

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

Name of Permitted Facility: Xerxes Corporation

Facility Location: 515 West South Street, Tipton, Iowa 52772

Air Quality Operating Permit Number: 99-TV-049R3

Expiration Date: June 25, 2022

Permit Renewal Application Deadline: December 25, 2021

EIQ Number: 92-5586

Facility File Number: 16-01-004

Responsible Official

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section

Date

Table of Contents

I. Facility Description and Equipment List	4
II. Plant - Wide Conditions.....	5
III. Emission Point Specific Conditions	10
IV. General Conditions.....	22
G1.Duty to Comply	
G2.Permit Expiration	
G3.Certification Requirement for Title V Related Documents	
G4.Annual Compliance Certification	
G5.Semi-Annual Monitoring Report	
G6.Annual Fee	
G7.Inspection of Premises, Records, Equipment, Methods and Discharges	
G8.Duty to Provide Information	
G9.General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification	
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification	
G18. Duty to Modify a Title V Permit	
G19. Duty to Obtain Construction Permits	
G20. Asbestos	
G21. Open Burning	
G22. Acid Rain (Title IV) Emissions Allowances	
G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements	
G24. Permit Reopenings	
G25. Permit Shield	
G26. Severability	
G27. Property Rights	
G28. Transferability	
G29. Disclaimer	
G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification	
G31. Prevention of Air Pollution Emergency Episodes	
G32. Contacts List	
V. Appendix:	36

Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP.....	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
NESHAP.....	National Emission Standards for Hazardous Air Pollutants
ppmv	parts per million by volume
lb./hr.....	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC	Standard Industrial Classification
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC.....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Xerxes Corporation

Permit Number: 99-TV-049R3

Facility Description: Manufacturing of Reinforced Plastic (SIC 3089)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-S101	EU-M101	UST Fiberglass Tank Fabrication	88-A-051-S5
EP-S102	EU-M102	UST Fiberglass Tank Fabrication	88-A-052-S5
EP-S103	EU-M103	UST Fiberglass Tank Fabrication	88-A-053-S5
EP-S104	EU-M104	UST Fiberglass Tank Fabrication	88-A-054-S5
EP-S105	EU-M105	UST Fiberglass Tank Fabrication	88-A-055-S6
EP-S106	EU-M106	UST Fiberglass Tank Fabrication	88-A-056-S6
EP-S107	EU-M107	UST Fiberglass Tank Fabrication	88-A-057-S6
EP-S108	EU-M108	UST Fiberglass Tank Fabrication	88-A-058-S6
EP-S109A	EU-M109A	UST Fiberglass Tank Fabrication	88-A-059-S6
EP-S109B	EU-M109B	UST Fiberglass Tank Fabrication	88-A-060-S6
EP-S110	EU-M110	Grinding and Cutting Operations	93-A-317-S1
EP-S112	EU-Tank1	Polyester Resin Storage Tank (5640 gal.)	None
	EU-Tank2	Polyester Resin Storage Tank (5640 gal.)	None
	EU-Tank3	Polyester Resin Storage Tank (5640 gal.)	None
	EU-Tank4	Polyester Resin Storage Tank (5640 gal.)	None
MISC-VOC	MISC-VOC	Miscellaneous Manufacturing Aids	05-A-866-S2

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
S1	Sandblasting Operations
SL	Storage Lot
MUA1	Space Heater, Natural Gas 2.25 MMCF/yr
MUA2	Space Heater, Natural Gas 2.25 MMCF/yr

II. Plant-Wide Conditions

Facility Name: Xerxes Corporation
Permit Number: 99-TV-049R3

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

Permit Duration

The term of this permit is: Five years from permit issuance.
Commencing on: June 26, 2017
Ending on: June 25, 2022

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

Emission Limits

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

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

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

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

NESHAP –Subpart WWWW

This facility is subject to NESHAP Subpart A – General Provisions and Subpart WWWW – National Emission Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production. The affected units include the UST Fiberglass Tank Fabrication Molds (EP-S101 to EP-S109B), the Resin Storage Tanks (EP-S112), and Miscellaneous Plant-wide VOC emissions (MISC-VOC). Per the applicability criteria in Sec. 63.5785 and the definition of existing in §63.5935, these are existing sources subject to 40 CFR 63 Subpart WWWW.

The link to NESHAP Subpart WWWW is attached as Appendix A to this permit and the requirements in NESHAP Subpart WWWW have been incorporated in this permit.

The permittee shall comply with all applicable requirements of Subpart WWWW. This facility must demonstrate compliance with the standards by April 21, 2006 or the facility must accept and meet an enforceable HAP emissions limit below the major source threshold prior to April 21, 2006. The initial notification was received on June 4, 2003.

The facility must meet the requirements of paragraphs (a) through (h) of 40 CFR §63.5805 that applies. According to 40 CFR §63.5805, currently this facility must meet the organic HAP emissions limits in Table 3 to this subpart and the work practice standards in Table 4 to this

subpart that apply. The facility may elect to comply using applicable options described in §63.5810 through §63.5830 to meet the standards.

Emission Limits

As required in 40 CFR §63.5860(a) initial compliance with organic HAP emissions limits must be demonstrated by one of the following options found in Table 8 of Subpart WWWW.

- i) You have met the appropriate organic HAP emissions limits for these operations as calculated using the procedures in section §63.5810 on a 12-month rolling average one year after the appropriate compliance date, and/or
- ii) You demonstrate that any individual resins or gel coats not included in i) above, as applied, meet their applicable emission limits, or
- iii) You demonstrate by using the appropriate values in Table 7 to subpart WWWW that the weighted average of all resins and gel coats for each resin type and application method meet the appropriate organic HAP contents.

Table 3 to Subpart WWWW of Part 63 – summarizes the emission limits for various types of processes all emitting less than 100 TPY of HAP. Below are the operations at this facility that are subject to the limitations in Table 3 of Subpart WWWW.

			Equations Used to Determine Compliance With Emission Limits	
Type of Operation	Type of Application	HAP Emission Limit	Use if < 33% organic HAP (19% organic HAP for non-atomized gel coat)	Use if 33% or more organic HAP (19% organic HAP for non-atomized gel coat)
Open molding – corrosive resistant and high strength	Mechanical resin application (nonatomized)	113 lb/ton	$EF = 0.107 \times \%HAP \times 2000$	$EF = ((0.157 \times \%HAP) - 0.0165) \times 2000$
	Manual resin application	123 lb/ton	$EF = 0.126 \times \%HAP \times 2000$	$EF = ((0.286 \times \%HAP) - 0.0529) \times 2000$
Open molding – tooling	Mechanical resin application (nonatomized)	254 lb/ton	$EF = 0.107 \times \%HAP \times 2000$	$EF = ((0.157 \times \%HAP) - 0.0165) \times 2000$
	Manual resin application	157 lb/ton	$EF = 0.126 \times \%HAP \times 2000$	$EF = ((0.286 \times \%HAP) - 0.0529) \times 2000$
Open molding – gel coat	Tooling gel coating (atomized)	440 lb/ton	$EF = 0.445 \times \%HAP \times 2000$	$EF = ((1.03646 \times \%HAP) - 0.195) \times 2000$
	Tooling gel coating (nonatomized)	440 lb/ton	$EF = 0.185 \times \%HAP \times 2000$	$EF = ((0.4506 \times \%HAP) - 0.0505) \times 2000$
	Corrosion resistant or high strength (nonatomized)	605 lb/ton	$EF = 0.185 \times \%HAP \times 2000$	$EF = ((0.4506 \times \%HAP) - 0.0505) \times 2000$

Requirement for Reports

1. Per Section §63.5810, to determine compliance with the organic HAP limits, the necessary calculations must be completed within 30 days after the end of each month.
2. Per Section §63.5905, an Initial Notification containing the information specified in §63.9(b)(2) must be submitted no later than the effective date of the standard, August 19, 2003. The initial notification was received on June 4, 2003.
3. As required in Section §63.5910 you must submit a compliance report semiannually according to the requirements in §63.5910(b). See Table 14 in 40 CFR Part 63 Subpart WWWW for a summary of reports that may apply to your facility.

Authority for Requirement: 40 CFR Part 63 Subpart WWWW
567 IAC 23.1(4)"cw"

Work Practice Standards

Table 4 to Subpart WWWW of Part 63 – summarizes the Work Practice Standards as required in 40 CFR §63.5805. Below are the operations at this facility that are subject to the Work Practice Standards in Table 4 of Subpart WWWW and the means to demonstrate initial compliance.

Type of operation	Work Practice Standard	Initial Compliance
Existing cleaning operation	Must not use cleaning solvents that contain HAP, except that styrene may be used as a cleaner in closed systems, and organic HAP containing cleaners may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin.	The owner or operator must submit a certified statement in the notice of compliance status that all cleaning materials, except styrene contained in closed systems, or materials used to clean cured resin from application equipment contain no HAP.
Existing materials HAP-containing materials storage operation	Must keep containers that store HAP-containing materials closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety.	The owner or operator must submit a certified statement in the notice of compliance status that all HAP-containing storage containers are kept closed or covered except when adding or removing materials, and that any bulk storage tanks are vented only as necessary for safety.
An existing or new mixing or bulk molding compound (BMC) manufacturing operation	Must use mixer covers with no visible gaps present in the mixer covers, except that gaps of up to 1 inch are permissible around mixer shafts and any required instrumentation	The owner or operator submits a certified statement in the notice of compliance status that mixer covers are closed during mixing except when adding materials to the mixers, and that gaps around mixer shafts and required

		instrumentation are less than 1 inch.
An existing mixing or BMC manufacturing operation	Must close any mixer vents when actual mixing is occurring, except that venting is allowed during addition of materials, or as necessary prior to adding materials or opening the cover for safety.	The owner or operator submits a certified statement in the notice of compliance status that mixers are not actively vented to the atmosphere when the agitator is turning, except when adding materials or as necessary for safety.
Type of operation	Work Practice Standard	Initial Compliance
A new or existing mixing or BMC manufacturing operation	Must keep the mixer covers closed while actual mixing is occurring except when adding materials or changing covers to the mixing vessels.	The owner or operator submits a certified statement in the notice of compliance status that mixers closed except when adding materials to the mixing vessels.

Requirement for Reports

1. Per Section §63.5810, to determine compliance with the organic HAP limits, the necessary calculations must be completed within 30 days after the end of each month.
2. Per Section §63.5905, an Initial Notification containing the information specified in §63.9(b)(2) must be submitted no later than the effective date of the standard, August 19, 2003. The initial notification was received on June 4, 2003.
3. As required in Section §63.5910 you must submit a compliance report semiannually according to the requirements in §63.5910(b). See Table 14 in 40 CFR Part 63 Subpart WWWW for a summary of reports that may apply to your facility.

Authority for Requirement: 40 CFR Part 63 Subpart WWWW
567 IAC 23.1(4)"cw"

III. Emission Point-Specific Conditions

Facility Name: Xerxes Corporation
 Permit Number: 99-TV-049R3

Emission Point ID Number: UST Fiberglass Tank Fabrication Molds

Associated Equipment

Associated Emission Unit ID Numbers: See Table 1

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

Table1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, lb resin/hr	Construction Permit
EP-S101	EU-M101	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-051-S5
EP-S102	EU-M102	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-052-S5
EP-S103	EU-M103	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-053-S5
EP-S104	EU-M104	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-054-S5
EP-S105	EU-M105	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-055-S6
EP-S106	EU-M106	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-056-S6
EP-S107	EU-M107	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-057-S6
EP-S108	EU-M108	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-058-S6
EP-S109A	EU-M109A	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-059-S6
EP-S109B	EU-M109B	UST Fiberglass Tank Fabrication Mold	Resin	125.0	88-A-060-S6

Applicable Requirements

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

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

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr ⁽¹⁾	tons/yr ⁽²⁾	Other Limits	Reference/Basis
Volatile Organic Compounds (VOC)	NA	162.9 ⁽³⁾⁽⁴⁾	NA	PSD Synthetic Minor

⁽¹⁾ The emission limit is expressed as the average of three (3) runs.

⁽²⁾ The emission limit is based on a twelve (12) month rolling total.

⁽³⁾ This emission limit is based on a maximum material usage of 5,357,000 pounds of polymer materials (i.e., resin, gel coats and adhesives) and other additive materials (e.g., catalyst, promoter, hardener, etc.) per each twelve-month rolling period for Emission Units EU-M101, EU-M102, EU-M103, EU-M104, EU-M105, EU-M106, EU-M107, EU-M108, EU-M109A, and EU-M109B, combined.

(4) This emission limit is to reduce the VOC potential to emit to keep the facility below the “major emitting facility” classification as defined in Title I of the Clean Air Act, *Part C – Prevention of Significant Deterioration of Air Quality Sec.169. Definitions.*

Emission Limits – National Emission Standards for Hazardous Air Pollutants (Subpart WWWW)

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr ⁽¹⁾	tons/yr ⁽²⁾	Other Limits	Reference/Basis
Total Organic HAP	NA	NA	Open Molding – CR/HS ⁽³⁾ Operation Mechanical Resin Application: 113 lb/ton Manual Resin Application: 123 lb/ton	567 IAC 23.1(4)“cw” & Table 3 to Subpart WWWW of 40 CFR Part 63
			Open Molding – Tooling Mechanical Resin Application: 254 lb/ton Manual Resin Application: 157 lb/ton	
			Open Molding – Gel Coat Tooling Gel Coat: 113 lb/ton White/Off-white Pigmented Gel Coat: 113 lb/ton All Other Pigmented Gel Coat: 123 lb/ton	

(1) The emission limit is expressed as the average of three (3) runs.

(2) The emission limit is based on a twelve (12) month rolling total.

(3) CR/HS: Corrosion-Resistant and/or High Strength Open Molding Operation.

Emission Limits – National Emission Standards for Hazardous Air Pollutants (Subpart PPPP)

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr ⁽¹⁾	tons/yr ⁽²⁾	Other Limits	Reference/Basis
Total Organic HAP	NA	NA	0.16 lb organic HAP/lb coating solids	567 IAC 23.1(4)“cp” ⁽³⁾

(1) The emission limit is expressed as the average of three (3) runs.

(2) The emission limit is based on a twelve (12) month rolling total.

(3) Iowa DNR reference to 40 CFR Part 63, Subpart PPPP – *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products.*

Operational Limits & Requirements

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

National Emission Standards for Hazardous Air Pollutants (NESHAP):

This facility (Plant No. 16-01-004) is subject to the requirements in 40 CFR Part 63, Subpart PPPP – *National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products* [567 IAC 23.1(4)“cp”]. In addition, any affected emission unit at this facility (Plant No. 16-01-004) is subject to the requirements in 40 CFR Part 63, Subpart A – *General Provisions* [567 IAC 23.1(4)“a”], except as indicated in Table 2 of 40 CFR Part 63, Subpart PPPP.

This facility (Plant No. 16-01-004) is subject to the requirements in 40 CFR Part 63, Subpart WWWW – *National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production* [567 IAC 23.1(4)“cw”], because it owns and operates a reinforced plastic composites production facility that is located at a major source of HAP emissions. In addition, any affected emission unit at this facility (Plant No. 16-01-004) is subject to the requirements in 40 CFR Part 63, Subpart A – *General Provisions* [567 IAC 23.1(4)“a”], except as indicated in Table 15 of 40 CFR Part 63, Subpart WWWW.

Authority for Requirement: DNR Construction Permits specified in Table I

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner.

VOC EMISSION REQUIREMENTS

- A. The amount of polymer materials (i.e., resin, gel coats and adhesives) and other additive materials (e.g., catalyst, promoter, hardener, etc.) used shall not exceed 5,357,000 pounds per each twelve-month rolling period for Emission Units EU-M101, EU-M102, EU-M103, EU-M104, EU-M105, EU-M106, EU-M107, EU-M108, EU-M109A, and EU-M109B, combined.
 - i. The owner or operator shall record monthly and twelve-month rolling totals of all polymer materials (i.e., resin, gel coats and adhesives) and other additive materials (e.g., catalyst, promoter, hardener, etc.) used at emission units EU-M101, EU-M102, EU-M103, EU-M104, EU-M105, EU-M106, EU-M107, EU-M108, EU-M109A, and EU-109B, combined.

- B. The monthly weighted average VOC emission rates from any polymer used in Emission Units EU-M101, EU-M102, EU-M103, EU-M104, EU-M105, EU-M106, EU-M107, EU-M108, EU-M109A, and EU-M109B shall not exceed 0.0608 lb VOC/lb polymer as applied as specified below.
 - i. The owner or operator shall determine the VOC emission rate, in lb VOC/lb polymer, from emission units EU-M101, EU-M102, EU-M103, EU-M104, EU-

M105, EU-M106, EU-M107, EU-M108, EU-M109A, and EU-M109B using the following methodology:

- 1) Styrene emissions shall be calculated using the applicable HAP content equations from Table 1 of NESHAP Subpart WWWW.
 - 2) Alpha methyl styrene (AMS) emissions shall be estimated using an emission factor of 55% of the styrene emission factor, where AMS content is substituted for styrene content as calculated in Permit Condition 5.B.i.1.
 - 3) Methyl methacrylate (MMA) emissions from open molding shall be estimated using an emission factor of 75% of the MMA monomer content.
 - 4) Methyl methacrylate (MMA) emissions used in reactive adhesives shall be estimated using an emission factor of 2% by weight of the material used.
 - 5) Dimethyl phthalate (DMP) emissions shall be estimated using an emission factor of 0.04% of the DMP content.
 - 6) 100% of the methyl ethyl ketone (MEK) content shall be estimated to be emitted from the methyl ethyl ketone peroxide (MEKP) catalyst.
 - 7) If there are other VOC components, the owner or operator shall estimate that 100% of the VOC component is emitted.
- ii. The owner or operator shall average the total VOC emission rate on a monthly basis.

C. The owner or operator shall maintain a copy of the Safety Data Sheet (SDS) for each material used at emission units EU-M101, EU-M102, EU-M103, EU-M104, EU-M105, EU-M106, EU-M107, EU-M108, EU-M109A, and EU-M109B

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS REQUIREMENTS – SUBPART WWWW

D. In accordance with 40 CFR §63.5835, the owner or operator shall be in compliance at all times with the applicable organic HAP emission limits included in Table 3 to Subpart WWWW of 40 CFR Part 63 and listed in this permit (See Condition 1b. *Emission Limits – National Emission Standards for Hazardous Air Pollutants - Subpart WWWW*).

- i. The owner or operator shall use the applicable equations from Table 1 to Subpart WWWW of 40 CFR Part 63 to calculate the organic HAP emission factors for the specific molding operation conducted at the facility (Plant No. 16-01-004). These emission factors shall be used to demonstrate compliance with the Organic HAP emission limits in Table 3 to Subpart WWWW.
- ii. The owner or operator shall calculate and record the HAP content, in pounds per ton, of the gel coat and resin, as applied (with all additives included). These records shall include the applicable equations from Table 1 of Subpart WWWW and shall be kept for each month and each twelve-month rolling period.

E. In accordance with 40 CFR §63.5835, the owner or operator shall be in compliance at all times with the applicable work practice standards included in Table 4 to Subpart WWWW of 40 CFR Part 63.

- iii. The owner or operator shall keep monthly records of each work practice performed as

required in Table 4 to Subpart WWWW of Part 63.

- F. As indicated in 40 CFR §63.5810, the owner or operator shall use one of the following methods to meet the standards for open molding in Table 3 to Subpart WWWW of Part 63:
- iv. Demonstrate that an individual resin or gel coat, as applied, meets the applicable emission limit in Table 3; or,
 - v. Demonstrate that, on average, the facility (Plant No. 16-01-004) meets the individual organic HAP emissions limits for each combination of operation type and resin application method or gel coat type; or,
 - vi. Demonstrate compliance with a weighted average emission limit; or,
 - vii. Meet the organic HAP emissions limit for one application method and use the same resin(s) for all application methods of that resin type.
 - viii. The owner or operator shall keep record of which method from 40 CFR §63.5810 is used to meet the standards for open molding in Table 3 to Subpart WWWW of Part 63.
- G. The owner or operator shall comply with the applicable requirements in 40 CFR Part 63, Subpart WWWW – *National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production* [§63.5780 - §63.5935], including those not specifically mentioned in this permit. If differences in language are found between this permit and Subpart WWWW, the language specified in Subpart WWWW shall be considered correct.
- H. The owner or operator shall comply with the notification, reporting, and recordkeeping requirements as outlined in 40 CFR §63.5905, §63.5910, and §63.5915, respectively.

**NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS
REQUIREMENTS – SUBPART PPPP**

- I. In accordance with 40 CFR §63.4490, the owner or operator shall be in compliance at all times with the applicable organic HAP emission limits included in 40 CFR §63.4500 and listed in this permit (See Condition 1c. *Emission Limits – National Emission Standards for Hazardous Air Pollutants - Subpart PPPP*).
- J. As indicated in 40 CFR §63.4491, the owner or operator shall use one of the following methods to meet the emission limits of Subpart PPPP of Part 63:
- i. Compliant material option. Demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in §63.4490, and that each thinner and/or other additive, and cleaning material used contains no organic HAP,
 - ii. Emission rate without add-on controls option. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.4490, calculated as a rolling 12-month emission rate and determined on a monthly basis; or,
 - iii. Emission rate with add-on controls option. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), and the emissions reductions achieved by emission capture systems and add-on

controls, the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.4490, calculated as a rolling 12-month emission rate and determined on a monthly basis. If you use this compliance option, you must also demonstrate that all emission capture systems and add-on control devices for the coating operation(s) meet the operating limits required in §63.4492, except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.4561(j), and that you meet the work practice standards required in §63.4493.

- K. The owner or operator shall comply with the operating limits as outlined in 40 CFR §63.4492. For any coating operation(s) on which the facility uses the compliant material option or the emission rate without add-on controls option, the facility is not required to meet any operating limits.
- L. The owner or operator shall comply with the work practice standards as outlined in 40 CFR §63.4493. For any coating operation(s) on which the facility uses the compliant material option or the emission rate without add-on controls option, the facility is not required to meet any work practice standards.
- M. The owner or operator shall comply with the notification, reporting, and recordkeeping requirements as outlined in 40 CFR §63.4510, §63.4520, and §63.4530, respectively

Authority for Requirement: DNR Construction Permits specified in Table I

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Emission Point Number	Emission Unit Number	Construction Permit #	Stack Characteristics				Discharge Style
			Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (°F)	
EP-S101	EU-M101	88-A-051-S5	48.3	30	4400	70	Vertical, unobstructed
EP-S102	EU-M102	88-A-052-S5	48.3	30	4400	70	Vertical, unobstructed
EP-S103	EU-M103	88-A-053-S5	48.3	30	4400	70	Vertical, unobstructed
EP-S104	EU-M104	88-A-054-S5	48.3	30	4400	70	Vertical, unobstructed
EP-S105	EU-M105	88-A-055-S6	48.3	30	7450	70	Vertical, unobstructed
EP-S106	EU-M106	88-A-056-S6	48.3	30	5280	70	Vertical, unobstructed
EP-S107	EU-M107	88-A-057-S6	48.3	30	6900	70	Vertical, unobstructed
EP-S108	EU-M108	88-A-058-S6	48.3	30	8000	70	Vertical, unobstructed
EP-S109A	EU-M109A	88-A-059-S6	48.3	48	4400	70	Vertical, unobstructed
EP-S109B	EU-M109B	88-A-060-S6	48.3	30	7450	70	Vertical, unobstructed

Authority for Requirement: DNR Construction Permits specified in Table I

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-S110

Associated Equipment

Associated Emission Unit ID Numbers: EU-M110

Emissions Control Equipment ID Number: CE-VAC110

Emissions Control Equipment Description: Two-Stage Mechanical Separator and Baghouse

Emission Unit vented through this Emission Point: EU-M110

Emission Unit Description: Grinding and Cutting Operations

Raw Material/Fuel: Unfinished fiberglass laminate

Rated Capacity: 0.60 lb laminate/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 93-A-317-S1
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.171 lb/hr

Authority for Requirement: DNR Construction Permit 93-A-317-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.171 lb/hr; 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 93-A-317-S1
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operational limits are not required at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 13.5

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (acfm): 400

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-S112*

Associated Equipment

Associated Emission Unit ID Numbers: EU-Tank1; EU-Tank2; EU-Tank3; EU-Tank4

*May also include other small containers that contain styrene. See Plant-Wide condition for the work practice and review notes for explanations.

Emission Unit Descriptions, Raw Material/Fuel and Rated Capacity are listed in the following table:

EP=Emission Point, EU=Emission Unit

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-S112	EU-Tank1	Polyester Resin Storage Tank (5640 gal.)	Resin	0.0084 lb/hr
	EU-Tank2	Polyester Resin Storage Tank (5640 gal.)	Resin	0.0084 lb/hr
	EU-Tank3	Polyester Resin Storage Tank (5640 gal.)	Resin	0.0084 lb/hr
	EU-Tank4	Polyester Resin Storage Tank (5640 gal.)	Resin	0.0084 lb/hr

Applicable Requirements

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

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

Not applicable at this time.

Operational Limits & Requirements

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

These units are subject to the work practice standard for storage of HAP-containing materials defined in 40 CFR Part 63, Subpart WWWW – National Emission Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production. A summary of Subpart WWWW and Work Practice Standards is found in the Plant Wide Conditions.

Authority for Requirement: 40 CFR Part 63 Subpart WWWW
567 IAC 23.1(4) "cw"

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP MISC-VOC (Internally Vented)

Associated Equipment

Associated Emission Unit ID Numbers: MISC-VOC

Emission Unit vented through this Emission Point: MISC-VOC

Emission Unit Description: Miscellaneous Manufacturing Aids*

Raw Material/Fuel: Miscellaneous materials that contain VOC/HAP

Rated Capacity: Variable (20,000 pounds per year of non-polymer VOC materials)

*May include, but is not limited to putty, mold sealing and release agents and mold stripping and cleaning agents.

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 10.0 tons/yr ⁽¹⁾

Authority for Requirement: DNR Construction Permit 05-A-866-S2

⁽¹⁾ This emission limit is based on a maximum material usage of 20,000 pounds of non-polymer VOC materials per each twelve-month rolling period during activities associated with Miscellaneous Manufacturing Aids (EU-MISC-VOC). It is expected that these materials consist of 100 percent VOC.

Operational Limits & Requirements

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

National Emission Standards for Hazardous Air Pollutants (NESHAP):

This facility (Plant No. 16-01-004) is subject to the requirements in 40 CFR Part 63, Subpart PPPP – *National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products* [567 IAC 23.1(4)“cp”]. In addition, any affected emission unit at this facility (Plant No. 16-01-004) is subject to the requirements in 40 CFR Part 63, Subpart A – *General Provisions* [567 IAC 23.1(4)“a”], except as indicated in Table 2 of 40 CFR Part 63, Subpart PPPP.

This facility (Plant No. 16-01-004) is subject to the requirements in 40 CFR Part 63, Subpart WWWW – *National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production* [567 IAC 23.1(4)“cw”], because it owns and operates a reinforced plastic composites production facility that is located at a major source of HAP emissions. In addition, any affected emission unit at this facility (Plant No. 16-01-004) is subject to the requirements in 40 CFR Part 63, Subpart A – *General Provisions* [567 IAC 23.1(4)“a”], except as indicated in Table 15 of 40 CFR Part 63, Subpart WWWW.

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner.

- A. The amount of non-polymer VOC materials used during activities associated with Miscellaneous Manufacturing Aids (EU-MISC-VOC) shall not exceed 20,000 pounds per each twelve-month rolling period. It is expected that these materials consist of 100 percent VOC.
 - i. The owner or operator shall record monthly and twelve-month rolling totals of all non-polymer VOC materials used during activities associated with Miscellaneous Manufacturing Aids (EU-MISC-VOC).
- B. The owner or operator shall ensure that the activities associated with Miscellaneous Manufacturing Aids (EU-MISC-VOC) will not cause the exceedance of the VOC emission limit included in this permit (see *Emission Limits*, shown above).
- C. The owner or operator shall maintain a copy of the Safety Data Sheet (SDS) for each material used during activities associated with Miscellaneous Manufacturing Aids (EU-MISC-VOC).

Authority for Requirement: DNR Construction Permit 05-A-866-S2

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.

- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
- 2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
- 3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
 - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

- 1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
 - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
 - b. Compliance test methods specified in 567 Chapter 25; or
 - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
- 2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a. Any monitoring or testing methods provided in these rules; or
 - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act.
 - e. The changes comply with all applicable requirements.
 - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that is required to do any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification.
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
 - ii. The permittee's suggested draft permit
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the

department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1

909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 3

1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 5

7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(515) 725-0268

Polk County Public Works Dept.

Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Field Office 2

2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 4

1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 6

1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Linn County Public Health Dept.

Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

V. Appendix

- A. 40 CFR 63 Subpart WWWW – National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production

<http://www.epa.gov/ttn/atw/rpc/fr25au05.pdf>

- B. 40 CFR 63 Subpart PPPP – National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products

<https://www.gpo.gov/fdsys/pkg/CFR-2015-title40-vol13/pdf/CFR-2015-title40-vol13-part63-subpartPPPP.pdf>