

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

**Name of Permitted Facility: Winnebago Industries, Inc. -
Forest City**

**Facility Location: 605 West Crystal Lake Rd
Forest City, IA 50436**

Air Quality Operating Permit Number: 05-TV-002R1

Expiration Date: December 29, 2015

Permit Renewal Application Deadline: June 29, 2015

EIQ Number: 92-5528

Facility File Number: 95-01-001

Responsible Official

Name: Mr. Daryl Krieger

Title: Vice President of Manufacturing

**Mailing Address: 605 West Crystal Lake Road
Forest City, IA 50436**

Phone #: (641) 585-6316

Permit Contact Person for the Facility

Name: Mr. Wayne M. Venzke

Title: Environmental Engineer

**Mailing Address: 605 West Crystal Lake Road
Forest City, IA 50436**

Phone #: (641) 585-6760

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

Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

Table of Contents

I. Facility Description and Equipment List	4
II. Plant-Wide Conditions.....	10
III. Emission Point Specific Conditions	15
IV. General Conditions.....	84
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 A – 40 CFR 63 Subpart JJ (links)	97
VI. Appendix B – 40 CFR 63 Subpart WWWW (links).....	109

VII. Appendix C – 40 CFR 63 Subpart MMMM (links)111

VIII. Appendix D – 40 CFR 63 Subpart PPPP (links)112

Abbreviations

acfm.....actual cubic feet per minute
 CEcontrol equipment
 CFR.....Code of Federal Regulation
 °F.....degrees Fahrenheit
 EIQ.....emissions inventory questionnaire
 gr/dscfgrains per dry standard cubic foot
 gr/100 cf.....grains per one hundred cubic feet
 IAC.....Iowa Administrative Code
 IDNR.....Iowa Department of Natural Resources
 MDI.....4, 4'-methylene diphenyl diisocyanate
 MVAC.....motor vehicle air conditioner
 NSPSnew source performance standard
 ppmvparts per million by volume
 lb/hrpounds per hour
 lb/MMBtupounds per million British thermal units
 scfm.....standard cubic feet per minute
 TPY.....Tons per year
 USEPA.....United States Environmental Protection Agency

Pollutants

PM.....particulate matter
 PM₁₀particulate matter ten microns or less in diameter
 SO₂sulfur dioxide
 NO_xnitrogen oxides
 VOCvolatile organic compound
 CO.....carbon monoxide
 HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Winnebago Industries, Inc.

Permit Number: 05-TV-002R1

Facility Description: Primary: Motor Homes Production (SIC 3716)

Equipment List

A. Dust Collectors

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
981-D01-P	981-D01-U	North Sawmill Dust Collector Exhaust	96-A-093-S3
981-D03-P	981-D03-U	South Sawmill Dust Collector Exhaust	96-A-094-S3

B. Mix Rooms

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
951-E01-P	951-E01-U	Vertical Paint Mix Room	96-A-1321
959-E01-P	959-E01-U	Shipout Paint Vault Exhaust	05-A-469-S1
970-E01-P	970-E01-U	Customer Service Mix Room	96-A-1319
977-E01-P	977-E01-U	Small Parts E-Coat Mix Room	96-A-098
979-E01-P	979-E01-U	Line 4 Paint Mix Room	96-A-104
987-E01-P	987-E01-U	Full Body Paint Mix Room	02-A-370-S1

C. Internally Vented Sources

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
970-F01-P	970-F01-U	Customer Service Area Fugitives	NA
971-F01-P	971-F01-U	Stitchcraft Area Fugitives	NA
977-F01-P	977-F01-U	Chassis Prep Area Fugitives	NA
977-F03-P	977-F03-U	Adhesive/Sealant Spray Emissions – Chassis Prep	NA
977-F04-P	977-F04-U	Large Part E-Coat Paint/Rinse Tank Emissions	NA
979-F01-P	979-F01-U	Motor Home Plant Fugitives	NA
979-F04-P	979-F04-U	Motor Home Plant Paint Emissions	NA
981-F01-P	981-F01-U	Sawmill Fugitives	NA
990-F01-P	990-F01-U	Powder Paint Area Fugitives	NA

D. Hot Melt – Roll Coaters

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
973-G01-P	973-G01-U	Van Shop Reactive Hot Melt Roll Coater	00-A-007-S7
979-G01-P	979-G01-U	MHP Panel Lam. Roll Coaters	01-A-1057-S2
979-G02-P	979-G02-U	MHP Panel Lam. Roll Coaters	01-A-1059-S2
979-G03-P	979-G03-U	MHP Panel Lam. Roll Coaters	01-A-1062-S2
979-G04-P	979-G04-U	MHP Panel Lam. Roll Coaters	01-A-1063-S2
979-G05-P	979-G05-U	MHP Panel Lam. Roll Coaters	01-A-1064-S2
979-G06-P	979-G06-U	MHP Panel Lam. Roll Coaters	01-A-1065-S2

E. Glue Operations – Sawmill - Roll Applicators

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
981-G01-P	981-G01-U	Sawmill Glue Machine Exhaust Stack – Roll Applicator	96-A-760-S2
981-G04-P	981-G04-U	Sawmill Glue Machine Exhaust Stack – Roll Applicator	96-A-761-S2

F. Ovens

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
951-O03-P	951-O03-U	Vertical Paint Bake Oven Stack	05-A-562
951-O05-P	951-O05-U	Vertical Paint Bake Oven Stack	05-A-563
977-O02-P	977-O08-U	Large Part Undercoat Entrance Exhaust	00-A-854
977-O08-P		Large Part Undercoat Main Combustion/VOC Exhaust	00-A-856
977-O03-P	977-O04-U	Large Part E-Coat Entrance Exhaust Stack (O03)	NA
977-O04-P		Large Part E-Coat Combustion/VOC Exhaust Stack (O04)	00-A-855
977-O05-P		Large Part E-coat Exit Exhaust Stack (O05)	NA
977-O08-P	977-O08-U	Large Part Undercoat Main Combustion/VOC Exhaust	00-A-856
978-O03-P	978-O03-U	Small Part Topcoat Oven Exhaust	88-A-099-S1
978-O04-P	978-O05-U	Small Part E-Coat Secondary Combustion Exhaust	96-A-101
978-O05-P		Small Part E-Coat VOC Exhaust	96-A-102-S2
979-O01-P	979-O01-U	Line 4 Cure Oven Exhaust Stack	88-A-096-S1
990-O01-P	990-O01-U	Powder Paint Dry Off Combustion Exhaust	00-A-858
990-O03-P	990-O03-U	Powder Paint Cure Oven Combustion Exhaust	96-A-1293-S2
	990-O04-U	Powder Paint Cure Oven VOC Exhaust	

G. Cutting/Grinding/Stripping Operations

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
973-P06-P	973-P06-U	Plastic Grinder	04-A-555
978-P01-P	978-P01-U	Laser Cutting Machine	98-A-206
978-P02-P	978-P02-U	Laser Cutting Machine	98-A-1123
978-P03-P	978-P03-U	Laser Cutting Machine	99-A-408-S1
978-P04-P	978-P04-U	Laser Cutting Machine	00-A-641-S1
991-P01-P	991-P01-U	CAPCO Extrusion Line Die Strip Tank Exhaust	96-A-701-S2

H. Vertical Paint Silo

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
951-S01-P	951-S01-U	Vertical Paint Silo #1 Exhaust Stack	05-A-560-P-S1
951-S02-P	951-S02-U	Vertical Paint Silo #2 Exhaust Stack	05-A-561-P-S1

I. Customer Service Booths

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
970-S01-P	970-S01-U	Customer Service Dry Filter Paint Booth - West Stack	90-A-062-S3
970-S02-P		Customer Service Dry Filter Paint Booth - East Stack	99-A-307-S2
970-S03-P	970-S03-U	Customer Service Dry Filter Adhesive Booth – North Stack	02-A-038-S2
970-S04-P		Customer Service Dry Filter Adhesive Booth – South Stack	02-A-039-S2
970-S05-P	970-S05-U	Customer Service Cabinet Bench Stain Spray Booth	02-A-040-S2

J. Van Conversion Booths

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
973-S01-P	973-S01-U	Van Conversion Dry Filter Paint Booth	92-A-657-S4
973-S02-P	973-S02-U	Van Conversion Dry Filter Paint Booth	92-A-658-S4
973-S05-P	973-S05-U	Van Shop Surface Preparation Booth	96-A-088-S2

K. Line 4 Spray Booths

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
979-S01-P	979-S01-U	Line 4 Basecoat Spray Booth #1, W. Stack	88-A-093-S4
979-S02-P		Line 4 Basecoat Spray Booth #1, E. Stack	88-A-094-S8
979-S03-P	979-S03-U	Line 4 Basecoat Spray Booth #2, W. Stack	88-A-095-S4
979-S04-P		Line 4 Basecoat Spray Booth #2, E. Stack	88-A-048-S4
979-S05-P	979-S05-U	Line 4 Clearcoat Spray Booth., W. Stack	96-A-103-S3
979-S06-P		Line 4 Clearcoat Spray Booth., E. Stack	01-A-1271-S2
979-S08-P	979-S08-U	Off-line Touch-up Spray Booth, E. Stack	94-A-251-S2
979-S09-P		Off-line Touch-up Spray Booth, W. Stack	03-A-1072
979-S10-P	979-S10-U	Line 4 Touch-up Spray Booth, W. Stack	00-A-600-S3
979-S11-P		Line 4 Touch-up Spray Booth, E. Stack	01-A-1272

L. Fiberglassing Booths

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
982-S08-P	982-S08-U	Tooling Resin Spray Booth	96-A-092-S5
982-S09-P			96-A-090-S2
982-S11-P	982-S11-U	Fiberglass Chop Booth	09-A-489-S1
982-S12-P			09-A-490-S1
982-S13-P			09-A-491-S1
982-S14-P	982-S14-U	Gelcoat Booth	09-A-492-S1

M. Full Body Paint Spray Booths

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
987-S02-P	987-S02-U	Full Body Paint – Basecoat Spray Booth	96-A-089-S1
987-S03-P			98-A-211-S2
987-S04-P	987-S04-U	Full Body Paint – Clearcoat Spray Booth	00-A-601-S1
987-S05-P			98-A-212-S3

Paint / Spray Booths

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
982-S10-P	982-S10-U	Model Shop Paint Booth	06-A-1146
987-S01-P	987-S01-U	Maintenance Dry Filter Spray Booth	96-A-089-S1

N. Test Vehicle Exhausts

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
959-P02-P	959-P02-U	Shipout Road Test Booth	05-A-571
970-V01-P	970-V01-U	Customer Service Motorhome Exhaust	05-A-041-S1
977-V01-P	977-V01-U	Chassis Weld Vehicle Exhaust	07-A-1348-S1
978-V01-P	978-V01-U	Warranty Motorhome Exhaust	05-A-042-S1
978-V02-P	978-V02-U	Warranty Motorhome Exhaust	05-A-043-S1
979-V05-P	979-V05-U	Motor Home Plant Line 2 Vehicle Exhaust	07-A-1278
989-V01-P	989-V01-U	Truck Stop Vehicle Exhaust	05-A-044-S1
989-V02-P	989-V02-U	Truck Stop Vehicle Exhaust	05-A-045-S1
989-V03-P	989-V03-U	Truck Stop Vehicle Exhaust	05-A-046

O. Wire Prep System

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
979-S13-P	979-S13-U	Heat Shrink Gun	05-A-341
979-S14-P	979-S14C-U	Wire Prep System - Heat Shrink Gun	05-A-342
	979-S14D-U	Wire Prep System - Heat Shrink Gun	
	979-S14E-U	Wire Prep System - Heat Shrink Gun	
	979-S14F-U	Wire Prep System - Heat Shrink Gun	
	979-S14G-U	Wire Prep System - Heat Shrink Gun	
	979-S14H-U	Wire Prep System - Sonic Welder	
	979-S14I-U	Wire Prep System - Solder Pot	

Miscellaneous Sources

Emission Point ID	Associated Emission Unit(s) ID(s)	Associated Emission Unit Description	IDNR Construction Permit Number
952-S01-P	952-S01-U	Emissions Attributed To Aerosol Can Point Of Use	05-A-040-S1
967-P01-P	967-P01-U	De-gas Fuel Inerting System	05-A-038-S1
978-C02-P	978-C02-U	Small Part E-Coat Tank Housing Exhaust Stack	96-A-100-S2

Insignificant Equipment List

Insignificant Emission Unit ID	Insignificant Emission Unit Description
951-T01-U	Caustic Rinse Tank
951-W02-P	Vertical Paint Washer – Burner Exhaust
959-F01-U	Shipout Fugitives
967-F01-U	DeGas Fugitives
970-F02-U	Customer Service Welding Fugitives
972-F01-U	Plastics Fugitives
972-F03-U	Plastic Chipper
973-F01-U	Van Shop Fugitives
973 F02-U	Rotocasting Emissions
973-O01-P	Rotocast 400 Oven Exhaust – Heating

Insignificant Emission Unit ID	Insignificant Emission Unit Description
973-O02-P	Rotocast South 1500 Oven Exhaust – Heating
973-O04-P	Rotocast West 1500 Oven Exhaust – Heating
973-O06-P	Rotocast North 1500 Oven Exhaust – Heating
973-O08-P	Rotocast 430 Oven Exhaust – Heating
973-T01-P	East Compounding Silo Vent
973-T02-P	West Compounding Silo Vent
977-C01-P	Large Part E-Coat Pretreatment Stage 5 Burner
977-C02-P	Large Part E-Coat Pretreatment Stage 3 Burner
977-C03-P	Large Part E-Coat Pretreatment Stage 1 Burner
977-F02-U	Welding Emissions (1st & 2nd Floor Chassis Prep)
977-PC1-P	E-Coat Small Parts Powder Coating Booth
978-F01-P	Metal Stamping Fugitives
978-F02-P	Laser Tube Pipe Cutter Dust Collector
978-W03-P	Small Parts Washer Burner
979-F02-P	Motor Home Plant Sidewall Router
979-F03-U	Motor Home Plant Styrofoam Router Dust Collector
979-F06-U	Motor Home Plant Welding Fugitives
982-F03-U	Sawmill Welding Fugitives
982-O01-P	Tool Build Resin Curing Oven
987-F01-U	Full Body Paint Fugitives
990-F02-U	Nitrider
990-PC1-P	CAPCO Powder Coating Booth
990-W05-P	Powder Paint Washer – Burner Exhaust
991-C01-P	Die Strip Tank Combustion Exhaust Stack
991-C02-P	Die Strip Tank Combustion Exhaust Stack
991-F01-P	Extrusion Area Emissions
991-F02-U	CAPCO Welding Fugitives
991-O01-P	Line 2 Billet Oven – West Exhaust Stack
991-O02-P	Line 1 Billet Oven – East Exhaust Stack
991-O03-P	East Heat Treatment Exhaust Stack
991-O04-P	West Heat Treatment Exhaust Stack
992-F01-P	Steel Shot Blast Machine
DSLGEN-P	Diesel Driven, Portable Electrical Power Generator
DSLTKN-P	Diesel Storage Tank at Maintenance
GASGEN1-P	Gas Powered Emergency Generator – Security
GASGEN2-P	Gas Powered Emergency Generator – Security
GASTNK-P	Gasoline Storage Tank at Chassis
HEAT-P	Total Facility Unit Heater Emissions (approximately 291 Heaters)
MAKUP-P	Total Facility Air Makeup Emissions (approximately 53 Units)
PH-E01-P	Emergency Fire Pump Diesel Engine Exhaust
TRB-W01-P	Tank Removal Building Wand Washer Burner
977-Z03 ⁽¹⁾	Small Part Topcoat Flash Tunnel (96-A-097) Attributed to 977-S05-P/977-S06-P
978-C01 ⁽¹⁾	Small Part E-Coat Post Rise (96-A-099) Attributed to 977-S05-P/977-S06-P

⁽¹⁾ The construction permit associated with this emission unit does not contain any specific terms or conditions, therefore it qualifies as an insignificant activity per rule 567 IAC 22.103.

II. Plant-Wide Conditions

Facility Name: Winnebago Industries, Inc.
Permit Number: 05-TV-002R1

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

Permit Duration

The term of this permit is: 5 years
Commencing on: **December 29, 2010**
Ending on: **December 28, 2015**

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"

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, Winnebago Industries, Inc. is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, Winnebago Industries, Inc. shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

Other NESHAP

1. 40 CFR 63 Subpart JJ: Wood Furniture Manufacturing Operations

- The Permittee shall comply with all applicable requirements of 40 CFR 63 Subpart JJ: National Emission Standards for Wood Furniture Manufacturing Operations, and Subpart A - General Provisions.

The following sources are subject to JJ requirements:

Source*	Description
970-S05-U	Customer Service Cabinet Bench Stain Spray Booth
981-F01-U	Sawmill Fugitives – Including Staining Fugitives from Sawmill
981-G01-U	Sawmill Glue Machine Exhaust Stack – Roll Applicator
981-G04-U	Sawmill Glue Machine Exhaust Stack – Roll Applicator
982-S10-U	Model Shop Paint Booth

Authority for Requirement: 567 IAC 23.1(4)"aj"

Iowa DNR Construction Permit 02-A-040-S2 Iowa DNR Construction Permit 96-A-760-S2
 Iowa DNR Construction Permit 96-A-761-S2 Iowa DNR Construction Permit 96-A-089-S1

- Excerpts of the applicable Subpart JJ Requirements are shown in Appendix A. Hyperlinks to Tables 2 – 6 referenced in the requirements can be found in Appendix A of this permit.
(Note: Citation numbering is consistent with 40 CFR Part 63. These citations are provided for reference only. If the Subpart JJ Requirements are modified in the future, Winnebago Industries, Inc. is responsible for demonstrating compliance with 40 CFR 63 Subpart JJ as printed in the Federal Register regardless of whether the citations listed below are modified.)

*Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

See Appendix A for more information.

2. 40 CFR 63 Subpart WWWW: Reinforced Plastic Composites Production

- The Permittee shall comply with all applicable requirements of 40 CFR 63 Subpart WWWW: National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, and Subpart A - General Provisions.

The following sources are subject to WWWW requirements:

Source*	Description
982-S08-U	Tooling Resin Spray Booth – 2 Stacks
982-S11-U	Fiberglass Chop Booth – 3 Stacks
982-S14-U	Gelcoat Booth

Authority for Requirement: 567 IAC 23.1(4)"cw"

Iowa DNR Construction Permit 96-A-090-S2	Iowa DNR Construction Permit 90-A-092-S5
Iowa DNR Construction Permit 09-A-489-S1	Iowa DNR Construction Permit 09-A-490-S1
Iowa DNR Construction Permit 09-A-491-S1	Iowa DNR Construction Permit 09-A-492-S1

*Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

See Appendix B for more information.

3. 40 CFR 63 Subpart MMMM: Surface Coating of Miscellaneous Metal Parts and Products

- The Permittee shall comply with all applicable requirements of 40 CFR 63 Subpart MMMM: National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, and Subpart A - General Provisions.

The following sources are subject to MMMM requirements:

Source*	Description	Source*	Description
970-F01-U	Customer Service Area Fugitives	979-S05-U	Line 4 Clearcoat Spray Booth – 2 Stacks
977-F01-U	Undercoating Emissions – Chassis Prep Area	987-S02-U	Full Body Paint – Basecoat Spray Booth – 2 Stacks
977-F03-U	Adhesive/Sealant Spray Emissions – Chassis Prep	987-S04-U	Full Body Paint – Clearcoat Spray Booth – 2 Stacks
977-F04-U	Large Part E-Coat Paint/Rinse Tank Emissions	982-S10-U	Model Shop Paint Booth
979-F01-U	Motor Home Plant Fugitives	978-C02-U	Small Part E-Coat Tank Housing Exhaust Stack
979-F04-U	Motor Home Plant Paint Emissions	973-G01-U	Van Shop Reactive Hot Melt Roll Coater
990-F01-U	Powder Paint Area Fugitives	979-G01-U	MHP Panel Lam. Roll Coaters
951-S01-U	Vertical Paint Silo #1 Exhaust Stack	979-G02-U	MHP Panel Lam. Roll Coaters
951-S02-U	Vertical Paint Silo #2 Exhaust Stack	979-G03-U	MHP Panel Lam. Roll Coaters
970-S01-U	Customer Service Dry Filter Paint Booth – 2 Stacks	979-G04-U	MHP Panel Lam. Roll Coaters
979-S01-U	Line 4 Basecoat Spray Booth #1 – 2 Stacks	979-G05-U	MHP Panel Lam. Roll Coaters
979-S03-U	Line 4 Basecoat Spray Booth #2 – 2 Stacks	979-G06-U	MHP Panel Lam. Roll Coaters

Authority for Requirement: 567 IAC 23.1(4)"cm"

Iowa DNR Construction Permit 05-A-560P-S1	Iowa DNR Construction Permit 89-A-048-S4
Iowa DNR Construction Permit 90-A-062-S3	Iowa DNR Construction Permit 01-A-1271-S2
Iowa DNR Construction Permit 88-A-093-S4	Iowa DNR Construction Permit 00-A-601-S1
Iowa DNR Construction Permit 88-A-095-S4	Iowa DNR Construction Permit 00-A-602-S2
Iowa DNR Construction Permit 96-A-103-S3	Iowa DNR Construction Permit 96-A-100-S2
Iowa DNR Construction Permit 98-A-211-S2	Iowa DNR Construction Permit 00-A-007-S7
Iowa DNR Construction Permit 98-A-212-S3	Iowa DNR Construction Permit 01-A-1057-S2
Iowa DNR Construction Permit 06-A-1146	Iowa DNR Construction Permit 01-A-1059-S2
Iowa DNR Construction Permit 05-A-561P-S1	Iowa DNR Construction Permit 01-A-1062-S2
Iowa DNR Construction Permit 99-A-307-S2	Iowa DNR Construction Permit 01-A-1063-S2
Iowa DNR Construction Permit 88-A-094-S8	Iowa DNR Construction Permit 01-A-1064-S2
	Iowa DNR Construction Permit 01-A-1065-S2

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility –specific emission limit [63.4481(e) (40 CFR 63 Subpart PPPP)].

Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

See Appendix C for more information.

4. 40 CFR 63 Subpart PPPP – Surface Coating of Plastic Parts and Products

- The Permittee shall comply with all applicable requirements of 40 CFR 63 Subpart PPPP: National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Plastic Parts and Products, and Subpart A - General Provisions.

The following sources are subject to PPPP requirements:

Source*	Description	Source*	Description
970-F01-U	Customer Service Area Fugitives	979-G06-U	MHP Panel Lam. Roll Coaters
979-F01-U	Motor Home Plant Fugitives	970-S01-U	Customer Service Dry Filter Paint Booth – 2 Stacks
979-F04-U	Motor Home Plant Paint Emissions	970-S03-U	Customer Service Dry Filter Adhesive Booth – 2 Stacks
990-F01-U	Powder Paint Area Fugitives	973-S01-U	Van Conversion Dry Filter Paint Booth
973-G01-U	Van Shop Reactive Hot Melt Roll Coater	973-S02-U	Van Conversion Dry Filter Paint Booth
979-G01-U	MHP Panel Lam. Roll Coaters	979-S01-U	Line 4 Basecoat Spray Booth #1 – 2 Stacks
979-G02-U	MHP Panel Lam. Roll Coaters	979-S03-U	Line 4 Basecoat Spray Booth #2 – 2 Stacks
979-G03-U	MHP Panel Lam. Roll Coaters	979-S05-U	Line 4 Clearcoat Spray Booth – 2 Stacks
979-G04-U	MHP Panel Lam. Roll Coaters	987-S02-U	Full Body Paint – Basecoat Spray Booth – 2 Stacks
979-G05-U	MHP Panel Lam. Roll Coaters	987-S04-U	Full Body Paint – Clearcoat Spray Booth – 2 Stacks

Authority for Requirement: 567 IAC 23.1(4)"cp"

Iowa DNR Construction Permit 00-A-007-S7	Iowa DNR Construction Permit 01-A-1057-S2
Iowa DNR Construction Permit 01-A-1059-S2	Iowa DNR Construction Permit 01-A-1062-S2
Iowa DNR Construction Permit 01-A-1063-S2	Iowa DNR Construction Permit 01-A-1064-S2
Iowa DNR Construction Permit 01-A-1065-S2	Iowa DNR Construction Permit 90-A-062-S3
Iowa DNR Construction Permit 99-A-307-S2	Iowa DNR Construction Permit 02-A-038-S2
Iowa DNR Construction Permit 02-A-039-S2	Iowa DNR Construction Permit 92-A-657-S4
Iowa DNR Construction Permit 92-A-658-S4	Iowa DNR Construction Permit 88-A-093-S4
Iowa DNR Construction Permit 88-A-094-S8	Iowa DNR Construction Permit 88-A-095-S4
Iowa DNR Construction Permit 89-A-048-S4	Iowa DNR Construction Permit 96-A-103-S3
Iowa DNR Construction Permit 01-A-1271-S2	Iowa DNR Construction Permit 98-A-211-S2
Iowa DNR Construction Permit 00-A-601-S1	Iowa DNR Construction Permit 98-A-212-S3
Iowa DNR Construction Permit 00-A-602-S2	

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility –specific emission limit [63.4481(e) (40 CFR 63 Subpart PPPP)].

Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

See Appendix D for more information.

III. Emission Point-Specific Conditions

Facility Name: Winnebago Industries, Inc.
Permit Number: 05-TV-002R1

Emission Point ID: See Table A-1 - Dust Collectors

Associated Equipment

Table A-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
981-D01-P	981-D01-U	North Sawmill Dust Collector Exhaust	Sawdust from Woodworking	372.66 lb/hr	981-D01-C	Cyclone with Bag Filter (2-Stage Collector)
981-D03-P	981-D03-U	South Sawmill Dust Collector Exhaust	Sawdust from Woodworking	372.66 lb/hr	981-D03-C	Cyclone with Bag Filter (2-Stage Collector)

Applicable Requirements

The following requirements apply to the emission points identified in Table A-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table A-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.3(2)"a"	PM (lb/hr)	Iowa DNR Construction Permit
981-D01-P	981-D01-U	40% ⁽¹⁾	0.66	0.1	0.66	96-A-093-S3
981-D03-P	981-D03-U					96-A-094-S3

⁽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).

Operational Limits & Requirements

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

Work Practice Standards:

- A. The control equipment shall be operated and maintained per the manufacturer's instructions and specifications.

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

A. Maintain a record of all maintenance and repair to the control equipment.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table A-2

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table A-3			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
981-D01-P	981-D01-U	96-A-093-S3	30.7	Horizontal	36 x 50	Ambient	40,000
981-D03-P	981-D03-U	96-A-094-S3	31	Horizontal	36 x 50	Ambient	40,000

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Stack Testing:

Pollutant – PM₁₀⁽¹⁾

1st Stack Test to be Completed by – December 29, 2012

Test Method – 201A with 202, 40 CFR 51⁽²⁾

Authority for Requirement – 567 IAC 22.108(3)"b"

Pollutant – Particulate Matter⁽¹⁾

1st Stack Test to be Completed by – December 29, 2012

Test Method – Iowa Compliance Sampling Manual⁽²⁾

Authority for Requirement – 567 IAC 22.108(3)"b"

⁽¹⁾ Representative Testing: Stack testing is only required on one of these two emission points, 981-D01-P or 981-D03-P, to demonstrate compliance for both emission points. However, if the results of stack testing on the representative source exceed the emission limit(s), then both emission points shall be considered out of compliance with the emission limit(s).

⁽²⁾ or an approved alternative

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring Plan
981-D01-P North Sawmill Dust Collector Exhaust
981-D03-P- South Sawmill Dust Collector Exhaust
(Authority for Requirement: 567 IAC 22.108(3))

I. Background

A. Emission Unit

Description: Wood Dust Collection Systems

Emission Units: 981-D01-U and 981-D03-U

Facility: Winnebago Industries, Inc.
605 West Crystal Lake Road
Forest City, IA 50436

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

Regulation: 567 IAC 23.3 (2) "a"
Iowa DNR Construction Permits 96-A-093-S3, 96-A-093-S34

Pollutant: PM10 & PM

Emission Limit: 0.66 lb/hr for PM10, 0.1 gridsf

Opacity Limit: 40%

C. Control Technology:

Cyclone Collector Followed by a Baghouse

II. Monitoring Approach

The key elements of the monitoring approach are presented in Table A (attached). The selected performance indicators are baghouse module differential pressure and visible emissions.

Table A - Monitoring Approach

	Indicator #1	Indicator #2
I. Indicator	Differential pressure across baghouse.	Visible Emissions.
II. Measurement Approach	Differential pressure measured across the baghouse by a pressure gauge.	Visible emissions from baghouse exhaust while 981-DO1 and 981-DO3 are operating and exhausting to the outdoors. NOTE: This indicator is not applicable when the exhaust is vented internally during cold weather months.
III. Indicator Range	An excursion is defined as a differential pressure reading across the baghouse module outside the acceptable range. The acceptable range is 3 + 1.5 inches water. Excursions trigger an inspection, corrective action and a recordkeeping requirement. The inspection that is triggered is a 6 minute visible emissions observation.	An excursion is defined as any visible emission occurring. Excursions trigger an inspection, corrective action, and a recordkeeping requirement. The inspection that is triggered is a 6 minute visible emissions observation.
IV. Performance Criteria		
A. Data Representativeness	The differential pressure is measured across the baghouse.	Visible emissions observations are made at the emission point and on the external baghouse unit, system ductwork and associated components.
B. Verification of Operational Status	The pressure gauge will be calibrated, operated, and maintained according to the manufacturer's specifications.	Not Applicable.
C. QA/QC Practices and Criteria	Pressure gauges will be calibrated, operated, and maintained according to the manufacturer's specifications.	The observer will be trained to detect visible emissions.
D. Monitoring Frequency	The differential pressure will be inspected a minimum of once per day when the baghouse is operating.	No visible emissions (NVE) observations are made at the emission point on a weekly basis.
E. Data Collection Procedures	Results of baghouse differential pressure checks will be recorded on record forms that will be kept a minimum of 5 years.	Results of "no visible emissions" observations are recorded on record forms that will be kept a minimum of 5 years.

Emission Point ID: See Table B-1 - Mix Rooms

Associated Equipment

Table B-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity
951-E01-P	951-E01-U	Vertical Paint Mix Room	Paint, Solvents, Sealers	Variable
959-E01-P	959-E01-U	Shipout Paint Vault Exhaust	Paint, Solvents, Sealers	Variable
970-E01-P	970-E01-U	Customer Service Mix Room	Paint and Thinners	Variable
977-E01-P	977-E01-U	Small Parts E-Coat Mix Room	Paints and Solvents	Variable
979-E01-P	979-E01-U	Line 4 Paint Mix Room	Paints and Solvents	Variable
987-E01-P	987-E01-U	Full Body Paint Mix Room	Paints and Thinners	Variable

Emissions Control Equipment ID Number(s): none

Applicable Requirements

The following requirements apply to the emission points identified in Table B-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table B-2

Emission Point ID	Emission Unit ID	VOC	Iowa DNR Construction Permit
951-E01-P	951-E01-U	No emission limits at this time. VOC emissions from this source are assigned to emission points 951-S01-P and 951-S02-P	96-A-1321
959-E01-P	959-E01-U	No emission limits at this time.	05-A-469-S1
970-E01-P	970-E01-U	No emission limits at this time. VOC emissions from this source are assigned to emission points 970-S01-P and 970-S02-P	96-A-1319
977-E01-P	977-E01-U	No emission limits at this time. VOC emissions from this source are assigned to emission points 977-S05-P and 977-S06-P	96-A-098
979-E01-P	979-E01-U	No emission limits at this time. VOC emissions from this source are assigned to emission points 979-S01-P through 979-S04-P	96-A-104
987-E01-P	987-E01-U*	VOC emissions from this paint mix room are accounted for in the permits for the Full Body Paint Booths that this paint mix room supplies. VOC limits in 40 CFR, Part 63, Subparts MMMM and PPPP	02-A-370-S1 567 IAC 23.1(4)"cm", 567 IAC 23.1(4)"cp"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility-specific emission limit [63.4481(e) (40 CFR 63 Subpart PPPP)].

Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table B-3			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
951-E01-P	951-E01-U	96-A-1321	2	Downward	18	Ambient	3,000
959-E01-P	959-E01-U	05-A-469-S1	9	Horizontal	14 x 14	70	1,187
970-E01-P	970-E01-U	96-A-1319	6	Horizontal	12 X 12	Ambient	1,000
977-E01-P	977-E01-U	96-A-098	8.5	Horizontal	14 x 14	Ambient	1,000
979-E01-P	979-E01-U	96-A-104	8.5	Horizontal	14 x 14	Ambient	1,000
987-E01-P	987-E01-U	02-A-370-S1	15	Downward	12 x 12	Ambient	2,000 acfm

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table C-1 - Internally Vented Sources

Associated Equipment

Table C-1

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	Control Equipment Number
970-F01-P	970-F01-U	Customer Service Area Fugitives	Paints, Solvents, Adhesives & Like Materials	NA	None
971-F01-P	971-F01-U	Stitchcraft Area Fugitives	Adhesives, Solvents & Like Materials	NA	None
977-F01-P	977-F01-U	Chassis Prep Area Fugitives	Paints, Solvents, Adhesives & Like Materials	NA	None
977-F03-P	977-F03-U	Adhesive/Sealant Spray Emissions - Chassis Prep	Adhesives, Solvents & Like Materials	NA	None
977-F04-P	977-F04-U	Large Part E-Coat Paint/Rinse Tank Emissions	E-coat Epoxy Resins & Solvent	NA	None
979-F01-P	979-F01-U	Motor Home Plant Fugitives	Paints, Solvents, Adhesives/Sealants & Like Materials	NA	None
979-F04-P	979-F04-U	Motor Home Plant Paint Emissions	Paints, Solvents & Like Materials	NA	None
981-F01-P	981-F01-U	Sawmill Fugitives – Including Staining Fugitives From Sawmill	Adhesives & Stains	NA	None
990-F01-P	990-F01-U	Powder Paint Area Fugitives	Paints, Solvents & Like Materials	NA	None

Emissions Control Equipment ID Number(s): none

Applicable Requirements

The following requirements apply to the emission points identified in Table C-1.

Operational Limits & Requirements

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

NESHAP:

Emission Units * 970-F01-U, 979-F01-U, 979-F04-U, and 990-F01-U are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart PPPP, Surface Coating of Plastic Parts and Products and 40 CFR, Part 63, Subpart MMMM, Surface Coating of Miscellaneous Metal Parts and Products. Please refer to Appendix C and D of this permit for more information.

Authority for Requirement: 567 IAC 23.1(4)

Emission Units* 977-F01-U, 977-F03-U and 977-F04-U are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart M, Surface Coating of Miscellaneous Metal Parts and Products. Please refer to Appendix C of this permit for more information.

Authority for Requirement: 567 IAC 23.1(4)"cm"

Emission Unit** 981-F01-U is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart JJ, Wood Furniture Manufacturing Operations. Please refer to Appendix A of this permit for more information.

Authority for Requirement: 567 IAC 23.1(4)"aj"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility –specific emission limit [63.4481(e) (40 CFR 63 Subpart PPPP)].

**Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

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: See Table D-1 – Hot Melt – Roll Coaters

Associated Equipment

Table D-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
973-G01-P	973-G01-U	Van Shop Reactive Hot Melt Roll Coater	Reactive Hot Melt Adhesive	207 lb/hr melted glue	973-G01-C	Panel Filters
979-G01-P	979-G01-U	MHP Panel Lam. Roll Coaters	Reactive Hot Melt Adhesive	207 lb/hr melted glue	979-G01-C	Panel Filters
979-G02-P	979-G02-U	MHP Panel Lam. Roll Coaters	Reactive Hot Melt Adhesive	207 lb/hr melted glue	979-G02-C	Panel Filters
979-G03-P	979-G03-U	MHP Panel Lam. Roll Coaters	Reactive Hot Melt Adhesive	207 lb/hr melted glue	979-G03-C	Panel Filters
979-G04-P	979-G04-U	MHP Panel Lam. Roll Coaters	Reactive Hot Melt Adhesive	207 lb/hr melted glue	979-G04-C	Panel Filters
979-G05-P	979-G05-U	MHP Panel Lam. Roll Coaters	Reactive Hot Melt Adhesive	207 lb/hr melted glue	979-G05-C	Panel Filters
979-G06-P	979-G06-U	MHP Panel Lam. Roll Coaters	Reactive Hot Melt Adhesive	207 lb/hr melted glue	979-G06-C	Panel Filters

Applicable Requirements

The following requirements apply to the emission points identified in Table D-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table D-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM (gr/dscf) 567 IAC 23.4(13)	VOC (tons/yr)	Iowa DNR Construction Permit
973-G01-P	973-G01-U	40% ⁽¹⁾	0.01	39.4 ⁽²⁾	00-A-007-S7
979-G01-P	979-G01-U				01-A-1057-S2
979-G02-P	979-G02-U				01-A-1059-S2
979-G03-P	979-G03-U				01-A-1062-S2
979-G04-P	979-G04-U				01-A-1063-S2
979-G05-P	979-G05-U				01-A-1064-S2
979-G06-P	979-G06-U				01-A-1065-S2

⁽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).

⁽²⁾ Bubble Limit of 39.4 tons per rolling 12-month period for the following hot glue machines: EU 973-G01-U, EU 979-G01-U, EU 979-G02-U, EU 979-G03-U, EU 979-G04-U, EU 979-G05-U, and EU 979-G06-U (EP 973-G01-P, EP 979-G01-P, EP 979-G02-P, EP 979-G03-P, EP 979-G04-P, EP 979-G05-P, and EP 979-G06-P).

Operational Limits & Requirements

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

Process throughput:

- A. Bubble Limit of 39.4 tons per rolling 12-month period for the following hot glue machines: EU 973-G01-U, EU 979-G01-U, EU 979-G02-U, EU 979-G03-U, EU 979-G04-U, EU 979-G05-U, and EU 979-G06-U (EP 973-G01-P, EP 979-G01-P, EP 979-G02-P, EP 979-G03-P, EP 979-G04-P, EP 979-G05-P, and EP 979-G06-P). This 39.4 ton per rolling 12-month period limit is equivalent to using 3,940,200 pounds (447,750 gallons) or less of material per rolling 12-month period based upon a VOC / HAP content of 2%.
- B. The percentage of free MDI shall be determined following the "MDI/Polymeric MDI Emissions Reporting Guidelines For the Polyurethane Industry" (a copy of which is attached to the permit).
- C. If the adhesive material as applied contains additional VOC/HAP components, the permittee shall estimate that 100% of that component is emitted. These additional VOC/HAP components shall be counted toward the 39.4 Ton per year VOC limit.

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. Record on a rolling 12-month basis the quantity of material used for the following glue machines: EU 973-G01-U, EU 979-G01-U, EU 979-G02-U, EU 979-G03-U, EU 979-G04-U, EU 979-G05-U, and EU 979-G06-U (EP 973-G01-P, EP 979-G01-P, EP 979-G02-P, EP 979-G03-P, EP 979-G04-P, EP 979-G05-P, and EP 979-G06-P).
- B. Record the free VOC/HAP content of all material used in the following hot glue machines: EU 973-G01-U, EU 979-G01-U, EU 979-G02-U, EU 979-G03-U, EU 979-G04-U, EU 979-G05-U, and EU 979-G06-U (EP 973-G01-P, EP 979-G01-P, EP 979-G02-P, EP 979-G03-P, EP 979-G04-P, EP 979-G05-P, and EP 979-G06-P).
- C. Record on a rolling 12-month basis the amount of MDI, free VOC/HAP, and additional VOC/HAP components compared to the 39.4 ton per year limit.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table D-2

NESHAP:

Emission Units* 973-G01-U, 979-G01-U, 979-G02-U, 979-G03-U, 979-G04-U, 979-G05-U, and 979-G06-U are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart PPPP, Surface Coating of Plastic Parts and Products. Please refer to Appendix D of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table D-2
567 IAC 23.1(4)"cp"

Emission Units* 973-G01-U, 979-G01-U, 979-G02-U, 979-G03-U, 979-G04-U, 979-G05-U, and 979-G06-U are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart M, Surface Coating of Miscellaneous Metal Parts and Products. Please refer to Appendix C of this permit for more information.

Authority for Requirement: 567 IAC 23.1(4)"cm"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility –specific emission limit [63.4481(e) (40 CFR 63 Subpart PPPP)].

Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table D-3			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
973-G01-P	973-G01-U	00-A-007-S7	26.8	Downward	8	70	500
979-G01-P	979-G01-U	01-A-1057-S2	30.0	Downward	8	Ambient	500
979-G02-P	979-G02-U	01-A-1059-S2	30.0	Downward	8	Ambient	500
979-G03-P	979-G03-U	01-A-1062-S2	36.0	Downward	8	Ambient	500
979-G04-P	979-G04-U	01-A-1063-S2	38.0	Downward	8	Ambient	500
979-G05-P	979-G05-U	01-A-1064-S2	38.0	Downward	8	Ambient	500
979-G06-P	979-G06-U	01-A-1065-S2	36.0	Downward	8	Ambient	500

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table E-1 – Glue Operations – Sawmill Roll Applicators

Associated Equipment

Table E-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity
981-G01-P	981-G01-U	Sawmill Glue Machine Exhaust Stack – Roll Applicator	Adhesive	1.94 gallons/hr
981-G04-P	981-G04-U	Sawmill Glue Machine Exhaust Stack - Roll Applicator	Adhesive	1.94 gallons/hr

Emissions Control Equipment ID Number(s): none

Applicable Requirements

The following requirements apply to the emission points identified in Table E-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table E-2

Emission Point ID	Emission Unit ID	VOC (tons/yr)	Iowa DNR Construction Permit
981-G01-P	981-G01-U	39.0 ⁽¹⁾	96-A-760-S2
981-G04-P	981-G04-U		96-A-761-S2

⁽¹⁾This is the total emissions from 981-G01-U and 981-G04-U.

Operational Limits & Requirements

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

Process throughput:

- A. The VOC content of any adhesive used in the process (Sawmill Glue Machines: EP 981-G01-P and EP 981-G04-P) shall not exceed 1.0 pounds of VOC per gallon.
- B. The permittee shall not utilize more than 78,000 gallons of adhesive in this process (Sawmill Glue Machines: EP 981-G01-P and EP 981-G04-P) per 12-month rolling period (which is equivalent to 39.0 tons VOC per rolling 12-month period).

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The permittee shall monthly record the quantity of adhesive used in the process (Sawmill Glue Machines: EP 981-G01-P and EP 981-G04-P) and monthly calculate the rolling 12-month total.
- B. The permittee shall record the VOC content of any adhesive used in this process (Sawmill Glue Machines: EP 981-G01-P and EP 981-G04-P), in pounds per gallon.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table E-2

NESHAP:

Emission Units* 981-G01-U and 981-G04-U are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart JJ, National Emissions Standards for Wood Furniture Manufacturing Operations. Please refer to Appendix A of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table E-2
567 IAC 23.1(4)"aj"

*Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

		Stack Characteristics					
Emission Point ID	Emission Unit ID	Construction Permit	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
981-G01-P	981-G01-U	96-A-760-S1	24.1	Vertical Unobstructed	18	70	3,200
981-G04-P	984-G04-U	96-A-761-S1	27.4	Vertical Unobstructed	18	70	4,000

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table F-1 - Ovens

Associated Equipment

Table F-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity
951-O03-P	951-O03-U	Vertical Paint Bake Oven Stack	Natural Gas	4.0 MMBtu/hr
951-O05-P	951-O05-U	Vertical Paint Bake Oven Stack	Natural Gas	1.2 MMBtu/hr
977-O02-P	977-O08-U	Large Part Undercoat Entrance-Exhaust	Natural Gas	3.5 MMBtu/hr
977-O08-P		Large Part Undercoat Main Combustion/VOC Exhaust Stack	Natural Gas	
977-O03-P	977-O04-U	Large Part E-coat Entrance Exhaust Stack (O03)	Natural Gas	3.5 MMBtu/hr
977-O04-P		Large Part E-Coat Combustion/ VOC Exhaust Stack (O04)	Natural Gas	
977-O05-P		Large Part E-coat Exit Exhaust Stack (O05)	Natural Gas	
978-O03-P	978-O03-U	Small Part Topcoat Oven Exhaust	Natural Gas	3.0 MMBtu/hr
978-O04-P	978-O05-U	Small Part E-Coat Secondary Combustion Exhaust	Natural Gas	4.4 MMBtu/hr
978-O05-P		Small Part E-Coat VOC Exhaust	Natural Gas	
979-O01-P	979-O01-U	Line 4 Cure Oven Exhaust Stack	Natural Gas	0.8 MMBtu/hr
990-O01-P	990-O01-U	Powder Paint Dry Off Combustion Exhaust	Natural Gas	1.0 MMBtu/hr
990-O03-P	990-O03-U	Powder Paint Cure Oven Combustion Exhaust	Natural Gas	4.0 MMBtu/hr
	990-O04-U	Powder Paint Cure Oven VOC Exhaust	Powder Paint	5.0 gallons/hr

Emissions Control Equipment ID Number(s): none

Applicable Requirements

The following requirements apply to the emission points identified in Table F-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table F-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.3(2)"a"	PM (lb/hr)	SO ₂ (ppmv) 567 IAC 23.3(3)"e"	VOC (ton/yr)	IDNR Construction Permit
951-O03-P	951-O03-U	40% ⁽¹⁾		0.1			55.0 ⁽³⁾	05-A-562-P
951-O05-P	951-O05-U	40% ⁽¹⁾		0.1				05-A-563-P
977-O02-P	977-O08-U	40% ⁽¹⁾		0.1		500 ppmv		00-A-854
977-O08-P		40% ⁽¹⁾		0.1		500 ppmv		00-A-856
977-O03-P	977-O04-U							
977-O04-P		40% ⁽¹⁾		0.1		500 ppmv		00-A-855
977-O05-P								
978-O03-P	978-O03-U	40% ⁽¹⁾	0.10	0.1	0.10	500 ppmv		88-A-099-S1
978-O04-P	978-O05-U						17.82 ⁽⁴⁾	96-A-101
978-O05-P		40% ⁽¹⁾	0.053	0.1		500 ppmv		96-A-102-S2
979-O01-P	979-O01-U	40% ⁽¹⁾		0.1		500 ppmv		88-A-096-S1
990-O01-P	990-O01-U	40% ⁽¹⁾		0.1		500 ppmv		00-A-858
990-O03-P	990-O03-U	40% ⁽²⁾		0.01		500 ppmv	16.9	96-A-1293-S2
	990-O04-U							567 IAC 23.4(13)

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

⁽²⁾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).

⁽³⁾BACT Limit: Total rate for EP 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P.

⁽⁴⁾Combined limit for EP 978-C02, EP 978-O04, and EP 978-O05. VOC emissions are limited by coating usage restrictions in the permit for the dip tank (EP 978-C02, 96-A-100-S2).

Operational Limits & Requirements

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

Process throughput:

- A. Emission Units 951-O03-U and 951-O05-U are fired by Natural Gas only.
- B. Emission Units 977-O04, 977-O08, 979-O01 and 990-O01-U are fired by Natural Gas or Propane only.
- C. Emission Unit 990-O03-U is fired by Natural Gas or LPG at a maximum heat input of 4.0 MMBtu/hr.
- D. Emission Units 951-O03-U and 951-O05-U are vented through Emission Points 951-S01-P, 951-S02-P, 951-S03-P and 951-O05-P. ⁽²⁾

E. Emission Unit 978-O03-U emissions are attributed to 978-O05-U.

⁽²⁾Emissions limit is a total rate for EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P.

Work practice standards:

A. For Emission Unit 990-O03-U, the VOC content of any material used shall not exceed 13% by weight.⁽¹⁾

B. For Emission Unit 990-O03-U, the amount of material used shall not exceed 260,000 pounds in any rolling twelve-month period.

⁽¹⁾990-O03-U is associated with the Powder Coating Operation.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table F-2

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

Emission Units 951-O03-U and 951-O05-U

A. The following record keeping shall be done until such time that VOC emissions exceed 41.25 tons per year (75% of the 55.0 ton/yr limit):

1. The owner or operator shall maintain a log of all VOC containing materials to be used in the emission units venting through EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P and their respective VOC contents.
2. The owner or operator shall record the VOC emissions from the emission units venting through EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P on a rolling-12-month basis.

B. The following record keeping shall be done after VOC emissions exceed 41.25 tons per year (75% of the 55.0 ton/yr limit) and will revert back to Condition A record keeping only if the 12-month rolling total is returned below 41.25 tons per year for VOC emissions:

1. The owner or operator shall maintain daily records that show the identity, quantity and VOC content of each VOC containing material used in the operation of the units venting through EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P.
2. The owner or operator shall calculate a rolling 365-day total for VOC emissions from the emission units venting through EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table F-2

Emission Unit 990-O03-U, the permittee shall maintain the following monthly records:

- A. The identification of any material used in the emissions unit.
- B. The VOC content of any material used in the emissions unit (percent by weight).
- C. The total amount of material used in the emissions unit (pounds).
- D. The rolling 12-month total of the amount of material used in the emission unit (pounds).

Authority for Requirement: Iowa DNR Construction Permit 96-A-1293-S2

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table F-4			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
951-O03-P	951-O03-U	05-A-562 -P	40.6	Vertical Unobstructed	18	310	3,200
951-O05-P	951-O05-U	05-A-563-P	49.5	Vertical Unobstructed	18	210	2,300
977-O02-P	977-O08-U	00-A-854	36.0	Vertical Unobstructed	34	280	10,700
977-O08-P		00-A-856	36.1	Vertical Unobstructed	8	310	688
977-O03-P	977-O04-U	NA	49.7	Vertical Unobstructed	18	310	2,100
977-O04-P		00-A-855	49.7	Vertical Unobstructed	18	310	2,100
977-O05-P		NA	49.7	Vertical Unobstructed	18	310	2,100
978-O03-P	978-O03-U	85-A-099-S1	29.84	Vertical Unobstructed	12 x 18	400	4,200
978-O04-P	978-O05-U	96-A-101	31.0	Vertical Unobstructed	12	310	3,441
978-O05-P		96-A-102-S2	33.0	Vertical Unobstructed	15 x 21	310	3,441
979-O01-P	979-O01-U	88-A-096-S1	27.1	Vertical Unobstructed	16	150	1,700
990-O01-P	990-O01-U	00-A-858	28.4	Vertical Unobstructed	12	Ambient	1,500
990-O03-P	990-O03-U	96-A-1293-S2	33.8	Vertical Obstructed	16	425	4,200
	990-O04-U						

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table G-1 - Cutting/Grinding/Stripping

Associated Equipment

Table G-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
973-P06-P	973-P06-U	Plastic Grinder	Plastic Beads	1400 lb/hr	973-P06-C	Cyclone
978-P01-P	978-P01-U	Laser Cutting Machine	Sheet Steel	11.25 in ³ /hr	None	None
978-P02-P	978-P02-U	Laser Cutting Machine	Sheet Steel	11.25 in ³ /hr	None	None
978-P03-P	978-P03-U	Laser Cutting Machine	Sheet Steel	11.25 in ³ /hr	None	None
978-P04-P	978-P04-U	Laser Cutting Machine	Sheet Steel	11.25 in ³ /hr	None	None
991-P01-P	991-P01-U	CAPCO Extrusion Line Die Strip Tank Exhaust	Caustic Soda	8.33 lb/hr	None	None

Applicable Requirements

The following requirements apply to the emission points identified in Table G-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table G-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"a"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.3(2)"a"	PM (lb/hr)	Iowa DNR Construction Permit
973-P06-P	973-P06-P	40% ⁽²⁾		0.1	1.0	04-A-555
978-P01-P	978-P01-U	40% ⁽⁴⁾				98-A-206
978-P02-P	978-P02-U	40% ⁽¹⁾				98-A-1123
978-P03-P	978-P03-U	40% ⁽²⁾	0.6		0.6	99-A-408-S1
978-P04-P	978-P04-U	40% ⁽³⁾	0.082			00-A-641-S1
991-P01-P	991-P01-U	40% ⁽¹⁾				96-A-701-S2

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

⁽²⁾ 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).

⁽³⁾ An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽⁴⁾ If visible emissions are observed that exceed the values obtained during the initial compliance test, a stack test may be required to further determine compliance.

Operational Limits & Requirements

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

Control equipment parameters:

A. All control equipment for 973-P06-P shall be maintained according to the manufacturer's specifications.

Authority for Requirement: Iowa DNR Construction Permit 04-A-555

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall maintain a record of all inspections of the control equipment for 973-P06-P. The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.

Authority for Requirement: Iowa DNR Construction Permit 04-A-555

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
973-P06-P	973-P06-U	04-A-555	27	Vertical Unobstructed	8	80	3,700
978-P01-P	978-P01-U	98-A-206	26	Vertical Unobstructed	18	Ambient	3,500
978-P02-P	978-P02-U	98-A-1123	26	Vertical Unobstructed	18	Ambient	3,500
978-P03-P	978-P03-U	99-A-408-S1	25	Vertical Unobstructed	18	70	3,500
978-P04-P	978-P04-U	00-A-641-S1	35	Vertical Unobstructed	18	70	3,500
991-P01-P	973-P06-U	96-A-701-S2	32	Vertical Unobstructed	12	70	800

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table H-1 - Vertical Paint Silo

Associated Equipment

Table H-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
951-S01-P	951-S01-U	Vertical Paint Silo #1 Exhaust Stack	Paint and Thinners	15.0 gallons/hr	951-S01-C1 951-S01-C2 951-S01-C3	Dry Filters Dry Filters Dry Filters
951-S02-P	951-S02-U	Vertical Paint Silo #2 Exhaust Stack	Paint and Thinners	15.0 gallons/hr	951-S02-C1 951-S02-C2 951-S02-C3	Dry Filters Dry Filters Dry Filters

Applicable Requirements

The following requirements apply to the emission points identified in Table H-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table H-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM (gr/dscf) 567 IAC 23.4(13)	VOC (tons/yr)	Total HAPs	Iowa DNR Construction Permit
951-S01-P	951-S01-U	40% ⁽¹⁾	0.01	55.0 ⁽²⁾	0.31 kg organic HAP/lb of coating solids ⁽³⁾	05-A-560P-S1
951-S02-P	951-S02-U					05-A-561P-S1

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

⁽²⁾ BACT Limit: Total rate for EP 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P.

⁽³⁾ 0.31 kg organic HAP/l of solids = 2.6 lb organic HAP/gal of coating solids.

Operational Limits & Requirements

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

Process Throughput:

- A. The VOC content of any material used in this emission unit shall not exceed 6.0 lb of VOC/gal.

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The following recordkeeping shall be done until such time that VOC emissions exceed 41.25 tons per year (75% of the 55.0 ton/yr limit):
 - 1. The owner or operator shall maintain a log of all VOC containing materials to be used in the emission units venting through EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P and their respective VOC contents.
 - 2. The owner or operator shall record the VOC emissions from the emission units venting through EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P on a rolling-12-month basis.

- B. The following recordkeeping shall be done after VOC emissions exceed 41.25 tons per year (75% of the 55.0 ton/yr limit) and will revert back to Condition 15.A. recordkeeping only if the 12-month rolling total is returned below 41.25 tons per year for VOC emissions:
 - 1. The owner or operator shall maintain daily records that show the identity, quantity and VOC content of each VOC containing material used in the operation of the units venting through EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P.
 - 2. The owner or operator shall calculate a rolling 365-day total for VOC emissions from the emission units venting through EPs 951-S01-P, 951-S02-P, 951-O03-P, and 951-O05-P.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table H-2

NESHAP:

Emission Units* 951-S01-U and 951-S02-U are subject to all applicable operating limits set forth in 40 CFR Part 63 Subpart A (General Provisions) and 40 CFR Part 63 Subpart M (National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products). Please refer to Appendix C of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table H-2
567 IAC 23.1(4)"a", 567 IAC 23.1(4)"cm"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility-specific emission limit [63.4481(e) (40 CFR 63 Subpart PPPP)].

Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points in the table below shall conform to the specifications listed below.

Table H-3			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Stack Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
951-S01-P	951-S01-U	05-A-560-P-S1	37.25	Vertical, Obstructed	34	70	10,600
951-S02-P	951-S02-U	05-A-561-P-S1	37.92	Vertical, Obstructed	34	70	10,600

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

<u>Spray Booth Filter Agency Operation & Maintenance Plan</u>
<p>Weekly Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material. Maintain a written record of the observation and any action resulting from the inspection.</p> <p>Record Keeping and Reporting Maintenance and inspection records will be kept for five years and be available upon request.</p> <p>Quality Control The filter equipment will be operated and maintained according to the manufacturer's recommendations.</p>

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table I-1 – Customer Service Booths

Associated Equipment

Table I-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
970-S01-P	970-S01-U	Customer Service Dry Filter Paint Booth – West Stack	Paint and Solvents	22 lb/hr	970-S01-C	Dry Filters
970-S02-P		Customer Service Dry Filter Paint Booth – East Stack				
970-S03-P	970-S03-U	Customer Service Dry Filter Adhesive Booth – North Stack	Adhesives	7.5 gal/hr	970-S03-C	Dry Filters
970-S04-P		Customer Service Dry Filter Adhesive Booth – South Stack				
970-S05-P	970-S05-U	Customer Service Cabinet Bench Stain Spray Booth	Clearcoat and Stains	1.875 gal/hr	970-S05-C	Dry Filters

Applicable Requirements

The following requirements apply to the emission points identified in Table I-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table I-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.4(13)	PM (lb/hr)	VOC (tons/yr)	Total HAP (lb/gal)	Iowa DNR Construction Permit
970-S01-P	970-S01-U	40% ⁽¹⁾	1.6	0.01		27.0 ⁽³⁾		90-A-062-S3
970-S02-P								99-A-307-S2
970-S03-P	970-S03-U	40% ⁽²⁾	0.63 ⁽⁵⁾	0.01	0.63 ⁽⁵⁾	4.95 ⁽⁴⁾		02-A-038-S2
970-S04-P								02-A-039-S2
970-S05-P	970-S05-U	40% ⁽²⁾	0.34	0.01			40 CFR 63, Subpart JJ	02-A-040-S2 567 IAC 23.1(4)"aj"

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

⁽²⁾ 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).

⁽³⁾ Combined VOC limit for EP 970-S01 and EP 970-S02.

⁽⁴⁾ Total VOC PTE for EP 970-S03-P and EP 970-S04-P.

⁽⁵⁾ Emission rate based on 0.01 gr/dscf.

Operational Limits & Requirements

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

Process throughput:

- A. Emission Points 970-S01-P and 970-S02-P are subject to the following:
 - 1. The amount of material sprayed in the Customer Service Building Paint Booth shall not exceed 7,700 gallons per twelve month rolling period, rolled monthly.
 - 2. The VOC content of any material sprayed in the Customer Service Building Paint Booth shall not exceed 7.0 pounds per gallon, as applied.
 - 3. The solids content of any material sprayed in the Customer Service Building Paint Booth shall not exceed 7.0 pounds per gallon, as applied.
 - 4. The permittee shall maintain the paint booth's filters according to the manufacturer's specifications and maintenance schedule.

- B. Emission Points 970-S03-P and 970-S04-P are subject to the following:
 - 1. The solids content of the as-sprayed material is limited to 1.90 pounds per gallon.
 - 2. The VOC content of the as-sprayed material is limited to 5.50 pounds per gallon.
 - 3. Total material usage for EP 970-S03-P and 970-S04-P shall not exceed 1,800 gallons per rolling 12-month period.
 - 4. This paint booth is limited to the spraying or operation of one paint gun at any time.

- C. Emission Point 970-S05-P is subject to the following:
 - 1. A maximum of one spray gun shall be operated in the Customer Service Cabinet Bench Booth at any one time.
 - 2. The Customer Service Cabinet Bench Booth is limited to 1,800 gallons of paint and solvent as sprayed per monthly rolling 12-month period.
 - 3. The VOC content of the material used in the Customer Service Cabinet Bench Booth shall not exceed 6.70 pounds per gallon as sprayed.
 - 4. The solids content of the material used in the Customer Service Cabinet Bench Booth shall not exceed 3.50 pounds per gallon as sprayed.
 - 5. The Customer Service Cabinet Bench Booth shall comply with all applicable requirements form 40 CFR Part 63, Subpart JJ, NESHAP for Wood Furniture Manufacturing Operations.
 - 6. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule.

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner. The permittee shall maintain the following monthly records:

- A. Emission Points 970-S01-P and 970-S02-P are subject to the following
 - 1. For each batch of material that is intended to be used in the Customer Service Building Paint Booth which is a mixture of multiple components, the following items must be recorded:

- a) The identification of each component of any mixture of materials to be sprayed.
 - b) The quantity of each component added to the mixture recorded to the nearest 0.1 gallons.
 - c) The calculated VOC content for each mixture. This value must be calculated by multiplying the quantity of each component recorded as required under (b) above by the VOC content in pounds per gallon of that particular component. After the VOC contribution from each component has been calculated, the total amount of VOC in the mixture must be calculated by summing the VOC contribution from each component. The as applied VOC content can then be calculated by dividing the total VOC in the mixture by the total volume of the mixture prepared.
 - d) The calculated solids content for each mixture. This value must be calculated by multiplying the quantity of each component recorded as required under (b) above by the solids content in pounds per gallon of that particular component. After the solids contribution from each component has been calculated, the total amount of solids in the mixture must be calculated by summing the solids contribution from each component. The as applied solids content can then be calculated by dividing the total solids in the mixture by the total volume of the mixture prepared.
2. Maintain MSDS or other product documentation for all materials sprayed, whether the material is used as a component of a mixture or is sprayed as it was received. This documentation must show the VOC content and solids content of each material used in the spray booth.
 3. At the end of each month, record the total volume, in gallons, of material that was sprayed in this booth over the previous month.
 4. At the end of each month, record the total volume, in gallons, of material that was sprayed in this booth over the previous twelve (12) months.
 5. Maintain a log of all maintenance and replacement of the filters used in this booth

B. Emission Points 970-S03-P and 970-S04-P are subject to the following:

1. Retain Material Safety Data Sheets (MSDS) of adhesives used in the Adhesive Application Spray Booth.
2. Record the quantity of adhesive and solvent used in a rolling 12-month period.
3. Maintain records documenting maintenance of control equipment.

C. Emission Point 970-S05-P is subject to the following:

1. Record monthly the amount of material used in the Customer Service Cabinet Bench Booth. Calculate and record 12-month rolling totals.
2. The permittee shall record the compliance option being used by the facility to show compliance with NESHAP Subpart JJ. If applicable, the permittee shall also record the date that the facility switches compliance options.
3. Retain Material Safety Data Sheets (MSDS) for all material used in the Customer Service Cabinet Bench Booth.
4. The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table I-2

NESHAP:

A. Emission Unit* 970-S01-U is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart Mmmm, Surface Coating of Miscellaneous Metal Parts and Products and 40 CFR Part 63, Subpart Pppp, Surface Coating of Plastic Parts and Products. Please refer to Appendix C and D of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table I-2
567 IAC 23.1(4)"cm", 567 IAC 23.1(4)"cp"

B. Emission Unit* 970-S03-U is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart Pppp, Surface coating of Plastic Parts and Products. In addition, this emission unit is subject to the NESAHP general provisions 40 CFR Part 63, Subpart A. Please refer to Appendix D of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table I-2
567 IAC 23.1(4)"cp", 567 IAC 23.1(4)"a"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility-specific emission limit [63.4481(e) (40 CFR 63 Subpart Pppp)].

C. Emission Unit** 970-S05-U is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart JJ, Wood Furniture Manufacturing Operations. In addition, this emission unit is subject to the NESHAP General Provisions 40 CFR Part 63, Subpart A. Please refer to Appendix A of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permit 02-A-040-S2
567 IAC 23.1(4)"aj", 567 IAC 23.1(4)"a"

** Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table I-3			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Stack Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
970-S01-P	970-S01-U	90-A-062-S2	29	Vertical Unobstructed	42	70	19,440
970-S02-P		99-A-307-S1	29	Vertical Unobstructed	42	70	19,440
970-S03-P	970-S03-U	02-A-038-S2	27	Vertical Unobstructed	24	Ambient	7,400
970-S04-P		02-A-039-S2	27	Vertical Unobstructed	24	Ambient	7,400
970-S05-P	970-S05-U	02-A-040-S2	24	Vertical Unobstructed	18	Ambient	4,000

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

<u>Spray Booth Filter Agency Operation & Maintenance Plan</u>
<p>Weekly Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material. Maintain a written record of the observation and any action resulting from the inspection.</p> <p>Record Keeping and Reporting Maintenance and inspection records will be kept for five years and be available upon request.</p> <p>Quality Control The filter equipment will be operated and maintained according to the manufacturer's recommendations.</p>

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table J-1 – Van Conversion Paint Line

Associated Equipment

Table J-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
973-S01-P	973-S01-U	Van Conversion Dry Filter Paint Booth	Paint and Solvents	12.2 gallons/hr	973-S01-C	Panel Filters
973-S02-P	973-S02-U	Van Conversion Dry Filter Paint Booth	Paint and Solvents	12.2 gallons/hr	973-S02-C	Panel Filters

Applicable Requirements

The following requirements apply to the emission points identified in Table J-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table J-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.4(13)	PM (lb/hr)	VOC (tons/yr)	Iowa DNR Construction Permit
973-S01-P	973-S01-U	40% ⁽¹⁾	0.62	0.01	0.62	27.6 ⁽²⁾	92-A-657-S4
973-S02-P	973-S02-U						92-A-658-S4

⁽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).

⁽²⁾ Total VOC PTE for EP 973-S01 & EP 973-S02

Operational Limits & Requirements

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

Process throughput:

- A. The amount of spray material used in EP 973-S01-P and EP 973-S02-P shall not exceed 9,200 gallons per twelve-month rolling period.
- B. The VOC content of any material sprayed in the two Van Shop paint booths (EP 973-S01 and EP 973-S02) shall not exceed 6.0 pounds per gallon, as applied.
- C. The filters shall be maintained and replaced per the manufacturer's instruction and specifications.

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. Maintain the MSDS for all spray materials used.
- B. Record and calculate the total amount of material used in EP 973-S01-P and EP 973-S02-P in gallons per twelve-month rolling period.
- C. Maintain a record of all maintenance and replacement of the filters.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table J-2

NESHAP:

- A. Emission Units* 973-S01-U and 973-S02-U are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subpart PPPP, Surface Coating of Plastic Parts and Products. Please refer to Appendix D of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table J-2
567 IAC 23.1(4)"cp"

- B. Emission Units* 973-S01-U and 973-S02-U are subject to the requirements of NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15).

Authority for Requirement: Iowa DNR Construction Permits referenced in Table J-2
567 IAC 23.1(4)"a"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility-specific emission limit [63.4481(e) (40 CFR 63 Subpart PPPP)].

Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table J-4			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Stack Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
973-S01-P	973-S01-U	92-A-657-S4	30	Vertical Unobstructed	42	Ambient	17,500
973-S02-P	973-S02-U	92-A-658-S4	30	Vertical Unobstructed	42	Ambient	17,500

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

<u>Spray Booth Filter Agency Operation & Maintenance Plan</u>
<p>Weekly Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material. Maintain a written record of the observation and any action resulting from the inspection.</p> <p>Record Keeping and Reporting Maintenance and inspection records will be kept for five years and be available upon request.</p> <p>Quality Control The filter equipment will be operated and maintained according to the manufacturer's recommendations.</p>

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: 973-S05-P - Van Shop Surface Preparation

Associated Equipment

Associated Emission Unit ID Number: 973-S05-U
Emissions Control Equipment ID Number: 973-S05-C
Emissions Control Equipment Description: Fiberglass Filters

Applicable Requirements

Emission Unit vented through this Emission Point: 973-S05-U
Emission Unit Description: Van Shop Surface Preparation Booth
Raw Material/Fuel: Fiberglass Parts
Rated Capacity: 17,000 scfm/hr

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

⁽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).

Authority for Requirement: Iowa DNR Construction Permit 96-A-088-S2
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter <10 Microns (PM₁₀)

Emission Limit(s): 0.85 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-088-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 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.

Control equipment parameters:

A. The control equipment shall be inspected and maintained according to manufacturer's recommendations.

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: Iowa DNR Construction Permit 96-A-088-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 29.5

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 17,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 96-A-088-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table K-1 – Line 4 Paint Line

Associated Equipment

Table K-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
979-S01-P	979-S01-U	Line 4 Basecoat Spray Booth #1, W. Stack (includes Air Make-up Heater)	Basecoats, Topcoats, and Solvents	(1)	979-S01-C	Dry Filters
			Natural Gas	4.86 MMBtu/hr		
979-S02-P	979-S01-U	Line 4 Basecoat Spray Booth #1, E. Stack (includes Air Make-up Heater)	Basecoats, Topcoats, and Solvents	(1)	979-S01-C	Dry Filters
			Natural Gas	4.86 MMBtu/hr		
979-S03-P	979-S03-U	Line 4 Basecoat Spray Booth #2, W. Stack (includes Air Make-up Heater)	Basecoats, Topcoats, and Solvents	(1)	979-S03-C	Dry Filters
			Natural Gas	4.86 MMBtu/hr		
979-S04-P	979-S03-U	Line 4 Basecoat Spray Booth #2, E. Stack (includes Air Make-up Heater)	Basecoats, Topcoats, and Solvents	(1)	979-S03-C	Dry Filters
			Natural Gas	4.86 MMBtu/hr		
979-S05-P	979-S05-U	Line 4 Clearcoat Spray Booth, W. Stack (includes Air Make-up Heater)	Basecoats, Topcoats, and Solvents	(1)	979-S05-C	Dry Filters
			Natural Gas	4.86 MMBtu/hr		
979-S06-P	979-S05-U	Line 4 Clearcoat Spray Booth, E. Stack (includes Air Make-up Heater)	Basecoats, Topcoats, and Solvents	(1)	979-S05-C	Dry Filters
			Natural Gas	4.86 MMBtu/hr		
979-S10-P	979-S10-U	Line 4 Touch-up Spray Booth, W. Stack	Basecoats, Topcoats, and Solvents	(1)	979-S10-C	Dry Filters
979-S11-P		Line 4 Touch-up Spray Booth, E. Stack	Basecoats, Topcoats, and Solvents	(1)	979-S10-C	Dry Filters
979-S08-P	979-S08-U	Off-line Touch-up Spray Booth, E. Stack	Paints and Solvents	1.825 gallons/hr	979-S08-C	Dry Filters
979-S09-P		Off-line Touch-up Spray Booth, W. Stack	Paints and Solvents		979-S08-C	Dry Filters

⁽¹⁾ The Line 4 Paint Line, consisting of emission sources listed in Table K-1, is limited to 22,300 gallons per rolling 12-month period as sprayed for paint and solvent usage, or approx. 2.55 gallons/hr total.

Applicable Requirements

The following requirements apply to the emission points identified in Table K-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table K-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.4(13)	PM (lb/hr)	SO ₂ (ppmv) 567 IAC 23.3(3)"e"	VOC (tons/yr)	Iowa DNR Construction Permit			
979-S01-P	979-S01-U	40% ⁽¹⁾	0.80	0.01	NA	500	39.4 ⁽²⁾	88-A-093-S4			
979-S02-P								88-A-094-S8			
979-S03-P	979-S03-U							88-A-095-S4			
979-S04-P								89-A-048-S4			
979-S05-P	979-S05-U							96-A-103-S3			
979-S06-P								01-A-1271-S2			
979-S10-P	979-S10-U							0.13	00-A-600-S3		
979-S11-P								01-A-1272			
979-S08-P	979-S08-U							0.338	0.338	18.33 ⁽³⁾	94-A-251-S2
979-S09-P											03-A-1072

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

⁽²⁾ The bubble limit is 39.4 tpy for VOC for the emission points of 979-S01-P, 979-S02-P, 979-S03-P, 979-S04-P, 979-S05-P, 979-S06-P, 979-S10-P, and 979-S11-P. The 39.4 tpy also takes into account the approximate 4.86 MMBtu/hr direct fired heating units for three of the paint booths (39.03 tpy of the 39.4 tpy limit is for paint and solvent usage).

⁽³⁾ Combined emission limit for 979-S08-P and 979-S09-P.

Operational Limits & Requirements

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

Process Throughput:

Table K-3

Emission Point ID	Emission Unit ID		Iowa DNR Construction Permit	
979-S01-P	979-S01-U	A. The solids content of the as-sprayed material shall not exceed 6.1 pounds per gallon.	88-A-093-S4	
979-S02-P		B. The VOC content of the as-sprayed material shall not exceed 3.5 pounds per gallon.	88-A-094-S8	
979-S03-P	979-S03-U	C. The Line 4 Paint Line consists of emission points 979-S01-P, 979-S02-P, 979-S03-P, 979-S04-P, 979-S05-P, 979-S06-P, 979-S10-P & 979-S11-P. Total spray material usage for the Line 4 Paint Line shall not exceed 22,300 gallons per twelve-month rolling period.	88-A-095-S4	
979-S04-P			89-A-048-S4	
979-S05-P	979-S05-U		96-A-103-S3	
979-S06-P			D. The spray booth is allowed the use of up to 4 spray guns at any one time.	01-A-1271-S2
979-S10-P	979-S10-U		A. The solids content of the as-sprayed material is limited to 6.1 pounds per gallon.	00-A-600-S3
979-S11-P			B. The VOC content of the as-sprayed material is limited to 3.5 pounds per gallon. C. The Line 4 Paint Line consisting of emission points 979-S01-P, 979-S02-P, 979-S03-P, 979-S04-P, 979-S05-P, 979-S06-P, 979-S10-P, and 979-S11-P is limited to a rolling 12-month limit of 39.4 tpy of VOC emissions that consist of three direct fired heaters and the painting operations.	
		D. Of the 39.4 tpy VOC emissions, the Line 4 Paint Line is limited to 39.03 tpy or 22,300 gallons per rolling 12-month period as sprayed for paint and solvent usage.	01-A-1272	
		E. This paint booth is limited to the spraying or operation of 2 paint guns or less at any time.		
979-S08-P	979-S08-U	A. The amount of material sprayed in the Line #4 Touchup spray booth (EP 979-S08 and EP 979-S09) shall not exceed 5,500 gallons in any rolling twelve-month period.	94-A-251-S2	
979-S09-P		B. The VOC content of any material sprayed in the Line #4 Touchup spray booth (EP 979-S08 and EP 979-S09) shall not exceed 6.6 pounds per gallon, as applied. C. Only one spray gun shall be operated in the spray booth at any time.	03-A-1072	

Authority for Requirement: Iowa DNR Construction Permits referenced in Table K-3

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

Table K-4

Emission Point ID	Emission Unit ID	The permittee shall maintain the following records:	Iowa DNR Construction Permit
979-S01-P	979-S01-U	A. Maintain the MSDS for all spray materials used. B. Record the total spray material usage for the Line 4 Paint Line in gallons per twelve-month rolling period.	88-A-093-S4 ⁽¹⁾
979-S02-P			88-A-094-S8 ⁽¹⁾
979-S03-P	979-S03-U	C. Calculate the VOC emissions based on each VOC content and spray material usage per twelve-month rolling period.	88-A-095-S4 ⁽¹⁾
979-S04-P			89-A-048-S4 ⁽¹⁾
979-S05-P	979-S05-U	D. Maintain a record of all maintenance and replacement of the filters.	96-A-103-S3 ⁽¹⁾
979-S06-P			01-A-1271-S2 ⁽¹⁾
979-S10-P	979-S10-U	A. Retain Material Safety Data Sheets (MSDS) of all paints and solvents used in the Line 4 Paint Line. B. Record the quantity of paint and solvent used in a rolling 12-month period. C. Tabulate the VOC emissions based on each VOC content and paint usage based on a twelve (12) month rolling period, rolled monthly. D. Maintain records documenting maintenance of control equipment.	00-A-600-S3 ⁽¹⁾
979-S11-P			01-A-1272 ⁽¹⁾
Emission Point ID	Emission Unit ID	The permittee shall maintain the following monthly records:	Iowa DNR Construction Permit
979-S08-P	979-S08-U	A. The identification of any material used in the spray booth. B. The as applied VOC content of any material used in the booth (lbs/gal). C. The total amount of material used in the spray booth (gallons). D. The rolling 12-month total of the amount of material used in the spray booth (gallons) E. Any maintenance done on the booth's filters.	94-A-251-S2
979-S09-P			03-A-1072

⁽¹⁾ NOTE: DNR has discussed the method of tracking paint and solvent usage with Winnebago. Winnebago uses an inventory database which records the amount of paint and solvent issued to the Line 4 Production area, amount of waste material shipped off-site, and then uses these numbers to determine the emissions from the paint booth. The Department has determined that this method is acceptable for accounting for the VOC emission limit of 39.03 tpy of which 0.37 tpy is from the three direct-fired heaters.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table K-4

NESHAP:

A. Emission Units* 979-S01-U, 979-S03-U, and 979-S05-U are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart Mmmm, Surface Coating of Miscellaneous Metal Parts and Products and 40 CFR Part 63, Subpart Pppp, Surface Coating of Plastic Parts and Products. Please refer to Appendix C and D of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table K-2
567 IAC 23.1(4)"cm", 567 IAC 23.1(4)"cp"

B. Emission Units* 979-S01-U, 979-S03-U 979-S05-U are subject to the NESHAP General Provisions 40 CFR part 63 Subpart A.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table K-2
567 IAC 23.1(4)"a"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility –specific emission limit [63.4481(e) (40 CFR 63 Subpart Pppp)].

C. Emission Units** 979-S08-U and 979-S10-U at this time are not subject to any subparts from NSPS or NESHAP. However, the source (facility) is subject to NESHAP Subpart JJ due to the wood furniture manufacturing operations.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table K-2

** Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table K-5			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Stack Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
979-S01-P	979-S01-U	88-A-093-S4	30	Vertical Unobstructed	36	Ambient	22,500
979-S02-P		88-A-094-S8	30	Vertical Unobstructed	36	Ambient	22,500
979-S03-P	979-S03-U	88-A-095-S4	30	Vertical Unobstructed	36	Ambient	20,000
979-S04-P		89-A-048-S4	30	Vertical Unobstructed	36	Ambient	20,000
979-S05-P	979-S05-U	96-A-103-S3	30	Vertical Unobstructed	36	Ambient	22,500
979-S06-P		01-A-1271-S1	30	Vertical Unobstructed	36	Ambient	22,500
979-S10-P	979-S10-U	00-A-600-S3	30	Vertical Unobstructed	42	Ambient	21,000
979-S11-P		01-A-1272	30	Vertical Unobstructed	42	Ambient	21,000
979-S08-P	979-S08-U	94-A-251-S2	28	Vertical Unobstructed	42	70	19,440
979-S09-P		03-A-1072	28	Vertical Unobstructed	42	70	19,440

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

<u>Spray Booth Filter Agency Operation & Maintenance Plan</u>
<p>Weekly Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material. Maintain a written record of the observation and any action resulting from the inspection.</p>
<p>Record Keeping and Reporting Maintenance and inspection records will be kept for five years and be available upon request.</p>
<p>Quality Control The filter equipment will be operated and maintained according to the manufacturer's recommendations.</p>

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table L-1 – Fiberglassing Booths

Associated Equipment

Table L-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
982-S08-P	982-S08-U	Tooling Resin Spray Booth	Fiberglass Gelcoats and Polyester Resins	1.0 gallons/hr	982-S08-C	Dry Filters
982-S09-P			Stains and Solvents	1.825 gallons/hr	982-S09-C	Dry Filters
982-S11-P	982-S11-U	Fiberglass Chop Booth	Resin and Catalyst	2,412 lb/hr	982-S11-C	Dry Filters
982-S12-P					982-S12-C	Dry Filters
982-S13-P					982-S13-C	Dry Filters
982-S14-P	982-S14-U	Gelcoat Booth	Gelcoat and Catalyst	185 lb/hr	982-S14-C	Dry Filters

Applicable Requirements

The following requirements apply to the emission points identified in Table L-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table L-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.4(13)	PM (lb/hr)	VOC (tons/yr)	Total HAP (lb/ton)	Iowa DNR Construction Permit
982-S08-P	982-S08-U	40% ⁽¹⁾	0.40	0.01	0.40	8.7 ⁽²⁾	88lb/ton resin ⁽⁴⁾	96-A-092-S5
982-S09-P								96-A-090-S2
982-S11-P	982-S11-U		0.50		0.50	24.0 ⁽³⁾		09-A-489-S1
982-S12-P								09-A-490-S1
982-S13-P								09-A-491-S1
982-S14-P	982-S14-U	0.80	0.80	14.5	267 lb/ton gelcoat ⁽⁵⁾ or 377 lb/ton gelcoat ⁽⁶⁾	09-A-492-S1		

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

⁽²⁾ Combined emission limit for 982-S08-P and 982-S09-P.

⁽³⁾ VOC limit requested by permittee for the Chop Spray Booth, EU 982-S11 (EP 982-S11, EP 982-S12 and EP 982-S13).

⁽⁴⁾ This emission limit is for the open molding application of non-corrosion-resistant and/or high strength (CR/HS) resins as specified in the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart WWWW – Reinforced Plastics Composite Production (40 CFR §63.5780 through 40 CFR §63.5980).

⁽⁵⁾ This emission limit is for the open molding application of white and off-white pigmented gel coating as specified in the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart WWWW – Reinforced Plastics Composite Production (40 CFR §63.5780 through 40 CFR §63.5980). This standard is expressed as a 12-month rolling average and includes periods of startup, shutdown and malfunction.

⁽⁶⁾ This emission limit is for the open molding application of all other pigmented gel coating as specified in the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart WWWW – Reinforced Plastics Composite Production (40 CFR §63.5780 through 40 CFR §63.5980). This standard is expressed as a 12-month rolling average and includes periods of startup, shutdown and malfunction.

Operational Limits & Requirements

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

Process Throughput:

Table L-3

Emission Point ID	Emission Unit ID		Iowa DNR Construction Permit
982-S08-P	982-S08-U	A. The amount of resin and gel coat used in this emissions unit shall not exceed 63,704 pounds in any monthly rolling 12-month period. B. The VOC content of any combination of resin and gel coat used in the Tooling Resin Spray Booth shall not exceed 540 pounds per ton of material used. C. Emissions of organic HAP for mechanical tooling resin application shall not exceed 254 lbs per ton of material used as calculated using the procedures in 40 CFR §63.5810.	96-A-092-S5
982-S09-P		D. Emissions of organic HAP for tooling gel coat application shall not exceed 440 lbs per ton of material used as calculated using the procedures in 40 CFR §63.5810. E. The amount of organic peroxide catalyst used in the Tooling Resin Spray Booth shall not exceed 3,700 pounds in any monthly rolling 12-month period. F. The Tooling Resin Spray Booth shall comply with all applicable requirements from 40 CFR Part 63, Subpart WWWW, NESHAP for Reinforced Plastic Composites Production. G. Manual grinding of formed parts is permitted in the booth.	96-A-090-S2
982-S11-P	982-S11-U	A. The amount of resin material used in the Fiberglass Chop Booth, EU-982-S11, shall not exceed 500,000 pounds in any monthly rolling 12-month period.	09-A-489-S1
982-S12-P		B. Emissions of VOC from any resin used in the Fiberglass Chop Booth, EU-982-S11, shall not exceed 188 pounds per ton of resin used as calculated using the procedures in Section 15.A.vii of this permit. C. Emissions of Organic HAP shall not exceed 88 pounds per ton of resin used as calculated using the procedures in 40 CFR §63.5810.	09-A-490-S1
982-S13-P		D. The amount of organic peroxide catalyst used in the Fiberglass Chop Booth, EU-982-S11, shall not exceed 20,000 pounds combined in any monthly rolling 12-month period. This condition is based upon the assumption the formulation contaminant VOC components, which would not be expected to participate in the polymerization reaction, are present in quantities no greater than 5%, by weight. E. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart WWWW, NESHAP for Reinforced Plastic Composites Production.	09-A-491-S1

982-S14-P	982-S14-U	<p>A. The amount of gelcoat used in the Gelcoat Booth, EP-982-S14, shall not exceed 121,593 pounds in any monthly rolling 12-month period.</p> <p>B. Emissions of VOC from any gelcoat used in the Gelcoat Booth, EP-982-S14, shall not exceed 477 pounds per ton of gelcoat used as calculated using the procedures in Section 15.A.vii of this permit.</p> <p>C. Emissions of Organic HAP shall not exceed 267 pounds per ton of gelcoat used for white/off-white pigmented gelcoats as calculated using the procedures in 40 CFR§63.5810.</p> <p>D. Emissions of Organic HAP shall not exceed 377 pounds per ton of gelcoat used for all other pigmented gelcoats as calculated using the procedures in 40 CFR§63.5810.</p> <p>E. The amount of organic peroxide catalyst used in the Gelcoat Booth, EP-982-S14, shall not exceed 20,000 pounds combined in any monthly rolling 12-month period. This condition is based upon the assumption the formulation contaminant VOC components, which would not be expected to participate in the polymerization reaction, are present in quantities no greater than 5%, by weight.</p> <p>F. This emission unit shall comply with all applicable requirements from 40 CFR Part 63, Subpart WWWW, NESHAP for Reinforced Plastic Composites Production.</p>	09-A-492-S1
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Authority for Requirement: Iowa DNR Construction Permits referenced in Table L-3
567 IAC 23.1(4)"cw"

Control equipment parameters:

A. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table L-3

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

Table L-4

Emission Point ID	Emission Unit ID	Reporting & Record keeping	Iowa DNR Construction Permit
982-S08-P	982-S08-U	<p>A. The permittee shall maintain the following monthly records:</p> <ol style="list-style-type: none"> The identification of any material used in the Tooling Resin Spray Booth. The VOC and the organic HAP content of any resin and gel coat used in the Tooling Resin Spray Booth. The amount of resin and gel coat used in the Tooling Room Spray Booth in pounds. The amount of catalyst used in the Tooling Resin Spray Booth in pounds. The rolling 12-month total of the amount of resin and gel coat used in the Tooling Resin Spray Booth in pounds. The rolling 12-month total of the amount of organic peroxide catalyst used in the Tooling Resin Spray Booth in pounds. The VOC and the organic HAP emission rate (tons). The emissions from mechanical resin and spray gel coat application shall be determined by using the appropriate equations from Table 1 of 40 CFR Part 63, Subpart WWWW, National Emissions Standard for Hazardous 	96-A-092-S5

982-S09-P		<p>Air Pollutants: Reinforced Plastic Composite Production. These equations are used to calculate organic HAP emissions from open molding operations. The emissions of VOC shall be considered equivalent to organic HAP emissions provided that all the VOC components in the resin and gel coat are organic HAPs. If a VOC component is not an organic HAP, the permittee shall estimate that 100% of the VOC component is emitted in the Tooling Resin Spray Booth.</p> <p>8. The rolling 12-month total of the VOC and the organic HAP emissions in tons.</p> <p>B. The permittee shall record the compliance option being used by the facility to show compliance with NESHAP Subpart WWWW. If applicable, the permittee shall also record the date that the facility switches compliance options.</p> <p>C. Retain Material Safety Data Sheets (MSDS) for all material used in the Tooling Resin Spray Booth.</p> <p>D. The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.</p>	96-A-090-S2
Emission Point ID	Emission Unit ID	Reporting & Record keeping	Iowa DNR Construction Permit
982-S11-P	982-S11-U	<p>A. The permittee shall maintain the following monthly records:</p> <ol style="list-style-type: none"> 1. The identification of any material used in the Fiberglass Chop Booth, EU 982-S11-U. The VOC and Organic HAP content of any resin used in the Fiberglass Chop Booth, EU 982-S11-U. 2. The amount of resin used in the Fiberglass Chop Booth, EU 982-S11-U, in pounds. 3. The amount of catalyst used in the Fiberglass Chop Booth, EU 982-S11-U, in pounds. 4. The rolling 12-month total amount of resin used in the Fiberglass Chop Booth, EU 982-S11-U, in pounds. 5. The rolling 12-month amount of catalyst used in the Fiberglass Chop Booth, EU 982-S11-U, in pounds. 6. The VOC emission rate for all resins used in Fiberglass Chop Booth, EU 982-S11-U, in pounds per ton. The emissions rate shall be determined by using the appropriate equations from Table 1 of 40 CFR Part 63, Subpart WWWW, National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composite Production. These equations are used to calculate organic HAP emissions from open molding operations. The emissions of VOC shall be considered equivalent to organic HAP emissions provided that all the VOC components in the resin are organic HAP. If a VOC component is not an organic HAP, the permittee shall estimate that 100% of the VOC component is emitted from the Fiberglass Chop Booths. The organic HAP emission rate for all resins used in Fiberglass Chop Booth, EU 982-S11-U, in pounds per ton. The emissions rate shall be determined by using the appropriate equations from Table 1 of 40 CFR Part 63, Subpart WWWW, National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composite Production. These equations are used to calculate organic HAP emissions from open molding operations. 	09-A-489-S1
982-S12-P			09-A-490-S1

982-S13-P		<p>7. The rolling 12-month total of VOC emissions from the Fiberglass Chop Booth, EU 982-S11-U, in tons.</p> <p>8. The rolling 12-month total of Organic HAP emissions from the Fiberglass Chop Booth, EU 982-S11-U, in tons.</p> <p>B. The permittee shall record the compliance option being used by the facility to show compliance with NESHAP Subpart WWWW. If applicable, the permittee shall also record the date that the facility switches compliance options.</p> <p>C. Retain Material Safety Data Sheets (MSDS) for all material used in the Fiberglass Chop Booth.</p> <p>D. The owner or operator shall provide all applicable notifications and reports as required by NESHAP Subpart WWWW, 40 CFR §63.5905 and 40 CFR § 63.5910.</p> <p>E. The owner or operator shall maintain a record of all inspections of the control equipment. The owner or operator shall document the results of the inspections and note any repairs that were made as a result of the inspections.</p>	09-A-491-S1
Emission Point ID	Emission Unit ID	Reporting & Record keeping	Iowa DNR Construction Permit
982-S14-P	982-S14-U	<p>A. The permittee shall maintain the following monthly records:</p> <ol style="list-style-type: none"> 1. The identification of any material used in the Gelcoat Booth, EP-982-S14. 2. The VOC and Organic HAP content of any gelcoat used in the Gelcoat Booth, EP-982-S14. 3. The amount of gelcoat used in the Gelcoat Booth, EP-982-S14. 4. The amount of catalyst used in the Gelcoat Booth, EP-982-S14. 5. The rolling 12-month total amount of gelcoat used in the Gelcoat Booth, EP-982-S14. 6. The rolling 12-month amount of catalyst used in the Gelcoat Booth, EP-982-S14. 7. The VOC emission rate for all gelcoats used in Gelcoat Booth, EP-982-S14 in pounds per ton. The emissions rate shall be determined by using the appropriate equations from Table 1 of 40 CFR Part 63, Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composite Production. These equations are used to calculate organic HAP emissions from open molding operations. The emissions of VOC shall be considered equivalent to organic HAP emissions provided that all the VOC components in the gelcoat are organic HAP. If a VOC component is not an organic HAP, the permittee shall estimate that 100% of the VOC component is emitted from the Gelcoat Booth. 8. The organic HAP emission rate for all gelcoats used in Gelcoat Booth, EP-982-S14 in pounds per ton. The emissions rate shall be determined by using the appropriate equations from Table 1 of 40 CFR Part 63, Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composite Production. These equations are used to calculate organic HAP emissions from open molding operations. 9. The rolling 12-month total of VOC emissions from the Gelcoat Booth, EP-982-S14. 10. The rolling 12-month total of Organic HAP emissions from the Gelcoat Booth, EP-982-S14. <p>B. The permittee shall record the compliance option being used by the facility to show compliance with NESHAP Subpart WWWW. If applicable, the permittee shall also record the date that the facility switches compliance options.</p> <p>C. Retain Material Safety Data Sheets (MSDS) for all material used in the Gelcoat Booth.</p>	09-A-492-S1

		<p>D. The owner or operator shall provide all applicable notifications and reports as required by NESHAP Subpart WWWW, 40 CFR §63.5905 and 40 CFR § 63.5910.</p> <p>E. The owner or operator shall maintain a record of all inspections of the control equipment. The owner or operator shall document the results of the inspections and note any repairs that were made as a result of the inspections.</p>	
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NESHAP:

These emission units* are located at a reinforced plastic composites production facility, which is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart WWWW, Reinforced Plastic Composites Production. Please refer to Appendix B of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Tables L-3 and L-4 567 IAC 23.1(4)"cw"

*Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table L-5			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Stack Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
982-S08-P	982-S08-U	96-A-092-S5	18.5	Downward	34	70	14,150
982-S09-P		96-A-90-S2	18.5	Downward	34	70	14,150
982-S11-P	982-S11-U	09-A-489-S1	26.33	Vertical Unobstructed	42	70	19,059
982-S12-P		09-A-490-S1	26.5	Vertical Unobstructed	42	70	19,059
982-S13-P		09-A-491-S1	26.67	Vertical Unobstructed	42	70	19,059
982-S14-P	982-S14-U	09-A-492-S1	26.33	Vertical Unobstructed	42	70	14,000

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

<u>Spray Booth Filter Agency Operation & Maintenance Plan</u>
Weekly Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material. Maintain a written record of the observation and any action resulting from the inspection.
Record Keeping and Reporting Maintenance and inspection records will be kept for five years and be available upon request.
Quality Control The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table M-1 – Full Body Paint Line

Associated Equipment

Table M-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/Fuel	Rated Capacity	Control Equipment ID	Control Equipment Description
987-S02-P	987-S02-U	Full Body Paint – Basecoat Spray Booth	Paint and Solvents	6.563 gallons/hr	987-S02-C	Dry Filters
987-S03-P						
987-S04-P	987-S04-U	Full Body Paint – Clearcoat Spray Booth	Paint and Solvents	6.563 gallons/hr	987-S04-C	Dry Filters
987-S05-P						

Applicable Requirements

The following requirements apply to the emission points identified in Table M-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table M-2

Emission Point ID	Emission Unit ID	PM ₁₀ (lb/hr)	Opacity 567 IAC 23.3(2)"d"	PM (gr/dscf) 567 IAC 23.4(13)	VOC (tons/yr)	Iowa DNR Construction Permit
987-S02-P	987-S02-U	0.50 lb/hr	40% ⁽¹⁾	0.01	36.0 ⁽²⁾	98-A-211-S2
987-S03-P						00-A-601-S1
987-S04-P	987-S04-U				28.8 ⁽³⁾	98-A-212-S3
987-S05-P						00-A-602-S2

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

⁽²⁾ Total emissions from EP 987-S02-P and EP 987-S03-P.

⁽³⁾ Total emissions from EP 987-S04-P and EP 987-S05-P.

Operational Limits & Requirements

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

Process Throughput:

Table M-3

Emission Point ID	Emission Unit ID		Iowa DNR Construction Permit
987-S02-P	987-S02-U	A. The amount of material sprayed in the Full Body Basecoat Spray Booth (EP 987-S02 and EP 987-S03) shall not exceed 10,827 gallons in any rolling twelve-month period.	98-A-211-S2
987-S03-P		B. The VOC content of any material sprayed in the Full Body Basecoat Spray Booth (EP 987-S02 and EP 987-S03) shall not exceed 6.65 pounds per gallon, as applied. C. The solids content of any material sprayed in the Full Body Basecoat Spray Booth (EP 987-S02 and EP 987-S03) shall not exceed 6.5 pounds per gallon, as applied.	00-A-601-S1
987-S04-P	987-S04-U	A. The amount of material sprayed in the Full Body Clearcoat Spray Booth (EP 987-S04 and EP 987-S05) shall not exceed 9,142 gallons in any rolling twelve-month period.	98-A-212-S3
987-S05-P		B. The VOC content of any material sprayed in the Full Body Clearcoat Spray Booth (EP 987-S04 and EP 987-S05) shall not exceed 6.3 pounds per gallon, as applied. C. The solids content of any material sprayed in the Full Body Clearcoat Spray Booth (EP 987-S02 and EP 987-S03) shall not exceed 6.0 pounds per gallon, as applied.	00-A-602-S2

Control equipment parameters:

- A. The permittee shall maintain the paint booth's filters according to the manufacturer's specifications and maintenance schedule.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table M-3

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner. The permittee shall maintain the following monthly records:

Table M-4

Emission Point ID	Emission Unit ID	The permittee shall maintain the following monthly records:	Iowa DNR Construction Permit
987-S02-P	987-S02-U	A. The identification of any material used in the spray booth. B. The as-applied VOC content and the as-applied solids content of any material used in the booth (lbs/gal). C. The total amount of material used in the spray booth (gallons).	98-A-211-S2
987-S03-P		D. The rolling 12-month total of the amount of material used in the spray booth (gallons) E. Any maintenance done on the booth's filters. In addition, permittee shall record when the filters are changed.	00-A-601-S1
987-S04-P	987-S04-U	A. The identification of any material used in the spray booth. B. The as-applied VOC content and the as-applied solids content of any material used in the booth (lbs/gal). C. The total amount of material used in the spray booth (gallons).	98-A-212-S3
987-S05-P		D. The rolling 12-month total of the amount of material used in the spray booth (gallons) E. Any maintenance done on the booth's filters. In addition, permittee shall record when the filters are changed.	00-A-602-S2

NESHAP:

A. Emission Units* 987-S02-U and 987-S04-U are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart Mmmm, Surface Coating of Miscellaneous Parts and Products and 40 CFR, Part 63, Subpart Pppp, Surface Coating of Plastic Parts and Products. Please refer to Appendix C and D of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table M-2
567 IAC 23.1(4)"cm", "cp"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility –specific emission limit [63.4481(e) (40 CFR 63 Subpart Pppp)].

Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table M-5

			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Stack Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
987-S02-P	987-S02-U	98-A-211-S2	28.2	Vertical Unobstructed	42	70	21,000
987-S03-P		00-A-601-S1	28.2	Vertical Unobstructed	42	70	21,000
987-S04-P	987-S04-U	98-A-212-S3	28.2	Vertical Unobstructed	42	70	21,000
987-S05-P		00-A-602-S2	28.2	Vertical Unobstructed	42	70	21,000

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

<p><u>Spray Booth Filter Agency Operation & Maintenance Plan</u></p> <p>Weekly Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material. Maintain a written record of the observation and any action resulting from the inspection.</p> <p>Record Keeping and Reporting Maintenance and inspection records will be kept for five years and be available upon request.</p> <p>Quality Control The filter equipment will be operated and maintained according to the manufacturer's recommendations.</p>
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Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 982-S10-P

Associated Equipment

Associated Emission Unit ID Numbers: 982-S10-U
Emissions Control Equipment ID Number: 982-S10-C
Emissions Control Equipment Description: Dry Filters

Applicable Requirements

Emission Unit vented through this Emission Point: 982-S10-U
Emission Unit Description: Model Shop Paint Booth
Raw Material/Fuel: Paints, Solvents, Lacquers, Adhesives
Rated Capacity: 7 gallons/hr

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⁾

⁽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).

Authority for Requirement: Iowa DNR Construction Permit 06-A-1146
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter <10 microns (PM₁₀)

Emission Limit(s): 0.66 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 06-A-1146

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 06-A-1146
567 IAC 23.4(13)

Operational Limits & Requirements

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

Process throughput:

A. The maximum amount of surface coating material (paint and solvent) used in the affected emission unit, EU 982-S10, shall not exceed 1,000 gallons per rolling twelve-month period.

- B. The maximum VOC content of the surface coating material (paint and solvent) used in the affected emission unit, EU 982-S10 shall not exceed 7.50 pounds per gallon.

Authority for Requirement: Iowa DNR Construction Permit 06-A-1146

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The permit holder, owner or operator of the facility shall record the identification and VOC content of all surface coating materials used in the affected emission unit, EU 982-S10.
- B. The permit holder, owner or operator of the facility shall calculate and record the monthly total and the 12-month rolling total amount of surface coating material used in the affected emission unit, EU 982-S10, in gallons.
- C. The permit holder, owner or operator of the facility shall maintain manufacturer/vendor provided information (i.e. Material Safety Data Sheets (MSDS), technical data sheets, etc.) of all materials used in the emission unit, which clearly indicates the VOC content of that material.
- D. The permit holder, owner or operator of the facility shall record the compliance option being used by the facility to show compliance with the applicable NESHAP Subpart JJ and Subpart MMMM. If applicable, the permit holder, owner or operator of the facility shall also record the date that the facility switches compliance options.

Authority for Requirement: Iowa DNR Construction Permit 06-A-1146

NESHAP:

- A. This emission unit** is located at a wood furniture manufacturing facility, which is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart JJ - Wood furniture Manufacturing Operations (40 CFR §63.800 through 40 CFR §63.808).
- B. This emission unit* is subject to the requirements of NESHAP Subpart MMMM - Surface coating of Miscellaneous Metal Parts and Products (40 CFR §63.3880 through 40 CFR §63.3981).
- C. The wood furniture manufacturing facility** is also subject to the requirements of NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) and to the requirements of 567 IAC 23.1(4)"a", "aj", and "cm".

Authority for Requirement: Iowa DNR Construction Permit 06-A-1146
567 IAC 23.1(4)"a", "aj", and "cm"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility-specific emission limit [63.4481(e) (40 CFR 63 Subpart P)].

**Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet from the ground): 27

Stack Diameter (inches): 34

Stack Exhaust Flow Rate (scfm): 7,700

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 06-A-1146

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Spray Booth Filter Agency Operation & Maintenance Plan

Weekly

Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.

Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and be available upon request.

Quality Control

The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 987-S01-P

Associated Equipment

Associated Emission Unit ID Numbers: 987-S01-U
Emissions Control Equipment ID Number: 987-S01-C
Emissions Control Equipment Description: Dry Filters

Applicable Requirements

Emission Unit vented through this Emission Point: 987-S01-U
Emission Unit Description: Maintenance Dry Filter Spray Booth
Raw Material/Fuel: Paint and Solvents
Rated Capacity: 1.25 gallons/hr

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⁾

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

Authority for Requirement: Iowa DNR Construction Permit 96-A-089-S1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter <10 microns (PM₁₀)

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-089-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.50 lb/hr
0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 96-A-089-S1
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 7.8 tons/year

Authority for Requirement: Iowa DNR Construction Permit 96-A-089-S1

Operational Limits & Requirements

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

Process throughput:

- A. The amount of coatings used in the Maintenance Paint Spray Booth shall not exceed 2,500 gallons in any rolling twelve-month period.
- B. The VOC content of any coating used in the Maintenance Paint Spray Booth shall not exceed 6.24 pounds of VOC per gallon.

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner. The permittee shall maintain the following monthly records:

- A. The identification of any coating used in the Maintenance Paint Spray Booth.
- B. The VOC content of any coating used in the Maintenance Paint Spray Booth.
- C. The amount of coating used in the Maintenance Paint Spray Booth (gallons).
- D. The rolling 12-month total of the amount of coating used in the Maintenance Paint Spray Booth (gallons).

Authority for Requirement: Iowa DNR Construction Permit 96-A-089-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet from the ground): 26.5

Stack Diameter (inches): 42

Stack Exhaust Flow Rate (scfm): 25,600

Stack Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 96-A-089-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

<u>Spray Booth Filter Agency Operation & Maintenance Plan</u>
Weekly Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material. Maintain a written record of the observation and any action resulting from the inspection.
Record Keeping and Reporting Maintenance and inspection records will be kept for five years and be available upon request.
Quality Control The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table N-1 – Test Vehicle Exhausts

Associated Equipment

Table N-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/ Fuel	Rated Capacity
959-P02-P	959-P02-U	Shipout Road Test Booth	Diesel	600 HP
970-V01-P	970-V01-U	Customer Service Motorhome Exhaust	Diesel or Gasoline	600 HP
977-V01-P	977-V01-U	Chassis Weld Vehicle Exhaust	Diesel	700 HP
978-V01-P	978-V01-U	Warranty Motorhome Exhaust	Diesel or Gasoline	600 HP
978-V02-P	978-V02-U	Warranty Motorhome Exhaust	Diesel or Gasoline	600 HP
979-V05-P	979-V05-U	Motor Home Plant Line 2 Vehicle Exhaust	Gasoline	400 HP
989-V01-P	989-V01-U	Truck Stop Vehicle Exhaust	Diesel or Gasoline	600 HP
989-V02-P	989-V02-U	Truck Stop Vehicle Exhaust	Diesel or Gasoline	600 HP
989-V03-P	989-V03-U	Truck Stop Vehicle Exhaust	Diesel or Gasoline	600 HP

Applicable Requirements

The following requirements apply to the emission points identified in Table N-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table N-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.3(2)"a"	PM (lb/hr)	SO ₂ (lb/MMBtu) 567 IAC 23.3.(3)"b"	SO ₂ (lb/hr)	Iowa DNR Construction Permit
959-P02-P	959-P02-U	40% ⁽¹⁾	0.82	0.05 ⁽³⁾	0.82	2.5		05-A-571
970-V01-P	970-V01-U	40% ⁽¹⁾	0.445	0.1	0.445	2.5	0.30	05-A-041-S1
978-V01-P	978-V01-U	40% ⁽¹⁾	0.445	0.1	0.445	2.5	0.30	05-A-042-S1
978-V02-P	978-V02-U	40% ⁽¹⁾	0.445	0.1	0.445	2.5	0.30	05-A-043-S1
989-V01-P	989-V01-U	40% ⁽¹⁾	0.565	0.1	0.565	2.5	0.30	05-A-044-S1
989-V02-P	989-V02-U	40% ⁽¹⁾	0.565	0.1	0.565	2.5	0.30	05-A-045-S1
989-V03-P	989-V03-U	40% ⁽²⁾	0.565	0.1	0.565	2.5	0.30	05-A-046

⁽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).

⁽²⁾ An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽³⁾ Iowa DNR Construction Permit 05-A-571

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table N-3

EP ID	EU ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.3(2)"a"	PM (lb/hr)	SO ₂ (lb/ MMBtu) 567 IAC 23.3(3)"b"	SO ₂ (lb/hr)	NOx (lb/hr)	CO (lb/hr)	Iowa DNR Construction Permit
977- V01-P	977- V01-U	40% ⁽¹⁾	0.92	0.1	0.92	2.5	1.44	2.89	0.61	07-A-1348- S1
979- V05-P	979- V05-U	20%	0.81	0.1	0.81	2.5	1.42	2.89	3.00	07-A-1278

⁽¹⁾ An exceedance of the indicator opacity of 20% 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).

Operational Limits & Requirements

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

Process throughput:

For Emission Unit 959-P02-U:

- A. The sulfur content of diesel oil burned shall not exceed 0.5 percent by weight.

Authority for Requirement: Iowa DNR Construction Permit 05-A-571

For Emission Units 970-V01-U, 978-V01-U, 978-V02-U, 989-V01-U, 898-V02-U and 989-V03-U:

- A. The fuel used in the vehicles that are operated in this area shall have a maximum sulfur content of 0.05% by weight.

Authority for Requirement: Iowa DNR Construction Permits referenced in Table N-2

Hours of operation:

- A. Emission Unit 989-V03-U shall only operate between the hours of 6:00 AM and 6:00 PM.

Authority for Requirement: Iowa DNR Construction Permit 05-A-046

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

For Emission Unit 959-P02-U:

- A. The permittee shall maintain records on the sulfur content of the oil burned in the engines that are tested in this emissions unit.

Authority for Requirement: Iowa DNR Construction Permit 05-A-571

For Emission Unit 989-V03-U:

A. For each day of operation of this unit, record the time operation began and the time operation ended.

Authority for Requirement: Iowa DNR Construction Permit 05-A-046

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table N-4			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Stack Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
959-P02-P	959-P02-U	05-A-571	30	Vertical Unobstructed	15	100	1,900
970-V01-P	970-V01-U	05-A-041-S1	19.5	Downward	8	300	1,040
977-V01-P	977-V01-U	07-A-1348-S1	11.67	Downward	12	100	2,280
978-V01-P	978-V01-U	05-A-042-S1	26	Vertical Unobstructed	8	250	1,800
978-V02-P	978-V02-U	05-A-043-S1	26	Vertical Unobstructed	8	250	1,800
979-V05-P	979-V05-U	07-A-1278	31	Vertical Unobstructed	15	100	2,000
989-V01-P	989-V01-U	05-A-044-S1	22	Horizontal	10 x 12	300	1,320
989-V02-P	989-V02-U	05-A-045-S1	22	Horizontal	10 x 12	300	1,320
989-V03-P	989-V03-U	05-A-046	30	Vertical Unobstructed	10 x 12	300	1,320

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID: See Table O-1 – Wire Prep System

Associated Equipment

Table O-1

Emission Point ID	Emission Unit ID	Emission Unit Description	Raw Material/Fuel	Rated Capacity
979-S13-P	979-S13-U	Heat Shrink Gun	Plastic Sleeves	76 sleeves/hr
979-S14-P	979-S14C-U	Wire Prep System - Heat Shrink Gun	Plastic	4,000 sleeves/day ⁽¹⁾
	979-S14D-U	Wire Prep System - Heat Shrink Gun		4,000 sleeves/day ⁽¹⁾
	979-S14E-U	Wire Prep System - Heat Shrink Gun		4,000 sleeves/day ⁽¹⁾
	979-S14F-U	Wire Prep System - Heat Shrink Gun		4,000 sleeves/day ⁽¹⁾
	979-S14G-U	Wire Prep System - Heat Shrink Gun		4,000 sleeves/day ⁽¹⁾
	979-S14H-U	Wire Prep System - Sonic Welder	Flux	1,200 weld/day
	979-S14I-U	Wire Prep System - Solder Pot	Solder Paste	350 lb solder/yr

⁽¹⁾The maximum capacity listed for the heat shrink guns represents the total capacity of all five emission units combined (i.e., total system capacity).

Emissions Control Equipment ID Number: none

Applicable Requirements

The following requirements apply to the emission points identified in Table O-1.

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

The emissions from the emission points listed in the table below shall not exceed the levels specified below.

Table O-2

Emission Point ID	Emission Unit ID	Opacity 567 IAC 23.3(2)"d"	PM ₁₀ (lb/hr)	PM (gr/dscf) 567 IAC 23.4(5)	Iowa DNR Construction Permit
979-S13-P	979-S13-U	40% ⁽²⁾	0.01	0.05	05-A-341
979-S14-P	979-S14C-U	40% ⁽²⁾	0.18	0.05	05-A-342
	979-S14D-U				
	979-S14E-U				
	979-S14F-U				
	979-S14G-U				
	979-S14H-U				
979-S14I-U					

⁽²⁾ 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).

Emission Point Characteristics

The emission points listed in the table below shall conform to the specifications listed below.

Table O-3			Stack Characteristics				
Emission Point ID	Emission Unit ID	Construction Permit	Stack Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
979-S13-P	979-S13-U	05-A-341	35.5	Vertical Obstructed	4	Ambient	117
979-S14-P	979-S14C-U	05-A-342	35.5	Vertical Obstructed	12	Ambient	2,060
	979-S14D-U						
	979-S14E-U						
	979-S14F-U						
	979-S14G-U						
	979-S14H-U						
	979-S14I-U						

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 952-S01-P

Associated Equipment

Associated Emission Unit ID Numbers: 952-S01-U

Emissions Control Equipment ID Number: none

Applicable Requirements

Emission Unit vented through this Emission Point: 952-S01-U

Emission Unit Description: Emissions Attributed To Aerosol Can Point Of Use

Raw Material/Fuel: Spent Aerosol Cans

Rated Capacity: 65.79 cans/hr (based on limit of 50,000 cans/12-mo rolling period)

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⁾

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

Authority for Requirement: Iowa DNR Construction Permit 05-A-040-S1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13) Performance standards for painting and surface-coating operations

Operational Limits & Requirements

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

Process throughput:

- A. The throughput of this unit shall not exceed 50,000 aerosol cans per twelve month period, rolled monthly.
- B. No waste other than that accumulated from the functionally spent aerosol cans shall be transferred to waste drums in this unit.

Authority for Requirement: Iowa DNR Construction Permit 05-A-040-S1

Reporting and Record Keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. At the end of each month, record the number of functionally spent cans that were popped in this booth over the previous month.
- B. At the end of each month, record the number of functionally spent cans that were popped in this booth over the previous twelve (12) months.
- C. At the end of each month, record the amount of waste that was collected from the spent aerosol cans in this booth over the previous month.
- D. At the end of each month, record the amount of waste that was collected from the spent aerosol cans in this booth over the previous twelve (12) months.

Authority for Requirement: Iowa DNR Construction Permit 05-A-040-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet from the ground): 10

Stack Diameter (inches): 12 x 12

Stack Exhaust Flow Rate (scfm): 1,270

Stack Temperature (°F): 70

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 05-A-040-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 967-P01-P

Associated Equipment

Associated Emission Unit ID Numbers: 967-P01-U
Emissions Control Equipment ID Number: none

Applicable Requirements

Emission Unit vented through this Emission Point: 967-P01-U
Emission Unit Description: De-gas Fuel Inerting System
Raw Material/Fuel: Nitrogen Gas, Empty Fuel Tanks
Rated Capacity: Approx. 5 Tanks/hr

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

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

No applicable emission limits requirements at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet from the ground): 26.5
Stack Diameter (inches): 0.75
Stack Exhaust Flow Rate (scfm): 10
Stack Temperature (°F): 70
Discharge Style: Downward
Authority for Requirement: Iowa DNR Construction Permit 05-A-038-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 978-C02-P

Associated Equipment

Associated Emission Unit ID Numbers: 978-C02-U

Emissions Control Equipment ID Number: none

Applicable Requirements

Emission Unit vented through this Emission Point: 978-C02-U

Emission Unit Description: Small Part E-Coat Tank Housing Exhaust Stack

Raw Material/Fuel: E-Coat Epoxy Resins and Solvent

Rated Capacity: 13.058 gallons/hr

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): N/A⁽¹⁾

⁽¹⁾ Potential emissions are limited to a maximum of 17.82 tons of VOC per 12-month rolling period by material usage and content limits (see process throughput below). This is a combined limit for EP 978-C02, EP 978-O04, and EP 978-O05

Authority for Requirement: Iowa DNR Construction Permit 96-A-100-S2

Operational Limits & Requirements

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

Process throughput:

- A. The maximum amount of epoxy coating material introduced into the Small Parts E-Coat Tank, EU 978-C02, shall not exceed 48,000 gallons per rolling twelve month period.
- B. The maximum amount of other materials introduced into the Small Parts E-Coat Tank, EU 978-C02, shall not exceed 1455 gallons per rolling twelve-month period.
- C. The maximum VOC content of the epoxy coating material introduced into the Small Parts E-Coat Tank, EU 978-C02, shall not exceed 0.50 pound per gallon.
- D. The maximum VOC content of any other material introduced into the Small Parts E-Coat Tank, EU 978-C02, shall not exceed 8.0 pounds per gallon.

Reporting & Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner. The permittee shall maintain the following monthly records:

- A. The permit holder, owner or operator of the facility shall record the identification and VOC content of any material introduced into the Small Parts E-Coat Tank, EU 978-C02.
- B. The permit holder, owner or operator of the facility shall calculate and record the monthly total and the 12-month rolling total amount of epoxy coating material introduced into the Small Parts E-Coat Tank, EU 978-C02, in gallons.
- C. The permit holder, owner or operator of the facility shall calculate and record the monthly total and the 12-month rolling total amount of other material introduced into the Small Parts E-Coat Tank, EU 978-C02, in gallons.
- D. The permit holder, owner or operator of the facility shall maintain manufacturer/vendor provided information (i.e., Material Safety Data sheets (MSDS), technical data sheets, etc.) of all materials used in the emission unit, which clearly indicates the VOC content of that material.

Authority for Requirement: Iowa DNR Construction Permit 96-A-100-S2

NESHAP:

This emission unit* is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 63, Subpart M, Surface Coating of Miscellaneous Metal Parts and Products. Please refer to Appendix C of this permit for more information.

Authority for Requirement: Iowa DNR Construction Permit 96-A-100-S2
567 IAC 23.1(4)"cm"

*If you are subject to any other final surface coating NESHAP, you have the option of complying with each NESHAP separately, complying with the emission limit that represents the predominant surface coating activity at your facility (not including assembled on-road vehicle and automotive lamp coating operations), or you may develop a facility-specific emission limit [63.4481(e) (40 CFR 63 Subpart P)].

Compliance with the individual NESHAPs at the emission unit level will be defined by the process the emission unit is performing at any given time. Refer to the individual NESHAP for alternative compliance methods allowed for under the rule.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet from the ground): 31

Stack Diameter (inches): 15

Stack Exhaust Flow Rate (scfm): 2,500

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 96-A-100-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

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, Urbandale, Iowa 50322, four or more copies of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. 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) 281-8694 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 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.
- 567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. Aggregate Insignificant Emissions. The permittee shall not construct, establish or operate any new insignificant activities or modify any existing insignificant activities in such a way that the emissions from these activities no longer meet the criteria of aggregate insignificant emissions. If the aggregate insignificant emissions are expected to be exceeded, the permittee shall submit the appropriate permit modification and receive approval prior to making any change. *567 IAC 22.103(2)*

6. 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 conducting any renovation or demolition activities at the facility. *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)"h"; 567 IAC 23.2(3)"h" - 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 June 25, 1993.
 - 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 June 25, 1993, 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

Compliance with the conditions of this permit shall be deemed compliance with the applicable requirements included in this permit as of the date of permit issuance.

This permit shield shall not alter or affect the following:

- 1. The provisions of section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- 2. 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;
- 3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act;
- 4. 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 an applicable requirement. 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
Urbandale, IA 50322
(515) 242-6001

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
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(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
Urbandale, IA 50322
(515) 242-5100

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 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6

1023 W. Madison St.
Washington, IA 52353-1623
(319) 653-2135

Polk County Public Health Dept.

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

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 JJ Tables

Tables are found at the links to the Electronic Code of Federal Regulations on page 108.

40 CFR 63.802 Emission Limits

- (a) Each permittee of an existing affected source subject to this subpart shall:
- (1) Limit VHAP emissions from finishing operations by meeting the emission limitations for existing sources presented in Table 3 of this subpart, using any of the compliance methods in 40 CFR 63.804(a). To determine VHAP emissions from a finishing material containing formaldehyde or styrene, the permittee of the affected source shall use the methods presented in 40 CFR 63.803(l)(2) for determining styrene and formaldehyde usage.
 - (2) Limit VHAP emissions from contact adhesives by achieving a VHAP limit for contact adhesives based on the following criteria:
 - (i) For foam adhesives (contact adhesives used for upholstery operations) used in products that meet the upholstered seating flammability requirements of California Technical Bulletin 116, 117, or 133, the Business and Institutional Furniture Manufacturers Association's (BIFMA's) X5.7, UFAC flammability testing, or any similar requirements from local, State, or Federal fire regulatory agencies, the VHAP content of the adhesive shall not exceed 1.8 kg VHAP/kg solids (1.8 lb VHAP/lb solids), as applied; or
 - (ii) For all other contact adhesives (including foam adhesives used in products that do not meet the standards presented in (a)(2)(i), but excluding aerosol adhesives and excluding contact adhesives applied to nonporous substrates, the VHAP content of the adhesive shall not exceed 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied.
 - (3) Limit HAP emissions from strippable spray booth coatings by using coatings that contain no more than 0.8 kg VOC/kg solids (0.8 lb VOC/lb solids), as applied.
- (b) Each permittee of a new affected source subject to this subpart shall:
- (1) Limit VHAP emissions from finishing operations by meeting the emission limitations for new sources presented in Table 3 of this subpart using any of the compliance methods in 40 CFR 63.804(d). To determine VHAP emissions from a finishing material containing formaldehyde or styrene, the permittee of the affected source shall use the methods presented in 40 CFR 63.803(l)(2) for determining styrene and formaldehyde usage.
 - (2) Limit VHAP emissions from contact adhesives by achieving a VHAP limit for contact adhesives, excluding aerosol adhesives and excluding contact adhesives applied to nonporous substrates, of no greater than 0.2 kg VHAP/kg solids (0.2 lb VHAP/lb solids), as applied, using either of the compliance methods in 40 CFR 63.804(e).
 - (3) Limit HAP emissions from strippable spray booth coatings by using coatings that contain no more than 0.8 kg VOC/kg solids (0.8 lb VOC/lb solids), as applied.

40 CFR 63.803 Work Practice Standards

- (a) Work practice implementation plan.
- (1) Each owner or operator of an affected source subject to this subpart shall prepare and maintain a written work practice implementation plan that defines environmentally desirable work practices for each wood furniture operation manufacturing operation and addresses each of the work practice standards presented in paragraphs (b) through (l) of this section. The plan shall be developed no more than 60 days after the compliance date.
 - (2) The written work practice implementation plan shall be available for inspection by the Administrator (or delegated State, local, or Tribal authority) upon request. If the Administrator (or delegated State, local, or Tribal authority) determines that the work practice implementation plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the Administrator (or delegated State, local, or Tribal authority) may require the affected source to modify the plan. Revisions or modifications to the plan do not require a revision of the source's Title V permit.
 - (3) The inspection and maintenance plan required by paragraph (c) of this section and the formulation assessment plan for finishing operations required by paragraph (l) of this section are also reviewable by the Administrator (or delegated State, local, or Tribal authority).

(b) Operator training course. Each permittee of an affected source shall train all new and existing personnel, including contract personnel, who are involved in finishing, gluing, cleaning, and washoff operations, use of manufacturing equipment, or implementation of the requirements of this subpart. All new personnel, those hired after the compliance date of the standard, shall be trained upon hiring. All existing personnel, those hired before the compliance date of the standard, shall be trained within six months of the compliance date of the standard. All personnel shall be given refresher training annually. The affected source shall maintain a copy of the training program with the work practice implementation plan. The training program shall include, at a minimum, the following:

- (1) A list of all current personnel by name and job description that are required to be trained;
- (2) An outline of the subjects to be covered in the initial and refresher training for each position or group of personnel;
- (3) Lesson plans for courses to be given at the initial and the annual refresher training that include, at a minimum, appropriate application techniques, appropriate cleaning and washoff procedures, appropriate equipment setup and adjustment to minimize finishing material usage and overspray, and appropriate management of cleanup wastes; and
- (4) A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion.

(c) Inspection and maintenance plan. Each permittee of an affected source shall prepare and maintain with the work practice implementation plan a written leak inspection and maintenance plan that specifies:

- (1) A minimum visual inspection frequency of once per month for all equipment used to transfer or apply coatings, adhesives, or organic HAP solvents;
- (2) An inspection schedule;
- (3) Methods for documenting the date and results of each inspection and any repairs that were made;
- (4) The timeframe between identifying the leak and making the repair, which adheres, at a minimum, to the following schedule:
 - (i) A first attempt at repair (e.g., tightening of packing glands) shall be made no later than five calendar days after the leak is detected; and
 - (ii) Final repairs shall be made within 15 calendar days after the leak is detected, unless the leaking equipment is to be replaced by a new purchase, in which case repairs shall be completed within three months.

(d) Cleaning and washoff solvent accounting system. Each permittee of an affected source shall develop an organic HAP solvent accounting form to record:

- (1) The quantity and type of organic HAP solvent used each month for washoff and cleaning, as defined in 40 CFR 63.801 of this subpart;
- (2) The number of pieces washed off, and the reason for the washoff; and
- (3) The quantity of spent organic HAP solvent generated from each washoff and cleaning operation each month, and whether it is recycled onsite or disposed offsite.

(e) Chemical composition of cleaning and washoff solvents. Each permittee of an affected source shall not use cleaning or washoff solvents that contain any of the pollutants listed in Table 4, in concentrations subject to MSDS reporting as required by OSHA.

(f) Spray booth cleaning. Each permittee of an affected source shall not use compounds containing more than 8.0 percent by weight of VOC for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, or metal filters, or plastic filters unless the spray booth is being refurbished. If the spray booth is being refurbished, that is the spray booth coating or other protective material used to cover the booth is being replaced, the affected source shall use no more than 1.0 gallon of organic HAP solvent per booth to prepare the surface of the booth prior to applying the booth coating.

(g) Storage requirements. Each permittee of an affected source shall use normally closed containers for storing finishing, gluing, cleaning, and washoff materials.

(h) Application equipment requirements. Each permittee of an affected source shall use conventional air spray guns to apply finishing materials only under any of the following circumstances:

- (1) To apply finishing materials that have a VOC content no greater than 1.0 lb VOC/lb solids, as applied;
- (2) For touchup and repair under the following conditions:
 - (i) The touchup and repair occurs after completion of the finishing operation; or
 - (ii) The touchup and repair occurs after the application of stain and before the application of any other type of finishing material, and the materials used for touchup and repair are applied from a container that has a volume of no more than 2.0 gallons.
- (3) When spray is automated, that is, the spray gun is aimed and triggered automatically, not manually;
- (4) When emissions from the finishing application station are directed to a control device;
- (5) The conventional air gun is used to apply finishing materials and the cumulative total usage of that finishing material is no more than 5.0 percent of the total gallons of finishing material used during that semiannual period; or
- (6) The conventional air gun is used to apply stain on a part for which it is technically or economically infeasible to use any other spray application technology. The affected source shall demonstrate technical or economic infeasibility by submitting to the Permitting authority a videotape, a technical report, or other documentation that supports the affected source's claim of technical or economic infeasibility. The following criteria shall be used, either independently or in combination, to support the affected source's claim of technical or economic infeasibility:
 - (i) The production speed is too high or the part shape is too complex for one operator to coat the part and the application station is not large enough to accommodate an additional operator; or
 - (ii) The excessively large vertical spray area of the part makes it difficult to avoid sagging or runs in the stain.

(i) Line cleaning. Each owner or operator of an affected source shall pump or drain all organic HAP solvent used for line cleaning into a normally closed container.

(j) Gun cleaning. Each owner or operator of an affected source shall collect all organic HAP solvent used to clean spray guns into a normally closed container.

(k) Washoff operations. Each owner or operator of an affected source shall control emissions from washoff operations by:

- (1) Using normally closed tanks for washoff; and
- (2) Minimizing dripping by tilting or rotating the part to drain as much solvent as possible.

(l) Formulation assessment plan for finishing operations. Each permittee of an affected source shall prepare and maintain with the work practice implementation plan a formulation assessment plan that:

- (1) Identifies VHAP from the list presented in Table 5 of this subpart that are being used in finishing operations by the affected source;
- (2) Establishes a baseline level of usage by the affected source, for each VHAP identified in (l)(1). The baseline usage level shall be the highest annual usage from 1994, 1995, or 1996, for each VHAP identified in (l)(1). For formaldehyde, the baseline level of usage shall be based on the amount of free formaldehyde present in the finishing material when it is applied. For styrene, the baseline level of usage shall be an estimate of unreacted styrene, which shall be calculated by multiplying the amount of styrene monomer in the finishing material, when it is applied, by a factor of 0.16. Sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system, which is determined using the equation in 40 CFR63.805(d) or (e).
- (3) Tracks the annual usage of each VHAP identified in (l)(1) by the affected source that is present in amounts subject to MSDS reporting as required by OSHA.
- (4) If, after November 1998, the annual usage of the VHAP identified in (l)(1) exceeds its baseline level, then the permittee of the affected source shall provide a written notification to the permitting authority that describes the amount of the increase and explains the reasons for exceedance of the baseline level. The following explanations would relieve the permittee from further action, unless the affected source is not in compliance with any State regulations or requirements for that VHAP:
 - (i) The exceedance is no more than 15.0 percent above the baseline level;
 - (ii) Usage of the VHAP is below the de minimis level presented in Table 5 of this subpart for that VHAP (sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system, which is determined using the procedures in 40 CFR63.805(d) or (e);

- (iii) The affected source is in compliance with its State's air toxic regulations or guidelines for the VHAP; or
 - (iv) The source of the pollutant is a finishing material with a VOC content of no more than 1.0 kg VOC/kg solids (1.0 lb VOC/lb solids), as applied.
- (5) If none of the above explanations are the reason for the increase, the permittee shall confer with the permitting authority to discuss the reason for the increase and whether there are practical and reasonable technology-based solutions for reducing the usage. The evaluation of whether a technology is reasonable and practical shall be based on cost, quality, and marketability of the product, whether the technology is being used successfully by other wood furniture manufacturing operations, or other criteria mutually agreed upon by the permitting authority and permittee. If there are no practical and reasonable solutions, the facility need take no further action. If there are solutions, the permittee shall develop a plan to reduce usage of the pollutant to the extent feasible. The plan shall address the approach to be used to reduce emissions, a timetable for implementing the plan, and a schedule for submitting notification of progress.
- (6) If, after November 1998, an affected source uses a VHAP of potential concern listed in Table 6 of this subpart for which a baseline level has not been previously established, then the baseline level shall be established as the de minimis level provided in that same table for that chemical. The affected source shall track the annual usage of each VHAP of potential concern identified in this paragraph that is present in amounts subject to MSDS reporting as required by OSHA. If usage of the VHAP of potential concern exceeds the de minimis level listed in table 6 of this subpart for that chemical, then the affected source shall provide an explanation to the permitting authority that documents the reason for exceedance of the de minimis level. If the explanation is not one of those listed in paragraphs (l)(4)(i) through (l)(4)(iv) of this section, the affected source shall follow the procedures established in (l)(5) of this section.

40 CFR 63.804 Compliance procedures and monitoring requirements

(a) The permittee of an existing affected source subject to 40 CFR63.802(a)(1) shall comply with those provisions using any of the methods presented in 40 CFR63.804(a)(1)-(a)(4).

- (1) Calculate the average VHAP content for all finishing materials used at the facility using Equation 1, and maintain a value of E no greater than 1.0;

$$E = \frac{(M_{c1}C_{c1} + M_{c2}C_{c2} + \dots + M_{cn}C_{cn} + S_1W_1 + S_2W_2 + \dots + S_nW_n)}{(M_{c1} + M_{c2} + \dots + M_{cn})} \quad \text{Equation 1}$$

- (2) Use compliant finishing materials according to the following criteria:
- (i) Demonstrate that each stain, sealer, and topcoat has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight by maintaining certified product data sheets for each coating and thinner;
 - (ii) Demonstrate that each washcoat, basecoat, and enamel that is purchased pre-made, that is, it is not formulated onsite by thinning another finishing material, has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight by maintaining certified product data sheets for each coating and thinner; and
 - (iii) Demonstrate that each washcoat, basecoat, and enamel that is formulated at the affected source is formulated using a finishing material containing no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids) and a thinner containing no more than 3.0 percent VHAP by weight.
- (3) Use a control system with an overall control efficiency (R) such that the value of E_{ac} in Equation 2 is no greater than 1.0.

$$R = \frac{[E_{bc} - E_{ac}]}{E_{bc}}(100) \quad \text{Equation 2}$$

The value of E_{bc} in Equation 2 shall be calculated using Equation 1; or

- (4) Use any combination of an averaging approach, as described in (a)(1), compliant finishing materials, as described in (a)(2), and a control system, as described in (a)(3).

(b) The permittee of an affected source subject to 40 CFR63.802(a)(2)(i) shall comply with the provisions by using compliant foam adhesives with a VHAP content no greater than 1.8 kg VHAP/kg solids (1.8 lb VHAP/lb solids), as applied.

(c) The permittee of an affected source subject to 40 CFR63.802(a)(2)(ii) shall comply with those provisions by using either of the methods presented in 40 CFR63.804(c)(1) and (c)(2).

- (1) Use compliant contact adhesives with a VHAP content no greater than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied; or
- (2) Use a control system with an overall control efficiency (R) such that the value of G_{ac} is no greater than 1.0.

$$R = [(G_{bc} - G_{ac})/G_{bc}] (100) \quad \text{Equation 3}$$

(d) The permittee of a new affected source subject to 40 CFR63.802(b)(1) may comply with those provisions by using any of the following methods:

- (1) Calculate the average VHAP content across all finishing materials used at the facility using Equation 1, and maintain a value of E no greater than 0.8;
- (2) Use compliant finishing materials according to the following criteria:
 - (i) Demonstrate that each sealer and topcoat has a VHAP content of no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids), as applied, each stain has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight;
 - (ii) Demonstrate that each washcoat, basecoat, and enamel that is purchased pre-made, that is, it is not formulated onsite by thinning another finishing material, has a VHAP content of no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0 percent VHAP by weight; and
 - (iii) Demonstrate that each washcoat, basecoat, and enamel that is formulated onsite is formulated using a finishing material containing no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids) and a thinner containing no more than 3.0 percent HAP by weight.
- (3) Use a control system with an overall control efficiency (R) such that the value of E_{ac} in Equation 4 is no greater than 0.8.

$$R = [(E_{bc} - E_{ac})/E_{bc}](100) \quad \text{Equation 4}$$

The value of E_{bc} in Equation 4 shall be calculated using Equation 1; or

- (4) Use any combination of an averaging approach, as described in (d)(1), compliant finishing materials, as described in (d)(2), and a control system, as described in (d)(3).

(e) The permittee of a new affected source subject to 40 CFR63.802(b)(2) shall comply with the provisions using either of the following methods:

- (1) Use compliant contact adhesives with a VHAP content no greater than 0.2 kg VHAP/kg solids (0.2 lb VHAP/lb solids), as applied; or
- (2) Use a control system with an overall control efficiency (R) such that the value of G_{ac} in Equation 3 is no greater than 0.2.

(f) Initial compliance.

- (1) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(1) or (b)(1) that comply through the procedures established in 40 CFR 63.804(a)(1) or (d)(1) shall submit the results of the averaging calculation (Equation 1) for the first month with the initial compliance status report required by 40 CFR63.807(b). The first month's calculation shall include data for the entire month in which the compliance date falls. For example, if the source's compliance date is November 21, 1997, the averaging calculation shall include data from November 1, 1997 to November 30, 1997.
- (2) Owners or operators of an affected source subject to the provisions of 40 CFR 63.802(a)(1) or (b)(1) that comply through the procedures established in 40 CFR 63.804(a)(2) or (d)(2) shall submit an initial compliance status report, as required by 40 CFR 63.807(b), stating that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as applicable, are being used by the affected source.

- (3) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(1) or (b)(1) that are complying through the procedures established in 40 CFR63.804(a)(2) or (d)(2) and are applying coatings using continuous coaters shall demonstrate initial compliance by:
- (i) Submitting an initial compliance status report, as required by 40 CFR63.807(b), stating that compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, and compliant thinners are being used; or
 - (ii) Submitting an initial compliance status report, as required by 40 CFR63.807(b), stating that compliant coatings, as determined by the VHAP content of the coating in the reservoir, are being used; the viscosity of the coating in the reservoir is being monitored; and compliant thinners are being used. The affected source shall also submit data that demonstrate that viscosity is an appropriate parameter for demonstrating compliance.
- (4) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(1) or (b)(1) that comply through the procedures established in 40 CFR63.804(a)(3) or (d)(3) shall demonstrate initial compliance by:
- (i) Submitting a monitoring plan that identifies each operating parameter to be monitored for the capture device and discusses why each parameter is appropriate for demonstrating continuous compliance;
 - (ii) Conducting an initial performance test as required under 40 CFR63.7 using the procedures and test methods listed in 40 CFR63.7 and 40 CFR63.805(c) and (d) or (e);
 - (iii) Calculating the overall control efficiency (R) following the procedures in 40 CFR63.805(d) or (e); and
 - (iv) Determining those operating conditions critical to determining compliance and establishing one or more operating parameters that will ensure compliance with the standard.
 - (A) For compliance with a thermal incinerator, minimum combustion temperature shall be the operating parameter.
 - (B) For compliance with a catalytic incinerator equipped with a fixed catalyst bed, the minimum gas temperature both upstream and downstream of the catalyst bed shall be the operating parameter.
 - (C) For compliance with a catalytic incinerator equipped with a fluidized catalyst bed, the minimum gas temperature upstream of the catalyst bed and the pressure drop across the catalyst bed shall be the operating parameters.
 - (D) For compliance with a carbon adsorber, the operating parameters shall be the total regeneration mass stream flow for each regeneration cycle and the carbon bed temperature after each regeneration, or the concentration level of organic compounds exiting the adsorber, unless the permittee requests and receives approval from the Permitting authority to establish other operating parameters.
 - (E) For compliance with a control device not listed in this section, one or more operating parameter values shall be established using the procedures identified in 40 CFR63.804(g)(4)(vi).
 - (v) Owners or operators complying with 40 CFR63.804(f)(4) shall calculate each site-specific operating parameter value as the arithmetic average of the maximum or minimum operating parameter values, as appropriate, that demonstrate compliance with the standards, during the three test runs required by 40 CFR63.805(c)(1).
- (5) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(2) or (b)(2) that comply through the procedures established in 40 CFR63.804(b), (c)(1), or (e)(1), shall submit an initial compliance status report, as required by 40 CFR63.807(b), stating that compliant contact adhesives are being used by the affected source.
- (6) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(2)(ii) or (b)(2) that comply through the procedures established in 40 CFR63.804(c)(2) or (e)(2), shall demonstrate initial compliance by:
- (i) Submitting a monitoring plan that identifies each operating parameter to be monitored for the capture device and discusses why each parameter is appropriate for demonstrating continuous compliance;
 - (ii) Conducting an initial performance test as required under 40 CFR63.7 using the procedures and test methods listed in 40 CFR63.7 and 40 CFR63.805(c) and (d) or (e);
 - (iii) Calculating the overall control efficiency (R) following the procedures in 40 CFR63.805(d) or (e); and
 - (iv) Determining those operating conditions critical to determining compliance and establishing one or more operating parameters that will ensure compliance with the standard.
 - (A) For compliance with a thermal incinerator, minimum combustion temperature shall be the operating parameter.

- (B) For compliance with a catalytic incinerator equipped with a fixed catalyst bed, the minimum gas temperature both upstream and downstream of the catalyst shall be the operating parameter.
 - (C) For compliance with a catalytic incinerator equipped with a fluidized catalyst bed, the minimum gas temperature upstream of the catalyst bed and the pressure drop across the catalyst bed shall be the operating parameters.
 - (v) Owners or operators complying with 40 CFR63.804(f)(6) shall calculate each site-specific operating parameter value as the arithmetic average of the maximum or minimum operating values as appropriate, that demonstrate compliance with the standards, during the three test runs required by 40 CFR63.805(c)(1).
 - (7) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(3) or (b)(3) shall submit an initial compliance status report, as required by 40 CFR63.807(b), stating that compliant strippable spray booth coatings are being used by the affected source.
 - (8) Owners or operators of an affected source subject to the work practice standards in 40 CFR63.803 shall submit an initial compliance status report, as required by 40 CFR63.807(b), stating that the work practice implementation plan has been developed and procedures have been established for implementing the provisions of the plan.
- (g) Continuous compliance demonstrations.
- (1) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(1) or (b)(1) that comply through the procedures established in 40 CFR63.804(a)(1) or (d)(1) shall demonstrate continuous compliance by submitting the results of the averaging calculation (Equation 1) for each month within that semiannual period and submitting a compliance certification with the semiannual report required by 40 CFR63.807(c).
 - (i) The compliance certification shall state that the value of (E), as calculated by Equation 1, is no greater than 1.0 for existing sources or 0.8 for new sources. An affected source is in violation of the standard if E is greater than 1.0 for existing sources or 0.8 for new sources for any month. A violation of the monthly average is a separate violation of the standard for each day of operation during the month, unless the affected source can demonstrate through records that the violation of the monthly average can be attributed to a particular day or days during the period.
 - (ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.
 - (2) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(1) or (b)(1) that comply through the procedures established in 40 CFR63.804(a)(2) or (d)(2) shall demonstrate continuous compliance by using compliant coatings and thinners, maintaining records that demonstrate the coatings and thinners are compliant, and submitting a compliance certification with the semiannual report required by 40 CFR63.807(c).
 - (i) The compliance certification shall state that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a noncompliant coating, as demonstrated by records or by a sample of the coating, is used.
 - (ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.
 - (3) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(1) or (b)(1) that are complying through the procedures established in 40 CFR63.804(a)(2) or (d)(2) and are applying coatings using continuous coaters shall demonstrate continuous compliance by following the procedures in (i) or (ii) of this paragraph.
 - (i) Using compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, using compliant thinners, and submitting a compliance certification with the semiannual report required by 40 CFR63.807(c).
 - (A) The compliance certification shall state that compliant coatings have been used each day in the semiannual reporting period, or should otherwise identify the days of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a noncompliant coating, as determined by records or by a sample of the coating, is used. Use of a noncompliant coating is a separate violation for each day the noncompliant coating is used.
 - (B) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

- (ii) Using compliant coatings, as determined by the VHAP content of the coating in the reservoir, using compliant thinners, maintaining a viscosity of the coating in the reservoir that is no less than the viscosity of the initial coating by monitoring the viscosity with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added, maintaining records of solvent additions, and submitting a compliance certification with the semiannual report required by 40 CFR63.807(c).
- (A) The compliance certification shall state that compliant coatings, as determined by the VHAP content of the coating in the reservoir, have been used each day in the semiannual reporting period. Additionally, the certification shall state that the viscosity of the coating in the reservoir has not been less than the viscosity of the initial coating, that is, the coating that is initially mixed and placed in the reservoir, for any day in the semiannual reporting period.
 - (B) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.
 - (C) An affected source is in violation of the standard when a sample of the as-applied coating exceeds the applicable limit established in 40 CFR63.804(a)(2) or (d)(2), as determined using EPA Method 311, or the viscosity of the coating in the reservoir is less than the viscosity of the initial coating.
- (4) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(1) or (b)(1) that comply through the procedures established in 40 CFR63.804(a)(3) or (d)(3) shall demonstrate continuous compliance by installing, calibrating, maintaining, and operating the appropriate monitoring equipment according to manufacturer's specifications. The permittee shall also submit the excess emissions and continuous monitoring system performance report and summary report required by 40 CFR63.807(d) and 40 CFR63.10(e) of subpart A.
- (i) Where a capture/control device is used, a device to monitor each site-specific operating parameter established in accordance with 40 CFR63.804(f)(6)(i) is required.
 - (ii) Where an incinerator is used, a temperature monitoring device equipped with a continuous recorder is required.
 - (A) Where a thermal incinerator is used, a temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.
 - (B) Where a catalytic incinerator equipped with a fixed catalyst bed is used, temperature monitoring devices shall be installed in the gas stream immediately before and after the catalyst bed.
 - (C) Where a catalytic incinerator equipped with a fluidized catalyst bed is used, a temperature monitoring device shall be installed in the gas stream immediately before the bed. In addition, a pressure monitoring device shall be installed to determine the pressure drop across the catalyst bed. The pressure drop shall be measured monthly at a constant flow rate.
 - (iii) Where a carbon adsorber is used one of the following is required:
 - (A) An integrating stream flow monitoring device having an accuracy of ± 10 percent, capable of recording the total regeneration stream mass flow for each regeneration cycle; and a carbon bed temperature monitoring device, having an accuracy of ± 1 percent of the temperature being monitored or ± 0.50 C, whichever is greater, and capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle;
 - (B) An organic monitoring device, equipped with a continuous recorder, to indicate the concentration level of organic compounds exiting the carbon adsorber; or
 - (C) Any other monitoring device that has been approved by the Permitting authority in accordance with 40 CFR63.804(f)(4) (iv)(D).
 - (iv) Owners or operators of an affected source shall not operate the capture or control device at a daily average value greater than or less than (as appropriate) the operating parameter values. The daily average value shall be calculated as the average of all values for a monitored parameter recorded during the operating day.
 - (v) Owners or operators of an affected source that are complying through the use of a catalytic incinerator equipped with a fluidized catalyst bed shall maintain a constant pressure drop, measured monthly, across the catalyst bed.
 - (vi) A permittee who uses a control device not listed in 40 CFR63.804(f)(4) shall submit, for the Permitting authority's approval, a description of the device, test data verifying performance, and

appropriate site-specific operating parameters that will be monitored to demonstrate continuous compliance with the standard.

- (5) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(2)(i) or (ii) or (b)(2) that comply through the procedures established in 40 CFR63.804(b), (c)(1), or (e)(1), shall submit a compliance certification with the semiannual report required by 40 CFR63.807(c).
 - (i) The compliance certification shall state that compliant contact and/or foam adhesives have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant contact and/or foam adhesives were used. Each day a noncompliant contact or foam adhesive is used is a single violation of the standard.
 - (ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.
- (6) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(2)(ii) or (b)(2) that comply through the procedures established in 40 CFR63.804(c)(2) or (e)(2), shall demonstrate continuous compliance by installing, calibrating, maintaining, and operating the appropriate monitoring equipment according to the manufacturer's specifications. The permittee shall also submit the excess emissions and continuous monitoring system performance report and summary report required by 40 CFR63.807(d) and 40 CFR63.10(e) of subpart A of this part.
 - (i) Where a capture/control device is used, a device to monitor each site-specific operating parameter established in accordance with 40 CFR63.804(f)(6)(i) is required.
 - (ii) Where an incinerator is used, a temperature monitoring device equipped with a continuous recorder is required.
 - (A) Where a thermal incinerator is used, a temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.
 - (B) Where a catalytic incinerator equipped with a fixed catalyst bed is used, temperature monitoring devices shall be installed in the gas stream immediately before and after the catalyst bed.
 - (C) Where a catalytic incinerator equipped with a fluidized catalyst bed is used, a temperature monitoring device shall be installed in the gas stream immediately before the bed. In addition, a pressure monitoring device shall be installed to measure the pressure drop across the catalyst bed. The pressure drop shall be measured monthly at a constant flow rate.
 - (iii) Where a carbon adsorber is used one of the following is required:
 - (A) An integrating stream flow monitoring device having an accuracy of ± 10 percent, capable of recording the total regeneration stream mass flow for each regeneration cycle; and a carbon bed temperature monitoring device, having an accuracy of ± 1 percent of the temperature being monitored or ± 0.50 C, whichever is greater, and capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle;
 - (B) An organic monitoring device, equipped with a continuous recorder, to indicate the concentration level of organic compounds exiting the carbon adsorber; or
 - (C) Any other monitoring device that has been approved by the Permitting authority in accordance with 40 CFR63.804(f)(4) (iv)(D).
 - (iv) Owners or operators of an affected source shall not operate the capture or control device at a daily average value greater than or less than (as appropriate) the operating parameter values. The daily average value shall be calculated as the average of all values for a monitored parameter recorded during the operating day.
 - (v) Owners or operators of an affected source that are complying through the use of a catalytic incinerator equipped with a fluidized catalyst bed shall maintain a constant pressure drop, measured monthly, across the catalyst bed.
 - (vi) A permittee using a control device not listed in this section shall submit to the Permitting authority a description of the device, test data verifying the performance of the device, and appropriate operating parameter values that will be monitored to demonstrate continuous compliance with the standard. Compliance using this device is subject to the Permitting authority's approval.
- (7) Owners or operators of an affected source subject to the provisions of 40 CFR63.802(a)(3) or (b)(3) shall submit a compliance certification with the semiannual report required by 40 CFR63.807(c).
 - (i) The compliance certification shall state that compliant strippable spray booth coatings have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant materials were used. Each day a noncompliant strippable booth coating is used is a single violation of the standard.

- (ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.
- (8) Owners or operators of an affected source subject to the work practice standards in 40 CFR63.803 shall submit a compliance certification with the semiannual report required by 40 CFR63.807(c).
 - (i) The compliance certification shall state that the work practice implementation plan is being followed, or should otherwise identify the provisions of the plan that have not been implemented and each day the provisions were not implemented. During any period of time that an permittee is required to implement the provisions of the plan, each failure to implement an obligation under the plan during any particular day is a violation.
 - (ii) The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

40 CFR 63.805 Performance Test Methods

(a) The EPA Method 311 of Appendix A of part 63 shall be used in conjunction with formulation data to determine the VHAP content of the liquid coating. Formulation data shall be used to identify VHAP present in the coating. The EPA Method 311 shall then be used to quantify those VHAP identified through formulation data. The EPA Method 311 shall not be used to quantify HAP such as styrene and formaldehyde that are emitted during the cure. The EPA Method 24 (40 CFR part 60, Appendix A) shall be used to determine the solids content by weight and the density of coatings. If it is demonstrated to the satisfaction of the Permitting authority that a coating does not release VOC or HAP byproducts during the cure, for example, all VOC and HAP present in the coating is solvent, then batch formulation information shall be accepted. The permittee of an affected source may request approval from the Permitting authority to use an alternative method for determining the VHAP content of the coating. In the event of any inconsistency between the EPA Method 24 or Method 311 test data and a facility's formulation data, that is, if the EPA Method 24/311 value is higher, the EPA Method 24/311 test shall govern unless after consultation, a regulated source could demonstrate to the satisfaction of the enforcement agency that the formulation data were correct. Sampling procedures shall follow the guidelines presented in "Standard Procedures for Collection of Coating and Ink Samples for VOC Content Analysis by Reference Method 24 and Reference Method 24A," EPA-340/1-91-010. (Docket No. A-93-10, Item No. IV-A-1).

40 CFR 63.806 Recordkeeping Requirements

- (a) The permittee of an affected source subject to this subpart shall fulfill all recordkeeping requirements of 40 CFR 63.10 of subpart A, according to the applicability criteria in 40 CFR 63.800(d) of this subpart.
- (b) The permittee of an affected source subject to the emission limits in 40 CFR63.802 of this subpart shall maintain records of the following:
 - (1) A certified product data sheet for each finishing material, thinner, contact adhesive, and strippable spray booth coating subject to the emission limits in 40 CFR63.802; and
 - (2) The VHAP content, in kg VHAP/kg solids (lb VHAP/lb solids), as applied, of each finishing material and contact adhesive subject to the emission limits in 40 CFR63.802; and
 - (3) The VOC content, in kg VOC/kg solids (lb VOC/lb solids), as applied, of each strippable booth coating subject to the emission limits in 40 CFR63.802(a)(3) or (b)(3).
- (c) The permittee of an affected source following the compliance method in 40 CFR63.804(a)(1) or (d)(1) shall maintain copies of the averaging calculation for each month following the compliance date, as well as the data on the quantity of coatings and thinners used that is necessary to support the calculation of E in Equation 1.
- (e) The permittee of an affected source subject to the work practice standards in 40 CFR 63.803 of this subpart shall maintain onsite the work practice implementation plan and all records associated with fulfilling the requirements of that plan, including, but not limited to:
 - (1) Records demonstrating that the operator training program required by 40 CFR63.803(b) is in place;
 - (2) Records collected in accordance with the inspection and maintenance plan required by 40 CFR63.803(c);
 - (3) Records associated with the cleaning solvent accounting system required by 40 CFR63.803(d);
 - (4) Records associated with the limitation on the use of conventional air spray guns showing total finishing material usage and the percentage of finishing materials applied with conventional air spray guns for each semiannual period as required by 40 CFR63.803(h)(5).
 - (5) Records associated with the formulation assessment plan required by 40 CFR63.803(l); and

(6) Copies of documentation such as logs developed to demonstrate that the other provisions of the work practice implementation plan are followed.

(h) The permittee of an affected source subject to the emission limits in 40 CFR63.802 and following the compliance provisions of 40 CFR63.804(f)(1), (2), (3), (5), (7) and (8) and 40 CFR63.804(g)(1), (2), (3), (5), (7), and (8) shall maintain records of the compliance certifications submitted in accordance with 40 CFR63.807(c) for each semiannual period following the compliance date.

(i) The permittee of an affected source shall maintain records of all other information submitted with the compliance status report required by 40 CFR63.9(h) and 40 CFR63.807(b) and the semiannual reports required by 40 CFR63.807(c).

(j) The permittee of an affected source shall maintain all records in accordance with the requirements of 40 CFR63.10(b)(1).

40 CFR 63.807 Reporting Requirements

(a) The permittee of an affected source subject to this subpart shall fulfill all reporting requirements of 40 CFR63.7 through 40 CFR 63.10 of subpart A (General Provisions) according to the applicability criteria in 40 CFR 63.800(d) of this subpart.

(c) The permittee of an affected source demonstrating compliance in accordance with 40 CFR 63.804(g)(1), (2), (3), (5), (7), and (8) shall submit a report covering the previous 6 months of wood furniture manufacturing operations:

- (1) The first report shall be submitted 30 calendar days after the end of the first 6-month period following the compliance date.
- (2) Subsequent reports shall be submitted 30 calendar days after the end of each 6-month period following the first report.
- (3) The semiannual reports shall include the information required by 40 CFR 63.804(g)(1), (2), (3), (5), (7), and (8), a statement of whether the affected source was in compliance or noncompliance, and, if the affected source was in noncompliance, the measures taken to bring the affected source into compliance.
- (4) The frequency of the reports required by paragraph (c) of this section shall not be reduced from semiannually regardless of the history of the owner's or operator's compliance status.

(e) The permittee of an affected source required to provide a written notification under 40 CFR63.803(1)(4) shall include in the notification one or more statements that explains the reasons for the usage increase. The notification shall be submitted no later than 30 calendar days after the end of the annual period in which the usage increase occurred.

40 CFR 63.4, Prohibited Activities and Circumvention:

(a) *Prohibited Activities.*

- (1) The permittee shall not operate any affected source in violation of the requirements of this part except under:
 - (i) An extension of compliance granted by the Administrator under this part; or
 - (ii) An extension of compliance granted under this part by a State with an approved permit program; or
 - (iii) An exemption from compliance is granted by the President under section 112(i)(4) of the Clean Air Act.
- (2) The permittee shall not fail to keep records, notify, report, or revise reports as required under this part.

(b) *Circumvention.* The permittee shall not build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to:

- (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere.
- (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions.
- (3) The fragmentation of an operation such that the operation avoids regulation by a relevant standard.

- (c) *Severability*. Notwithstanding any requirement incorporated into a Title V permit obtained by an owner or operator subject to the provisions of this part, the provisions of this part are federally enforceable.

40 CFR 63.6, Compliance with standards and maintenance requirements

(e) *Operation and maintenance requirements*.

- (1)(i) At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards.
- (2)(i) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan, review of operation and maintenance records, and inspection of the source).

Authority for Requirement: 40 CFR 63 Subpart JJ and Subpart A (General Provisions)
567 IAC 23.1(4)"aj"

Table 2 to Subpart JJ of Part 63—List of Volatile Hazardous Air Pollutants

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=3317cf990b17bdc81e91793ea6a1b86e&rgn=div9&view=text&node=40:10.0.1.1.1.10.18.11.19&idno=40>

Table 3 to Subpart JJ of Part 63—Summary of Emission Limits

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=3317cf990b17bdc81e91793ea6a1b86e&rgn=div9&view=text&node=40:10.0.1.1.1.10.18.11.20&idno=40>

Table 4 to Subpart JJ of Part 63—Pollutants Excluded From Use in Cleaning and Washoff Solvents

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=3317cf990b17bdc81e91793ea6a1b86e&rgn=div9&view=text&node=40:10.0.1.1.1.10.18.11.21&idno=40>

Table 5 to Subpart JJ of Part 63—List of VHAP of Potential Concern Identified by Industry

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=3317cf990b17bdc81e91793ea6a1b86e&rgn=div9&view=text&node=40:10.0.1.1.1.10.18.11.22&idno=40>

Table 6 to Subpart JJ of Part 63—VHAP of Potential Concern

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=3317cf990b17bdc81e91793ea6a1b86e&rgn=div9&view=text&node=40:10.0.1.1.1.10.18.11.23&idno=40>

VI. Appendix B: 40 CFR 63 Subpart WWWW Tables

Tables are found in the following links to the Electronic Code of Federal Regulations

Table 1 to Subpart WWWW of Part 63—Equations To Calculate Organic HAP Emissions Factors for Specific Open Molding and Centrifugal Casting Process Streams

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.167&idno=40>

Table 2 to Subpart WWWW of Part 63—Compliance Dates for New and Existing Reinforced Plastic Composites Facilities

As required in §§63.5800 and 63.5840 you must demonstrate compliance with the standards by the dates in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.168&idno=40>

Table 3 to Subpart WWWW of Part 63—Organic HAP Emissions Limits for Existing Open Molding Sources, New Open Molding Sources Emitting Less Than 100 TPY of HAP, and New and Existing Centrifugal Casting and Continuous Lamination/Casting Sources that Emit Less Than 100 TPY of HAP

As specified in §63.5805, you must meet the following organic HAP emissions limits that apply to you:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.169&idno=40>

Table 4 to Subpart WWWW of Part 63—Work Practice Standards

As specified in §63.5805, you must meet the work practice standards in the following table that apply to you:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.170&idno=40>

Alternative Organic HAP Emissions Limits for Open Molding, Centrifugal Casting, and SMC Manufacturing Operations Where the Standards are Based on a 95 Percent Reduction Requirement

As specified in §63.5805, as an alternative to the 95 percent organic HAP emissions reductions requirement, you may meet the appropriate organic HAP emissions limits in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.171&idno=40>

Table 6 to Subpart WWWW of Part 63—Basic Requirements for Performance Tests, Performance Evaluations, and Design Evaluations for New and Existing Sources Using Add-On Control Devices

As required in §63.5850 you must conduct performance tests, performance evaluations, and design evaluation according to the requirements in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.172&idno=40>

Table 7 to Subpart WWWW of Part 63—Options Allowing Use of the Same Resin Across Different Operations That Use the Same Resin Type

As specified in §63.5810(d), when electing to use the same resin(s) for multiple resin application methods, you may use any resin(s) with an organic HAP content less than or equal to the values shown in the following table, or any combination of resins whose weighted average organic HAP content based on a 12-month rolling average is less than or equal to the values shown the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.173&idno=40>

Table 8 to Subpart WWWW of Part 63—Initial Compliance With Organic HAP Emissions Limits

As specified in §63.5860(a), you must demonstrate initial compliance with organic HAP emissions limits as specified in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.174&idno=40>

Table 9 to Subpart WWWW of Part 63—Initial Compliance With Work Practice Standards

As specified in §63.5860(a), you must demonstrate initial compliance with work practice standards as specified in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.175&idno=40>

Table 10 to Subpart WWWW of Part 63—Data Requirements for New and Existing Continuous Lamination Lines and Continuous Casting Lines Complying with a Percent Reduction Limit on a Per Line Basis

As required in §63.5865(a), in order to comply with a percent reduction limit for continuous lamination lines and continuous casting lines you must determine the data in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.176&idno=40>

Table 11 to Subpart WWWW of Part 63—Data Requirements for New and Existing Continuous Lamination and Continuous Casting Lines Complying with a Percent Reduction Limit or a Lbs/Ton Limit on an Averaging Basis

As required in §63.5865, in order to comply with a percent reduction limit or a lbs/ton limit on an averaging basis for continuous lamination lines and continuous casting lines you must determine the data in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.177&idno=40>

Table 12 to Subpart WWWW of Part 63—Data Requirements for New and Existing Continuous Lamination Lines and Continuous Casting Lines Complying with a Lbs/Ton Organic HAP Emissions Limit on a Per Line Basis

As required in §63.5865(b), in order to comply with a lbs/ton organic HAP emissions limit for continuous lamination lines and continuous casting lines you must determine the data in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.178&idno=40>

Table 13 to Subpart WWWW of Part 63—Applicability and Timing of Notifications

As required in §63.5905(a), you must determine the applicable notifications and submit them by the dates shown in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.179&idno=40>

Table 14 to Subpart WWWW of Part 63—Requirements for Reports

As required in §63.5910(a), (b), (g), and (h), you must submit reports on the schedule shown in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.180&idno=40>

Table 15 to Subpart WWWW of Part 63—Applicability of General Provisions (Subpart A) to Subpart WWWW of Part 63

As specified in §63.5925, the parts of the General Provisions which apply to you are shown in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=27fecac74c4f06c723289f4ebb653408&rgn=div9&view=text&node=40:12.0.1.1.1.29.380.36.181&idno=40>

VII. Appendix C: 40 CFR 63 Subpart M Tables

Tables are found in the following links to the Electronic Code of Federal Regulations

Table 1 to Subpart M of Part 63— Operating Limits if Using the Emission Rate With Add-On Controls Option

If you are required to comply with operating limits by §63.3892(c), you must comply with the applicable operating limits in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=825f401936f55cd5c9b901ed5ffc458&rgn=div9&view=text&node=40:12.0.1.1.1.19.300.32.115&idno=40>

Table 2 to Subpart M of Part 63— Applicability of General Provisions to Subpart M of Part 63

You must comply with the applicable General Provisions requirements according to the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=825f401936f55cd5c9b901ed5ffc458&rgn=div9&view=text&node=40:12.0.1.1.1.19.300.32.116&idno=40>

Table 3 to Subpart M of Part 63— Default Organic HAP Mass Fraction for Solvents and Solvent Blends

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data and which match either the solvent blend name or the chemical abstract series (CAS) number. If a solvent blend matches both the name and

CAS number for an entry, that entry's organic HAP mass fraction must be used for that solvent blend. Otherwise, use the organic HAP mass fraction for the entry matching either the solvent blend name or CAS number, or use the organic HAP mass fraction from table 4 to this subpart if neither the name or CAS number match.

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=825f401936f55cd5c9b901ed5ffc458&rgn=div9&view=text&node=40:12.0.1.1.1.19.300.32.117&idno=40>

Table 4 to Subpart M of Part 63— Default Organic HAP Mass Fraction for Petroleum Solvent Groups^a

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data.

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=825f401936f55cd5c9b901ed5ffc458&rgn=div9&view=text&node=40:12.0.1.1.1.19.300.32.118&idno=40>

VIII. Appendix D: 40 CFR 63 Subpart PPPP Tables

Tables are found in the following links to the Electronic Code of Federal Regulations

Table 1 to Subpart PPPP of Part 63—Operating Limits if Using the Emission Rate With Add-On Controls Option

If you are required to comply with operating limits by §63.4491(c), you must comply with the applicable operating limits in the following table:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=825f401936f55cd5c9b901ed5ffcf458&rgn=div9&view=text&node=40:12.0.1.1.1.22.326.32.129&idno=40>

Table 2 to Subpart PPPP of Part 63—Applicability of General Provisions to Subpart PPPP of Part 63

You must comply with the applicable General Provisions requirements according to the following table

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=825f401936f55cd5c9b901ed5ffcf458;rgn=div9;view=text;node=40%3A12.0.1.1.1.22.326.32.130;idno=40;cc=ecfr>

Table 3 to Subpart PPPP of Part 63—Default Organic HAP Mass Fraction for Solvents and Solvent Blends

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data and which match either the solvent blend name or the chemical abstract series (CAS) number. If a solvent blend matches both the name and

CAS number for an entry, that entry's organic HAP mass fraction must be used for that solvent blend. Otherwise, use the organic HAP mass fraction for the entry matching either the solvent blend name or CAS number, or use the organic HAP mass fraction from table 4 to this subpart if neither the name or CAS number match.

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=825f401936f55cd5c9b901ed5ffcf458;rgn=div9;view=text;node=40%3A12.0.1.1.1.22.326.32.131;idno=40;cc=ecfr>

Table 4 to Subpart PPPP of Part 63—Default Organic HAP Mass Fraction for Petroleum Solvent Groups^a

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data.

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=825f401936f55cd5c9b901ed5ffcf458;rgn=div9;view=text;node=40%3A12.0.1.1.1.22.326.32.132;idno=40;cc=ecfr>