bh	11/21/1997	0.011	0.0038	0.0065	gr/dscf	0.007	3	2.92	0.013	#DIV/0!		lb/hr
113	Germ Dryer	PM	5 / 202 bh	1/7/2010	0.007867	0.004778	0.006056	gr/dscf	0.006	3	2.92	0.009	0.030		lb/hr
113	Germ Dryer	PM	5 / 202 bh	8/13/2014	0.00238	0.00346		gr/dscf	0.003	2	6.314	0.006		engineering	
				Group Statistics (113)					0.005	11	1.812	0.006			
116	Starch Spray Dryer	PM	5 / 202 bh	4/1/1996	0.0058	0.0036	0.0052	gr/dscf	0.005	3	2.92	0.007	#DIV/0!		lb/hr
116	Starch Spray Dryer	PM	5 / 202 bh	5/5/2010	0.001434	0.001621	0.002423	gr/dscf	0.002	3	2.92	0.003	0.002		lb/hr
116	Starch Spray Dryer	PM	5 / 202 bh	9/10/2014	0.00058	0.00092		gr/dscf	0.001	2	6.314	0.002		engineering	
				Group Statistics (37)					0.003	6	2.015	0.005			
155	ıstrial Starch Pa	PM	5 / 202 bh	8/13/2015	0.00074	0.00069	0.009	gr/dscf	0.003	3	2.92	0.012	0.096	0.1	gr/dscf

Source Tests

Operating Data			Operating Rate	Units	Maximum Rate	Units	% Tested vs. Rated	(ACFM)	(SCFM)	Agency Observer
Run 1	Run 2	Run 3								
5.9565	5.9565	8.7815	6.898166667	ton/hr	12.5	ton/hr	55%	13605		?
5.25	5.25	5.25	5.25	ton/hr	7	ton/hr	75%	8790		Tony Daugherty
7.862	5.2415	6.4645	6.522666667	ton/hr	9.38	ton/hr	70%	51658	29653	Tony Daugherty
4.5	4.5	4.5	4.5	ton/hr	5	ton/hr	90%	47937	34968	None
			0	ton/hr	10	ton/hr	0%	63553		Unknown
7.95	7.95	7.95	7.95	ton/hr	10	ton/hr	80%	62186		
					15	ton/hr				None
370.19	299.475	346.2285	338.6311667	ton/hr	600	ton/hr	56%	10557		Rich Stephens
420	420	420	420	ton/hr	600	ton/hr	70%	10224		None
85.777	79.225	86.332	83.778	ton/hr	53.13	ton/hr	158%	43239		Tony Daugherty
85.777	79.225	86.332	83.778	bu/day	53.13	ton/hr	158%	2922		Tony Daugherty
18.538	19.477	19.477	19.164	ton/hr		bph	#DIV/0!	32510		Rich Stephens
			0	ton/hr		bph	#DIV/0!	33025		Tim Drahos
			0	ton/hr		bph	#DIV/0!	27663		None
								30899	16502	None (Engineerin
UNK	UNK	UNK	#DIV/0!	ton/hr		ton/hr	#DIV/0!	4121		Rich Stephens
UNK	UNK	UNK	#DIV/0!	ton/hr		ton/hr	#DIV/0!	3630		None
1268	1683	1093	1348	lbs/hr	1500	lbs/hr	90%	3268	2247	None
1268	1683	1093	1348	lbs/hr	1500	lbs/hr	90%	3268	2247	None
83	83	83	83	ton/hr	150	bu/min	55%	15501		None
118	87	78	94.33333333	ton/hr	150	bu/min	63%	16862		None
										None (engineerin
3.5	3.5	3.5	3.5	ton/hr	5	ton/hr	70%	12161	11540	None
UNK	UNK	UNK	#DIV/0!	ton/hr	7.66	ton/hr	#DIV/0!	1302		Rich Stephens
63.2	63.2	63.2	63.2	ton/hr	80	ton/hr	79%	4123		Shawn Peters, Da
81.825	92.5	90	88.10833333	ton/hr	80	ton/hr	110%	4123		None
10.9535	10.9535	10.9535	10.9535	ton/hr	14	ton/hr	78%	75173		Shawn Peters, Da
9.0335	9.0335	9.0335	9.0335	ton/hr	14	ton/hr	65%	78850		Shawn Peters, Se
6.6765	6.1145	6.5965	6.4625	ton/hr	14	ton/hr	46%	86845		Tony Daugherty
13.027	14.897	13.96	13.96133333	ton/hr	16	ton/hr	87%	66671	61546	None
10.235	10.235	10.235	10.235	ton/hr	14	ton/hr	73%	1990		Shawn Peters, Da
189000	189000	189000	189000	lb/hr	200000	lb/hr	95%	89834		Tony Daugherty
7.1435	7.1435	7.1435	7.1435	ton/hr	12.5	ton/hr	57%	15080		Rich Stephens
UNK	UNK	UNK	#DIV/0!	ton/hr	12.5	ton/hr	#DIV/0!	12798		Rich Stephens
5.7	5.7	5.7	5.7	ton/hr	12.5	ton/hr	46%	14994		None
UNK	UNK	UNK	#DIV/0!	ton/hr	2	ton/hr	#DIV/0!	62336		Greg Slager
1.836	1.836	1.836	1.836	ton/hr	2	ton/hr	92%	52193		None
3.8	3.8	3.8	3.8	ton/hr	20	ton/hr	19%	3140	2718	None

Source Tests

EP	EU	Pollutant	Test Method	Test Date	Stack Test Summary				Average	n	t	CI	if <85% Avg * (P/A)^2	Permit Limit	
					Run 1	Run 2	Run 3	units							
162	Specialty Starch Dryer #6	PM	5 / 202 bh	10/29/2002	0.0047	0.0068	0.0062	gr/dscf	0.006	3	2.92	0.008	0.012		lb/hr
162	Specialty Starch Dryer #7	PM	5 / 202 bh	5/6/2010	0.00314	0.007601	0.012617	gr/dscf	0.008	3	2.92	0.016	0.018		lb/hr
162	Specialty Starch Dryer #8	PM	5 / 202 bh	3/8/2012	0.00416	0.00973	0.00963	gr/dscf	0.008	3	2.92	0.013	0.014		lb/hr
162	Specialty Starch Dryer #9	PM	5 / 202 bh	10/24/2012	0.009	0.0045	0.0037	gr/dscf	0.006	3	2.92	0.011	0.010		lb/hr
162	Specialty Starch Dryer #6	PM	5 / 202 bh	8/12/2015	0.00286	0.00162	0.0027	gr/dscf	0.002	3	2.92	0.00	0.002	3.07	lb/hr
				Group Statistics (162)					0.006	15	1.771	0.007			
173	Specialty Starch Packer	PM	5 / 202 bh	8/7/2002	0.0011	0.0013	0.0011	gr/dscf	0.001	3	2.92	0.001	0.004		lb/hr
320	C* Dryer	PM	5 / 202 bh	4/2/2009	0.0035	0.004	0.006	gr/dscf	0.005	3	2.92	0.007	0.008		lb/hr
410	RTO	PM	5 / 202 bh	1/28-29/16	0.0052	0.00375	0.00411	gr/dscf	0.004	3	2.92	0.01	0.009	0.1	gr/dscf
410	RTO	PM	5 / 202 bh	1/19/2021	0.00406	0.00326	0.00393	gr/dscf	0.004	3	2.92	0.00	0.004	0.1	gr/dscf
												NO_X			
20	Germ Dryer	NOx	7E	8/13/2014	4.311	4.057		lb/hr	4.184	2	6.314	4.99		engineering	
32	Carbon Furnace	NOx	7E	6/9-11/10	2.69	3.15		lb/hr	2.920	2	6.314	4.37		engineering	
113	Germ Dryer	NOx	7E	8/13/2014	0.04	0.02		lb/hr	0.030	2	6.314	0.09		engineering	
116	Spray Dryer	NOx	7E	6/3/2015	0.88	0.87	0.8	lb/hr	0.850	3	2.92	0.92		engineering	
162	Specialty Starch Dryer #6	NOx	7E	6/3/2015	0.89	0.83	0.85	lb/hr	0.857	3	2.92	0.91		engineering	
410	RTO	NOx	7E	1/28-29/16	1.49	0.98	0.93	lb/hr	1.133	3	2.92	1.66	2.344	9.21	lb/hr
												CO			
1	#3 Starch Dryer	CO	10	6/2/2015	0.12	0.1	0.29	lb/hr	0.170	3	2.92	0.35		engineering	
20	Germ Dryer	CO	10	8/13/2014	1.13	1.06		lb/hr	1.095	2	6.314	1.32		engineering	
32	Carbon Furnace	CO	10	3/10-13/2009	7.37	8.51	7.04	lb/hr	7.640	3	2.92	8.94	7.640	90	% Control
32	Carbon Furnace	CO	10	3/10-13/2009	80.3	94.8	94.3	lb/hr	89.800	3	2.92	103.68	89.800	90	% Control
32	Carbon Furnace	CO	10	6/9-11/2010	8.19	8.41	8.24	lb/hr	8.280	3	2.92	8.47	8.280	90	% Control
32	Carbon Furnace	CO	10	6/9-11/2010	90.4	87.5	97.3	lb/hr	91.733	3	2.92	100.22	91.733	90	% Control
101	Gas Boiler	CO	10	4/7/2010	1.272	1.22	1.132	lb/hr	1.208	3	2.92	1.33	1.208		lb/hr
113	Germ Dryer	CO	10	8/13/2014	0.08	0.12		lb/hr	0.100	2	6.314	0.23		engineering	
116	Spray Dryer	CO	10	6/3/2015	0.72	0.7	0.7	lb/hr	0.707	3	2.92	0.73		engineering	
162	Specialty Starch Dryer #6	CO	10	6/3/2015	0.55	0.38	0.38	lb/hr	0.437	3	2.92	0.60		engineering	
210	500 kW Generator	CO	10	11/29/2011	6.552	6.676	6.482	ppm	6.570	3	2.92	6.74	6.570	23	ppm
210	500 kW Generator	CO	10	11/29/2011	78.155	76.787	77.167	% Reduction	77.370	3	2.92	78.56	77.370	70	% Reduction
210	500 kW Generator	CO	10	6/13/2017	19.214	19.543	19.967	ppm dry	19.575	3	2.92	20.21			
210	500 kW Generator	CO	10	10/14/2019	9.1	10	10.4	ppm dry	9.833	3	2.92	10.96		23	ppm
210	500 kW Generator	CO	10	10/14/2019	86	86	86	% Reduction	86.000	3	2.92	86.00		70	% Reduction
210	500 kW Generator	CO	10	10/14/2019	6.3	8	7.9	ppm dry	7.400	3	2.92	9.01		23	ppm
210	500 kW Generator	CO	10	10/14/2019	81	75	76	% Reduction	77.333	3	2.92	82.75		70	% Reduction
258	500 kW Generator	CO	10	11/30/2011	0.291	0.289	0.232	lb/hr	0.271	3	2.92	0.33	0.271	3.86	lb/hr
258	500 kW Generator	CO	10	3/6/2012	93.856	93.973	93.9527	% Reduction	93.927	3	2.92	94.03	93.927	70	% Reduction
258	500 kW Generator	CO	10	6/13/2017	10.761	8.974	7.578	ppm dry	9.104	3	2.92	11.79			
258	500 kW Generator	CO	10	10/15/2019	2.9	3	3.1	ppm dry	3.000	3	2.92	3.17		23	ppm
258	500 kW Generator	CO	10	10/15/2019	99	99	99	% Reduction	99.000	3	2.92	99.00		70	% Reduction
258	500 kW Generator	CO	10	10/15/2019	3.7	3.3	3.3	ppm dry	3.433	3	2.92	3.82		23	ppm
258	500 kW Generator	CO	10	10/15/2019	93	94	94	% Reduction	93.667	3	2.92	94.64		70	% Reduction
258	500 kW Generator	CO	10	11/24/2020	11.9	11.4	11	ppm dry	11.433	3	2.92	12.19		23	ppm
258	500 kW Generator	CO	10	11/24/2020	95.2	95.1	95	% Reduction	95.100	3	2.92	95.27		70	% Reduction
258	500 kW Generator	CO	10	11/24/2020	6.3	6	5.7	ppm dry	6.000	3	2.92	6.51		23	ppm
258	500 kW Generator	CO	10	11/24/2020	87.5	87.9	88.8	% Reduction	88.067	3	2.92	89.19		70	% Reduction
258	500 kW Generator	CO	10	10/21/2021	13.5	14.3	15.1	ppm dry	14.300	3	2.92	15.65		23	ppm
258	500 kW Generator	CO	10	10/21/2021	93.3	92.7	91.6	% Reduction	92.533	3	2.92	93.99		70	% Reduction
258	500 kW Generator	CO	10	10/21/2021	13.7	8	7.7	ppm dry	9.800	3	2.92	15.50		23	ppm
258	500 kW Generator	CO	10	10/21/2021	78.2	87.6	86.9	% Reduction	84.233	3	2.92	93.06		70	% Reduction
258	500 kW Generator	CO	10	1/18/2023	44	42.8	28.6	ppm dry	38.467	3	2.92	52.91		23	ppm
258	500 kW Generator	CO	10	1/18/2023	82.2	82.2	87.6	% Reduction	84.000	3	2.92	89.26		70	% Reduction
258	500 kW Generator	CO	10	1/18/2023	11.4	10.5	10.2	ppm dry	10.700	3	2.92	11.75		23	ppm
258	500 kW Generator	CO	10	1/18/2023	72.1	76.8	77.2	% Reduction	75.367	3	2.92	80.15		70	% Reduction
410	RTO	CO	10	1/28-29/16	1.94	2.51	5.7	lb/hr	3.383	3	2.92	6.80		100	ppm

Source Tests

Operating Data			Operating Rate	Units	Maximum Rate	Units	% Tested vs. Rated	(ACFM)	(SCFM)	Agency Observer
Run 1	Run 2	Run 3								
7.2245	7.2245	7.2245	7.2245	ton/hr	10.1	ton/hr	72%	47049		Tony Daugherty
6.6355	6.4005	6.653	6.563	ton/hr	10.1	ton/hr	65%	53343		None
7.096	7.7095	7.914	7.573166667	ton/hr	10.1	ton/hr	75%	54234		None
7.734	7.4995	7.563	7.598833333	ton/hr	10.1	ton/hr	75%			None
9.518	9.518	9.518	9.518	ton/hr	10.1	ton/hr	94%	60298	50427	None
5.9565	5.9565	8.7815	6.898166667	ton/hr	12.5	ton/hr	55%	13100		?
5.25	5.25	5.25	5.25	ton/hr	7	ton/hr	75%	8790		Tony Daugherty
7.862	5.2415	6.4645	6.522666667	ton/hr	9.38	ton/hr	70%	51658	29653	Tony Daugherty
4.5	4.5	4.5	4.5	ton/hr	5	ton/hr	90%	47937	34968	None
							#DIV/0!	30899	16502	None (Engineerin
							#DIV/0!			
								48654	40651	
7.862	5.2415	6.4645	6.522666667	ton/hr	9.38	ton/hr	70%	51658	29653	Tony Daugherty
					15	ton/hr				None
								30899	16502	None (Engineerin
35750	35020	35020	35263.33333	lb/day	36000	lb/day	98%	3493		
35750	35020	35020	35263.33333	lb/day	36000	lb/day	98%	3493		
33869	34574	34574	34339	lb/day	36000	lb/day	95%	5619		
33869	34574	34574	34339	lb/day	36000	lb/day	95%	5619		
189000	189000	189000	189000	lb/hr	200000	lb/hr	95%	85423		
								48654	40651	
500	500	500	500	kW	500	kW	100%	NA		
500	500	500	500	kW	500	kW	100%	NA		
25% load	25% load	25% load	25% load							
25% load	25% load	25% load	25% load							
96% load	96% load	96% load	96% load							
96% load	96% load	96% load	96% load							
500	500	500	500	kW	500	kW	100%			
500	500	500	500	kW	500	kW	100%	NA		
24% load	24% load	24% load	24% load							
24% load	24% load	24% load	24% load							
92% load	92% load	92% load	92% load							
92% load	92% load	92% load	92% load							
30.6% load	30.6% load	30.6% load	30.6% load							
30.6% load	30.6% load	30.6% load	30.6% load							
99% load	99% load	99% load	99% load							
99% load	99% load	99% load	99% load							
27% load	27% load	27% load	27% load							
27% load	27% load	27% load	27% load							
100% load	100% load	100% load	100% load							
100% load	100% load	100% load	100% load							
28% load	28% load	28% load	28% load							
28% load	28% load	28% load	28% load							
101% load	101% load	101% load	101% load							
101% load	101% load	101% load	101% load							
7.862	5.2415	6.4645	6.522666667	ton/hr	9.38	ton/hr	70%	51658	29653	Tony Daugherty

Source Tests

EP	EU	Pollutant	Test Method	Test Date	Stack Test Summary				Average	n	t	CI	if <85%	Permit Limit	
					Run 1	Run 2	Run 3	units					Avg * (P/A)^2		
SO_2															
20	Germ Dryer	SO2	6C	5/3/1999	7.59	9.31	7.35	lb/hr	8.083	3	2.92	9.89	#DIV/0!		
20	Germ Dryer	SO2	6C	1/14/2010	0.24	0.26	0.2	lb/hr	0.233	3	2.92	0.28	#DIV/0!		
20	Germ Dryer	SO2	6C	8/13/2014	0.49	0.69		lb/hr	0.590	2	6.314	1.22		engineering	
				Group Statistics (20)					3.266	8	1.895	6.18			
32	Carbon Furnace	SO2	6C	3/29/2002	0.53	0.49	0.46	lb/hr	0.493	3	2.92	0.55	0.493	0.08	lb/hr
32	Carbon Furnace	SO2	6C	1/10/2023	0	0.0061	0.0015	lb/hr	0.003	3	2.92	0.01		1	lb/hr
40	Mill House Scrubber	SO2	6C	3/27/2002	0.12	0.08	0.09	lb/hr	0.097	3	2.92	0.13	0.097	8.5	lb/hr
40	Mill House Scrubber	SO2	6C	8/21/2002	0.04	0.07	0.09	lb/hr	0.067	3	2.92	0.11	NA	8.5	lb/hr
				Group Statistics (40)					0.082	6	2.015	0.10			
41	Steep House Scrubber	SO2	6C	3/27/2002	0.52	0.43	0.51	lb/hr	0.487	3	2.92	0.57	0.487	NA	lb/hr
41	Steep House Scrubber	SO2	6C	8/20/2002	0.12	0.26	0.3	lb/hr	0.227	3	2.92	0.39	0.340	NA	lb/hr
				Group Statistics (41)					0.357	6	2.015	0.49			
61	South Mod Tanks	SO2	6C	7/12/2016	0.003	0.002	0.004	lb/hr	0.003	3	2.92	0.00	#DIV/0!	0.01	lb/hr
71	North Mod Tanks	SO2	6C	7/12-13/16	0.002	0.002	0.002	lb/hr	0.002	3	2.92	0.00	#DIV/0!	0.01	lb/hr
109	Gluten Filter	SO2	6C	3/28/2002	2.27	2.64	2.65	lb/hr	2.520	3	2.92	2.89	2.520	NA	lb/hr
113	Germ Dryer	SO2	6C	3/28/2002	1.1	1.02	0.94	lb/hr	1.020	3	2.92	1.15	1.020	NA	lb/hr
113	Germ Dryer	SO2	6C	8/13/2014	0.23	0.26		lb/hr	0.245	2	6.314	0.34		engineering	
				Group Statistics (113)					0.710	5	2.132	1.12			
116	Spray Dryer	SO2	6C	9/10/2014	0.307	0.313		lb/hr	0.310	2	6.314	0.33		engineering	
161	POCl3 Scrubber	SO2	6C	7/12/2016	0.001	0.001	0.001	lb/hr	0.001	3	2.92	0.00		engineering	
248	Slurry Tank #6	SO2	6C	9/12/2016	89.82			ppm						engineering	
252	Slurry Tank #7	SO2	6C	9/15-16/16	3.71			ppm						engineering	
410	RTO	SO2	6C	1/28-29/16	0.23	0.53	0.4	lb/hr	0.387	3	2.92	0.64	0.800	5.02	lb/hr
452	Starch Centrifuge	SO2		6/19/2018	1.7	3	5.4	ppmvd	3.367	3	2.92	6.53		10	ppmvd
452	Starch Centrifuge	SO2		6/19/2018	1.20E-02	2.20E-02	4.30E-02	lb/hr	0.026	3	2.92	0.05			
VOC															
20	Germ Dryer	VOC	320	8/13/2014	23.58	23.91		lb/hr	23.745	2	6.314	24.79		engineering (lb/hr total)	
13	Truck Gluten/Germ Loadout	VOC	320	6/1/2022	0.35	0.34	0.33	lb/hr	0.340	3	2.92	0.36	0.878	5.8	lb/hr
32	Carbon Furnace	VOC	25A	3/10-13/2009	0.16	0.16	0.13	lb/hr	0.150	3	2.92	0.18	0.150	95	% Control
32	Carbon Furnace	VOC	25A	3/10-13/2009	37.9	31.5	32.1	lb/hr	33.833	3	2.92	39.79	33.833	95	% Control
32	Carbon Furnace	VOC	25A	6/9-11/2010	28.9	30.8	31.8	lb/hr	30.500	3	2.92	32.98	30.500	95	% Control
32	Carbon Furnace	VOC	25A	6/9-11/2010	0.47	0.29	0.24	lb/hr	0.333	3	2.92	0.54	0.333	95	% Control
33	Refinery Tanks	VOC	25A	8/1/2007	0.033	0.074		lb/hr	0.054	2	6.314	0.18		engineering (lb/hr total)	
40	Millhouse	VOC	320	6/2/2022	3.8	3.7	4.1	lb/hr	3.867	3	2.92	4.22	3.867	8.25	lb/hr
41	Steep Scrubber	VOC	25A	1/20/2009	6.21	3.33	6.16	lb/hr	5.233	3	2.92	8.01	#DIV/0!		
41	Steep Scrubber	VOC	207	12/3/2009	9.6	9.02	9.29	lb/hr	9.303	3	2.92	9.79	#DIV/0!		
61	South Mod Tanks	VOC	25A	8/1/2007	0.28	0.2	0.45	lb/hr	0.310	3	2.92	0.53		engineering	
71	North Mod Tanks	VOC	25A	7/31/2007	0.96	0.49		lb/hr	0.725	2	6.314	2.21		engineering	
90	#4 Starch Flash Dryer	VOC	320	6/1/2022	6.5	7.2	8.3	ppmvd	7.333	3	2.92	8.86	21.551	10	ppmvd
90	#4 Starch Flash Dryer	VOC	320	6/1/2022	3	3.3	3.9	lb/hr	3.400	3	2.92	4.17	9.992	10	ppmvd
90	#4 Starch Flash Dryer	VOC	320	6/2/2022	1.4	1.3	1.3	ppmvd	1.333	3	2.92	1.43	3.918	10	ppmvd
90	#4 Starch Flash Dryer	VOC	320	6/2/2022	0.64	0.58	0.57	lb/hr	0.597	3	2.92	0.66	1.753		
109	Gluten Filter	VOC	320	6/2/2022	2.9	2.3	2.3	lb/hr	2.500	3	2.92	3.08	2.500	5.12	lb/hr
113	Germ Dryer	VOC	320	8/13/2014	1.28	1.36		lb/hr	1.320	2	6.314	1.57		engineering (lb/hr total)	
116	Spray Dryer	VOC	320	9/10/2014	1.46	1.54		lb/hr	1.500	2	6.314	1.75		engineering (lb/hr total)	
160	Reactors	VOC	18	8/2/2007	4.32			lb/hr						engineering	
160	Reactors	VOC	320	6/3/2022	1.3	1.3	1	lb/hr	1.200	3	2.92	1.49	1.200	1.65	lb/hr
161	POCl3 Scrubber	VOC	18	7/31/2007	0.49	0.62		lb/hr	0.555	2	6.314	0.97		engineering	
162	Specialty Starch Dryer #6	VOC	320	9/9/2014	0.89	0.9		lb/hr	0.895	2	6.314	0.93		engineering	
246	Dry Gluten Receiver	VOC	18	8/1/2007	0.058			lb/hr						engineering	
253	EFA Process	VOC	25A	1/6/2010	1.27	1.38	1.23	lb/hr	1.293	3	2.92	1.42	8.503	8.99	lb/hr
320	Dryer	VOC	320	6/3/2022	0.19	0.18	0.19	lb/hr	0.187	3	2.92	0.20	0.282	2.93	lb/hr
410	RTO	VOC	25A	1/28-29/16	2.42	3.21	3.28	ppm	2.970	3	2.92	3.78	6.142	10	ppm

Source Tests

Operating Data										
Run 1	Run 2	Run 3	Operating Rate	Units	Maximum Rate	Units	% Tested vs. Rated	(ACFM)	(SCFM)	Agency Observer
			#DIV/0!	ton/hr		ton/hr	#DIV/0!			
4.2	4.2	4.2	4.2	ton/hr		ton/hr	#DIV/0!			
								30899	16502	None (Engineerin
98200	98200	98200	98200	bu/day	110000	bu/day	89%			
1268	1683	1093	1348	lbs/hr	1500	lbs/hr	90%	3268	2247	None
98700	98700	98700	98700	bu/day	110000	bu/day	90%			
90200	90200	90200	90200	bu/day	110000	bu/day	82%			
98700	98700	98700	98700	BPD	110000	BPD	90%			
89800	89800	89800	89800	BPD	110000	BPD	82%			
engineering								1176	1049	None (Engineerin
engineering								1484	1332	None (Engineerin
96,500	96500	96500	96500	BPD	110000	BPD	88%			
95500	95500	95500	95500	BPD	110000	BPD	87%			
								1460	1376	None (Engineerin
									162.7	None (Engineerin
									70.9	None (Engineerin
7.862	5.2415	6.4645	6.522666667	ton/hr	9.38	ton/hr	70%	51658	29653	Tony Daugherty
										None (Engineerin
										None (Engineerin
								30899	16502	None (Engineerin
73.4	71.5	107.1	84	ton/hr	135	ton/hr	62%	37670	36415	None
35750	35020	35020	35263.33333	lb/day	36000	lb/hr	98%	3493		
35750	35020	35020	35263.33333	lb/day	36000	lb/hr	98%	3493		
33869	34574	34574	34339	lb/day	36000	lb/hr	95%	5619		
33869	34574	34574	34339	lb/day	36000	lb/hr	95%	5619		
100850	100320	102813	101328	BPD	110000	BPD	92%	4274	3888	None
			#DIV/0!				#DIV/0!	17678	16056	
			#DIV/0!				#DIV/0!		20397	
									721	None (Engineerin
									3592	None (Engineerin
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	71986	67462	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	71986	67462	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	74027	69409	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	74027	69409	None
98801	101952	99575	100109	BPD	110000	BPD	91%	8564	8215	None
12.6	12.6	12.6	12.6	ton/hr	12.1	ton/hr	104%	1036	940	None
								52269	42282	None (Engineerin
11.7	11.7	11.7	12	ton/day	30	ton/day	39%	1306	1095	
5.7	5.7	5.7	6	ton/hr	7	ton/hr	81%	8554	7505	None
7.862	5.2415	6.4645	6.522666667	ton/hr	9.38	ton/hr	70%	51658	29653	Tony Daugherty

Source Tests

EP	EU	Pollutant	Test Method	Test Date	Stack Test Summary				Average	n	t	CI	if <85% Avg * (P/A)^2	Permit Limit	
					Run 1	Run 2	Run 3	units							
Hazardous Air Pollutants															
20	Germ Dryer	THAP	320	8/13/2014	3.77	3.43		lb/hr	3.600	2	6.314	4.673		engineering (lb/hr THAP total)	
20	Germ Dryer	Acetaldehyde	320	8/13/2014	3.17	2.83		lb/hr	3.000	2	6.314	4.073		engineering	
20	Germ Dryer	Acrolein	320	8/13/2014	0.11	0.12		lb/hr	0.115	2	6.314	0.147		engineering	
20	Germ Dryer	Methanol	320	8/13/2014	0.37	0.4		lb/hr	0.385	2	6.314	0.480		engineering	
20	Germ Dryer	Formaldehyde	320	8/13/2014	0.113	0.074		lb/hr	0.094	2	6.314	0.217		engineering	
13	Truck Gluten/Germ Loadout	THAP	320	6/1/2022	0.24	0.23	0.22	lb/hr	0.230	3	2.92	0.247	0.594	1.45	lb/hr
13	Truck Gluten/Germ Loadout	Methanol	320	6/1/2022	0.052	0.055	0.051	lb/hr	0.053	3	2.92	0.056	0.136		
13	Truck Gluten/Germ Loadout	Acetaldehyde	320	6/1/2022	0.19	0.18	0.17	lb/hr	0.180	3	2.92	0.197	0.465		
32	Carbon Furnace	Acetaldehyde	18	6/9-10/10	0.0154	0.0178		lb/hr	0.017	2	6.314	0.024		engineering	
32	Carbon Furnace	Acrolein	18	6/9-10/10	0.0009	0.0012		lb/hr	0.001	2	6.314	0.002		engineering	
32	Carbon Furnace	Methanol	18	6/9-10/10	0.0015	0.0055		lb/hr	0.004	2	6.314	0.016		engineering	
32	Carbon Furnace	Formaldehyde	18	6/9-10/10	0.0042	0.005		lb/hr	0.005	2	6.314	0.007		engineering	
33	Refinery Tanks	Acetaldehyde	18	8/1/2007	0.006	0.009		lb/hr	0.008	2	6.314	0.017		engineering	
33	Refinery Tanks	Methanol	18	8/1/2007	0.001	0.004		lb/hr	0.003	2	6.314	0.012		engineering	
33	Refinery Tanks	Formaldehyde	18	8/1/2007	0.001	0.002		lb/hr	0.002	2	6.314	0.005		engineering	
40	Millhouse	THAP	320	6/2/2022	0.17	0.18	0.2	lb/hr	0.183	3	2.92	0.209	0.183	1.05	lb/hr
40	Millhouse	Methanol	320	6/2/2022	0.062	0.06	0.067	lb/hr	0.063	3	2.92	0.069	0.063		
40	Millhouse	Formaldehyde	320	6/2/2022	0.012	0.011	0.012	lb/hr	0.012	3	2.92	0.013	0.012		
40	Millhouse	Acetaldehyde	320	6/2/2022	0.082	0.1	0.11	lb/hr	0.097	3	2.92	0.121	0.097		
40	Millhouse	Acrolein	320	6/2/2022	0.012	0.011	0.012	lb/hr	0.012	3	2.92	0.013	0.012		
41	Steep House	Acetaldehyde	207	12/3/2009	0.12	0.12	0.16	lb/hr	0.133	3	2.92	0.172	#DIV/0!		
41	Steep House	Acrolein	207	12/3/2009	0.02	0.02	0.02	lb/hr	0.020	3	2.92	0.020	#DIV/0!		
41	Steep House	Formaldehyde	207	12/3/2009	0.02	0.02	0.01	lb/hr	0.017	3	2.92	0.026	#DIV/0!		
41	Steep House	Methanol	207	12/3/2009	0.27	0.23	0.25	lb/hr	0.250	3	2.92	0.284	#DIV/0!		
61	South Mod Tanks	Acetaldehyde	18	8/1/2007	0.03	0.02	0.01	lb/hr	0.020	3	2.92	0.037		engineering	
61	South Mod Tanks	Formaldehyde	18	8/1/2007	0	0	0	lb/hr	0.000	3	2.92	0.000		engineering	
61	South Mod Tanks	Chloroform	18	8/1/2007	0.05	0.08	0.13	lb/hr	0.087	3	2.92	0.155		engineering	
71	North Mod Tanks	Acetaldehyde	18	7/31/2007	0.01	0.01		lb/hr	0.010	2	6.314	0.010		engineering	
71	North Mod Tanks	Methanol	18	7/31/2007	0.02	0.02		lb/hr	0.020	2	6.314	0.020		engineering	
71	North Mod Tanks	Formaldehyde	18	7/31/2007	0.01	0		lb/hr	0.005	2	6.314	0.037		engineering	
71	North Mod Tanks	Chloroform	18	7/31/2007	0.49	0.27		lb/hr	0.380	2	6.314	1.075		engineering	
90	#4 Starch Flash Dryer	THAP	320	6/1/2022	0.049	0.047	0.046	lb/hr	0.047	3	2.92	0.050	0.139	1.15	lb/ton
90	#4 Starch Flash Dryer	Methanol	320	6/1/2022	0.078	0.063	0.062	lb/hr	0.068	3	2.92	0.083			
90	#4 Starch Flash Dryer	Acetaldehyde	320	6/1/2022	0.3	0.3	0.3	lb/hr	0.300	3	2.92	0.300			
90	#4 Starch Flash Dryer	Acrolein	320	6/1/2022	0.073	0.076	0.072	lb/hr	0.074	3	2.92	0.077			
90	#4 Starch Flash Dryer	THAP	320	6/2/2022	0.82	0.84	0.85	ppmvd	0.837	3	2.92	0.862	2.459	2.5	ppmvd
90	#4 Starch Flash Dryer	Methanol	320	6/2/2022	0.045	0.045	0.44	lb/hr	0.177	3	2.92	0.561			
90	#4 Starch Flash Dryer	Acetaldehyde	320	6/2/2022	0.31	0.32	0.32	lb/hr	0.317	3	2.92	0.326			
109	Gluten Filter	THAP	320	6/2/2022	0.19	0.18	0.19	lb/hr	0.187	3	2.92	0.196	0.187	0.2	lb/hr
109	Gluten Filter	Acetaldehyde	320	6/2/2022	0.19	0.18	0.19	lb/hr	0.187	3	2.92	0.196			
113	Germ Dryer	THAP	320	8/13/2014	0.68	0.7		lb/hr	0.690	2	6.314	0.753		engineering (lb/hr THAP total)	
113	Germ Dryer	Acetaldehyde	320	8/13/2014	0.53	0.56		lb/hr	0.545	2	6.314	0.640		engineering	
113	Germ Dryer	Acrolein	320	8/13/2014	0.06	0.06		lb/hr	0.060	2	6.314	0.060		engineering	
113	Germ Dryer	Methanol	320	8/13/2014	0.07	0.07		lb/hr	0.070	2	6.314	0.070		engineering	
113	Germ Dryer	Formaldehyde	320	8/13/2014	0.02	0.03		lb/hr	0.025	2	6.314	0.057		engineering	
116	Spray Dryer	Acetaldehyde	320	9/10/2014	0.12	0.13		lb/hr	0.125	2	6.314	0.157		engineering	
116	Spray Dryer	Acrolein	320	9/10/2014	0.16	0.18		lb/hr	0.170	2	6.314	0.233		engineering	
116	Spray Dryer	Methanol	320	9/10/2014	0.04	0.05		lb/hr	0.045	2	6.314	0.077		engineering	
116	Spray Dryer	Formaldehyde	320	9/10/2014	0.03	0.03		lb/hr	0.030	2	6.314	0.030		engineering	
116	Spray Dryer	Propylene Oxide	320	9/10/2014	0.81	0.83		lb/hr	0.820	2	6.314	0.883		engineering	
160	Reactors	THAP	18	8/2/2007	4.32			lb/hr						engineering	
160	Reactors	Acetaldehyde	18	8/2/2007	0.002			lb/hr						engineering	
160	Reactors	Methanol	18	8/2/2007	0.002			lb/hr						engineering	
160	Reactors	Formaldehyde	18	8/2/2007	0.0001			lb/hr						engineering	
160	Reactors	Propylene Oxide	18	8/2/2007	4.32			lb/hr						engineering	
160	Reactors	THAP	320	6/3/2022	1.2	1.2	0.88	lb/hr	1.093	3	2.92	1.405	1.093	1.54	lb/hr
160	Reactors	Acetaldehyde	320	6/3/2022	0.0029	0.0053	0.0051	lb/hr	0.004	3	2.92	0.007	0.004	1.52	lb/hr
160	Reactors	Formaldehyde	320	6/3/2022	0.00051	0.00057	0.00058	lb/hr	0.001	3	2.92	0.001	0.001	1.52	lb/hr
160	Reactors	Methanol	320	6/3/2022	0.021	0.032	0.028	lb/hr	0.027	3	2.92	0.036	0.027	1.52	lb/hr
160	Reactors	Propylene Oxide	320	6/3/2022	1.1	1.1	0.84	lb/hr	1.013	3	2.92	1.266	1.013	1.52	lb/hr

Source Tests

Operating Data			Operating Rate	Units	Maximum Rate	Units	% Tested vs. Rated	(ACFM)	(SCFM)	Agency Observer
Run 1	Run 2	Run 3								
73.4	71.5	107.1	84	ton/hr	135	ton/hr	62%	37670	36415	None
73.4	71.5	107.1	84	ton/hr	135	ton/hr	62%	37670	36415	None
73.4	71.5	107.1	84	ton/hr	135	ton/hr	62%	37670	36415	None
									2787.5	
100850	100320	102813	101328	BPD	110000	BPD	92%	4274	3888	None
100850	100320	102813	101328	BPD	110000	BPD	92%	4274	3888	None
100850	100320	102813	101328	BPD	110000	BPD	92%	4274	3888	None
100850	100320	102813	101328	BPD	110000	BPD	92%	4274	3888	None
100850	100320	102813	101328	BPD	110000	BPD	92%	4274	3888	None
			#DIV/0!				#DIV/0!		20397	
			#DIV/0!				#DIV/0!		20397	
			#DIV/0!				#DIV/0!		20397	
			#DIV/0!				#DIV/0!		20397	
									721	None (Engineerin
									721	None (Engineerin
									721	None (Engineerin
									3592	None (Engineerin
									3592	None (Engineerin
									3592	None (Engineerin
									3592	None (Engineerin
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	71986	67462	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	71986	67462	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	71986	67462	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	71986	67462	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	74027	69409	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	74027	69409	None
9.23	9.32	9.45	9	ton/hr	16	ton/hr	58%	74027	69409	None
98801	101952	99575	100109	BPD	110000	BPD	91%	8564	8215	None
98801	101952	99575	100109	BPD	110000	BPD	91%	8564	8215	None
12.6	12.6	12.6	12.6	ton/hr	12.1	ton/hr	104%	1036	940	None
12.6	12.6	12.6	12.6	ton/hr	12.1	ton/hr	104%	1036	940	None
12.6	12.6	12.6	12.6	ton/hr	12.1	ton/hr	104%	1036	940	None
12.6	12.6	12.6	12.6	ton/hr	12.1	ton/hr	104%	1036	940	None
12.6	12.6	12.6	12.6	ton/hr	12.1	ton/hr	104%	1036	940	None

Source Tests

EP	EU	Pollutant	Test Method	Test Date	Stack Test Summary				Average	n	t	CI	if <85% Avg * (P/A)^2	Permit Limit	
					Run 1	Run 2	Run 3	units							
161	POCl3 Scrubber	THAP	18	7/31/2007	0.15	0.14		lb/hr	0.145	2	6.314	0.177		engineering	
161	POCl3 Scrubber	Acetaldehyde	18	7/31/2007	0.0004	0.0005		lb/hr	0.000	2	6.314	0.001		engineering	
161	POCl3 Scrubber	Methanol	18	7/31/2007	0.0004	0.0006		lb/hr	0.001	2	6.314	0.001		engineering	
161	POCl3 Scrubber	PO	18	7/31/2007	0.15	0.14		lb/hr	0.145	2	6.314	0.177		engineering	
162	Specialty Starch Dryer #6	THAP	320	9/9/2014	1.79	1.81		lb/hr	1.800	2	6.314	1.863		engineering	
162	Specialty Starch Dryer #6	Acetaldehyde	320	9/9/2014	0.16	0.16		lb/hr	0.160	2	6.314	0.160		engineering	
162	Specialty Starch Dryer #6	Acrolein	320	9/9/2014	0.2	0.21		lb/hr	0.205	2	6.314	0.237		engineering	
162	Specialty Starch Dryer #6	Methanol	320	9/9/2014	0.06	0.06		lb/hr	0.060	2	6.314	0.060		engineering	
162	Specialty Starch Dryer #6	Formaldehyde	320	9/9/2014	0.08	0.08		lb/hr	0.080	2	6.314	0.080		engineering	
320	Dryer	THAP	320	6/3/2022	0.13	0.13	0.13	lb/hr	0.130	3	2.92	0.130	0.196	1.17	lb/hr
320	Dryer	Formaldehyde	320	6/3/2022	0.0077	0.0078	0.0078	lb/hr	0.008	3	2.92	0.008			
320	Dryer	Acetaldehyde	320	6/3/2022	0.091	0.084	0.09	lb/hr	0.088	3	2.92	0.095			
320	Dryer	Chloroform		6/3/2022	0.035	0.035	0.035	lb/hr	0.035	3	2.92	0.035			
210	500 kW Generator	Formaldehyde	320	12/28/2016	426	253	257	ppb	312.000	3	2.92	478.474		580	ppb
246	Dry Gluten Receiver	THAP	18	8/1/2007	0.005			lb/hr						engineering	
246	Dry Gluten Receiver	Acetaldehyde	18	8/1/2007	0.003			lb/hr						engineering	
246	Dry Gluten Receiver	Methanol	18	8/1/2007	0.002			lb/hr						engineering	
258	500 kW Generator	Formaldehyde	320	12/29/2016	214	212	213	ppb	213.000	3	2.92	214.686		580	ppb
452	Starch Centrifuge	Acetaldehyde	320	6/19/2018	4.40E-02	4.50E-02	5.30E-02	lb/hr	0.047	3	2.92	0.056			
452	Starch Centrifuge	Acrolein	320	6/19/2018	0	0	5.70E-03	lb/hr	0.002	3	2.92	0.007			

Other Cargill facility tests															
105.013	Gluten Loadout Conveying #1	PM	5 / 202 bh	12/15-16/98	0.0022	0.0045	0.0021	gr/dscf	0.003	3	2.92	0.005	#DIV/0!		lb/hr
105.013	Gluten Loadout Conveying #1	PM	5 / 202 bh	12/15-16/98	0.06	0.12	0.06	lb/hr	0.080	3	2.92	0.138	#DIV/0!		lb/hr
70	Gluten Loadout Conveying #1	PM	5 / 202 bh	6/8/1995	0.001245	0.001335	0.001612	gr/dscf	0.001	3	2.92	0.002	#DIV/0!		lb/hr
70	Gluten Loadout Conveying #1	PM	5 / 202 bh	6/8/1995	0.019	0.019	0.024	lb/hr	0.021	3	2.92	0.026	#DIV/0!		lb/hr
1	#3 Starch Dryer	SO2		5/22/1997			0.38	lb/hr							
1	#3 Starch Flash Dryer	VOC		1999 ENSR Study	17.5	17.5	17.5	lb/ton	17.500	3	2.92	17.500	#DIV/0!		
Blair NE	Millhouse	VOC	18	4/14/2004	14.07	13.66		lb/hr	13.865	2	6.314	15.159		engineering	
Blair NE	Millhouse	Acetaldehyde	18	4/14/2004	0.4	0.33		lb/hr	0.365	2	6.314	0.586		engineering	
Blair NE	Millhouse	Acrolein	18	4/14/2004	0	0		lb/hr	0.000	2	6.314	0.000		engineering	
Blair NE	Millhouse	Methanol	18	4/14/2004	0	0		lb/hr	0.000	2	6.314	0.000		engineering	
Blair NE	Millhouse	Formaldehyde	18	4/14/2004	0.03	0.03		lb/hr	0.030	2	6.314	0.030		engineering	

Other Tests															
32	Carbon Furnace	HCN	6/9-11/10		0.25	0.32	0.26	lb/hr	0.277	3	2.92	0.340		engineering	

Source Tests

Operating Data			Operating Rate	Units	Maximum Rate	Units	% Tested vs. Rated	(ACFM)	(SCFM)	Agency Observer
Run 1	Run 2	Run 3								
5.7	5.7	5.7	6	ton/hr	7	ton/hr	81%	8554	7505	None
5.7	5.7	5.7	6	ton/hr	7	ton/hr	81%	8554	7505	None
5.7	5.7	5.7	6	ton/hr	7	ton/hr	81%	8554	7505	None
5.7	5.7	5.7	6	ton/hr	7	ton/hr	81%	8554	7505	None
										None (engineerin
										None (engineerin
			#DIV/0!	ton/hr			#DIV/0!	3313	3163	Unknown
			#DIV/0!	ton/hr			#DIV/0!	3313	3163	Unknown
			#DIV/0!	ton/hr			#DIV/0!	1811	1721	Unknown
			#DIV/0!	ton/hr			#DIV/0!	1811	1721	Unknown
			#DIV/0!	lb/hr	26000	lb/hr	#DIV/0!		96258	Memphis Test

Monitoring

EP	EU Description	Opacity Monitoring	Controlled Minor	Controlled Significant	Controlled Major	Uncontrolled Minor	Uncontrolled Significant	Uncontrolled Major	O&M Type	Test (#/Pollutant)	Notes
1	#3 Starch Flash Dryer #3 Starch Flash Dryer	Yes	PM/PM10/PM2.5/SO2	-	-	PM2.5/CO	PM,PM10/VOC	-	**None**		No CAM based on 2015 stack test results. PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
5	Bulk Soda Ash Loadout	Yes	PM/PM10/PM2.5	-	-	PM10,PM2.5	PM	-	Facility		
6	#5 Starch Bulk Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
8	#7 Starch Bulk Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
9	C* Starch Bin #8	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
11	Corn Truck Unload	Yes	PM/PM10/PM2.5	-	-	PM10,PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
12	Gluten Sizing System	Yes	PM/PM10/PM2.5	-	-	PM2.5	PM/PM10	-	**None**	PM	PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
13	Truck Gluten/Germ Loadout Rail Gluten Loadout	Yes	PM/PM10/PM2.5 PM/PM10/PM2.5	-	-	PM2.5, VOC	PM10	PM	CAM		
14	Gluten Scale Gluten Conveying	Yes	PM/PM10/PM2.5 PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
15	East Germ Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
16	West Germ Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
17	West Gluten Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
20	Germ Dryer Burner Gluten Steam Tube Dryer - new Germ Dryer Sections 1-4 Waste Gas Steepwater Evaporator Bran Dewatering System	No	PM/PM10/PM 2.5/SO2	-	-	PM/PM10/PM2.5/ SO2/NOx/CO/VOC	-	-	**None**		
23	Germ Dryer Burner Germ Dryer Sections 1-4	No		-	-	PM/PM10/PM2.5/SO2/NOx/CO/VOC	-	-	**None**		
24	Precoat Bin From Railcar	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-			
27	#3 Starch Bulk Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
32	Carbon Furnace Carbon Furnace Burner	Yes	PM/PM10/PM2.5/SO2/VOC/CO	-	-	PM/PM10/SO2/NOx	PM2.5	CO	**None**		
33	HCL Tank A HCL Tank B Acid Storage Tank Acid Head Tank Acidification Tank Converter Feed Tank Carbon Column Feed Tank	Yes	VOC/HAP	-	-	VOC	-	HAP	CAM	PM (HCl)	
37	Corn Cleaning & Conveying Aspiration	Yes	PM/PM10/PM2.5	-	-	PM2.5	PM/PM10	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
40	Mill Aspiration System Gluten Tank Clarifier Feed Tank Primary Feed Tank Clarifiers MST Feed Tank Millwater Tank	No	SO2/VOC	-	-	SO2	VOC	-	Facility		Based on 2022 test results, uncontrolled VOC is no longer > 100 tpy. No longer subject to CAM. PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
41	Steep Tanks	Yes	PM/PM10/PM2.5/SO2/VOC	-	-	PM/PM2.5/SO2	PM10	VOC	CAM		CAM is sufficient for Facility O&M for PM10
43	Vacuum Cleaner Vent--Starch Area (East)	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
51	50 Pound Bagger Industrial Starch Super Sacker Food Starch Super Sacker A/B Bins	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
52	#1 Starch Bulk Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
58	Starch Truck Loadout	Yes	PM/PM10/PM2.5	-	-	PM2.5/VOC	PM/PM10	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
61	Modifiation Tank 4 Modification Tank 5 Modification Tank 6 Modification Tank 7 Modification Tank 8	No	SO2	-	-	SO2/VOC	-	-	**None**		
65	Starch Rail Loadout	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
68	Cracked Corn Hammermill	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
70	Starch Modification Tank 1 Starch Modification Tank 2 Starch Washer 1 Starch Washer 2 Soda Ash Storage Tank 3 SBS Tank Starch	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/SO2/VOC	-	-	**None**	VOC	
71	Starch Modification Tank 9 Starch Modification Tank 10 Starch Modification Tank 12 Starch Modification Tank 14 Starch Modification Tank 15 Starch Modification Tank 16 Starch Modification Tank 17	Yes	PM/PM10/PM2.5/SO2	-	-	PM/PM10/PM2.5/SO2/VOC	-	-	**None**		
79	Industrial Starch Loadout	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
85	#10 Starch Bulk Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria

Monitoring

EP	EU Description	Opacity Monitoring	Controlled Minor	Controlled Significant	Controlled Major	Uncontrolled Minor	Uncontrolled Significant	Uncontrolled Major	O&M Type	Test (#/Pollutant)	Notes
90	Starch Flash Dryer #4 Starch Flash Dryer #4 Burner	Yes	PM2.5/SO2	PM/PM10	-	SO2/VOC	PM2.5	PM/PM10	CAM		
91	#11 Industrial Starch Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
92	#12 Industrial Starch Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5		-	**None**		
93	#13 Industrial Starch Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
94	#18 Industrial Starch Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
95	Starch Surge Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
100	224 MMBtu Gas Boiler	No	NOx	-	-	PM/PM10/PM2.5/SO2/VOC/CO	NOx	-	**None**		Subject to post 1990 NESHAP so CAM doesn't apply
101	#2 Gas Boiler	No	-	NOx	-	PM/PM10/PM2.5/SO2/VOC/CO	-	NOx	**None**		Subject to post 1990 NESHAP so CAM doesn't apply
102	#14 Industrial Starch Storage Bin	No	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
103	C* Film Vertical Bin #15	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
104	#16 Industrial Starch Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
105	#17 Industrial Starch Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
109	Gluten Filter Aspiration Bran Dewatering System	No	SO2/VOC	-	-	SO2	VOC	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
113	Germ Dryer Section 5 Germ Dryer Burner	No	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/SO2/NOx/VOC/CO	-	-	**None**		
115	Specialty Starch Bulk Truck Loadout	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
116	Starch Spray Dryer #5 Starch Spray Dryer #5 Burner	Yes	SO2/NOx/CO/VOC/PM/PM10/PM2.5	-	-	SO2, NOx, CO, VOC	PM10/PM2.5	PM	CAM		
118	Salt Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
119	#19 Starch Bulk Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
120	#20 Starch Bulk Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
121	#21 Starch Bulk Storage Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
124	Packer Hopper Vent	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
130	Corn Silos 1-4	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
149	Starch Bulk Bagger	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
153	Sodium Sulfate Receiving	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
155	Industrial Grade Starch Packer/Blower	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
160	PO Storage Reactor #131 Reactor #132 Reactor #134 Reactor #135 Stripper #2	No	VOC	-	-	VOC	HAP	-	**None**		Subject to post 1990 NESHAP so CAM doesn't apply
161	POCL3 Storage H2SO4 Storage Tank Deactivation Tank Modification Tank #101 Modification Tank #102 Modification Tank #103 Modification Tank #104 nOSA Tank Modification Tank #105	No	VOC	-	-	SO2/VOC	-	-	**None**	VOC HAP	
162	Flash Dryer #6 Flash Dryer #6 Burner	Yes	PM/PM10/PM2.5/SO2	-	-	SO2/NOx/VOC/PM2.5	PM/PM10/PM2.5	-	**None**		No CAM based on most recent stack tests data
164	Starch Storage Bin #104	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
165	Starch Storage Bin #105	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
166	Starch Storage Bin #106	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
167	Specialty Starch Storage Bin #107	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
169	Specialty Starch Storage Bin #109	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
170	Warehouse Receiver	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
171	Starch Storage Bin 108	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
173	Starch Packer Super Sacker Cleanup Vacuum	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		
174	Starch Grinder Discharge Receiver	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
175	Starch Warehouse Vacuum Receiver	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
176	Waxy Corn Silo #1 Waxy Corn Silo #2	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
177	Grain Receiving Pit	Yes	PM/PM10/PM2.5	-	-	PM2.5	PM10	PM	CAM	PM	
210	500 kW Emergency Engine	No	-	-	-	PM/PM10/PM2.5/SO2/NOx/VOC/CO	-	-	**None**		
230	Cracked Corn Conveying	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
240	Starch Reslurry System	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
245	East Gluten Bin	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
246	Dry Gluten Receiver	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
247	Wet Feed Loadout	No	-	-	-	SO2/VOC	-	-	**None**		
248	Starch Slurry Tank #6	No	-	-	-	SO2/VOC	-	-	**None**		
249	East Gluten Filter Vacuum Pump	No	-	-	-	SO2/VOC	-	-	**None**		
250	Middle Gluten Filter Vacuum Pump	No	-	-	-	SO2/VOC	-	-	**None**		
251	West Gluten Filter Vacuum Pump	No	-	-	-	SO2/VOC	-	-	**None**		
252	Starch Slurry Tank #7	No	-	-	-	SO2/VOC	-	-	**None**		
254	Starch Slurry Tank #5	No	-	-	-	SO2/VOC	-	-	**None**		
255	Rail Germ Loadout Germ Conveying	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
258	500 kW Non-Emergency Engine	No	CO	-	-	PM/PM10/PM2.5/SO2/NOx/VOC/CO	-	-	**None**		
260	East Dilute Phase Pot	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		

Monitoring

EP	EU Description	Opacity Monitoring	Controlled Minor	Controlled Significant	Controlled Major	Uncontrolled Minor	Uncontrolled Significant	Uncontrolled Major	O&M Type	Test (#/Pollutant)	Notes
262	West Dilute Phase Pot	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
263	Elevator Tunnel Vacuum Filter	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	Facility		
265	West Dilute Supersack Receiver	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
266	West Dense Supersack Receiver	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
267	West Supersack Vacuum System	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
268	West Dilute Supersack Surge Bin	No	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		Update permit - remove no VE - vents indoors
269	West Dense Supersack Surge Bin	No	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		Update permit - remove no VE - vents indoors
300	C* Fim Starch Receiving Filter Weight Feeder	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
320	Starch Dryer Starch Hopper	Yes	PM/PM10/PM2.5	-	-	PM/PM2.5/VOC	PM10	-	**None**		
330	Modified Starch Receiving Filter	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
340	Sifter	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
350	Product Hopper	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
360	Product Receiving Filter	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
370	C* Film Loadout Surge Hopper	Yes	PM/PM10/PM2.5	-	-	PM10/PM2.5/VOC	PM	-	**None**		PTO meets 40 CFR §70.6(a)(3)(i)(b) criteria
380	C* Cooling Tower	No	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
390	Food Starch Sifter	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5/VOC	-	-	**None**		
410	Germ Dryer Burner Gluten Steam Tube Dryer - new Germ Dryer Sections 1-4 Waste Gas Steepwater Evaporator Bran Dewatering System Germ Dryer Section 5 Germ Dryer Burner RTO Burner	Yes	PM/PM10/PM2.5/SO2/VOC/CO	-	-	SO2/NOx	PM/PM10/PM2.5	VOC/CO/HAP	**None**		
450	Starch Slurry Tank #8 Turbilizer Merco O/F Tank Mod Tank #101 Deactivation Tank Wash Merco Feed Tank Merco 36	No	SO2	-	-	SO2/VOC	-	-	**None**		
452	Starch Centrifuge	No		-	-	SO2/VOC/HAP	-	-	**None**		
453	Dryer 3 Paddle Mixer, Rotosieve, Surge Hopper	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
454	Dryer 4 Paddle Mixer, Rotosieve, Surge Hopper	Yes	PM/PM10/PM2.5	-	-	PM/PM10/PM2.5	-	-	**None**		
516	Refinery Loadout Boiler	No	-	-	-	PM/PM10/PM2.5/SO2/NOx/VOC/CO	-	-	**None**		

Periodic Monitoring Summary

			PM	PM_{10}	SO_2	NO_x	CO	VOC	HAP
Total Stack tests		8	1	0	0	0	0	7	0
CEMS/COMS		2							
O&M Plans	CAM	6							
	Agency	0							
	Facility	3							
Opacity Monitoring		83							

*All opacity monitoring is required on a weekly basis unless otherwise noted under the Periodic Monitoring Summary

40 CFR 70.6(a)(3)(i)(b) states the following:

designed to serve as monitoring), periodic monitoring sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the permit, as reported pursuant to paragraph (a)(3)(iii) of this section. Such monitoring requirements shall assure use of terms, test methods, units, averaging periods, and other statistical conventions consistent with the applicable requirement. Recordkeeping provisions may be sufficient to meet the requirements of this paragraph (a)(3)(i)(B) of this section;

PTE-GHG

Data from Tables C-1 and C-2 to Subpart C of Part 98 as identified in IDNR's GHG Estimation of GHG Emissions

	HHV, MMBtu/gallon for Diesel Fuel HHV, MMBtu/scf for Nat Gas HHV, MMBtu/scf for Coal	CO_2 Emission Factor lb CO_2/MMBtu	CH_4 Emission Factor lb CH_4/MMBtu	N_20 Emission Factor lb N_2O/MMBtu
Natural Gas	0.001028	116.98	0.0022	0.00022
Diesel, #2	0.138	163.05	0.0066	0.0013
Coal	24.93	205.91	0.024	0.0035
Soda Ash	NA	830		

Conversion Factors	
2.20462	lbs = 1 kg
0.90718	metric tons = 1 ton

EP	EU	Rated Capacity	Units	Metric Tons CO_2	Short Tons CO_2	Metric Tons CH_4	Short Tons CH_4	Metric Tons N_2O	Short Tons N_20	Notes
5	Bulk Soda Ash Loadout	24	ton/hr	79151.09	87249.60	0.00	0.00	0.00	0.00	
20	20A Germ Dryer Burner	38	MMBtu/hr	17662.93	19470.15	0.33	0.37	0.03	0.04	
32	Carbon Furnace	26.8	MMBtu/hr	12457.02	13731.58	0.23	0.26	0.02	0.03	
100	Gas Boiler	224	MMBtu/hr	104118.33	114771.42	1.96	2.16	0.20	0.22	
101	#2 Gas Boiler	275	MMBtu/hr	127823.85	140902.41	2.40	2.65	0.24	0.26	
113	113B Germ Dryer Burner	38	MMBtu/hr	17662.93	19470.15	0.33	0.37	0.03	0.04	
116	Spray Dryer	18	MMBtu/hr	8366.65	9222.70	0.16	0.17	0.02	0.02	
162	Flash Dryer #6	18.3	MMBtu/hr	8506.10	9376.41	0.16	0.18	0.02	0.02	
210	500 kW Diesel Engine	5.0094	MMBtu/hr	185.24	204.20	0.01	0.01	0.00	0.00	500 hours
258	500 kW Diesel Engine	5.0508	MMBtu/hr	1494.19	1647.07	0.06	0.07	0.01	0.01	4000 hours
516	Refinery Loadout Boiler	8.4	MMBtu/hr	3904.44	4303.93	0.07	0.08	0.01	0.01	
410	RTO Burner	18	MMBtu/hr	8366.65	9222.70	0.16	0.17	0.02	0.02	
				0.00	0.00	0.00	0.00	0.00	0.00	
			Totals:	389699.42	429572.32	5.88	6.48	0.59	0.66	
			CO2 Equivalents:	389699.42	429572.32	123.41	136.04	184.22	203.07	
			GHG (Mass Basis):		429579.45					
			GHG (CO_2e Basis):	390007.05	429911.43					

CO2e	GWP CO2 = 1 CH4 = 21 N2O = 310 HFC-134a = 1300

		Lbs/Hr								
EU#	**EU Description**	**CO**	**NO_x**	**SO_2**	**Total PM**	**PM_{10}**	**$PM_{2.5}$**	**VOC**	**High Risk Toxics**	**low risk toxics**
EU-451	Heavy Steepwater Tank			negligible				160		160
IU-10	Aspiration of Sewer Pit				300	300	300			
IU-35	Vacuum Filter Pumps			negligible				160		160
IU-69	Cracked Corn Conveying				526	526	526			
IU-148	93% Sulfuric Acid Tank				4	4	4			
IU-501	500 Gallon Fuel Oil Tank							100		
IU-502	500 Gallon Diesel Tank							50		
IU-513	Mod House Sewer Vent				300	300	300			
IU-514	Sewage Drum Vacuum Pump				1800	180	1800			
IU-515	Germ Wash Water Tank			negligible				10		10
IU-516	Light Steepwater Tank A			negligible				10		10
IU-517	Light Steepwater Tank B			negligible				10		10
IU-518	3rd Stage Fiber Wash Tank			negligible				10		10
IU-519	6th Stage Fiberwash Tank			negligible				10		10
IU-520	Emergency Flush Water Tank			negligible				10		10
IU-521	Defoaming Tank			negligible				10		10
IU-522	Gluten Mill Water Tank			negligible				10		10
IU-523	Gluten Thickener Feed Tank (East)			negligible				10		10
IU-524	Dorrclone Feed Tank			negligible				10		10
IU-525	Dorrclone Wash Water Tank			negligible				10		10
IU-526	DCWW 93% Sulfuric Acid Tank			4	4	4	4			
IU-527	SBS Mill Storage Tank			negligible						
IU-528	Gluten Filtrate Spray Wash Tank			negligible				10		10
IU-529	Blue Tank			negligible				10		10
IU-530	Mixsteep Tank			negligible				10		10
IU-531	Neutralizer Tank				negligible	negligible	negligible			negligible
IU-532	Hydrolyzate Tank				negligible	negligible	negligible			negligible
IU-533	Liquid Holding Tank			negligible				10		10
IU-534	Mud Tank			negligible				10		10
IU-535	Sweet H2O Tank							10		10
IU-536	Used Carbon Tank			negligible				10		10
IU-537	Used Carbon Tank			negligible				10		10
IU-538	Candle Filter Precoat									negligible
IU-539	Evap Feed Tank							10		10
IU-540	South Hot Well							negligible		negligible
IU-541	SBS Tank Refinery			ne						
IU-542	North Hot Well							negligible		negligible
IU-543	Quab 69% Storage Tank							negligible		
IU-544	SBS Tank Starch			negligible						
IU-545	Temp Chemical Storage Tank			negligible				10		10
IU-546	#3 Flash Dryer Filtrate Tank			negligible				10		10
IU-547	#3 Flash Dryer Head Tank			negligible				10		10
IU-548	#4 Dryer Merco U/F Tank			negligible				10		10
IU-549	#4 Dryer Head Tank			negligible				10		10
IU-550	#4 Dryer Filtrate Tank			negligible				10		10
IU-551	Press Wash Water Tank									negligible
IU-552	#4 Flash Dryer CIP Tank									negligible
IU-553	Spec Starch Reclaim Tank			negligible				10		10
IU-554	Liquefaction Deactivation Tank			negligible				10		10
IU-555	Liquefaction pH Adjustment Tank			negligible				10		10
IU-556	Neutralization Tank - Specialty			negligible				10		10
IU-557	Press Starch Head Tank			negligible				10		10
IU-558	Wash Merco Overflow Tank			negligible				10		10
IU-559	Wash Merco Feed Tank			negligible				10		10
54	TPY	0.00	0.00	0.00	1.47	0.66	1.47	0.32	0.00	0.25

Final Permit		
Start Date	6/19/2024	< ---- Enter the commencement Date
Expiration	6/18/2029	Expiration Date if it is 5 years
Renewal	12/18/2028	Permit Renewal Application Deadline - 6 months prior to Expiration date

1 Year	6/18/2025	Deadline of 1st test if requiring 2 tests
2 Years	6/18/2026	Deadline of only one test
2.5 Years	12/18/2026	Beginning of 1 yr window for the 2nd test if requiring 2 tests
3.5 Years	12/18/2027	Ending of 1 yr window for the 2nd test if requiring 2 tests

Public Notice		
Start Date	5/9/2024	< ---- Enter the start of public notice date
30 days	6/7/2024	End of 30 day public notice period
45 days	6/22/2024	End of EPA's 45 day review period

12/14/2023	Application Received
2/9/2024	Additional Information Received