

**AIR POLLUTION CONTROL CONSTRUCTION PERMIT AND OPERATION PERMIT**

EI FACILITY NO: 612023940

PERMIT NO.: 11-SJZ-179,  
612023940-P10

TYPE: Part 70 Source

In compliance with the provisions of Chapter 285, Wis. Stats., and Chapters NR 400 to NR 499, Wis. Adm. Code,

Name of Source: 3M Prairie du Chien

Street Address: 405 East Frederick Street (Building 49) and  
801 North Marquette Road (Building 50)  
Prairie du Chien, Crawford County, Wisconsin

Responsible Official, & Title: Thomas Harris, Plant Manager

is authorized to operate an existing abrasive and floor care products manufacturing facility described in the plans and specifications dated 07/08/08 (application received), 07/16/09, 01/26/10, 04/07/11, 04/12/11, 05/22/11, 06/13/11, 07/26/11, 08/03/11, 08/23/11, 08/24/11, 09/08/11, 09/26/11, 09/27/11, 09/29/11, 09/30/11, 10/03/11, 10/04/11, 10/05/11, 10/06/11, 10/12/11, 10/13/11, 10/17/11, 11/01/11, 12/13/11, 12/20/11, 01/16/12, 02/29/12, 04/17/12, 04/26/12, 04/30/12, 05/02/12, 05/07/12, 06/12/12, 06/18/12, 08/10/12, 08/28/12, 08/30/12, 09/05/12, 09/18/12, 12/10/12, 05/13/13, 05/17/13, 05/20/13, 07/05/13, 07/19/13, 07/23/13, 07/24/13, 08/02/13, 08/05/13, 08/09/13, 08/30/13, 12/05/13 in conformity with the conditions herein.

**Construction permit (11-SJZ-179) will expire the same day the operation permit (612023940-P10) expires.**

**This renewed operation permit expires on March 7, 2019 [s. 285.66(2)(a), Wis. Stats., and s. NR 407.09(1)(b)1., Wis. Adm. Code].**

**A renewal application must be submitted at least 6 months, but not more than 18 months, prior to the expiration date [ss. 285.66(3)(a), Wis. Stats. and NR 407.04(2), Wis. Adm. Code].**

No permittee may continue operation of a source after the operation permit expires, unless the permittee submits a timely and complete application for renewal of the permit. If a timely and complete application for renewal is submitted, the existing operation permit will not expire until the renewal application has been finally acted upon by DNR. [ss. 227.51(2), Wis. Stats. and NR 407.04(2), Wis. Adm. Code].

Conditions of the operation permit marked with an asterisk (\*) have been created outside of the Wisconsin's federally approved State Implementation Plan (SIP) and are not federally enforceable.

This authorization requires compliance by the permit holder with the emission limitations, monitoring requirements and other terms and conditions set forth in Parts I, II, and III hereof.

Dated at Eau Claire, Wisconsin

March 7, 2014

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
For the Secretary

By \_\_\_\_\_ /s/ Kristin Hart for, 03/07/14  
Jeffery Johnson  
Air Team Supervisor-West Central Region

## PREAMBLE

An Asterisk (\*) throughout this document denotes legal authority, limitations and conditions which are not federally enforceable.

**The following permits, orders, etc., are adopted, under ss. 285.65(3), Wis. Stats., NR 406.11(1)(c) and (d), NR 407.09(2)(d) and NR 407.15(3) and (4), Wis. Adm. Code, by Permit 612023940-P10 which then becomes the primary enforceable document:<sup>1</sup>**

90-POY-165, 98-DCF-037-EXM, 98-POY-105, 99-POY-083, 603007680-P01, 01-POY-017, 01-POY-017-OP, 03-RAF-318, 03-RAF-318-OP, 05-RAF-200-EXM, 06-POY-091, 06-POY-091-OP, 612023940-P02, 06-RAF-199-EXM, 08-MEO-045-EXM, 08-SJZ-231-EXM, 09-MHR-142, 12-SJZ-120-EXM

### Historical Summary of Permits/Orders Issued to the Facility.

Permit/Order Number	Building	Issuance Date	Sources Covered & Description <sup>1</sup>	Permits Adopted
89-POY-044	50	09/25/89	22 Maker (P30)	None
89-POY-141	50	10/01/90	21 Maker (P31)	None
90-POY-165	50	01/13/92	24 Maker (P55)	None
90-612023940-DLJ-01	50	Not Available	Coiled Web Maker (P32)	Not Available
90-612023940-DLJ-01A	50	Not Available	Not Available	Not Available
91-POY-102	50	01/03/92	Salt Bath Process (P52)	None
92-POY-029	49	04/24/92	Two Identical Non-Woven Pad Manufacturing Processing Lines	None
92-RV-152	50	03/14/94	Spray Adhesive Applicator (P54)	None
97-POY-102	50	02/27/98	21 Maker (P31)	None
98-DCF-037-EXM	50	07/16/98	Not Available	None
98-POY-037	50	07/16/98	Quest Maker (P55)	None
98-POY-105	49	09/15/98	Matting Enhancement Tables (P02) (process is no longer operating and has been removed from the facility)	None
99-POY-083	49	09/13/99	Abrasive Sponge Coating Process (P07), Mineral Coating Operation (P08), <sup>2</sup> Two Coating Stations (P09, P10) <sup>3</sup>	None

<sup>1</sup> Permits 98-POY-105, 99-POY-083, 03-RAF-318, 03-RAF-318-OP, 05-RAF-200, 08-MEO-045, and 08-SJZ-231-EXM were issued to 3M Company-Building #49 (FID 612040440) and permits 612023940-P01, 01-POY-017, 01-POY-017-OP, 06-POY-091, 06-POY-091-OP, 612023940-P02, 06-RAF-199, 09-MHR-142, and 12-SJZ-120-EXM were issued to 3M Company-Building #50 (FID 612023940). With the issuance of operation permit 612023940-P10, 3M Company-Building #49 (FID 612040440) and 3M Company-Building #50 (FID 612023940) will become 3M Prairie du Chien (FID 612023940).

<sup>2</sup> The Mineral Coating Operation (P08) is considered an insignificant emission unit.

Permit/Order Number	Building	Issuance Date	Sources Covered & Description <sup>1</sup>	Permits Adopted
01-POY-017	50	07/30/01	Installation of 25 Maker (P56)	None
612023940-P01	50	01/09/04	Total Facility	89-POY-044, 89-POY-141, 90-612023940-DLJ-01, 90-612023940-DLJ-01A, 91-POY-102, 92-POY-029, 92-RV-152, 97-POY-102, 98-POY-037
01-POY-017-OP	50	01/10/05	Operation permit for 25 Maker (P56)	01-POY-017
03-RAF-318	49	06/04/04	Non-Woven Pad Manufacturing Line (P01), Abrasive Sponge Coating Process (P07)	None
03-RAF-318-OP	49	03/07/14	Non-Woven Pad Manufacturing Line (P01), Abrasive Sponge Coating Process (P07)	None
05-RAF-200-EXM	49	07/07/05	Construction Permit Exemption-installation of Sanding Cloth Line (P68)	None
06-POY-091	50	06/14/06	Modification of 21 Maker (P31), 25 Maker (P56), Columbia Press (P40), and Electric Post Cure Oven (P270) to allow emissions to bypass the regenerative thermal oxidizer	None
06-POY-091-OP	50	03/07/14	Modification of 21 Maker (P31), 25 Maker (P56), Columbia Press (P40), and Electric Post Cure Oven (P270) to allow emissions to bypass the regenerative thermal oxidizer	None
612023940-P02	50	03/07/14	Modification of 21 Maker (P31), 25 Maker (P56), Columbia Press (P40), and Electric Post Cure Oven (P270) to allow emissions to bypass the regenerative thermal oxidizer	None
06-RAF-199-EXM	50	07/28/06	Construction Permit Exemption: 26 Maker (P65)	None
08-MEO-045-EXM	49	02/15/08	Foam Making (P66)	None
08-SJZ-231-EXM	49	10/01/08	Construction Permit Exemption: 27 Maker (P67)	None
09-MHR-142	50	02/02/10	Modification of Boiler #4 (B23)	None
12-SJZ-120-EXM	50	08/27/12	Construction Permit Exemption: Thinsulate Maker (P69)	None

<sup>3</sup> Resin Coating Stations P09 and P10 are sub-components to the Abrasive Sponge Coating Process (P07). The Resin Coating Stations P09 and P10 are now included in the Abrasive Sponge Coating Process (P07).

Permit/Order Number	Building	Issuance Date	Sources Covered & Description <sup>1</sup>	Permits Adopted
11-SJZ-179	49 and 50 (Entire Facility)	03/07/14	Modify an existing web coating line, Construct or install a new web coating line, Construct or install a new plastic or metal parts surface coating process, Subsequent modification of web coating lines or parts coating operation installed under authority of this permit, Installation of new or modification of existing semi-finished web processing equipment, Air pollution control devices, R&D/Pilot/Development Projects	None
612023940-P10	49 and 50 (Entire Facility)	03/07/14	Total Facility	90-POY-165, 98-DCF-037-EXM, 98-POY-105, 99-POY-083, 603007680-P01, 01-POY-017, 01-POY-017-OP, 03-RAF-318, 03-RAF-318-OP, 05-RAF-200-EXM, 06-POY-091, 06-POY-091-OP, 612023940-P02, 06-RAF-199-EXM, 08-MEO-045-EXM, 08-SJZ-231-EXM, 09-MHR-142, 12-SJZ-120-EXM

<sup>1</sup> – Total Facility refers to all existing units at the facility at the time of issuance of the permit listed.

### Stack and Process Index

1. Process B21, Stack S11 — 12.6 MMBtu/hr Industrial Boiler #2
2. Process B22, Stack S13 — 16.7 MMBtu/hr Industrial Boiler #3
3. Process B23, Stack S15 — 22.1 MMBtu/hr Industrial Boiler #4
4. Process P07, Stack S09 — Abrasive Sponge Coating Process
5. Process P30, Stack S14, Control Device C01 — 22 Maker
6. Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker
7. Process P32, Stack S16, Control Device C03 — Coiled Web Maker

8. Process P36, Stack S14, Control Device C01 — Pigment Mill Mix Area
9. Process P40, Stack S260 — Columbia Press
10. Process P44, Stack S34, Control Device C11 — Safety Walk Maker
11. Process P45, Stack S36, Control Device C06 — Mineral Handling Area
12. Process P50, Stack S42, Control Device C07 — Thinsulate Maker
13. Process P52, Stack S46, Control Device C09 — Salt Bath Parts Cleaning
14. Process P54, Stack S54 — Belt Making Area
15. Process P55, Stack S14, Control Device C01 — 24CC Maker
16. Process P56, Stacks S14, S240, S250, Control Device C01 — 25 Maker
17. Process P63, Stack S63, Control Device C63 — Mineral Coating For 25 Maker Area
18. Process P64, Stack S44, Control Device C04 — Mineral Coating For 21 Maker Area
19. Process P65, Stacks S45, S45A, S46B, S46C — 26 Maker
20. Process P66, Stack S49 — Foam Making
21. Process P67, Stack S47, S48, Control Device C21 — 27 Maker
22. Process P68, Stack S68 — Sanding Cloth Line
23. Process P69, Stack S69, Control Device C69 — Thinsulate Maker
24. Process P270, Stack S270 — Post Cure Oven
25. Process P271, Stack S271 — 285 kW Emergency Diesel Generator

**Insignificant Emissions Units**

- Boiler, Turbine, and HVAC System Maintenance.
- Convenience Water Heating.
- Demineralization and Oxygen Scavenging of Water for Boilers.
- Fire Control Equipment.
- Fuel Oil Storage Tanks (< 10,000 gal.).
- Internal Combustion Engines Used for Warehousing and Material Transport
- Janitorial Activities.
- Maintenance of Grounds, Equipment, and Buildings (lawn care, painting, etc.).
- Office Activities
- Pollution Control Equipment
- Purging of Natural Gas Lines
- Sanitary Sewer and Plumbing Venting
- Electric quality assurance sample oven for 22 Maker (P30)
- Indoor bulk storage tanks (14 tanks)

- ☒ Bulk tank farm (13 tanks, outdoors)
- ☒ Cold storage rooms (3)
- ☒ Quality assurance laboratory for 21 Maker (P30)
- ☒ Facility quality assurance laboratories (2)
- ☒ Non-woven converting area
- ☒ Fiber making area
- ☒ Electric oven for loft recovery area
- ☒ Cold cleaning tanks
- ☒ Lab hoods
- ☒ Scrubber – east wall
- ☒ Vacuum pump filter
- ☒ Boiler room – summer
- ☒ Welding hoods
- ☒ Blister
- ☒ Scrubber
- ☒ Buff puff converting, packaging (2)
- ☒ Hand pad converting, packaging
- ☒ Laminate converting, packaging
- ☒ Steam condensate
- ☒ Building 49 - QA Oven and Test Chamber
- ☒ Building 49 - Scrubber Line
- ☒ Building 49 - mixing area solution handling
- ☒ Safety Walk Maker Reclaim
- ☒ 24 CC Saw and Lathe
- ☒ USM press
- ☒ General Saw Area
- ☒ Rail car pellet unloading to silo
- ☒ Mineral Coating Operation (P08): Particulate matter emissions are controlled by a dust collector and vented back into the building. This process is located in Building 49.
- ☒ General Purpose Bun Coater (I1)-located in Building 50: The material produced by this process is made by a nonwoven substrate is adhered to a fiberglass core and while the material is wound, a foaming resin coating is continuously applied onto the non-woven substrate. The finished material is a wound “bun” consisting of the coated nonwoven substrate. The General Purpose Bun Coater (I1) is a batch process. The wound buns are further processed on a different line to make non-woven abrasive wheels used for fine finishing applications such as polishing or light cleaning.
- ☒ 2A Fiber Line (I2)-located in Building 50: The 2A Fiber Line extrudes purchased resin in pellet form to make very thin nylon or polyester fibers, essentially a staple fiber, and coats an antistatic finish onto the nylon or polyester fibers in a wind and rewind process. The antistatic finish is applied to enhance fiber handling in subsequent operations. The fibers made from this process are an intermediate fiber that are used in making abrasives and pressure sensitive tape products at the facility.
- ☒ General Purpose Polyurethane Foam Process (Slab Press) (I3)-located in Building 50: The process involves making a pressed foamed slab that is an intermediate material used in the manufacturing of other products. A sheet of non-woven nylon substrate is placed between a heated plat where a foaming resin is hand-applied to the non-woven nylon substrate. The slab press is closed on the sheet and held until the cure is complete, resulting in a pressed foamed slab.
- ☒ Roloc Semi-Automated and Manual Disc Assembly (I4)-located in Building 50: This process applies adhesive to a metal or plastic “button” through either a squeeze bottle or an air atomized spray nozzle. Then a non-woven material is affixed to the button. The product can be composed of a variety of non-woven abrasive substrates with a plastic or metal button attachment to aid in the use of this product on a variety of tools used for finishing.
- ☒ Rotopeen Line (I5)-located in Building 50: This process involves applying a resin mixture manually using a paint roller application onto a nylon woven sheet and carbide balls are manually placed onto the coated sheet. The sheet is then baked in an oven before cutting and finishing into the final product.
- ☒ Corona Treater Line (I6)

☒ Safety Walk Mineral Reclaim

**Permit Shield** — Unless precluded by the Administrator of the US EPA, compliance with all emission limitations in this operation permit is considered to be compliance with all emission limitations established under ss. 285.01 to 285.87, Wis. Stats., and emission limitations under the federal clean air act, that are applicable to the source if the permit includes the applicable limitation or if the Department determines that the emission limitations do not apply. The following emission limitations were reviewed in the analysis and preliminary determination and were determined not to apply to this stationary source:

**Process B21, Stack S11 — 12.6 MMBtu/hr Industrial Boiler #2**

**Process B22, Stack S13 — 16.7 MMBtu/hr Industrial Boiler #3**

**Process B23, Stack S15 — 22.1 MMBtu/hr Industrial Boiler #4**

State hazardous air pollutants resulting from #2 fuel oil and natural gas from these boilers are exempt from ch. NR 445, Wis. Adm. Code requirements because these fuels are a group 1 virgin fossil fuel, per s. NR 445.07(5)(a), Wis. Adm. Code.

**Parts I and III** — The headings for the areas in the permit are defined below. The legal authority for these limitations or methods follows them in [brackets].

**Pollutant** – This area will note which pollutant is being regulated by the permit.

**Limitations** – This area will list all applicable emission limitations that apply to the source, including case-by-case limitations such as Latest Available Control Techniques (LACT), Best Available Control Technology (BACT), or Lowest Achievable Emission Rate (LAER). It will also list any voluntary restrictions on hours of operation, raw material use, or production rate requested by the permittee to limit potential to emit.

**Compliance Demonstration** – The compliance demonstration methods outlined in this area may be used to demonstrate compliance with the associated emission limit or work practice standard listed under the corresponding **Limitations** column. The compliance demonstration area contains limits on parameters or other mechanisms that will be monitored periodically to ensure compliance with the limitations. The requirement to test as well as initial and periodic test schedules, if testing is required, will be stated here. Notwithstanding the compliance determination methods which the owner or operator of a sources is authorized to use under ch. NR 439, Wis. Adm. Code, the Department may use any relevant information or appropriate method to determine a source's compliance with applicable emission limitations.

**Reference Test Methods, Recordkeeping, and Monitoring Requirements** – Specific U.S. EPA Reference test methods or other approved test methods will be contained in this area and are the methods that must be used whenever testing is required. A reference test method will be listed even if no testing is immediately required. Also included in this area are any recordkeeping requirements and their frequency and reporting requirements. Accuracy of monitoring equipment shall meet, at a minimum, the requirements of s. NR 439.055(3) and (4), Wis. Adm. Code, as specified in Part II of this permit.

**Condition Type** – This area will specify other conditions that are applicable to the entire facility that may not be tied to one specific pollutant.

**Conditions** – Specific conditions usually applicable to the entire facility or compliance requirements.

**Compliance Demonstration** – This area contains monitoring and testing requirements and methods to demonstrate compliance with the conditions.

**Part I — Applicable Limitations and Specific Conditions** – Part I.A. through I.Y. contains requirements that apply to all existing sources and Part I.ZZZ. contains requirements that apply to all existing and future sources at the 3M Prairie du Chien facility. Part I continues to apply to all emission sources that are modified or installed under Part III. Part III contains requirements that apply to all future projects/facility changes listed in Part III.A. of this construction permit and operation permit. Part III is in effect only if the Green Tier 2 Participation Contract with the Department as entered into under s. 299.80 Wis. Stats. is effective. Part III. contains construction permit requirements and permits any future projects/facility changes listed in Part III.A. of this construction permit and operation permit. All projects/facility changes installed under Part III of construction permit 11-SJZ-179 and operation permit 617056660-P10 after the issuance of this operation permit shall operate under these conditions even if the Participation Contract expires or is revoked. If the Participation Contract expires or is revoked for any reason, the installation of any future project/facility changes under Part III.A. of this construction permit and operation permit will be prohibited. Any future projects/facility changes shall then be permitted according to the traditional ch. NR 406, Wis. Adm. Code, construction permitting program. If the Participation Contract expires or is revoked for any reason, the permittee shall comply with any delayed compliance deadlines and practical interim requirements established by the Department in a written revocation decision until the Department issues the approvals required under chs. 280 to 295, Wis. Stats, that were replaced by the above referenced Participation Contract. All existing sources permitted under Part I as well as the rest of the facility including all projects/facility changes permitted under Part III and any sources permitted under traditional ch. NR 406, Wis. Adm. Code are subject to the volatile organic compound emission limit requirements in Part I.ZZZ.5.

**Part II** — This section contains the general limitations that the permittee must abide by. These requirements are standard for most sources of air pollutants so they are included in this section with every permit.

**Part III — Pre-Approved Projects/Facility Changes** – This section contains construction permit requirements and permits any future pre-approved projects/facility changes listed in Part III.A. of this construction permit and operation permit, as part of the Green Tier 2 Participation Contract. All projects/facility changes installed under Part III.A. of construction permit 11-SJZ-179 and operation permit 612023940-P10 after the issuance of this operation permit shall operate under the conditions established when the projects/facility change was installed even if the Participation Contract expires or is revoked. If the Participation Contract expires or is revoked for any reason, the installation of any future project/facility change under Part III.A. of this operation permit will be prohibited. All future projects shall then be permitted according to the traditional ch. NR 406, Wis. Adm. Code, construction permitting program. If the Participation Contract expires or is revoked for any reason, the permittee shall comply with any delayed compliance deadlines and practical interim requirements established by the department in a written revocation decision until the department issues the approvals required under chs. 280 to 295, Wis. Stats, that were replaced by the above referenced Participation Contract. All projects/facility changes permitted under Part III as well as the rest of the facility including all existing sources permitted

under Part I and any sources permitted under traditional ch. NR 406, Wis. Adm. Code are subject to the volatile organic compound emission limit requirements in Part I.ZZZ.5.

**PART I**  
**APPLICABLE LIMITATIONS AND SPECIFIC CONDITIONS**

Part I.A. through I.Y. contains requirements that apply to all existing sources and Part I.ZZZZ. contains requirements that apply to all existing and future sources at the 3M Prairie du Chien facility. Part I continues to apply to all emission sources that are modified or installed under Part III. Part III contains requirements that apply to all future projects/facility changes listed in Part III.A. of this construction permit and operation permit. Part III is in effect only if the Green Tier 2 Participation Contract with the Department as entered into under s. 299.80 Wis. Stats. is effective. Part III. contains construction permit requirements and permits any future projects/facility changes listed in Part III.A. of this construction permit and operation permit. All projects/facility changes installed under Part III of construction permit 11-SJZ-179 and operation permit 617056660-P10 after the issuance of this operation permit shall operate under these conditions even if the Participation Contract expires or is revoked. If the Participation Contract expires or is revoked for any reason, the installation of any future project/facility changes under Part III.A. of this construction permit and operation permit will be prohibited. Any future projects/facility changes shall then be permitted according to the traditional ch. NR 406, Wis. Adm. Code, construction permitting program. If the Participation Contract expires or is revoked for any reason, the permittee shall comply with any delayed compliance deadlines and practical interim requirements established by the Department in a written revocation decision until the Department issues the approvals required under chs. 280 to 295, Wis. Stats, that were replaced by the above referenced Participation Contract. All existing sources permitted under Part I as well as the rest of the facility including all projects/facility changes permitted under Part III and any sources permitted under traditional ch. NR 406, Wis. Adm. Code are subject to the volatile organic compound emission limit requirements in Part I.ZZZZ.5.

**I.A. Process B21, Stack S11 — 12.6 MMBtu/hr Industrial Boiler #2**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions (Total Suspended Particulate)	(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions are limited to 0.60 pounds per million Btu. [s. NR 415.06(1)(a), Wis. Adm. Code]	(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler #2 (B21). [s. 285.65(7), Wis. Stats.]	(1) <b>Reference Test Method: Particulate Matter</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emission limit, <b>Then:</b> use U.S. EPA Method 5, for non-condensable particulate matter, <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code]  (2) The permittee shall keep monthly records of the type and amount of fuel fired in this boiler. [s. NR 439.04(1)(d), Wis. Adm. Code]
2. PM10 Emissions	(1) <b>Limit:</b> PM10 emissions are limited to 0.54 pounds per hour. <sup>4</sup> [s. 285.65(7), Wis. Stats. and s. NR 404.08(2), Wis. Adm. Code]	(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler #2 (B21). [s. 285.65(7), Wis. Stats.]	(1) <b>Reference Test Method for PM10:</b> <b>If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>Or</b>

<sup>4</sup> The 0.54 pound per hour emission limit was established in operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS) for PM10.

**I.A. Process B21, Stack S11 — 12.6 MMBtu/hr Industrial Boiler #2**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. PM10 Emissions (continued)			<p>another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(2) The permittee shall keep monthly records of the type and amount of fuel fired in this boiler. [s. NR 439.04(1)(d), Wis. Adm. Code]</p>
3. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions shall not exceed 40% opacity or number 2 on the Ringlemann chart <b>Except</b> for the following:                      (a) <b>When:</b> combustion equipment is being cleaned or a new fire started, <b>Then:</b> visible emissions may exceed 40% opacity or number 2 on the Ringlemann chart but may not exceed number 4 of the Ringlemann chart or 80% opacity for more than 6 minutes in any one hour.  <b>Maximum Occurrences:</b> Combustion equipment may not be cleaned nor a fire started more than three times per day.                      (b) <b>When:</b> For stated periods of time, as permitted by the department, for such purposes as an operating test, use of emergency equipment, or other good cause, provided no hazard or unsafe condition arises. [ss. NR 431.04(1), NR 431.05(1), and NR</p>	<p>(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler B21 (#2). [s. 285.65(7), Wis. Stats.]</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>IF:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> other methods as approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p>

**I.A. Process B21, Stack S11 — 12.6 MMBtu/hr Industrial Boiler #2**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
3. Visible Emissions (continued)	<a href="#">431.05(2), Wis. Adm. Code]</a>		

**I.B. Process B22, Stack S13 — 16.7 MMBtu/hr Industrial Boiler #3**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions (Total Suspended Particulate)	(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions are limited to 0.60 pounds per million Btu. [s. NR 415.06(1)(a), Wis. Adm. Code]	(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler #3 (B22). [s. 285.65(7), Wis. Stats.]	(1) <b>Reference Test Method: Particulate Matter</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5, for non-condensable particulate matter, <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code]  (2) The permittee shall keep monthly records of the type and amount of fuel fired in this boiler. [s. NR 439.04(1)(d), Wis. Adm. Code]
2. PM10 Emissions	(1) <b>Limit:</b> PM10 emissions are limited to 0.72 pounds per hour. <sup>5</sup> [s. 285.65(7), Wis. Stats. and s. NR 404.08(2), Wis. Adm. Code]	(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler #3 (B22). [s. 285.65(7), Wis. Stats.]	(1) <b>Reference Test Method for PM10:</b> <b>If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]  (2) The permittee shall keep monthly records of the type and amount of fuel fired in this boiler. [s. NR 439.04(1)(d), Wis. Adm. Code]
3. Visible Emissions	(1) <b>Limit:</b> Visible emissions shall not exceed 40% opacity or number 2 on the Ringlemann chart <b>Except</b> for the following: (a) <b>When:</b> combustion equipment is being cleaned or a new fire started, <b>Then:</b> visible emissions may exceed 40% opacity or number 2 on the Ringlemann chart but	(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler #3 (B22). [s. 285.65(7), Wis. Stats.]	(1) <b>Reference Test Method: Visible Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> other methods as approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]

<sup>5</sup> The 0.72 pound per hour emission limit was established in operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS) for PM10.

**I.B. Process B22, Stack S13 — 16.7 MMBtu/hr Industrial Boiler #3**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>3. Visible Emissions (continued)</p>	<p>may not exceed number 4 of the Ringlemann chart or 80% opacity for more than 6 minutes in any one hour.</p> <p><b>Maximum Occurrences:</b> Combustion equipment may not be cleaned nor a fire started more than three times per day.</p> <p>(b) <b>When:</b> For stated periods of time, as permitted by the department, for such purposes as an operating test, use of emergency equipment, or other good cause, provided no hazard or unsafe condition arises.</p> <p>[ss. NR 431.04(1), NR 431.05(1), and NR 431.05(2), Wis. Adm. Code]</p>		

**I.C. Process B23, Stack S15 — 22.1 MMBtu/hr Industrial Boiler #4**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions (Total Suspended Particulate)	(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions may not exceed 0.15 pounds per million Btu. [s. NR 415.06(2)(a), Wis. Adm. Code]	(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler #4 (B23). [s. 285.65(7), Wis. Stats.]	(1) <b>Reference Test Method: Particulate Matter</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5, for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code]  (2) The permittee shall keep monthly records of the type and amount of fuel fired in this boiler. [s. NR 439.04(1)(d), Wis. Adm. Code]
2. PM10 Emissions	(1) <b>Limit:</b> PM10 emissions are limited to 0.96 pounds per hour. <sup>6</sup> [s. 285.65(7), Wis. Stats. and s. NR 404.08(2), Wis. Adm. Code]	(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler #4 (B23). [s. 285.65(7), Wis. Stats.]	(1) <b>Reference Test Method for PM10:</b> <b>If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]  (2) The permittee shall keep monthly records of the type and amount of fuel fired in this boiler. [s. NR 439.04(1)(d), Wis. Adm. Code]
2. Visible Emissions	(1) <b>Limit:</b> Visible emissions shall not exceed 40% opacity or number 2 on the Ringlemann chart <b>Except</b> for the following: (a) <b>When:</b> combustion equipment is being cleaned or a new fire started, <b>Then:</b> visible emissions may exceed 40% opacity or number 2 on the Ringlemann chart but	(1) <b>Fuel Type:</b> The permittee shall only fire natural gas <b>Or</b> #2 fuel oil in Boiler #4 (B23). [s. 285.65(7), Wis. Stats.]	(1) <b>Reference Test Method: Visible Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> other methods as approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]

<sup>6</sup> The 0.96 pound per hour emission limit was established in operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS) for PM10.

**I.C. Process B23, Stack S15 — 22.1 MMBtu/hr Industrial Boiler #4**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. Visible Emissions (continued)	<p>may not exceed number 4 of the Ringlemann chart or 80% opacity for more than 6 minutes in any one hour.</p> <p><b>Maximum Occurrences:</b> Combustion equipment may not be cleaned nor a fire started more than three times per day.</p> <p>(b) <b>When:</b> For stated periods of time, as permitted by the department, for such purposes as an operating test, use of emergency equipment, or other good cause, provided no hazard or unsafe condition arises.</p> <p>[ss. NR 431.04(1), NR 431.05(1), and NR 431.05(2), Wis. Adm. Code]</p>		
3. Sulfur Dioxide Emissions	<p>(1) <b>Limit:</b> The sulfur content in the distillate fuel oil may not exceed 15 parts per million (ppm), by weight.<sup>7</sup></p> <p>[s. 285.65(7), Wis. Stats., ch. NR 405, Wis. Adm. Code, permit 09-MHR-142]</p>	<p>(1) <b>Certifications:</b> obtain and retain fuel supplier certifications</p> <p><b>Frequency:</b> for each shipment of distillate fuel oil<sup>8</sup> received by the facility which may be fired in Boiler #4 (B23).</p> <p><b>Include:</b> each fuel supplier certification shall include the following information:</p> <p>(a) The name of the oil supplier.</p>	<p>(1) <b>Reference Test Method: Sulfur Dioxide Emissions</b></p> <p><b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the sulfur dioxide emission limit, <b>Then:</b> use U.S. EPA Method 6, 6A, 6B, 6C, or 8 <b>Or</b> another method approved by the department in writing.</p> <p>[s. NR 439.06(2), Wis. Adm. Code, permit 09-MHR-142]</p> <p>(2) <b>Fuel Oil Shipment Records:</b> keep and maintain the</p>

<sup>7</sup> This limit was established in construction permit 09-MHR-142 to reduce sulfur dioxide emissions and allow the modification of Boiler #4 (B23) to be considered a minor modification to a major prevention of significant deterioration (PSD) source. This limit is considered a best available control technology (BACT)-equivalent limit PSD BACT avoidance limit and is not a PSD BACT limit.

<sup>8</sup> A shipment of fuel oil may consist of multiple deliveries of the fuel oil, provided that each delivery comes from the same fuel oil batch.

**I.C. Process B23, Stack S15 — 22.1 MMBtu/hr Industrial Boiler #4**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
3. Sulfur Dioxide Emissions (continued)		(b) A statement from the fuel supplier that the oil complies with the specifications for fuel oils no. 1 or 2 as defined in ASTM D396-02a, "Standard Specification for Fuel Oils." <b>And</b> (c) The measured fuel sulfur content in weight percent or confirmation that the oil does not have a sulfur content greater than 15 parts per million, by weight. <a href="#">[s. NR 440.207(9)(f), Wis. Adm. Code, s. 285.65(3), Wis. Stats., permit 09-MHR-142]</a>	following records pertaining to each shipment of fuel oil received by the permittee and added to any tank that stores fuel oil that may be fired in Boiler #4 (B23): (a) the date received, (b) the type of fuel oil, (c) the name of the fuel oil supplier, <b>And</b> (d) fuel supplier certifications for each shipment of fuel oil received. <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code, permit 09-MHR-142]</a>

**I.D. Process P07, Stack S09 — Abrasive Sponge Coating Process**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions from the Abrasive Sponge Coating Process (P07) are limited to 15 pounds per day. [ss. 285.65(7), Stats., s. NR 424.03(1)(a)4., Wis. Adm. Code, permit 03-RAF-318]</p>	<p>(1) The recordkeeping requirement in I.D.1.c.(3) also serves as the compliance demonstration requirement. [s. NR 439.04(3), Wis. Adm. Code, permit 03-RAF-318]</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound emission concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code, permit 03-RAF-318]</p> <p>(2) <b>Reference Test Method: Volatile Organic Compound Content</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with organic solvent content, the volume of solids, the weight of solids, the water content and the density of surface coatings and inks is required, <b>Then:</b> use U.S. EPA Method 24 or 24A in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(b), Wis. Adm. Code, permit 03-RAF-318]</p> <p>(3) <b>Records:</b> The permittee shall keep records of the following:                      (a) Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), or similar records indicating the VOC content of the coatings used.                      (b) The pounds of coating used each day. <b>And</b>                      (c) The pounds of volatile organic compounds emitted each day for the maximum VOC content and maximum coating use rate.                      [s. NR 439.04(3), Wis. Adm. Code, permit 03-RAF-318]</p>
<p>2. Particulate Matter</p>	<p>(1) <b>Limit:</b> Particulate matter (total suspended particulate)</p>	<p>(1) The recordkeeping requirement in I.D.2.c.(2) also serves as the compliance</p>	<p>(1) <b>Reference Test Method: Particulate Matter</b>  <b>If:</b> emissions testing is requested by the department for</p>

**I.D. Process P07, Stack S09 — Abrasive Sponge Coating Process**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
Emissions (Total Suspended Particulate)	<p>emissions are limited to the most restrictive of the following:<sup>9</sup></p> <p>(a) 0.40 pounds per 1,000 pounds of gas, <b>And</b></p> <p>(b) <math>E = 3.59 (P)^{0.62}</math></p> <p>where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour.</p> <p>[ss. NR 415.05(1)(o) and NR 415.05(2), Wis. Adm. Code]</p>	<p>demonstration requirement. [s. NR 439.04(3), Wis. Adm. Code]</p>	<p>purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter, <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code, permit 99-POY-083]</p> <p>(2) <b>Records:</b> The permittee shall keep records indicating that the maximum emissions are 0.256 pounds per hour for stack S09. [s. NR 439.04(1)(d), Wis. Adm. Code]</p>
3. PM10 Emissions	<p>(1) <b>Limit:</b> PM10 emissions are limited to 0.256 pounds per hour.<sup>10</sup> [s. 285.65(7), Wis. Stats., s. NR 404.08(2), Wis. Adm. Code, permit 99-POY-083]</p>	<p>(1) The recordkeeping requirement in I.D.3.c.(2) also serves as the compliance demonstration requirement. [s. NR 439.04(3), Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method for PM10: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions or another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(2) <b>Records:</b> The permittee shall keep records indicating that the maximum emissions are 0.256 pounds per hour for stack S09. [s. NR 439.04(1)(d), Wis. Adm. Code]</p>
4. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20 percent opacity. [s. NR 431.05, Wis. Adm. Code, permit 03-RAF-318]</p>	<p>(1) The compliance demonstration requirements in I.D.1.b.(1) and I.D.2.b.(1) for volatile organic compound and particulate matter emissions, respectively, also serve as the compliance demonstration requirements for visible emissions. [s. NR 407.09(1)(c)1.a., Wis. Adm. Code, permit 03-RAF-318]</p>	<p>(1) <b>Reference Test Method: Visible Emissions If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code, permit 03-RAF-318]</p>

<sup>9</sup> Based on current information, the most restrictive of these limits is the emission rate calculated from the process weight rate equation in s. NR 415.05(2), Wis. Adm. Code.

<sup>10</sup> The 0.256 pound per hour emission limit was established in construction permit 99-POY-083 to ensure the National Ambient Air Quality Standards (NAAQS) are satisfied for PM10.

**I.D. Process P07, Stack S09 — Abrasive Sponge Coating Process**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
4. Visible Emissions (continued)			(2) The recordkeeping and monitoring requirements in I.D.1.c.(3) and I.D.2.c.(2) for volatile organic compound and particulate matter emissions, respectively, also serve as the recordkeeping and monitoring requirements for visible emissions. [ <a href="#">ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code</a> ]

**I.E. Process P30, Stack S14, Control Device C01 — 22 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound Emissions</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions shall be controlled by 85 percent overall. [s. NR 424.03(2)(b), Wis. Adm. Code, permit 89-POY-044]</p> <p>(2) <b>Limit:</b> Volatile organic compound emissions are restricted to the following:<sup>11</sup></p> <p>(a) Coating usages may not exceed 70,000 gallons per month;</p> <p>(b) Monthly weighted average of VOC content in coatings may not exceed 5.0 pounds per gallon as applied;</p> <p>(c) Use of cleanup solvents may not exceed 4,500 gallons per month; <b>And</b></p> <p>(d) Monthly weighted average of VOC content of cleanup solvents may not exceed 9.0 pounds per gallon. [s. 285.65(7), Wis. Stats., s. NR 405.08, Wis. Adm. Code, permit 89-POY-044]</p>	<p>(1) <b>Compliance Emission Test:</b> conduct a compliance emission test every two years to determine volatile organic compound emissions. Each test shall be performed within 90 days of the anniversary date of the initial test (09/27/98). If the permittee cannot conduct the compliance emission test within this time frame, an extension to conduct the test may be requested. The compliance emission test shall consist of a destruction efficiency test of the thermal oxidizer and a capture efficiency test of the coating bay ventilation system. The permittee may request a waiver to not conduct a capture test by demonstrating that no changes have been made to the coating bay ventilation system, which would have reduced the overall capture of the ventilation system since the last capture test. [ss. NR 439.03 and NR 439.075, Wis. Adm. Code, permits 11-SJZ-179 and 612023940-P10]</p> <p>(2) <b>Combustion Temperature:</b> The operating combustion temperature of the regenerative thermal oxidizer (C01) shall be at least 1,457 degrees Fahrenheit <b>Or</b> the operating temperature measured during the most recent stack test that demonstrated compliance <b>Based on:</b> an average over any 3-hour period. [s. NR</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code, permit 89-POY-044]</p> <p>(2) <b>Reference Test Method: Volatile Organic Compound Content</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with organic solvent content, the volume of solids, the weight of solids, the water content and the density of surface coatings and inks is required, <b>Then:</b> use U.S. EPA Method 24 or 24A in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(b), Wis. Adm. Code, permit 89-POY-044]</p> <p>(3) <b>Record and Report:</b> any unplanned shut down of the thermal oxidizer (C01) serving the 22 Maker. <b>When:</b> before the end of the next business day. <b>Submit:</b> the report Wisconsin Department of Natural Resources, La Crosse Area Service Center, 3550 Mormon Coulee Road, La Crosse, WI 54601. [s. NR 439.04(1)(d), Wis. Adm. Code, permit 89-POY-044]</p> <p>(4) <b>Monitor and Record:</b> The permittee shall monitor and</p>

<sup>11</sup> These limits were established in construction permit 89-POY-044 to limit VOC emissions from 22 Maker (P30) to less than 40 tons per year and allow the modification of the 22 Maker to be considered a minor modification to a major PSD source.

**I.E. Process P30, Stack S14, Control Device C01 — 22 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Volatile Organic Compound Emissions (continued)		<p>424.03(2)(b), Wis. Adm. Code, 40 CFR 63.3321(a), 40 CFR Part 63 Table 1, permits 11-SJZ-179 and 612023940-P10]</p> <p>(3) The permittee shall operate the regenerative thermal oxidizer (C01) according to the Paper and Other Web Coating Operations MACT standard requirements in Part I.Y. [s. 285.65(7), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]</p> <p>(4) <b>Calculate:</b> the following by the last day of each month, for the preceding month:                      (a) total volume of coatings (as applied) used (gallons);                      (b) monthly weighted average of the VOC content for all coatings used (lb/gal);                      (c) total volume of cleanup solvent used (gallons); <b>And</b>                      (d) monthly weighted average of the VOC content for all cleanup solvents used (lb/gal).                      [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p>	<p>record the operating temperature of the thermal oxidizer  <b>When:</b> continuously [s. NR 439.055, Wis. Adm. Code, 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(9)(ii), 40 CFR 63.3410(a)(1)(ii), permits 11-SJZ-179 and 612023940-P10]</p> <p>(5) <b>Records:</b> The permittee shall keep daily records of the following:                      (a) total volume of coatings (as applied) used (gallons);                      (b) monthly weighted average of the VOC content for all coatings used (lb/gal);                      (c) total volume of cleanup solvent used (gallons); <b>And</b>                      (d) monthly weighted average of the VOC content for all cleanup solvents used (lb/gal).                      For each volatile organic compound content, the permittee shall rely on vendor supplied information (such as Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDS)), U.S. EPA Method 24 or 24A, or other sources of information or methods approved by the department in writing [s. NR 439.04(1)(d), Wis. Adm. Code, permit 89-POY-044]</p>
2. Visible Emissions	(1) <b>Limit:</b> Visible emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20 percent opacity. [s. NR 431.05, Wis. Adm. Code, permit 89-POY-044]	(1) <b>Fuel Type:</b> Only natural gas may be used as the auxiliary fuel in the thermal oxidizer (C01). [s. 285.65(7), Wis. Stats., permit 89-POY-044]	(1) <b>Reference Test Method: Visible Emissions</b> <b>IF:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code, permit 89-POY-044]

**I.F. Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions-when using coatings containing no more than 0.5% VOC by weight-bypass thermal oxidizer (C01)</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions shall be controlled by the Best Available Control Technology (BACT). BACT has been determined to be the following:<sup>12, 13</sup>                      (a) Each coating solutions used may not contain more than 0.5 percent VOC by weight;                      (b) The oxidizer may be bypassed while coating solutions with no more than 0.5 percent VOC by weight are used.  <a href="#">[ss. NR 405.08, Wis. Adm. Code and NR 424.03(2)(c), Wis. Adm. Code and permit 06-POY-091]</a></p> <p>(2) <b>Bypass:</b> Volatile organic compound emissions from the 21 Maker may not bypass the thermal oxidizer C01 for more than 150 hours per month, averaged over any 12 rolling months. <a href="#">[s. 285.65(7), Wis. Stats., permit 06-POY-091]</a></p>	<p>(1) <b>Retain:</b> on site the formulation of chemicals for each coating solutions used when Maker 21 (P31) is operated using coatings containing no more than 0.5% VOC by weight and when the thermal oxidizer (C01) was bypassed. This information shall show the VOC weight percent in each coating solutions applied. The information shall be made available to department upon request. To qualify any new low-VOC products, the facility shall conduct an approved analytical analysis to confirm that the actual VOC content is no greater than the 0.5% VOC by weight limit and confirm that the VOC emissions generated in the maker ovens will not be greater than the emissions generated from coatings containing no more than 0.5% by weight.  <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code, permits 11-SJZ-179 and 612023940-P10]</a></p> <p>(2) <b>Bypass:</b> In addition to periods of bypass of the thermal oxidizer allowed by I.F.1.a.(1) and (2), the 21 Maker (P31) may bypass the thermal oxidizer (C01) <b>When:</b> the maker is not applying coating solutions and when the oven does not contain any coated web only. <a href="#">[s. 285.65(7), Wis. Stats. and permit 06-POY-091]</a></p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(a), Wis. Adm. Code, permit 06-POY-091]</a></p> <p>(2) <b>Reference Test Method: Volatile Organic Compound Content</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining the VOC content, <b>Then:</b> use U.S. EPA Method 24 or 24A in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(b), Wis. Adm. Code, permit 06-POY-091]</a></p> <p>(3) <b>Records:</b> The permittee shall collect and record the following information for each day of operation:                      (a) The volatile organic compound content (% wt.) of each coating used and of each material added to a coating                      (b) The mass of each coating used and each material added to a coating;                      (c) The start time of when 21 Maker (P31) began using coatings containing no more than 0.5% VOC by weight;                      (d) The start time of when 21 Maker (P31) began bypassing the thermal oxidizer (C01);</p>

<sup>12</sup> This BACT requirement was determined in construction permit 89-POY-044.

<sup>13</sup> The 21 Maker (P31) is also subject to the requirements in ch. NR 424, Wis. Adm. Code. This BACT requirement meets the requirements in s. NR 424.03(2)(b), Wis. Adm. Code.

**I.F. Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>1. Volatile Organic Compound Emissions-when using coatings containing no more than 0.5% VOC by weight-bypass thermal oxidizer (C01) (continued)</p>		<p>(3) <b>Calculate:</b> Based on the information collected in I.F.1.c.(3), calculate the hours of when Maker 21 (P31) operated using coatings containing no more than 0.5% VOC by weight and the thermal oxidizer was bypassed, averaged over each 12 rolling months as follows: the sum of the hours of operation in the previous 12 rolling months divided by 12. <b>Due:</b> by the last day of each month, for the preceding month [s. NR 439.04, Wis. Adm. Code, permit 06-POY-091]</p>	<p>(e) The end time when 21 Maker (P31) stopped using coatings containing no more than 0.5% VOC by weight;                  (f) The time when the 21 Maker (P31) exhaust was reconnected to the thermal oxidizer (C01); <b>And</b>                  (g) The total hours that the thermal oxidizer (C01) was bypassed in each month, averaged over each 12 month period. [s. NR 439.04(1)(d), Wis. Adm. Code, permit 06-POY-091]</p>
<p>2. Volatile Organic Compound Emissions-when using coatings containing more than 0.5% VOC by weight</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions shall be controlled by the Best Available Control Technology (BACT). BACT has been determined to be controlling volatile organic compound emissions by 90 percent overall.<sup>14, 15</sup> [s. NR 405.08, and s. NR 424.03(2)(b), Wis. Adm. Code, permit 06-POY-091]</p> <p>(2) <b>Limit:</b> The permittee shall limit the following:                  (a) Coating usages may not exceed 215,890 gallons per month;</p>	<p>(1) <b>Compliance Emission Test:</b> conduct a compliance emission test every two years to determine volatile organic compound emissions. Each test shall be performed within 90 days of the anniversary date of the initial test (09/27/98). If the permittee cannot conduct the compliance emission test within this time frame, an extension to conduct the test may be requested. The compliance emission test shall consist of a destruction efficiency test of the thermal oxidizer and a capture efficiency test of the coating bay ventilation system. The permittee may request a waiver to not conduct a capture test by demonstrating that no changes have been made to the coating bay ventilation system, which</p>	<p>(1) <b>Reference Test Method: Volatile Organic Control Efficiency</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining the overall volatile organic compound control efficiency of the thermal oxidizer (C01), the following methods shall be used:                  (a) U.S. EPA Method 18 or 25A to determine the destruction efficiency of the thermal oxidizer, <b>And</b>                  (b) U.S. EPA Method 204, or 204F in 40 CFR Part 51, or the data quality objective method or lower confidence limit method in 40 CFR Part 63 Subpart KK, Appendix A to determine the capture efficiency of the thermal oxidizer, <b>Or</b>                  (c) another method approved by the department in writing. [s. NR 439.06(3)(a) and (am), Wis. Adm. Code, permit 06-POY-091]</p> <p>(2) <b>Reference Test Method: Volatile Organic Compound Content</b></p>

<sup>14</sup> This BACT requirement was determined in construction permit 97-POY-102.

<sup>15</sup> The 21 Maker (P31) is also subject to the requirements in ch. NR 424, Wis. Adm. Code. This BACT requirement meets the requirements in s. NR 424.03(2)(b), Wis. Adm. Code.

**I.F. Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>2. Volatile Organic Compound Emissions-when using coatings containing more than 0.5% VOC by weight (continued)</p>	<p>(b) Monthly weighted average of the VOC content in coatings may not exceed 6.5 pounds per gallon as applied;                      (c) Use of clean up solvents may not exceed 15,000 gallons per month;                      (d) Monthly weighted average of the VOC content in the clean up solvents may not exceed 9.0 pounds per gallon.  <a href="#">[s. 285.65(7), Wis. Stats., permit 06-POY-091]</a></p>	<p>would have reduced the overall capture of the ventilation system since the last capture test. <a href="#">[ss. NR 439.03 and NR 439.075, Wis. Adm. Code, permits 11-SJZ-179 and 612023940-P10]</a></p> <p>(2) <b>Combustion Temperature:</b> The operating combustion temperature of the regenerative thermal oxidizer (C01) shall be at least 1,457 degrees Fahrenheit <b>Or</b> the operating temperature measured during the most recent stack test that demonstrated compliance <b>Based on:</b> an average over any 3-hour period. <a href="#">[s. NR 424.03(2)(b), Wis. Adm. Code, 40 CFR 63.3321(a), 40 CFR Part 63 Table 1, permits 11-SJZ-179 and 612023940-P10]</a></p> <p>(3) <b>Residence Time:</b> Residence time of combustion gases in the thermal oxidizer system shall be at least 0.75 second. <a href="#">[s. 285.65(7), Wis. Stats., permit 06-POY-091]</a></p> <p>(4) <b>Determine:</b> the residence time of the combustion gases <b>When:</b> during the compliance test. <a href="#">[s. NR 439.04, Wis. Adm. Code, permit 06-POY-091]</a></p> <p>(5) <b>Bypass:</b> 21 Maker (P31) may bypass the thermal oxidizer (C01) <b>When:</b> the maker is not applying coating solutions and when the oven does not contain any coated web only. <a href="#">[s. 285.65(7), Wis. Stats., permit 06-POY-091]</a></p>	<p><b>If:</b> emissions testing is requested by the department for purposes of determining the VOC content, <b>Then:</b> use U.S. EPA Method 24 or 24A in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(b), Wis. Adm. Code, permit 06-POY-091]</a></p> <p>(3) <b>Record and Report:</b> The permittee shall record and report, any unplanned shut down of the thermal oxidizer (C01) <b>When:</b> before the end of the next business day. <b>Submit:</b> the report to La Crosse Area Service Center, 3550 Mormon Coulee Road, La Crosse, WI 54601. <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code, permit 06-POY-091]</a></p> <p>(4) <b>Monitor and Record:</b> The permittee shall monitor and record the operating temperature of the thermal oxidizer <b>When:</b> continuously <a href="#">[s. NR 439.055, Wis. Adm. Code, 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(9)(ii), 40 CFR 63.3410(a)(1)(ii), permit 06-POY-091]</a></p> <p>(5) <b>Records:</b> The permittee shall keep daily record of the following:                      (a) The start time that the operating scenario in I.F.2.b.(5) started;                      (b) The start time that the Maker 21 (P31) began to bypass the oxidizer;                      (c) The end time that the operating scenario in I.F.2.b.(5) ended; <b>And</b>                      (d) The time that the Maker 21 (P31) exhaust is reconnected to the oxidizer.  <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code, permit 06-POY-091]</a></p> <p>(6) <b>Records:</b> The permittee shall keep the following records daily:</p>

**I.F. Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>2. Volatile Organic Compound Emissions-when using coatings containing more than 0.5% VOC by weight (continued)</p>		<p>(6) <b>Control:</b> The emissions from 21 Maker (P31) shall always be controlled by the thermal oxidizer (C01) when the maker is processing cleanup solvents. [s. 285.65(7), Wis. Stats., permit 06-POY-091]</p> <p>(7) <b>Calculate:</b> the following by the last day of each month, for the preceding month:                      (a) total volume of coatings (as applied) used (gallons);                      (b) monthly weighted average of the VOC content for all coatings used as applied (lb/gal);                      (c) total volume of clean up solvents used (gallons); <b>And</b>                      (d) monthly weighted average of the VOC content for all cleanup solvents used (lb/gal).                      [s. NR 407.09(1)(c)1.a., Wis. Adm. Code]</p> <p>(8) The permittee shall operate the regenerative thermal oxidizer (C01) according to the Paper and Other Web Coating Operations MACT standard requirements in Part I.Y. [s. 285.65(7), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]</p>	<p>(a) the total volume of all coatings (as applied) used (gallons);                      (b) the monthly weighted average of the VOC content for all coatings used as applied (lb/gal)                      (c) the total volume of all cleanup solvents used (gallon);                      (d) the monthly weighted average of the VOC content for all cleanup solvents used (lb/gal).                      [s. NR 439.04(1)(d), Wis. Adm. Code]</p>
<p>3. Visible Emissions</p>	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20 percent opacity. [ss. NR 431.05, Wis. Adm. Code, permit 89-POY-044]</p>	<p>(1) <b>Fuel Type:</b> Only natural gas may be used as the auziliary fuel in the regenerative thermal oxidizer (C01). [s. 285.65(7), Wis. Stats., permit 89-POY-044]</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in</p>

**I.F. Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
3. Visible Emissions (continued)		(2) <b>Fuel Type:</b> Only natural gas shall be used as fuel in the 21 Maker (P31) oven. [s. 285.65(7), Wis. Stats., permit 89-POY-044]	writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code, permit 89-POY-044]

**I.G. Process P32, Stack S16, Control Device C03 — Coiled Web Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Particulate Matter Emissions (Total Suspended Particulate)</p>	<p>(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions are limited to the most restrictive of the following:<sup>16</sup>                      (a) 0.40 pounds per 1,000 pounds of gas, <b>And</b>                      (b) <math>E = 3.59 (P)^{0.62}</math>                      where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour  <a href="#">[ss. NR 415.05(1)(o) and NR 415.05(2), Wis. Adm. Code]</a></p>	<p>(1) <b>Temperature:</b> The inlet temperature to the wet electrostatic precipitator may not exceed 175 degrees Fahrenheit. <a href="#">[s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)1., Wis. Adm. Code]</a></p> <p>(2) <b>Minimum Voltages: If:</b> three or more secondary voltages in a bank are less than 4,500 volts or the voltages are otherwise suspect, <b>Then:</b> the wet electrostatic precipitator shall be shutdown, along with the coiled web maker. <a href="#">[s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)1., Wis. Adm. Code]</a></p>	<p>(1) <b>Reference Test Method: Particulate Matter If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>OR</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(1), Wis. Adm. Code]</a></p> <p>(2) <b>Measure and Record:</b> the inlet temperature of the wet electrostatic precipitator <b>When:</b> once for every 15 minutes of source operations. <a href="#">[ss. NR 439.055 and NR 439.055(5), Wis. Adm. Code]</a></p> <p>(3) <b>Monitor:</b> Secondary voltages for all collector cells shall be monitored and recorded <b>When:</b> at least twice per operating day. <a href="#">[s. NR 439.055, Wis. Adm. Code]</a></p>
<p>2. PM10 Emissions</p>	<p>(1) <b>Limit:</b> PM10 emissions are limited to 1.0 pound per hour.<sup>17</sup> <a href="#">[s. 285.65(3), Wis. Stats. and s. NR 404.08(2), Wis. Adm. Code]</a></p>	<p>(1) <b>Temperature:</b> The inlet temperature to the wet electrostatic precipitator may not exceed 175 degrees Fahrenheit. <a href="#">[s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)1., Wis. Adm. Code]</a></p> <p>(2) <b>Minimum Voltages: If:</b> three or more secondary voltages in a bank are less than 4,500 volts or the voltages are otherwise suspect, <b>Then:</b> the wet electrostatic precipitator shall be shutdown, along with the coiled web maker. <a href="#">[s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)1., Wis. Adm. Code]</a></p>	<p>(1) <b>Reference Test Method for PM10: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(1m), Wis. Adm. Code]</a></p> <p>(2) <b>Measure and Record:</b> the inlet temperature of the wet electrostatic precipitator <b>When:</b> once for every 15 minutes of source operations. <a href="#">[ss. NR 439.055 and NR 439.055(5), Wis. Adm. Code]</a></p> <p>(3) <b>Monitor:</b> Secondary voltages for all collector cells shall be monitored and recorded <b>When:</b> at least twice per operating</p>

<sup>16</sup> Based on current information, the most restrictive of these limits is the emission rate calculated from the process weight rate equation in s. NR 415.05(2), Wis. Adm. Code.

<sup>17</sup> The 1.0 pound per hour emission limit was established in operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS) for PM10.

**I.G. Process P32, Stack S16, Control Device C03 — Coiled Web Maker**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
2. PM10 Emissions (continued)			day. [s. NR 439.055, Wis. Adm. Code]
3. Visible Emissions	(1) <b>Limit:</b> Visible emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20 percent opacity. [ss. NR 431.05, Wis. Adm. Code]	(1) The compliance demonstration requirements in I.G.1.b.(1) and (2) for particulate matter emissions also serve as the compliance demonstration requirements for visible emissions. [s. NR 407.09(1)(c)1.a., Wis. Adm. Code]	(1) <b>Reference Test Method: Visible Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]  (2) The recordkeeping and monitoring requirements for particulate matter emissions in I.G.1.c.(2) and (3) also serve as the recordkeeping and monitoring requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]

**I.H. Process P36, Stack S14, Control Device C01 — Pigment Mill Mix Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions shall be controlled by 85% overall. <a href="#">[s. NR 424.03(2)(b), Wis. Adm. Code]</a></p>	<p>(1) <b>Compliance Emission Test:</b> conduct a compliance emission test every two years to determine volatile organic compound emissions. Each test shall be performed within 90 days of the anniversary date of the initial test (09/27/98). If the permittee cannot conduct the compliance emission test within this time frame, an extension to conduct the test may be requested. The compliance emission test shall consist of a destruction efficiency test of the thermal oxidizer and a capture efficiency test of the coating bay ventilation system. The permittee may request a waiver to not conduct a capture test by demonstrating that no changes have been made to the coating bay ventilation system, which would have reduced the overall capture of the ventilation system since the last capture test. <a href="#">[ss. NR 439.03 and NR 439.075, Wis. Adm. Code]</a></p> <p>(2) <b>Combustion Temperature:</b> The operating combustion temperature of the regenerative thermal oxidizer (C01) shall be at least 1,457 degrees Fahrenheit <b>Or</b> the operating temperature measured during the most recent stack test that demonstrated compliance <b>Based on:</b> an average over any 3-hour period. <a href="#">[s. NR 424.03(2)(b), Wis. Adm. Code, 40 CFR 63.3321(a), 40 CFR Part 63 Table 1]</a></p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(a), Wis. Adm. Code]</a></p> <p>(2) <b>Monitor and Record:</b> The permittee shall monitor and record the operating temperature of the thermal oxidizer <b>When:</b> continuously <a href="#">[s. NR 439.055, Wis. Adm. Code, 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(9)(ii), 40 CFR 63.3410(a)(1)(ii)]</a></p> <p>(3) <b>Recordkeeping:</b> The permittee shall maintain records of the compliance emission test results and records of any other information that shows compliance with the requirement to control volatile organic compound emissions by 85% overall. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a></p>
<p>2. Visible Emissions</p>	<p>(1) <b>Limit:</b> Visible emissions are limited to a number 1 of</p>	<p>(1) The compliance demonstration requirements in I.H.1.b.(1) and (2) for</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for</p>

**I.H. Process P36, Stack S14, Control Device C01 — Pigment Mill Mix Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. Visible Emissions (continued)	the Ringlemann chart or 20% opacity. [ss. NR 431.05, Wis. Adm. Code]	volatile organic compound emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats., s. NR 407.09(4)(a)3.b., Wis. Adm. Code]	<p>purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The recordkeeping and monitoring requirements for volatile organic compound emissions in I.H.1.c.(2) and (3) also serve as the recordkeeping and monitoring requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]</p>
3. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Miscellaneous Coating Manufacturing in 40 CFR Part 63 Subpart HHHHH (63.7980-63.8105)	(1) <b>Limit:</b> The hazardous air pollutant (HAP) content in each manufactured coating to less than 5 percent by weight (0.05 kilogram HAP per kilogram product). [s. 285.65(13), Wis. Stats., 40 CFR 8005(a)(1)(i), 40 CFR 63.8055(a)]	(1) <b>Determine:</b> The hazardous air pollutant content in each of the coatings according to any of the following: (a) U.S. EPA Method 311 (Appendix A to 40 CFR Part 63). <b>Or</b> (b) U.S. EPA Method 24 (Appendix A to 40 CFR Part 60). Method 24 may be used to determine the mass fraction of volatile matter and use that value as a substitute for the mass fraction of HAP. <b>Or</b> (c) An alternative test method may be used for determining mass fraction of HAP if approved by the department in writing. Follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval. <b>Or</b> (d) Formulation data may be relied upon from raw material suppliers if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens, as specified in 29 CFR 1910.1200(d)(4), and at 1.0 percent by mass or more for other	(1) <b>Records:</b> Maintain records of the following: (a) hazardous air pollutant content in the coatings <b>And</b> (b) method used to determine the hazardous air pollutant content in the coatings [s. 285.65(13), Wis. Stats., s. NR 439.04(1)(d), Wis. Adm. Code]

**I.H. Process P36, Stack S14, Control Device C01 — Pigment Mill Mix Area**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
3. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Miscellaneous Coating Manufacturing in 40 CFR Part 63 Subpart HHHHH (63.7980-63.8105) (continued)		compounds. <b>If:</b> the HAP weight percent estimated based on formulation data conflicts with the results of a test conducted according to I.H.3.b.(1)(a), (b), or (c), <b>Then:</b> there is a rebuttal presumption that the test results are accurate unless, after consultation, it is demonstrated to the satisfaction of the permitting authority that the test results are not accurate and that the formulation data are more appropriate. <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 8055(b)(1)-(4)]</a>	

**II. Process P40, Stack S260 — Columbia Press**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>1. Volatile Organic Compound Emissions</p>	<p>(1) <b>Limit:</b> Controlling volatile organic compound emissions by 85% is not feasible so the Latest Available Control Technique and Operating Practices (LACT) apply. LACT has been determined to be the following:<sup>18</sup>                      (a) use low volatile organic compound containing raw material where possible, <b>And</b>                      (b) volatile organic compound emissions are limited to 4.8 tons per year, summed over a rolling 12 month period.  <a href="#">[s. NR 424.03(2)(c), Wis. Adm. Code, permit 11-SJZ-179]</a></p>	<p>(1) <b>Operators:</b> Only trained staff who are familiar with the standard operation procedures may operate the Colombia Press. <a href="#">[s. NR 424.03(2)(b), Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(2) <b>Calculate:</b> the monthly volatile organic compound emissions by the last day of each month, for the preceding month according to the following:  <math display="block">\mathbf{X} = (\mathbf{EF}) * (\mathbf{Throughput}) / (\mathbf{2,000 lb/ton})</math>                     where,  <math>\mathbf{X}</math> = monthly volatile organic compound emissions (ton/month)  <math>\mathbf{EF}</math> = emission factor (lb VOC/gal coating, lb VOC/lb raw material, or equivalent) as determined by AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, equipment manufacturer data,  <math>\mathbf{Throughput}</math> = material throughput (gal/month or lb/month)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(3) <b>Calculate:</b> the total volatile organic compound emissions over a rolling 12 month period by summing the emissions</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(a), Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(2) <b>Recordkeeping:</b> The permittee shall keep records of the following:                      (a) emission factors from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the emission factor source, how the emission factors from compliance emission test data, monitoring data, or equipment manufacturer data were developed,                      (b) VOC content in each raw material from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the VOC content source, how the VOC content from compliance emission test data, monitoring data, or equipment manufacturer data was developed,                      (c) density of coating and coating density source, where applicable,                      (d) record daily throughput or other throughput data collected within each month that is used to determine the monthly raw material throughput,                      (e) monthly raw material throughput,</p>

<sup>18</sup> This LACT was determined in construction permit 11-SJZ-179 and operation permit 612023940-P10.

**I.I. Process P40, Stack S260 — Columbia Press**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Volatile Organic Compound Emissions (continued)		<p>of the current month with those of the preceding 11 months,  <b>When:</b> by the last day of the following month  <b>Using:</b> the following equation:</p> $E_{\text{total}} = \sum X_n$ <p>where,  <math>E_{\text{total}}</math> = tons of all VOC emitted in a rolling 12 month period (ton/yr)  <math>X_n</math> = tons of VOC emissions in a month as calculated in condition I.I.1.b.(2) (ton/month)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p>	<p>(f) the calculation of the VOC emissions,                  (g) the monthly volatile organic compound emissions,                  (h) the total volatile organic compound emissions summed over each rolling 12 month period, <b>And</b>                  (i) training records of each of the operators of the Columbia Press (P40).  <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code, permit 11-SJZ-179]</a></p>
2. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions are limited to a number 1 of the Ringlemann chart or 20% opacity. <a href="#">[ss. NR 431.05, Wis. Adm. Code]</a></p>	<p>(1) The compliance demonstration requirements in I.I.1.b. for volatile organic compound emissions also serve as the compliance demonstration requirements for visible emissions. <a href="#">[s. 285.65(7), Wis. Stats.. s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</a></p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(9)(a)1., Wis. Adm. Code]</a></p> <p>(2) The recordkeeping and monitoring requirements for volatile organic compound emissions in I.I.1.c.(2) also serve as the recordkeeping and monitoring requirements for visible emissions. <a href="#">[ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]</a></p>

**I.J. Process P44, Stack S34, Control Device C11 — Safety Walk Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Particulate Matter Emissions (Total Suspended Particulate Matter)</p>	<p>(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions are limited to the most restrictive of the following:<sup>19</sup>                      (a) 0.40 pounds per 1,000 pounds of gas <b>And</b>                      (b) <math>E = 3.59 (P)^{0.62}</math>                      where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour  <a href="#">[s. NR 415.05(1)(o), and NR 415.05(2), Wis. Adm. Code]</a></p>	<p>(1) <b>Pressure Drop: Maintain:</b> the pressure drop across the baghouse (C11) above 1 inch of water column gauge pressure or another range approved by the department in writing. <b>If:</b> the pressure drop across the baghouse is less than 1 inch of water column, <b>Then:</b> take appropriate investigative and corrective actions in accordance with the manufacturer’s recommendations. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a>  <b>Note:</b> Pressure drop less than the minimum above, when due to replacement of filter bags, is not a deviation and should not be reported on the semiannual deviation reports. After bag replacement, the pressure drop must return to at least the minimum within 14 equipment operating days, or corrective actions must be taken.</p> <p>(2) <b>Operate:</b> the baghouse (C11) <b>When:</b> the Safety Walk Maker (P44) is in operation. <a href="#">[s. NR 407.09(1)(a), Wis. Adm. Code]</a></p>	<p>(1) <b>Reference Test Method: Particulate Matter</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(1), Wis. Adm. Code]</a></p> <p>(2) <b>Record:</b> the pressure drop across the baghouse fabric filter collector (C11) <b>When:</b> once for every 8 hours of operation or once per day of operation, whichever yields the greater number of measurements. <a href="#">[s. NR 439.055(2)(b), Wis. Adm. Code]</a></p>
<p>2. PM10 Emissions</p>	<p>(1) <b>Limit:</b> PM10 emissions are limited to 0.15 pound per hour.<sup>20</sup> <a href="#">[s. 285.65(3), Wis. Stats. and ss. NR 404.08(2), Wis. Adm. Code]</a></p>	<p>(1) <b>Pressure Drop: Maintain:</b> the pressure drop across the baghouse (C11) above 1 inch of water column gauge pressure or another range approved by the department in writing. <b>If:</b> the pressure drop across the baghouse is less than 1 inch of water column, <b>Then:</b> take</p>	<p>(1) <b>Reference Test Method for PM10: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(1m), Wis. Adm. Code]</a></p>

<sup>19</sup> Based on current information, the most restrictive of these limits is the emission rate calculated from the process weight rate equation in s. NR 415.05(2), Wis. Adm. Code.

<sup>20</sup> The 0.15 pound per hour emission limit was established in operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS) for PM10.

**I.J. Process P44, Stack S34, Control Device C11 — Safety Walk Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. PM10 Emissions (continued)		<p>appropriate investigative and corrective actions in accordance with the manufacturer’s recommendations. [s. NR 407.09(4)(a)1., Wis. Adm. Code]  <b>Note:</b> Pressure drop less than the minimum above, when due to replacement of filter bags, is not a deviation and should not be reported on the semiannual deviation reports. After bag replacement, the pressure drop must return to at least the minimum within 14 equipment operating days, or corrective actions must be taken.</p> <p>(2) <b>Operate:</b> the baghouse (C11) <b>When:</b> the Safety Walk Maker (P44) is in operation. [s. NR 407.09(1)(a), Wis. Adm. Code]</p>	<p>(2) <b>Record:</b> the pressure drop across the baghouse fabric filter collector (C11) <b>When:</b> once for every 8 hours of operation or once per day of operation, whichever yields the greater number of measurements. [s. NR 439.055(2)(b), Wis. Adm. Code]</p>
3. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20 percent opacity. [ss. NR 431.05(1) and (2), Wis. Adm. Code and permit 06-POY-091]</p>	<p>(1) The compliance demonstration requirements in I.J.1.b. for particulate matter emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method: Visible Emissions If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The recordkeeping and monitoring requirements for particulate matter emissions in I.J.1.c.(2) also serve as the recordkeeping and monitoring requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]</p>

**I.K. Process P45, Stack S36, Control Device C06 — Mineral Handling Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Particulate Matter Emissions (Total Suspended Particulate Matter)</p>	<p>(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions are limited to the most restrictive of the following:<sup>21</sup>                      (a) 0.20 pounds per 1,000 pounds of gas <b>And</b>                      (b) <math>E = 3.59 (P)^{0.62}</math>                      where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour,  <a href="#">[ss. NR 415.05(1)(m) and NR 415.05(2), Wis. Adm. Code]</a></p>	<p>(1) <b>Pressure Drop: Maintain:</b> the pressure drop across the baghouse (C06) shall be maintained above 1 inch of water column gauge pressure or another range approved by the department in writing.  <b>If:</b> the pressure drop across the baghouse is less than 1 inch of water column,  <b>Then:</b> take appropriate investigative and corrective actions according to the manufacturer’s recommendations. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a>  <b>Note:</b> Pressure drop less than the minimum above, when due to replacement of filter bags, is not a deviation and should not be reported on the semiannual deviation reports. After bag replacement, the pressure drop must return to at least the minimum within 14 equipment operating days, or corrective actions must be taken.</p> <p>(2) <b>Operate:</b> the baghouse (C06) <b>When:</b> the Mineral Handling Area (P45) is in operation. <a href="#">[s. NR 407.09(1)(a), Wis. Adm. Code]</a></p>	<p>(1) <b>Reference Test Method: Particulate Matter</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(1), Wis. Adm. Code]</a></p> <p>(2) <b>Record:</b> the pressure drop across the baghouse fabric filter collector <b>When:</b> once for every 8 hours of operation or once per day of operation, whichever yields the greater number of measurements. <a href="#">[s. NR 439.055(2)(b), Wis. Adm. Code]</a></p>
<p>2. PM10 Emissions</p>	<p>(1) <b>Limit:</b> PM10 emissions are limited to 1.5 pounds per hour.<sup>22</sup> <a href="#">[s. 285.65(3), Wis. Stats. and s. NR 404.08(2), Wis. Adm. Code]</a></p>	<p>(1) <b>Pressure Drop: Maintain:</b> the pressure drop across the baghouse (C06) shall be maintained above 1 inch of water column gauge pressure or another range approved by the department in writing.  <b>If:</b> the pressure drop across the baghouse</p>	<p>(1) <b>Reference Test Method for PM10: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. <a href="#">[s. NR</a></p>

<sup>21</sup> Based on current information, the most restrictive of these limits is the emission rate calculated from the process weight rate equation in s. NR 415.05(2), Wis. Adm. Code.

<sup>22</sup> The particulate matter emission limit of 1.5 pounds per hour was established in operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS) for PM10.

**I.K. Process P45, Stack S36, Control Device C06 — Mineral Handling Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. PM10 Emissions (continued)		<p>is less than 1 inch of water column, <b>Then:</b> take appropriate investigative and corrective actions according to the manufacturer’s recommendations. [s. NR 407.09(4)(a)1., Wis. Adm. Code]  <b>Note:</b> Pressure drop less than the minimum above, when due to replacement of filter bags, is not a deviation and should not be reported on the semiannual deviation reports. After bag replacement, the pressure drop must return to at least the minimum within 14 equipment operating days, or corrective actions must be taken.</p> <p>(2) <b>Operate:</b> the baghouse (C06) <b>When:</b> the Mineral Handling Area (P45) is in operation. [s. NR 407.09(1)(a), Wis. Adm. Code]</p>	<p>439.06(1m), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> the pressure drop across the baghouse fabric filter collector <b>When:</b> once for every 8 hours of operation or once per day of operation, whichever yields the greater number of measurements. [s. NR 439.055(2)(b), Wis. Adm. Code]</p>
3. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20 percent opacity. [ss. NR 431.05, Wis. Adm. Code]</p>	<p>(1) The compliance demonstration requirements in I.K.1.b. for particulate matter emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>IF:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The recordkeeping and monitoring requirements for particulate matter emissions in I.K.1.c.(2) also serve as the recordkeeping and monitoring requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]</p>

**I.L. Process P50, Stack S42, Control Device C07 — Thinsulate Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Particulate Matter Emissions (Total Suspended Particulate Matter)</p>	<p>(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions are limited to the most restrictive of the following:<sup>23</sup>                      (a) 0.40 pounds per 1,000 pounds of gas <b>And</b>                      (b) <math>E = 3.59 (P)^{0.62}</math>                      where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour  <a href="#">[ss. NR 415.05(1)(o) and NR 415.05(2), Wis. Adm. Code]</a></p>	<p>(1) <b>Operate:</b> The permittee shall operate the Two Stage Roll Filter System (C07) when the Thinsulate Maker (P50) is operating. <a href="#">[s. NR 407.09(1)(a), Wis. Adm. Code]</a></p> <p>(2) <b>Pressure Drop: Maintain:</b> the pressure drop across the Two Stage Roll Filter System (C07) less than 1.0 inch of water column gauge pressure or another range approved by the department in writing. <b>If:</b> the pressure drop across the roll filter is greater than 1.0 inches of water column, <b>Then:</b> investigate and make the necessary repairs as soon as practical. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a></p>	<p>(1) <b>Reference Test Method: Particulate Matter</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(1), Wis. Adm. Code]</a></p> <p>(2) <b>Record:</b> record the pressure drop across the fabric roll filters collector <b>When:</b> once for every 8 hours of operation or once per day of operation, whichever yields the greater number of measurements. <a href="#">[s. NR 439.055(2)(b), Wis. Adm. Code]</a></p>
<p>2. Visible Emissions</p>	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20% opacity. <a href="#">[ss. NR 431.05(1) and (2), Wis. Adm. Code]</a></p>	<p>(1) The compliance demonstration requirements in I.L.1.b. for particulate matter emissions also serve as the compliance demonstration requirements for visible emissions. <a href="#">[s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</a></p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(9)(a)1., Wis. Adm. Code]</a></p> <p>(2) The recordkeeping and monitoring requirements for particulate matter emissions in I.L.1.c.(2) also serve as the recordkeeping and monitoring requirements for visible emissions. <a href="#">[ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]</a></p>

<sup>23</sup> Based on current information, the most restrictive of these limits is the emission rate calculated from the process weight rate equation in s. NR 415.05(2), Wis. Adm. Code.

**I.M. Process P52, Stack S46, Control Device C09 — Salt Bath Parts Cleaning**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions	<p>(1) <b>Limit:</b> Particulate matter emissions are limited to the most restrictive of the following:<sup>24</sup></p> <p>(a) 0.40 pounds per 1,000 pounds of gas <b>And</b></p> <p>(b) <math>E = 3.59 (P)^{0.62}</math></p> <p>where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour</p> <p>[ss. NR 415.05(1)(o) and NR 415.05(2), Wis. Adm. Code]</p>	<p>(1) <b>Pressure Drop: Maintain:</b> the pressure drop across the venturi Scrubber (C09) shall be at least 29 inches of water column gauge pressure or another pressure drop approved by the department in writing. [s. 285.65, Wis. Stats.]</p> <p>(2) <b>Organic Resins:</b> In any hour, the metal parts treated in the salt bath may not contain more than 12 pounds of organic resins. This condition has been voluntarily proposed by the permittee. [s. 285.65(7), Wis. Stats.]</p> <p>(3) <b>Measure:</b> the pressure drop across the venturi scrubber once per batch. [s. NR 439.055(5), Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method: Particulate Matter</b></p> <p><b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> each batch of parts before cleaning [s. 285.65(7), Wis. Stats.]</p> <p>(3) <b>Record:</b> the pressure drop across the venturi scrubber once per batch. [ss. NR 439.04(1)(a)1. and NR 439.055(5), Wis. Adm. Code]</p>
2. PM10 Emissions	<p>(1) <b>Limit:</b> PM10 emissions are limited to 1.0 pound per hour.<sup>25</sup> [s. 285.65(7), Wis. Stats. and s. NR 404.08(2), Wis. Adm. Code]</p>	<p>(1) <b>Pressure Drop: Maintain:</b> the pressure drop across the Venturi Scrubber (C09) shall be at least 29 inches of water column gauge pressure or another pressure drop approved by the department in writing. [s. 285.65, Wis. Stats.]</p> <p>(2) <b>Organic Resins:</b> In any hour, the metal parts treated in the salt bath may not contain more than 12 pounds of organic resins. This condition has been voluntarily proposed by the permittee. [s. 285.65(7), Wis. Stats.]</p>	<p>(1) <b>Reference Test Method for PM10: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> each batch of parts before cleaning. [s. 285.65(7), Wis. Stats.]</p> <p>(3) <b>Record:</b> the pressure drop across the venturi scrubber once per batch. [ss. NR 439.04(1)(a)1. and NR 439.055(5), Wis. Adm. Code]</p>

<sup>24</sup> Based on current information, the most restrictive of these limits is the emission rate calculated from the process weight rate equation in s. NR 415.05(2), Wis. Adm. Code.

<sup>25</sup> The particulate matter emission limit of 1.0 pound per hour was established in construction permit 91-POY-102 and operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS) for PM10.

**I.M. Process P52, Stack S46, Control Device C09 — Salt Bath Parts Cleaning**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. PM10 Emissions (continued)		(3) <b>Measure:</b> the pressure drop across the venturi scrubber once per batch. [s. NR 439.055(5), Wis. Adm. Code]	
3. Visible Emissions	(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20% opacity. [ss. NR 431.05(1) and (2), Wis. Adm. Code]	(1) The compliance demonstration requirements in I.M.1.b. for particulate matter emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)3.b., Wis. Adm. Code]	(1) <b>Reference Test Method: Visible Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]  (2) The recordkeeping and monitoring requirements for particulate matter emissions in I.M.1.c.(2) and (3) also serve as the recordkeeping requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]
4. Hydrogen Chloride Emissions	(1) <b>Limit:</b> Hydrogen chloride emissions are limited to 1.0 pound per hour. <sup>26</sup> [s. 285.65(7), Wis. Stats. and s. NR 445.08(2)(a), Wis. Adm. Code, permit 91-POY-102]	(1) <b>pH: Maintain:</b> the pH of the scrubber fluid shall be at least 6.5. [s. 285.65(7), Wis. Stats.]  (2) <b>Measure:</b> the pH of the scrubber fluid once per batch. [s. NR 439.055(5), Wis. Adm. Code]	(1) <b>Reference Test Method: Hydrogen Chloride Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the hydrogen chloride emissions limit, <b>Then:</b> use U.S. EPA Method 26 in 40 CFR Part 60, Appendix A <b>Or</b> another method approved by the department in writing. [s. NR 439.06(8), Wis. Adm. Code]  (2) <b>Record:</b> the pH of the scrubber fluid once per batch. [ss. NR 439.04(1)(a) and NR 439.055(5), Wis. Adm. Code]

<sup>26</sup> This limit was established in construction permit 91-POY-102 to ensure that hydrogen chloride emissions are less than the ch. NR 445, Wis. Adm. Code threshold.

**I.N. Process P54, Stack S54 — Belt Making Area**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>1. Volatile Organic Compound (VOC) Emissions</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions are limited to the Latest Available Control Techniques and Operating Practices (LACT). LACT has been determined to be the following:<sup>27</sup>                      (a) use low volatile organic compound containing raw material where possible <b>And</b>                      (b) volatile organic compound emissions are limited to 28 tons per year, summed over a rolling 12 month period.  <a href="#">[s. NR 424.03(2)(c), Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(2) <b>Limit:</b> The volatile organic compound emissions from adhesive and thinner use shall not exceed 2,000 pounds per day.<sup>28</sup> <a href="#">[s. 285.65(7), Wis. Stats., permit 92-RV-152]</a></p> <p>(3) <b>Limit:</b> The volatile organic compound emissions from this process shall not exceed 200 pounds per day,</p>	<p>(1) <b>Calculate:</b> the monthly volatile organic compound emissions by the last day of each month, for the preceding month according to the following:   <math display="block">X = (EF) * (Throughput) / (2,000 \text{ lb/ton})</math>                     where,  <b>X</b> = monthly volatile organic compound emissions (ton VOC/month)  <b>EF</b> = emission factor (lb VOC/gal coating, lb VOC/lb raw material, or equivalent) as determined by AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data,  <b>Throughput</b> = material throughput (gal/month or lb/month)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(2) <b>Calculate:</b> the total volatile organic compound emissions over a rolling 12 month period by summing the emissions of the current month with those of the preceding 11 months,  <b>When:</b> by the last day of the following month  <b>Using:</b> the following equation:</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(a), Wis. Adm. Code]</a></p> <p>(2) <b>Recordkeeping:</b> The facility shall keep records of the following:                      (a) emission factors from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the emission factor source, how the emission factors from compliance emission test data, monitoring data, or equipment manufacturer data were developed,                      (b) VOC content in each raw material from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the VOC content source, how the VOC content from compliance emission test data, monitoring data, or equipment manufacturer data was developed,                      (c) density of coating and coating density source, where applicable,                      (d) record daily throughput or other throughput data collected within each month that is used to determine the monthly raw material throughput,                      (e) monthly raw material throughput,</p>

<sup>27</sup> This LACT was established in construction permit 11-SJZ-179 and operation permit 612023940-P10.

<sup>28</sup> This limit was established in construction permit 92-RV-152 and revised in operation permit 612023940-P01.

**I.N. Process P54, Stack S54 — Belt Making Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Volatile Organic Compound Emissions (continued)	averaged over any rolling 12 month period. <sup>29</sup> [s. 285.65, Wis. Stats., s. NR 405.08, Wis. Adm. Code, permit 92-RV-152]	$E_{total} = \sum X_n$ <p>where,  <math>E_{total}</math> = tons of all VOC emitted in a rolling 12 month period (ton/yr)  <math>X_n</math> = tons of VOC emissions in a month as calculated in condition I.N.1.b.(1) (ton/month)                      [s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</p>	(f) the calculation of the VOC emissions, (g) the monthly volatile organic compound emissions, <b>And</b> (h) the total volatile organic compound emissions summed over each rolling 12 month period. [s. NR 439.04(1)(d), Wis. Adm. Code, permit 11-SJZ-179]
2. Visible Emissions	(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20% opacity. [ss. NR 431.05), Wis. Adm. Code]	(1) The compliance demonstration requirements in I.N.1.b. for volatile organic compound emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats.. s. NR 407.09(4)(a)3.b., Wis. Adm. Code]	(1) <b>Reference Test Method: Visible Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]  (2) The recordkeeping and monitoring requirements for volatile organic compound emissions in I.N.1.c.(2) also serve as the recordkeeping requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]

<sup>29</sup> This limit was established in construction permit 92-RV-152 to restrict VOC emissions to less than 40 tons per year and allow the installation of the Belt Making Area (P54) to be considered a minor modification to a major PSD source.

**I.O. Process P55, Stack S14, Control Device C01 — 24CC Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions shall be controlled by 85% overall. [s. NR 424.03(2)(b), Wis. Adm. Code, permit 98-POY-037]</p> <p>(2) <b>Limit:</b> Volatile organic compound emissions are limited to 39 tons per year, summed over a rolling 12 month period.<sup>30</sup> [s. 285.65(7), Wis. Stats., s. NR 405.08, Wis. Adm. Code, permits 98-POY-037 and 11-SJZ-179]</p>	<p>(1) <b>Compliance Emission Test:</b> conduct a compliance emission test every two years to determine volatile organic compound emissions. Each test shall be performed within 90 days of the anniversary date of the initial test (09/27/98). If the permittee cannot conduct the compliance emission test within this time frame, an extension to conduct the test may be requested. The compliance emission test shall consist of a destruction efficiency test of the thermal oxidizer and a capture efficiency test of the coating bay ventilation system. The permittee may request a waiver to not conduct a capture test by demonstrating that no changes have been made to the coating bay ventilation system, which would have reduced the overall capture of the ventilation system since the last capture test. [ss. NR 439.03 and NR 439.075, Wis. Adm. Code]</p> <p>(2) <b>Combustion Temperature:</b> The operating combustion temperature of the regenerative thermal oxidizer (C01) shall be at least 1,457 degrees Fahrenheit <b>Or</b> the operating temperature measured during the most recent stack test that demonstrated compliance <b>Based on:</b> an average over any 3-hour period. [s. NR 424.03(2)(b), Wis. Adm. Code, 40 CFR</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code]</p> <p>(2) <b>Report and Record:</b> any unplanned shut down of the thermal oxidizer (C01) serving the 24CC Maker (P55). <b>When:</b> before the end of the next business day. <b>Submit:</b> the report to Wisconsin Department of Natural Resources, La Crosse Area Service Center, 3550 Mormon Coulee Rd., La Crosse, WI 54601. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(3) <b>Monitor and Record:</b> The permittee shall monitor and record the operating temperature of the thermal oxidizer <b>When:</b> continuously [s. NR 439.055, Wis. Adm. Code, 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(9)(ii), 40 CFR 63.3410(a)(1)(ii)]</p> <p>(4) <b>Recordkeeping:</b> The facility shall keep records of the following:                      (a) emission factors from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the emission factor source, how the emission factors from compliance emission test data, monitoring data, or equipment manufacturer data were developed,</p>

<sup>30</sup> Volatile organic compound emissions are restricted to less than 40 tons per year to allow the installation of the 24CC Maker (P55) under construction permit 98-POY-037 to be considered a minor modification to a major PSD source.

**I.O. Process P55, Stack S14, Control Device C01 — 24CC Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions (continued)</p>		<p><a href="#">63.3321(a), 40 CFR Part 63 Table 1, permits 11-SJZ-179 and 612023940-P10]</a></p> <p>(3) <b>Calculate:</b> the monthly volatile organic compound emissions by the last day of each month, for the preceding month according to the following:</p> <p><b><math>X = (EF) * (Throughput) * (1 - Control Efficiency/100) / (2,000 \text{ lb/ton})</math></b></p> <p>where,  <b>X</b> = monthly volatile organic compound emissions (ton VOC/month)  <b>EF</b> = emission factor (lb VOC/gal coating, lb VOC/lb raw material, or equivalent) as determined by AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data,  <b>Throughput</b> = material throughput (gal/month or lb/month)  <b>Control Efficiency</b> = percent control of regenerative thermal oxidizer (C01) (percent)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(4) <b>Calculate:</b> the total volatile organic compound emissions over a rolling 12 month period by summing the emissions of the current month with those of the preceding 11 months,</p>	<p>(b) VOC content in each raw material from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the VOC content source, how the VOC content from compliance emission test data, monitoring data, or equipment manufacturer data was developed,  (c) density of coating and coating density source, where applicable,  (d) record daily throughput or other throughput data collected within each month that is used to determine the monthly raw material throughput,  (e) monthly raw material throughput,  (f) the control efficiency used, the control efficiency source, and how the control efficiency was determined,  (g) the calculation of the VOC emissions,  (h) the monthly volatile organic compound emissions, <b>And</b>  (i) the total volatile organic compound emissions summed over each rolling 12 month period.  <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code, permit 11-SJZ-179]</a></p>

**I.O. Process P55, Stack S14, Control Device C01 — 24CC Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Volatile Organic Compound (VOC) Emissions (continued)		<p><b>When:</b> by the last day of the following month  <b>Using:</b> the following equation:</p> $E_{\text{total}} = \Sigma X_n$ <p>where,  <math>E_{\text{total}}</math> = tons of volatile organic compound emissions emitted over a rolling 12 month period (ton/yr)  <math>X_n</math> = tons of volatile organic compound emissions in a month as calculated in condition I.O.1.b.(3) (ton/month)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(5) The permittee shall operate the regenerative thermal oxidizer (C01) according to the Paper and Other Web Coating Operations MACT standard requirements in Part I.Y. <a href="#">[s. 285.65(7), Wis. Stats., 40 CFR Part 63 Subpart JJJ]</a></p>	
2. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20% opacity. <a href="#">[s. NR 431.05, Wis. Adm. Code]</a></p>	<p>(1) <b>Fuel Type:</b> Only natural gas may be used as the auxiliary fuel in the thermal oxidizer. <a href="#">[s. 285.65(7), Wis. Stats.]</a></p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(9)(a)1., Wis. Adm. Code]</a></p>

**I.P. Process P56, Stacks S14, S240, S250, Control Device C01 — 25 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions-when using coatings containing no more than 0.5% VOC by weight-bypass thermal oxidizer (C01)</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions shall be controlled according to the Best Available Control Technology (BACT). BACT has been determined to be the following:<sup>31, 32</sup></p> <p>(a) Each coating used may not contain more than 0.5 percent VOC by weight <b>And</b></p> <p>(b) The oxidizer (C01) may be bypassed when coatings containing no more than 0.5 percent VOC by weight are used.</p> <p>[ss. NR 405.08, Wis. Adm. Code and NR 424.03(2)(b), Wis. Adm. Code, permit 06-POY-091]</p> <p>(2) <b>Bypass:</b> Volatile organic compound emissions from the 25 Maker (P56) may not bypass the thermal oxidizer C01 for more than 250 hours per month, averaged over any rolling 12 month period. [s. 285.65(7), Wis. Stats., s. NR 405.08, Wis. Adm. Code, permit 06-POY-091]</p>	<p>(1) <b>Retain:</b> retain on site the formulation of chemicals for each coating solutions used <b>When:</b> Maker 25 (P56) is operated using coatings containing no more than 0.5% VOC by weight and the thermal oxidizer (C01) was bypassed. This information shall show the VOC weight percent in each coating solutions applied. This information shall be made available to department staff upon request. To qualify any new low-VOC products, the facility shall conduct an approved analytical analysis to confirm that the actual VOC content is no greater than the 0.5% VOC by weight limit and confirm that the VOC emissions generated in the maker ovens will not be greater than the emissions generated from coatings containing no more than 0.5% by weight. [s. NR 439.04, Wis. Adm. Code, permits 11-SJZ-179 and 612023940-P10]</p> <p>(2) <b>Bypass:</b> In addition to periods of bypass of the thermal oxidizer allowed by I.P.1.a.(1) and (2), the 25 Maker (P56) may bypass the thermal oxidizer (C01) <b>When:</b> the maker is not applying coating solutions and when the oven does not contain any coated web only. [s. 285.65(7), Wis. Stats., permit 06-POY-</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code, permit 06-POY-091]</p> <p>(2) <b>Reference Test Method: Volatile Organic Compound Content</b>  <b>If:</b> the VOC content is requested by the department for purposes of determining compliance, <b>Then:</b> use U.S. EPA Method 24 or 24A in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.03(b), Wis. Adm. Code, permit 06-POY-091]</p> <p>(3) <b>Recordkeeping:</b> The permittee shall collect and record the following information for each day of operation:</p> <p>(a) The volatile organic compound content (% wt.) of each coating used and of each material added to a coating;</p> <p>(b) The mass of each coating used and each material added to a coating;</p> <p>(c) The start time when 25 Maker (P56) began using coatings containing no more than 0.5% VOC by weight;</p> <p>(d) The start time when 25 Maker (P56) began bypassing the</p>

<sup>31</sup> This BACT determination was established in construction permit 06-POY-091.

<sup>32</sup> The 25 Maker (P56) is also subject to the requirements in ch. NR 424, Wis. Adm. Code. This BACT requirement meets the requirements in s. NR 424.03(2)(b), Wis. Adm. Code.

**I.P. Process P56, Stacks S14, S240, S250, Control Device C01 — 25 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions-when using coatings containing no more than 0.5% VOC by weight-bypass thermal oxidizer (C01) (continued)</p>		<p>091]</p> <p>(3) <b>Calculate:</b> Based on the information collected in I.P.1.c.(3), the permittee shall calculate the hours when 25 Maker (P56) operated using coatings containing no more than 0.5% VOC by weight during which time the thermal oxidizer was bypassed, averaged over any 12 rolling months as follows: the sum of the hours of operation in the previous 12 rolling months divided by 12.</p> <p><b>Due:</b> by the last day of each month, for the preceding month [s. NR 439.04, Wis. Adm. Code, permit 06-POY-091]</p>	<p>thermal oxidizer (C01);</p> <p>(e) The end time when 25 Maker (P56) stopped using coatings containing no more than 0.5% VOC by weight;</p> <p>(f) The time when the 25 Maker (P56) exhaust was reconnected to the thermal oxidizer (C01); <b>And</b></p> <p>(g) The total hours that the thermal oxidizer (C01) was bypassed in each month, averaged over each 12 month period. [s. NR 439.04(1)(d), Wis. Adm. Code, permit 06-POY-091]</p>
<p>2. Volatile Organic Compound (VOC) Emissions-when using coatings containing more than 0.5% VOC by weight</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions shall be controlled according to the Best Available Control Technology (BACT). BACT has been determined to be controlling volatile organic compounds by 90% overall.<sup>33, 34</sup> [ss. NR 405.08, Wis. Adm. Code and NR 424.03(2)(b), Wis. Adm. Code, permit 06-POY-091]</p> <p>(2) <b>Limit:</b> The total input of volatile organic compounds</p>	<p>(1) <b>Operating Conditions:</b> To meet BACT, the permittee shall comply with the following:</p> <p>(a) The thermal oxidizer (C01), shall be used to control VOC emissions when the 25 Maker (P56) is in operation;</p> <p>(b) The thermal oxidizer system (C01) shall be operated at a temperature of at least 1,457 degrees Fahrenheit <b>Or</b> the operating temperature measured during the most recent stack test that demonstrated compliance based on an average over any 3-hour period;</p> <p>(c) Residence time of combustion gases in the thermal oxidizer system shall be at least 0.75 seconds;</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b></p> <p><b>If:</b> overall VOC control efficiency of the thermal oxidizer (C01) is requested by the department for purposes of determining compliance, <b>Then:</b> use</p> <p>(a) U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code to determine the destruction efficiency of the thermal oxidizer, <b>And</b></p> <p>(b) U.S. EPA Method 204, or 204F in 40 CFR Part 51, or the data quality objective method or lower confidence limit method in 40 CFR Part 63 Subpart KK, Appendix A to determine the capture efficiency of the thermal oxidizer, <b>Or</b></p> <p>(c) Another method approved by the department in writing. [s. NR 439.06(3)(a) and (am), Wis. Adm. Code, permit 06-POY-091]</p>

<sup>33</sup> This BACT determination was established in construction permit 01-POY-017 and was revised in construction permit 06-POY-091.

<sup>34</sup> The 25 Maker (P56) is also subject to the requirements in ch. NR 424, Wis. Adm. Code. This BACT requirement meets the requirements in s. NR 424.03(2)(b), Wis. Adm. Code.

**I.P. Process P56, Stacks S14, S240, S250, Control Device C01 — 25 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>2. Volatile Organic Compound Emissions-when using coatings containing more than 0.5% VOC by weight (continued)</p>	<p>to the 25 Maker (P56) may not exceed 82.5 tons per month, averaged over any rolling 12 month period. [s. 285.65(7), Wis. Stats., permit 01-POY-017]</p>	<p>(d) Coating usages may not exceed 177,642 gallons per month;                      (e) Monthly weighted average of VOC content in coatings may not exceed 6.5 pounds per gallon as applied;                      (f) Use of cleanup solvents may not exceed 10,000 gallons per month;                      (g) Monthly weighted average of VOC content of cleanup solvents may not exceed 9.0 pounds per gallon; <b>And</b>                      (h) The thermal oxidizer (C01) shall be used to control VOC emissions whenever cleanup solvents are used.                      [s. 285.65(7), Wis. Stats., ss. NR 405.08 and NR 424.03(2)(b), Wis. Adm. Code, 40 CFR 63.3321(a), 40 CFR Part 63 Table 1, permit 01-POY-017]</p> <p>(2) <b>Determine:</b> the residence time of the combustion gases during the compliance testing required in I.F.2.b.(1). [s. NR 439.04, Wis. Adm. Code, permit 06-POY-091]</p> <p>(3) <b>Bypass:</b> 25 Maker (P56) may bypass the thermal oxidizer (C01) <b>When:</b> the maker is not applying coating solutions and when the oven does not contain any coated web. [s. 285.65(7), Wis. Stats., permit 06-POY-091]</p> <p>(4) <b>Control:</b> The emissions from 25 Maker (P56) shall be controlled by the thermal oxidizer (C01) when the maker is processing cleanup solvents. [s.</p>	<p>(2) <b>Monitor and Record:</b> The permittee shall monitor and record the operating temperature of the thermal oxidizer <b>When:</b> continuously [s. NR 439.055, Wis. Adm. Code, 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(9)(ii), 40 CFR 63.3410(a)(1)(ii), permit 06-POY-091]</p> <p>(3) <b>Records:</b> The permittee shall keep daily record of the following:                      (a) The time that the operating scenario in I.P.2.b.(3) started;                      (b) The time that the 25 Maker (P56) started to bypass the oxidizer;                      (c) The time that the operating scenario in I.P.2.b.(3) ended;                      (d) The time that the 25 Maker (P56) exhaust is reconnected to the oxidizer.                      [s. NR 439.04(1)(d), Wis. Adm. Code, permit 06-POY-091]</p> <p>(4) <b>Records:</b> The permittee shall keep the following records daily:                      (a) the total volume of all coatings (as applied) used (gallons);                      (b) the weighted average of the volatile organic compound content for all coatings used as applied (lb/gal)                      (c) the total volume of all cleanup solvents used (gallon);                      (d) the weighted average of the volatile organic compound content for all cleanup solvents used (lb/gal); <b>And</b>                      (e) total input of volatile organic compounds to the 25 Maker (P56), averaged over each rolling 12 month period (ton/month).                      [s. NR 439.04(1)(d), Wis. Adm. Code]</p>

**I.P. Process P56, Stacks S14, S240, S250, Control Device C01 — 25 Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>2. Volatile Organic Compound Emissions-when using coatings containing more than 0.5% VOC by weight (continued)</p>		<p>285.65(7), Wis. Stats., permit 01-POY-017]</p> <p>(5) <b>Calculate:</b> the following by the last day of each month, for the preceding month:</p> <p>(a) total volume of coatings (as applied) used (gallons);</p> <p>(b) monthly weighted average of the volatile organic compound content for all coatings used as applied (lb/gal);</p> <p>(c) total volume of cleanup solvents used (gallons);</p> <p>(d) monthly weighted average of the volatile organic compound content for all cleanup solvents used (lb/gal); <b>And</b></p> <p>(e) total volatile organic compound input to the 25 Maker (P56) averaged over any rolling 12 month period (ton/month). [s. NR 407.09(1)(c)1.a., Wis. Adm. Code]</p> <p>(6) The permittee shall operate the regenerative thermal oxidizer (C01) according to the Paper and Other Web Coating Operations MACT standard requirements in Part I.Y. [s. 285.65(7), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]</p>	
<p>3. Visible Emissions</p>	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20% opacity. [ss. NR 431.05(1) and (2), Wis. Adm. Code, permit 06-POY-091]</p>	<p>(1) The compliance demonstration requirements in I.P.1.b. and I.P.2.b. for volatile organic compound emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats., s. NR 407.09(4)(a)3.b., Wis. Adm. Code, permit 06-POY-091]</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code, permit 06-POY-091]</p>

**I.P. Process P56, Stacks S14, S240, S250, Control Device C01 — 25 Maker**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
3. Visible Emissions (continued)		(2) <b>Fuel Type:</b> Only natural gas may be used as fuel in the thermal oxidizer. [s. 285.65(7), Wis. Stats., permit 06-POY-091]	(2) The recordkeeping and monitoring requirements for volatile organic compound emissions in I.P.1.c.(3) and I.P.2.c.(2), (3), and (4) also serve as the recordkeeping requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]

**I.Q. Process P63, Stack S63, Control Device C63 — Mineral Coating For 25 Maker Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions (Total Suspended Particulate)	<p>(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions are limited to the most restrictive of the following:<sup>35</sup></p> <p>(a) 0.20 pounds per 1,000 pounds of gas <b>And</b></p> <p>(b) <math>E = 3.59 (P)^{0.62}</math></p> <p>where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour</p> <p>[ss. NR 415.05(1)(m) and NR 415.05(2), Wis. Adm. Code]</p>	<p>(1) <b>Pressure Drop:</b> The pressure drop across the baghouse (C63) shall be maintained above 1.0 inch of water column gauge pressure or another range approved by the department in writing.</p> <p><b>If:</b> the pressure drop across the baghouse is less than 1.0 inch of water column,</p> <p><b>Then:</b> the permittee shall investigate and make the necessary repairs as soon practical. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p><b>Note:</b> Pressure drop less than the minimum above, when due to replacement of filter bags, is not a deviation and should not be reported on the semiannual deviation reports. After bag replacement, the pressure drop must return to at least the minimum within 14 equipment operating days, or corrective actions must be taken.</p>	<p>(1) <b>Reference Test Method: Particulate Matter</b></p> <p><b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter, <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> The permittee shall record the pressure drop across the baghouse fabric filter collector once for every 8 hours of operation or once per day of operation, whichever yields the greater number of measurements. [s. NR 439.055(2)(b), Wis. Adm. Code]</p>
2. PM10 Emissions	<p>(1) <b>Limit:</b> PM10 emissions are limited to 0.4 pound per hour.<sup>36</sup> [s. 285.65(3), Wis. Stats. and s. NR 404.08(2), Wis. Adm. Code]</p>	<p>(1) <b>Pressure Drop:</b> The pressure drop across the baghouse (C63) shall be maintained above 1.0 inch of water column gauge pressure or another range approved by the department in writing.</p> <p><b>If:</b> the pressure drop across the baghouse is less than 1.0 inch of water column,</p> <p><b>Then:</b> the permittee shall investigate and make the necessary repairs as soon practical. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method for PM10:</b> <b>If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> The permittee shall record the pressure drop across the baghouse fabric filter collector once for every 8 hours of operation or once per day of operation, whichever</p>

<sup>35</sup> Based on current information, the most restrictive of these limits is the emission rate calculated from the process weight rate equation in s. NR 415.05(2), Wis. Adm. Code.

<sup>36</sup> The particulate matter emission limit of 0.4 pound per hour was established in operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS).

**I.Q. Process P63, Stack S63, Control Device C63 — Mineral Coating For 25 Maker Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. PM10 Emissions (continued)		<p><b>Note:</b> Pressure drop less than the minimum above, when due to replacement of filter bags, is not a deviation and should not be reported on the semiannual deviation reports. After bag replacement, the pressure drop must return to at least the minimum within 14 equipment operating days, or corrective actions must be taken.</p>	<p>yields the greater number of measurements. [s. NR 439.055(2)(b), Wis. Adm. Code]</p>
3. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20% opacity. [ss. NR 431.05(1) and (2), Wis. Adm. Code]</p>	<p>(1) The compliance demonstration requirements in I.Q.1.b.(1) for particulate matter emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The recordkeeping requirements for particulate matter emissions in I.Q.1.c.(2) also serve as the recordkeeping requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]</p>

**I.R. Process P64, Stack S44, Control Device C04 — Mineral Coating For 21 Maker Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions (Total Suspended Particulate)	<p>(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions are limited to the most restrictive of the following:<sup>37</sup></p> <p>(a) 0.20 pounds per 1,000 pounds of gas <b>And</b></p> <p>(b) <math>E = 3.59 (P)^{0.62}</math></p> <p>where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour</p> <p>[ss. NR 415.05(1)(m) and NR 415.05(2), Wis. Adm. Code]</p>	<p>(1) <b>Pressure Drop:</b> The pressure drop across the baghouse (C04) shall be maintained above 1.0 inch of water column gauge pressure or another range approved by the department in writing.</p> <p><b>If:</b> the pressure drop across the baghouse is less than 1.0 inch of water column,</p> <p><b>Then:</b> the permittee shall investigate and make the necessary repairs as soon practical. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p><b>Note:</b> Pressure drop less than the minimum above, when due to replacement of filter bags, is not a deviation and should not be reported on the semiannual deviation reports. After bag replacement, the pressure drop must return to at least the minimum within 14 equipment operating days, or corrective actions must be taken.</p>	<p>(1) <b>Reference Test Method: Particulate Matter</b></p> <p><b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter, <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> The permittee shall record the pressure drop across the baghouse fabric filter collector once for every 8 hours of operation or once per day of operation, whichever yields the greater number of measurements. [s. NR 439.055(2)(b), Wis. Adm. Code]</p>
2. PM10 Emissions	<p>(1) <b>Limit:</b> PM10 emissions are limited to 0.4 pound per hour.<sup>38</sup> [s. 285.65(3), Wis. Stats. and s. NR 404.08(2), Wis. Adm. Code]</p>	<p>(1) <b>Pressure Drop:</b> The pressure drop across the baghouse (C04) shall be maintained above 1.0 inch of water column gauge pressure or another range approved by the department in writing.</p> <p><b>If:</b> the pressure drop across the baghouse is less than 1.0 inch of water column,</p> <p><b>Then:</b> the permittee shall investigate and make the necessary repairs as soon practical. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method for PM10:</b> <b>If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> The permittee shall record the pressure drop across the baghouse fabric filter collector once for every 8 hours of operation or once per day of operation, whichever</p>

<sup>37</sup> Based on current information, the most restrictive of these limits is the emission rate calculated from the process weight rate equation in s. NR 415.05(2), Wis. Adm. Code.

<sup>38</sup> The particulate matter emission limit of 0.4 pound per hour was established in operation permit 612023940-P01 to satisfy the National Ambient Air Quality Standard (NAAQS).

**I.R. Process P64, Stack S44, Control Device C04 — Mineral Coating For 21 Maker Area**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. PM10 Emissions (continued)		<p><b>Note:</b> Pressure drop less than the minimum above, when due to replacement of filter bags, is not a deviation and should not be reported on the semiannual deviation reports. After bag replacement, the pressure drop must return to at least the minimum within 14 equipment operating days, or corrective actions must be taken.</p>	<p>yields the greater number of measurements. [s. NR 439.055(2)(b), Wis. Adm. Code]</p>
3. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringlemann chart or 20% opacity. [ss. NR 431.05(1) and (2), Wis. Adm. Code]</p>	<p>(1) The compliance demonstration requirements in I.R.1.b.(1) for particulate matter emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The recordkeeping requirements for particulate matter emissions in I.R.1.c.(2) also serve as the recordkeeping requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]</p>

**I.S. Process P65, Stacks S45, S45A, S46B, S46C — 26 Maker**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>1. General Conditions</p>	<p>(1) <b>Limit:</b> No person may cause, allow or permit emissions of carbon monoxide to the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. [s. NR 426.03, Wis. Adm. Code]</p> <p>(2) <b>Limit:</b> No person may cause, allow or permit nitrogen oxides or nitrogen compounds to be emitted to the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. [s. NR 428.03, Wis. Adm. Code]</p>	<p>None applicable.</p>	<p>(1) <b>Record:</b> The facility shall keep records to show that the coatings used in the 26 Maker (P65) do not contain 1.0 percent by mass or more of organic hazardous air pollutants. [s. 285.65(13), Wis. Stats., 40 CFR 63.4281(c)(1), 40 CFR 63.4371]</p>

**I.T. Process P66, Stack S49 — Foam Making**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. General Conditions	(1) This process is subject to the general requirements for hazardous air contaminant emissions outlined in s. NR 445.03, Wis. Adm. Code. These general requirements are included in Part II of this permit. [s. NR 445.03, Wis. Adm. Code]	None applicable.	None applicable.
2. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Flexible Polyurethane Foam Production in 40 CFR Part 63 Subpart III (63.3280-63.3420)	(1) <b>Limit:</b> (a) A hazardous air pollutant (HAP) or hazardous air pollutant-based material <sup>39</sup> shall not be used as an equipment cleaner to flush the mixhead, nor shall it be used elsewhere as an equipment cleaner in a molded flexible polyurethane foam process, with the following exception. Diisocyanates may be used to flush the mixhead and associated piping during periods of startup or maintenance, provided that the diisocyanate compounds are contained in a closed-loop system and are re-used in production. <b>And</b> (b) A hazardous air pollutant	(1) The recordkeeping requirements in Part I.T.2.c.(1) and (2) serve as the compliance demonstration requirements. [s. 285.65(13), Wis. Stats., 40 CFR 63.1308(a)(1), 40 CFR Part 63 Subpart III Table 5]  (2) <b>General Provisions:</b> The permittee shall comply with the applicable General Provisions in 40 CFR ss. 63.1 through 63.15 as outlined in Table 2 of 40 CFR, Part 63, Subpart III, where applicable. [s. 285.65(13), Wis. Stats., 40 CFR 63.1302]	(1) <b>Records:</b> The permittee shall maintain a product data sheet for each compound other than diisocyanates used to flush the mixhead and associated piping during periods of startup or maintenance, which includes the HAP content, in kg of HAP/kg solids (lb HAP/lb solids), of each solvent other than diisocyanates used to flush the mixhead and associated piping during periods of startup or maintenance. [s. 285.65(13), Wis. Stats., 40 CFR 63.1307(g)]  (2) <b>Records:</b> The permittee shall maintain a product data sheet for each mold release agent used that includes the HAP content, in kg of HAP/kg solids (lb HAP/lb solids), of each mold release agent. [s. 285.65(13), Wis. Stats., 40 CFR 63.1307(h)]  (3) <b>Report:</b> Annual Compliance Certifications <b>Due:</b> submit as part of the annual certification of compliance report required in I.ZZZ.2.b.(2) <b>Reporting Period:</b> same as the annual certification of compliance report <b>Content:</b> information satisfying the compliance demonstration requirements in Part I.T.2.c.(1) and (2)

<sup>39</sup> Hazardous air pollutant-based means to contain 5 percent (by weight) or more of HAP, per 40 CFR 63.1292. This applies to equipment cleaners (and mixhead flushes) and mold release agents. The concentration of HAP may be determined using EPA test method 18, Material Safety data Sheets (MSDS), Safety Data Sheets (SDS), or engineering calculations.

**I.T. Process P66, Stack S49 — Foam Making**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
2. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Flexible Polyurethane Foam Production in 40 CFR Part 63 Subpart III (63.3280-63.3420) (continued)	-based mold release agent shall not be used in a molded flexible polyurethane foam source process. <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.1300(a) and (b)]</a>		<a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.1306(g)]</a>

**I.U. Process P68, Stack S68 — Sanding Cloth Line**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions</p>	<p>(1) <b>Limit:</b> Volatile organic compound emissions are limited to the Latest Available Control Techniques and Operating Practices (LACT). LACT has been determined to be the following:                      (a) use low volatile organic compound containing raw material where possible <b>And</b>                      (b) volatile organic compound emissions are limited to 11 tons per year, summed over a rolling 12 month period.  <a href="#">[s. NR 424.03(2)(c), Wis. Adm. Code, permit 11-SJZ-179]</a></p>	<p>(1) <b>Calculate:</b> the monthly volatile organic compound emissions by the last day of each month, for the preceding month according to the following:  <math display="block">X = (EF) * (Throughput) / (2,000 \text{ lb/ton})</math>                     where,  <b>X</b> = monthly volatile organic compound emissions (ton VOC/month)  <b>EF</b> = emission factor (lb VOC/gal coating, lb VOC/lb raw material, or equivalent) as determined by AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data,  <b>Throughput</b> = material throughput (gal/month or lb/month)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(2) <b>Calculate:</b> the total volatile organic compound emissions over a rolling 12 month period by summing the emissions of the current month with those of the preceding 11 months,  <b>When:</b> by the last day of the following month  <b>Using:</b> the following equation:  <math display="block">E_{\text{total}} = \sum X_n</math></p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(a), Wis. Adm. Code]</a></p> <p>(2) <b>Recordkeeping:</b> The facility shall keep records of the following:                      (a) emission factors from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the emission factor source, how the emission factors from compliance emission test data, monitoring data, or equipment manufacturer data were developed,                      (b) VOC content in each raw material from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the VOC content source, how the VOC content from compliance emission test data, monitoring data, or equipment manufacturer data was developed,                      (c) density of coating and coating density source, where applicable,                      (d) record daily throughput or other throughput data collected within each month that is used to determine the monthly raw material throughput,                      (e) monthly raw material throughput,                      (f) the calculation of the VOC emissions,                      (g) the monthly volatile organic compound emissions, <b>And</b>                      (h) the total volatile organic compound emissions summed over</p>

**I.U. Process P68, Stack S68 — Sanding Cloth Line**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Volatile Organic Compound (VOC) Emissions (continued)		where, $E_{total}$ = tons of all VOC emitted in a rolling 12 month period (ton/yr) $X_n$ = tons of VOC emissions in a month as calculated in condition I.U.1.b.(1) (ton/month) <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a>	each rolling 12 month period. <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code, permit 11-SJZ-179]</a>
2. Visible Emissions	(1) <b>Limit:</b> Visible emissions are limited to a number 1 of the Ringlemann chart or 20% opacity. <a href="#">[s. NR 431.05, Wis. Adm. Code]</a>	(1) The compliance demonstration requirements in I.U.1.b. for volatile organic compound emissions also serve as the compliance demonstration requirements for visible emissions. <a href="#">[s. 285.65(7), Wis. Stats.. s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</a>	(1) <b>Reference Test Method: Visible Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(9)(a)1., Wis. Adm. Code]</a>  (2) The recordkeeping and monitoring requirements for volatile organic compound emissions in I.U.1.c.(2) also serve as the recordkeeping requirements for visible emissions. <a href="#">[ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]</a>

**I.V. Process P69, Stack S69, Control Device C69 — Thinsulate Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions	<p>(1) <b>Limit:</b> Particulate matter emissions are limited to the most restrictive of the following:<sup>40</sup></p> <p>(a) 0.40 pounds per 1,000 pounds of gas,</p> <p>(b) <math>E = 3.59 (P)^{0.62}</math> where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour</p> <p>[s. 285.65(3), Wis. Stats., ss. NR 415.05(1)(o) and NR 415.05(2), Wis. Adm. Code]</p>	<p>(1) <b>Operate:</b> The permittee shall operate the two roll filters and one cartridge filter (C69) when the Thinsulate Maker (P69) is operating. [s. NR 407.09(1)(a), Wis. Adm. Code]</p> <p>(2) <b>Pressure Drop: Maintain:</b> the pressure drop across the roll filters of less than 1.0 inch of water column gauge pressure or another range approved by the department in writing. <b>If:</b> the pressure drop across the roll filter is greater than 1.0 inch of water column, <b>Then:</b> investigate and make the necessary repairs as soon as practical. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(3) <b>Air Resistance: Maintain:</b> the air resistance of the cartridge filter between 0.15 and 1.8 inches of water gauge (in. w.g.) or another range approved by the department in writing. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method: Particulate Matter</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5 for non-condensable particulate matter <b>And</b> U.S. EPA Method 202 for condensable particulate matter <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> record the pressure drop across the roll filters and the air resistance of the cartridge filters <b>When:</b> once for every 8 hours of operation or once per day of operation, whichever yields the greater number of measurements. [s. NR 439.055(2)(b), Wis. Adm. Code]</p>
2. Visible Emissions	<p>(1) <b>Limit:</b> Visible emissions are limited to number 1 of the Ringelmann chart or 20% opacity. [ss. NR 431.05(1) and (2), Wis. Adm. Code]</p>	<p>(1) The compliance demonstration requirements in I.V.1.b. for particulate matter emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats. and s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The recordkeeping and monitoring requirements for particulate matter emissions in I.V.1.c.(2) also serve as the</p>

<sup>40</sup> Based on current information, the most restrictive of these limits is 3.36 pound per hour of particulate matter, calculated from the process weight rate equation ( $E = 3.59*(P^{0.62})$ ).

**I.V. Process P69, Stack S69, Control Device C69 — Thinsulate Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. Visible Emissions (continued)			recordkeeping and monitoring requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]
3. Volatile Organic Compound (VOC) Emissions	<p>(1) <b>Limit:</b> Volatile organic compound emissions are limited to the Latest Available Control Techniques and Operating Practices (LACT). LACT has been determined to be the following:<sup>41</sup></p> <p>(a) use low volatile organic compound containing raw material where possible <b>And</b></p> <p>(b) volatile organic compound emissions are limited to 3.6 tons per year, summed over a rolling 12 month period. [s. NR 424.03(2)(c), Wis. Adm. Code]</p>	<p>(1) <b>Calculate:</b> the monthly volatile organic compound emissions by the last day of each month, for the preceding month according to the following:</p> $X = (EF) * (Throughput) / (2,000 \text{ lb/ton})$ <p>where,</p> <p><b>X</b> = monthly volatile organic compound emissions (ton VOC/month)</p> <p><b>EF</b> = emission factor (lb VOC/gal coating, lb VOC/lb raw material, or equivalent) as determined by AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, equipment manufacturer data,</p> <p><b>Throughput</b> = material throughput (gal/month or lb/month) [s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</p> <p>(2) <b>Calculate:</b> the total volatile organic compound emissions over a rolling 12 month period by summing the emissions of the current month with those of the preceding 11 months,</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code]</p> <p>(2) <b>Recordkeeping:</b> The facility shall keep records of the following:</p> <p>(a) emission factors from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the emission factor source, how the emission factors from compliance emission test data, monitoring data, or equipment manufacturer data were developed,</p> <p>(b) VOC content in each raw material from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the VOC content source, how the VOC content from compliance emission test data, monitoring data, or equipment manufacturer data was developed,</p> <p>(c) density of coating and coating density source, where applicable,</p> <p>(d) record daily throughput or other throughput data collected</p>

<sup>41</sup> This LACT was established in construction permit 11-SJZ-179 and operation permit 612023940-P10.

**I.V. Process P69, Stack S69, Control Device C69 — Thinsulate Maker**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
3. Volatile Organic Compound Emissions (continued)		<p><b>When:</b> by the last day of the following month  <b>Using:</b> the following equation:</p> $E_{\text{total}} = \Sigma X_n$ <p>where,  <math>E_{\text{total}}</math> = tons of all VOC emitted in a rolling 12 month period (ton/yr)  <math>X_n</math> = tons of VOC emissions in a month as calculated in condition I.V.3.b.(1) (ton/month)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p>	<p>within each month that is used to determine the monthly raw material throughput,                      (e) monthly raw material throughput,                      (f) the calculation of the VOC emissions,                      (g) the monthly volatile organic compound emissions, <b>And</b>                      (h) the total volatile organic compound emissions summed over each rolling 12 month period.  <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code, permit 11-SJZ-179]</a></p>

**I.W. Process P270, Stack S270 — Post Cure Oven**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>1. Volatile Organic Compound Emissions</p>	<p>(1) <b>Limit:</b> The Post Cure Oven (P270) may only treat products that have been processed by the Columbia Press (P40). [s. 285.65(7), Wis. Stats., permit 06-POY-091]</p>	<p>(1) <b>Specify:</b> in the facility’s Operating Standard document that only material processed by the Columbia Press (P40) may be cured in Post Cure Oven (P270). In addition, a permanent label shall be put on the equipment stating that only material from the Columbia Press (P40) may be placed in it. [s. 285.65(7), Wis. Stats., permit 06-POY-091]</p> <p>(2) <b>Energy Type:</b> Only electricity may be used to supply energy to this post cure oven. [s. 285.65(7), Wis. Stats., permit 06-POY-091]</p> <p>(3) <b>Operation:</b> <b>If:</b> operating in accordance with 1.W.1.a.(1), <b>Then:</b> Post Cure Oven (P270) may be operated without venting the exhaust to the regenerative thermal oxidizer (C01). [s. 285.65(7), Wis. Stats., permit 06-POY-091]</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code, permit 06-POY-091]</p> <p>(2) <b>Labeling:</b> The Post Cure Oven (P270) shall contain a label identifying the oven and be visible to all personal. [s. 285.65(7), Wis. Stats., permit 06-POY-091]</p>
<p>2. Visible Emissions</p>	<p>(1) <b>Limit:</b> Visible emissions are limited to a number 1 of the Ringlemann chart or 20% opacity. [s. NR 431.05, Wis. Adm. Code, permit 06-POY-091]</p>	<p>(1) The compliance demonstration requirements in I.W.1.b.(1) and (2) for volatile organic compound emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats.. s. NR 407.09(4)(a)3.b., Wis. Adm. Code, permit 06-POY-091]</p>	<p>(1) <b>Reference Test Method: Visible Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code, permit 06-POY-091]</p>

**I.X. Process P271, Stack S271 — 285 kW Emergency Diesel Generator**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. General Operation	(1) <b>Limit:</b> The emergency generator <sup>42</sup> may be operated for no more than 200 hours per year. <sup>43</sup> [s. NR 400.02(56), Wis. Adm. Code]	(1) The recordkeeping requirement in I.X.1.c.(1) serves as the compliance demonstration requirement. [s. 285.65(7), Wis. Stats.]	(1) <b>Records:</b> The permittee shall keep records of when the emergency generator is operated. These records shall include: (a) Date of operation; (b) Start-up time of the generator; (c) Shut-down time of the generator; and (d) The hours of operation of the generator. [s. NR 439.04(1)(d), Wis. Adm. Code]  (2) When the generators are operating, the permittee shall maintain records of the hours of operation per year to ensure that the generator never exceeds 200 hours of operation per year. [ss. 285.65(3) and 285.63(1)(a), Wis. Stats.]
2. National Emission Standard For Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) For Stationary Reciprocating Internal Combustion Engines (RICE) <sup>44</sup> in 40	(1) <b>Work Practice Limits:</b> No later than May 3, 2013, the permittee shall do the following: (a) <b>Change oil and filter:</b> every 500 hours of operation or annually, whichever comes first <b>Or</b> utilize an oil analysis program as described in I.X.2.a.(2) in order to extend the hours of each specified oil change. (b) <b>Inspect:</b> air cleaner every 1,000 hours of operation or annually, whichever comes first;	(1) <b>Operation and Maintenance:</b> The permittee shall operate and maintain the Emergency Diesel Generator (P271) according to the following: (a) <b>Operate and maintain:</b> Emergency Diesel Generator (P271) and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or <b>Develop:</b> a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The maintenance plan must also include the oil analysis requirements. [s. 285.65(13),	(1) <b>Records:</b> The permittee shall keep the following records: (a) copy of each notification and report submitted, [s. 285.65(13), Wis. Stats., 40 CFR 63.6655(a)(1)] (b) the occurrences and durations of each malfunction (i.e., process equipment) or the air pollution control and monitoring equipment, [s. 285.65(13), Wis. Stats., 40 CFR 63.6655(a)(2)] (c) actions taken during periods of a malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation, [s. 285.65(13), Wis. Stats., 40 CFR 63.6655(a)(5)] (d) records indicating that the Emergency Diesel Generator (P271) is operated and maintained according to the manufacturer's emission-related operation and maintenance instructions <b>Or</b> records of the maintenance plan indicating that the engine is maintained and operated in a manner consistent

<sup>42</sup> Emergency Electric Generators are defined in s. NR 400.02(56), Wis. Adm. Code which includes operation of no more than 200 hours per year.

<sup>43</sup> The 200 hours of operation includes testing, emergency situations, and any other use approved by the department. If the diesel generator exceeds 200 hours of operation per year, construction permit review will be required.

<sup>44</sup> According to 40 CFR 63.6585(a), a stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

**I.X. Process P271, Stack S271 — 285 kW Emergency Diesel Generator**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>CFR Part 63 Subpart ZZZZ (63.6580-63.6675)</p>	<p>(c) <b>Inspect:</b> all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [s. 285.65(13), Wis. Stats., 40 CFR 63.6602, 40 CFR Part 63 Subpart ZZZZ Table 2c(1)]</p> <p>(2) <b>Oil Analysis:</b> The permittee may utilize an oil analysis program in order to extend the specified oil change requirement in I.X.2.a.(1)(a). The oil analysis must be performed at the same frequency specified for changing the oil. <b>Analyze:</b> At a minimum, analyze the following three parameters:</p> <ul style="list-style-type: none"> <li>(i) Total Base Number,</li> <li>(ii) viscosity, <b>And</b></li> <li>(iii) percent water content.</li> </ul> <p><b>Condemning Limits:</b> The condemning limits for these parameters are as follows:</p> <ul style="list-style-type: none"> <li>(i) Total Base Number is less than 30 percent of the Total Base Number of the oil when new;</li> <li>(ii) viscosity of the oil has changed by more than 20 percent from the viscosity</li> </ul>	<p>Wis. Stats., 40 CFR 63.6625(e), 40 CFR 63.6625(i)</p> <p>(b) <b>Install:</b> a non-resettable hour meter if one is not already installed. [s. 285.65(13), Wis. Stats., 40 CFR 63.6625(f)]</p> <p>(c) <b>Minimize:</b> the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes after which time the non-startup emission limitations apply. [s. 285.65(13), Wis. Stats., 40 CFR 63.6602, 40 CFR Part 63 Subpart ZZZZ Table 2c(1), 40 CFR 63.6625(h)]</p> <p>(2) <b>Operating Periods:</b> The permittee shall operate the Emergency Diesel Generator (P271) according to the following:</p> <ul style="list-style-type: none"> <li>(a) There is no time limit on the use of emergency stationary RICE in emergency situations.</li> <li>(b) The permittee may operate Emergency Diesel Generator (P271) for any combination of the purposes specified in I.X.2.b.(2)(b)(i), (ii), and (iii) below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed under I.X.2.b.(2)(c) and (d) below count as part of the 100 hours per calendar year. <ul style="list-style-type: none"> <li>(i) Emergency Diesel Generator (P271) may be operated for</li> </ul> </li> </ul>	<p>with good air pollution control practice for minimizing emissions, [s. 285.65(13), Wis. Stats., 40 CFR 63.6655(d), 40 CFR Part 63 Subpart ZZZZ Table 6(9)]</p> <p>(e) any maintenance conducted on Emergency Diesel Generator (P271) and after-treatment control device (if any) to demonstrate that the generator and any control device were operated and maintained according to the maintenance plan, [s. 285.65(13), Wis. Stats., 40 CFR 63.6655(e)]</p> <p>(f) hours of operation during emergency and non-emergency periods that are recorded using a non-resettable hour meter indicating how many hours are spent for emergency operation, what classified the operation as emergency, and how many hours are spent for non-emergency operation. If the engine is used for demand response operation, the permittee must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [s. 285.65(13), Wis. Stats., 40 CFR 63.6655(f)] <b>And</b></p> <p>(g) the parameters that are analyzed in the oil analysis, the results of the analysis, and the oil changes for the engine. [s. 285.65(13), Wis. Stats., 40 CFR 63.6625(i)]</p> <p>(2) <b>Report:</b> The permittee shall report all deviations from the requirements in this section (I.X.) in the semi-annual Title V Periodic Monitoring Report as required in I.ZZZ.2.b.(1). [s. 285.65(13), Wis. Stats., 40 CFR 63.6640(b), 40 CFR 63.6650(f)]</p> <p>(3) The permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record and keep the records available upon request. [s. 285.65(13), Wis. Stats., 40 CFR 63.6660(a), (b), and (c)]</p>

**I.X. Process P271, Stack S271 — 285 kW Emergency Diesel Generator**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>2. National Emission Standard For Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) For Stationary Reciprocating Internal Combustion Engines (RICE) in 40 CFR Part 63 Subpart ZZZZ (63.6580-63.6675) (continued)</p>	<p>of the oil when new; <b>Or</b> (iii) percent water content (by volume) is greater than 0.5.</p> <p>If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 days or before commencing operation, whichever is later. The permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.</p> <p>[s. 285.65(13), Wis. Stats., 40 CFR 63.6625(i)]</p> <p>(3) The permittee must operate and maintain Emergency Diesel Generator (P271), including associated</p>	<p>maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.</p> <p>(ii) Emergency Diesel Generator (P271) may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.</p> <p>(iii) Emergency Diesel Generator</p>	

**I.X. Process P271, Stack S271 — 285 kW Emergency Diesel Generator**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>2. National Emission Standard For Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) For Stationary Reciprocating Internal Combustion Engines (RICE) in 40 CFR Part 63 Subpart ZZZZ (63.6580-63.6675) (continued)</p>	<p>air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [s. 285.65(13), Wis. Stats., 40 CFR s. 63.6605(b)]</p>	<p>(P271) may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. [s. 285.65(13), Wis. Stats., 40 CFR 63.6640(f)(2)(i), (ii), and (iii)]</p> <p>(c) Emergency Diesel Generator (P271) may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in I.X.2.b.(2)(b) above. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [s. 285.65(13), Wis. Stats., 40 CFR 63.6640(f)(3)]</p> <p>(3) <b>General Provisions:</b> The permittee shall comply with the applicable General Provisions in 40 CFR ss. 63.1 through 63.15 as outlined in Table 8 of 40 CFR, Part 63, Subpart ZZZZ, where applicable. [s. 285.65(13), Wis. Stats., 40 CFR 63.6665]</p>	

**I.Y. This section includes the National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following processes:**

- Process P07, Stack S09 — Abrasive Sponge Coating Process**
- Process P30, Stack S14, Control Device C01 — 22 Maker**
- Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker**
- Process P32, Stack S16, Control Device C03 — Coiled Web Maker**
- Process P44, Stack S34, Control Device C11 — Safety Walk Maker**
- Process P55, Stack S14, Control Device C01 — 24CC Maker**
- Process P56, Stacks S14, S230, S240, Control Devices C01 — 25 Maker**
- Process P67, Stacks S47, S48, Control Device C21 — 27 Maker**
- Process P68, Stack S68 — Sanding Cloth Line**
- Process I1 — General Purpose Bun Coater**
- Process I2 — 2A Fiber Line**
- Process I3 — General Purpose Polyurethane Foam Process (Slab Press)**
- Process I4 — Roloc Semi-Automated and Manual Disc Assembly**
- Process I5 — Rotopeen Line**

The Prairie du Chien plant is an existing affected source under 40 CFR Part 63 Subpart JJJJ (Paper and Other Web Coating Operations [POWC]). The affected source is the collection of the following web coating lines.

- Process P30, Stack S14, Control Device C01 — 22 Maker
- Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker
- Process P32, Stack S16, Control Device C03 — Coiled Web Maker
- Process P44, Stack S34, Control Device C11 — Safety Walk Maker
- Process P56, Stacks S14, S230, S240, Control Devices C01 — 25 Maker
- Process P67, Stacks S47, S48, Control Device C21 — 27 Maker
- Process P68, Stack S68 — Sanding Cloth Line
- Process I1 — General Purpose Bun Coater
- Process I2 — 2A Fiber Line

The Prairie du Chien plant is also an existing affected source under the Surface Coating of Miscellaneous Metal Parts and Products MACT in 40 CFR Part 63 Subpart MMMM (63.3880-63.3981) and Surface Coating of Plastic Parts and Products MACT in 40 CFR Part 63 Subpart PPPP. The Surface Coating of Miscellaneous Metal Parts and Products MACT MMMM affected source consists of the collection of the following processes, including associated containers, mixing vessels, and other equipment items according 40 CFR 63.3882(b):

- Process I4 — Roloc Semi-Automated and Manual Disc Assembly

The Surface Coating of Plastic Parts and Products MACT PPPP affected source consists of the collection of the following processes, including associated containers, mixing vessels, and other equipment items according 40 CFR 63.4482(b):

Process P07, Stack S09 — Abrasive Sponge Coating Process  
Process P55, Stack S14, Control Device C01 — 24CC Maker  
Process I3 — General Purpose Polyurethane Foam Process (Slab Press)  
Process I4 — Roloc Semi-Automated and Manual Disc Assembly  
Process I5 — Rotopeen Line

According to 40 CFR 63.3881(e)(2), the facility is able to meet the Surface Coating of Miscellaneous Metal Parts and Products MACT MMMM by meeting the MACT which pertains to the predominant surface coating activity of the facility. Similarly, the facility is able to meet the Surface Coating of Plastic Parts and Products MACT PPPP by meeting the MACT which pertains to the predominant surface coating activity of the facility, per 40 CFR 63.4481(e)(2). The predominant surface coating activity of the Prairie du Chien plant, determined according to the procedures at 40 CFR 63.3881(e)(2)(i) and (ii) and 63.4481(e)(i) and (ii), is web coating according to Paper and Other Web Coating Operations MACT JJJJ. The Surface Coating of Miscellaneous Metal Parts and Products MACT MMMM and Surface Coating of Plastic Parts and Products MACT PPPP are therefore met at the Prairie du Chien plant by including the Miscellaneous Metal Parts and Products MACT MMMM and Surface Coating of Plastic Parts and Products MACT PPPP affected sources as part of the Paper and Other Web Coating Operations MACT JJJJ affected source. The collection of equipment which is subject to the Paper and Other Web Coating Operations MACT JJJJ thereby becomes the following:

Process P07, Stack S09 — Abrasive Sponge Coating Process  
Process P30, Stack S14, Control Device C01 — 22 Maker  
Process P31, Stacks S14, S200, S210, S220, S230, Control Device C01 — 21 Maker  
Process P32, Stack S16, Control Device C03 — Coiled Web Maker  
Process P44, Stack S34, Control Device C11 — Safety Walk Maker  
Process P55, Stack S14, Control Device C01 — 24CC Maker  
Process P56, Stacks S14, S230, S240, Control Devices C01 — 25 Maker  
Process P67, Stacks S47, S48, Control Device C21 — 27 Maker  
Process P68, Stack S68 — Sanding Cloth Line  
Process I1 — General Purpose Bun Coater  
Process I2 — 2A Fiber Line  
Process I3 — General Purpose Polyurethane Foam Process (Slab Press)  
Process I4 — Roloc Semi-Automated and Manual Disc Assembly  
Process I5 — Rotopeen Line

Each web coating line or surface coating process which is modified or installed under authority of Part III of this permit shall meet the requirements of section III.M. in addition to the requirements in this section, as applicable.

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420)</p>	<p>(1) <b>Limit:</b> Organic hazardous air pollutants (HAP) emissions each month, from the collection of all web coating lines, to the level specified in (a), (b), (c), <b>Or</b> (d):                      (a) No more than 5 percent of the organic HAP applied for each month (95 percent reduction); <b>Or</b>                      (b) No more than 4 percent of the mass of coating materials applied for each month; <b>Or</b>                      (c) No more than 20 percent of the mass of coating solids applied for each month; <b>Or</b>                      (d) <b>If:</b> an oxidizer is used to control organic HAP emissions, <b>Then:</b> operate the oxidizer such that an outlet organic HAP concentration of no greater than 20 parts per million by volume (ppmv) by compound on a dry</p>	<p>(1) <b>Demonstrate:</b> compliance with the HAP emission limits in I.Y.1.a.(1) each month according to I.Y.1.b.(2), I.Y.1.b.(3), I.Y.1.b.(4), I.Y.1.b.(5), I.Y.1.b.(6), I.Y.1.b.(7), I.Y.1.b.(8), <b>And/Or</b> I.Y.1.b.(9) as applicable, applied in any combination to each of the coating materials used by the web coating lines subject to 40 CFR Part 63 Subpart JJJJ MACT standard. All requirements of I.Y.1.a.(1) through I.Y.1.a.(4) are intended to be consistent with 40 CFR Part 63 Subpart JJJJ [s. 285.65(13), Wis. Stats.]</p> <p>(2) <b>Combustion Temperature:</b> For each oxidizer used to control emissions, do the following:                      (a) The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to I.Y.1.b.(5)(a)  <b>By:</b> doing the following:                      (i) collect the combustion temperature data according to I.Y.1.b.(3),                      (ii) reduce the data to 3-hour block averages, <b>And</b>                      (iii) maintain the 3-hour average combustion temperature at or above</p>	<p>(1) <b>Record:</b> the following information:                      (a) the following operating parameters for each control device:                      (i) the combustion temperature of each oxidizer,                      (ii) any parameters monitored by the continuous parameter monitoring system as recommended by the manufacturer for each control device,                      (iii) the hourly average of all continuous parameter monitoring system recorded readings for each control device determined in I.Y.1.b.(3)(f),                      (iv) the rolling 3-hour average of all recorded readings for each operating period for each control device determined in I.Y.1.b.(3)(g), <b>And</b>                      (v) the results of each inspection, calibration, and validation check of the continuous parameter monitoring system for each control device.                      [s. 285.65(13), Wis. Stats., s. NR 439.04(1)(d), Wis. Adm. Code, 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(5), 40 CFR 63.3410(a)(1)(ii)]                      (b) the capture system operating parameters and the value or range of these parameters identified in the site-specific monitoring plan determined in I.Y.1.b.(4) for each capture system, [s. 285.65(13), Wis. Stats., s. NR 439.04(1)(d), Wis. Adm. Code, 40 CFR 63.3410(a)(1)(ii)]                      (c) overall control efficiency determination using capture efficiency and control device destruction or removal efficiency test results determined in I.Y.1.b.(5), [s. 285.65(13), Wis. Stats., s. NR 439.04(1)(d), Wis. Adm. Code, 40 CFR 63.3410(a)(1)(v)] <b>And</b>                      (d) material usage, organic HAP usage, coating solids usage,</p>

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>	<p>basis is achieved and the efficiency of the capture system is 100 percent. [s. 285.65(13), Wis. Stats., 40 CFR 63.3320(b)(1), (2), (3), and (4)]</p> <p>(2) The permittee may elect to apply different emissions standards at I.Y.1.a.(1) from month-to-month, and may elect to apply the emissions standards to any combination of the web coating lines of the MACT JJJJ affected source, so long as each web coating line of the affected source is part of at least one group. [s. 285.65(13), Wis. Stats., 40 CFR 63.3300, 40 CFR 63.3320(b)(1), (2), (3), and (4)]</p> <p>(3) The permittee may elect to apply the Paper and Other Web Coating</p>	<p>the temperature limit. [s. 285.65(13), Wis. Stats., 40 CFR 63.3321(a), 40 CFR Part 63 Table 1]</p> <p>(b) <b>Other types of control devices: If:</b> another type of a control device is used other than an oxidizer or monitoring an alternative parameter and complying with a different operating limit is necessary, <b>Then:</b> apply to the department for approval of an alternative monitoring method under 40 CFR 63.8(f). [s. 285.65(13), Wis. Stats., 40 CFR 63.3321(b), 40 CFR 63.3350(a)(3), 40 CFR 63.3350(e)(10)]</p> <p>(3) <b>Continuous Parameter Monitoring System (CPMS)</b> For each control device, install, operate, and maintain a continuous parameter monitoring system (CPMS) according to the following:  <b>(a) Install, Calibrate, Maintain, and Operate:</b> the CPMS for each oxidizer according to the manufacturer's specifications. [s. 285.65(13), Wis. Stats., 40 CFR 63.3350(a)(3), 40 CFR 63.3350(e)(9)(i)]  <b>(b) Verify:</b> The calibration of the chart recorder, data logger, or temperature indicator for each oxidizer <b>When:</b> every</p>	<p>and the methods used to demonstration compliance using this data. [s. 285.65(13), Wis. Stats., s. NR 439.04(1)(d), Wis. Adm. Code, 40 CFR 63.3410(a)(1)(vi)]</p> <p>(2) <b>Determine and Record:</b> the total mass of each coating material applied each month to each web coating line of the MACT JJJJ Affected Source.  <b>How:</b></p> <ul style="list-style-type: none"> <li>• by direct measurement, <b>Or</b></li> <li>• by calculation based on the amount of each product made by each web coating line and the corresponding coating formulation of those products, plus any materials added (e.g. solvent thinning of a coating), <b>Or</b></li> <li>• by other method, as approved by WDNR [s. 285.65(13), Wis. Stats., chs. 422 and 424, Wis. Adm. Code, 40 CFR 63.3410(a)(1)(vi)]</li> </ul> <p>(3) <b>Determine and Record:</b> "as-purchased" organic HAP content <b>And</b> coating solids content of each coating material applied, as applicable and consistent with the emission limitations elected in I.Y.1.a. for that month and the compliance demonstration method(s) elected in I.Y.1.b.  <b>How:</b> according to any of the following methods</p> <ul style="list-style-type: none"> <li>• by testing using U.S. EPA Method 24 [40 CFR Part 60, Appendix A], according to 40 CFR 63.3360(d)(1), <b>Or</b></li> <li>• by formulation data, according to 40 CFR 63.3360(d)(2), <b>Or</b></li> <li>• by an alternative test method, approved by the Administrator at EPA in accordance with 40 CFR 63.7(f) [s. 285.65(13), Wis. Stats., chs. 422 and 424, Wis. Adm.</li> </ul>

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>	<p>Operations MACT JJJJ standard requirements on a volatile organic compound basis rather than on an organic hazardous air pollutant basis. [s. 285.65(13), Wis. Stats., permit 11-SJZ-179]</p> <p>(4) The emissions standards in this section apply at all times, <b>Except</b> during startup, shutdown, and malfunction [s. 285.65(13), Wis. Stats., 40 CFR 63.6(f)(1)]</p>	<p>3 months <b>Or</b> the chart recorder, data logger, or temperature indicator must be replaced. Replace the equipment if the calibration is not performed or the equipment cannot be calibrated. [s. 285.65(13), Wis. Stats., 40 CFR 63.3350(a)(3), 40 CFR 63.3350(e)(9)(i)]</p> <p>(c) <b>Demonstrate:</b> For each oxidizer, install, calibrate, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must have an accuracy of ±1 percent of the temperature being monitored in degrees Celsius, or ±1 degree Celsius, whichever is greater. The thermocouple or temperature sensor must be installed in the combustion chamber at a location in the combustion zone. [s. 285.65(13), Wis. Stats., 40 CFR 63.3350(a)(3), 40 CFR 63.3350(e)(9)(ii)]</p> <p>(d) <b>Operation Cycle:</b> Each continuous parameter monitoring system for each control device must complete a minimum of one cycle of operation for each successive 15-minute period. The permittee must have a minimum of four equally spaced successive cycles of continuous parameter monitoring system operation to have a valid hour of data. [s.</p>	<p><a href="#">Code, 40 CFR 63.3410(a)(1)(vi)]</a></p> <p>(4) <b>Determine and Record:</b> "as-applied" organic HAP content <b>And</b> coating solids content of each coating material applied, as applicable for the emission limit(s) elected in I.Y.1.a. and the compliance demonstration method(s) elected in I.Y.1.b for that month  <b>How:</b> using Equation 1b and 2, as applicable, according to 40 CFR 63.3370  <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.3360(d)]</a></p> <p>(5) <b>Report:</b> Semi-annual Compliance Report  <b>Due:</b> submit as part of the semi-annual Title V Periodic Monitoring Report as required in I.ZZZ.2.b.(1)  <b>Reporting Period:</b> same as the semi-annual Title V Periodic Monitoring Report  <b>Content:</b> according to 40 CFR 63.3400(c)(2), as applicable  <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.3400(c)(1)(v), 40 CFR 63.9(i)]</a></p> <p>(6) <b>Submit:</b> Notification of Performance Test  <b>Due:</b> at least 60 calendar days before the day of the performance test  <b>Content:</b> include a site-specific test plan required under 40 CFR 63.7(c)(2) and identify the operating parameters to be monitored to ensure that the capture efficiency of the capture system and the control efficiency of the control device determined during the performance test are maintained. [s. <a href="#">285.65(13), Wis. Stats., 40 CFR 63.3400(d)]</a></p>

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(1)                      (e) <b>Fulfillment:</b> for each control device, collect valid data from at least 90% of the hours of process operation [where: a valid hour of data <math>\geq</math> 4 equally spaced successive CPMS cycles] [s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(2)]                      (f) <b>Determine:</b> the hourly average of all continuous parameter monitoring system recorded readings for each control device according to the following:                      (i) To calculate a valid hourly value, the permittee must have at least three of four equally spaced data values from that hour from a continuous monitoring system<sup>45</sup> (continuous parameter monitoring system (CPMS)) that is not out-of-control.                      (ii) Provided all of the readings recorded clearly demonstrate continuous compliance with the standard, then the permittee is not required to determine the hourly average of all recorded readings.                      [s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(3)(i) and</p>	<p>(7) <b>Submit:</b> Notification of Compliance Status  <b>Due:</b> within 60 calendar days after the completion of the performance test  <b>Content:</b> include information required in 40 CFR 63.9(h)(2)(i)                      [s. 285.65(13), Wis. Stats., 40 CFR 63.3400(e)]                       (8) <b>Submit:</b> Performance Test Reports  <b>Due:</b> at least 60 calendar days after the completion of the performance test  <b>Content:</b> include the results of the performance test. The Performance Test Reports can be submitted with the Notification of Compliance Status reports in I.Y.1.c.(7).                      [s. 285.65(13), Wis. Stats., 40 CFR 63.3400(f), 40 CFR 63.10(d)(2)]                       (9) <b>If:</b> a startup, shutdown, or malfunction occurs, <b>And</b> the facility response is consistent with the Startup, Shutdown Malfunction Plan, <b>Then:</b>  <b>Submit:</b> Periodic Startup, Shutdown, and Malfunction Reports  <b>Reporting Period:</b> January 1 to June 30 and July 1 to December 31.  <b>Due:</b> 30th day following the end of each reporting period or another reporting period as approved by the department in writing. The Startup, Shutdown, and Malfunction Report can be submitted with the semi-annual Title V Periodic</p>

<sup>45</sup> For the purposes of this review, a continuous monitoring system includes a continuous parameter monitoring system, per 40 CFR 63.2.

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)		<p>(ii)]</p> <p>(g) <b>Determine:</b> the rolling 3-hour average of all recorded readings for each operating period for each control device. To calculate the average for each 3-hour averaging period, there must be at least two of three of the hourly averages for that period using only average values that are based on valid data ( i.e., not from out-of-control periods). [s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(4)]</p> <p>(h) <b>Record:</b> the results of each inspection, calibration, and validation check of the CPMS for each control device. [s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(5)]</p> <p>(i) <b>Maintain:</b> at all times the monitoring system for each control device in proper working order including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. [s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(6)]</p> <p>(j) <b>Monitor:</b> at all times that each control device is operating, <b>Except</b> during: monitoring malfunctions, associated repairs, or required quality assurance or control activities (including calibration</p>	<p>Monitoring Report as required in I.ZZZ.2.b.(1)</p> <p><b>Content:</b> include information required in 40 CFR 63.10(d)(5)(i) [s. 285.65(13), Wis. Stats., 40 CFR 63.3400(g), 40 CFR 63.10(d)(5)(i)]</p> <p>(10) <b>For:</b> each occurrence of a startup, shutdown, <b>Or</b> malfunction, <b>If:</b> the response is <b>Not</b> consistent with the Startup, Shutdown Malfunction Plan, <b>And If:</b> an emission standard is exceeded, <b>Then:</b></p> <p><b>Report:</b> the actions for that event</p> <p><b>Notify:</b> by telephone or fax: within 2 working days after commencing the actions that were inconsistent with the Startup, Shutdown, and Malfunction Plan</p> <p><b>Report:</b> by letter, within 7 working days of the end of the event</p> <p><b>Content:</b> according to 40 CFR 63.10(d)(5)(ii) [s. 285.65(13), Wis. Stats., 40 CFR 63.3400(g), 40 CFR 63.6(e)(3)(iv), 40 CFR 63.10(d)(5)(ii)]</p> <p>(11) <b>Records:</b> Keep records of when the Paper and Other Web Coating Operations MACT JJJJ standard is applied on a volatile organic compound basis rather than on an organic hazardous air pollutant basis. [s. 285.65(13), Wis. Stats., s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(12) <b>Record:</b> For each control device and each continuous parameter monitoring system (CPMS), record the following:</p> <p>(a) the occurrence and duration of each startup, shutdown, or</p>

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Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>checks or required zero and span adjustments). Data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities shall not be used for purposes of calculating the emissions concentrations and percent reductions specified in 40 CFR 63.3370. All the valid data collected during all other periods must be used in assessing compliance of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p> <p>[s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(7)]</p> <p>(k) <b>Notify:</b> Any averaging period for which the permittee does not have valid monitoring data and such data are required constitutes a deviation, the permittee shall notify the department of this in the Semi-annual Compliance Report required in I.Y.1.c.(5). [s. 285.65(13), Wis. Stats., 40 CFR</p>	<p>malfunction,</p> <p>(b) each instance of required maintenance,</p> <p>(c) each calibration check, <b>And</b></p> <p>(d) each adjustment.</p> <p>[s. 285.65(13), Wis. Stats., 40 CFR 63.10(b)(2)(i), (ii), and (iii), 40 CFR 63.10(b)(2)(x) and (xi)]</p> <p>(13) <b>Record:</b> the date and time of each instance of the following for each continuous parameter monitoring system (CPMS):</p> <p>(a) when the continuous parameter monitoring system is inoperative, <b>Except</b> for zero (low-level) and high-level checks</p> <p>(b) when the continuous parameter monitoring system is out-of-control [as defined at 40 CFR 63.8(c)(7)]</p> <p>(c) when parameter exceedances occur during a startup, shutdown, or malfunction</p> <p>(d) when parameter exceedances occur during periods other than a startup, shutdown, or malfunction</p> <p>[s. 285.65(13), Wis. Stats., 40 CFR 63.10(c)(5), (7), and (8), 40 CFR 63.8(c)(7)]</p> <p>(14) <b>Record:</b> For each instance of malfunction of a continuous parameter monitoring system, record:</p> <p>(a) the nature and cause (if known)</p> <p>(b) corrective action taken or preventive measures adopted</p> <p>(c) the nature of repairs or adjustments</p> <p>[s. 285.65(13), Wis. Stats., 40 CFR 63.10(c)(10), (11), and (12)]</p>

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Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>3350(a)(3), 40 CFR 63.3350(e)(8)]</p> <p>(4) <b>Capture System Monitoring Plan:</b> When using a capture system and control device to demonstrate compliance, <b>Develop:</b> a site-specific monitoring plan according to the following:</p> <p>(a) The monitoring plan must include the following:</p> <ul style="list-style-type: none"> <li>(i) <b>Identify:</b> the operating parameter to be monitored to ensure that the capture efficiency determined during the initial compliance test is maintained; <b>And</b></li> <li>(ii) <b>Explain:</b> why this parameter is appropriate for demonstrating ongoing compliance; <b>And</b></li> <li>(iii) <b>Identify:</b> the specific monitoring procedures.</li> </ul> <p>[s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(f)(1)]</p> <p>(b) The monitoring plan must specify the operating parameter value or range of values that demonstrate compliance with the emission standards. The specified operating parameter value or range of values must represent the conditions present when the capture system is being properly operated and maintained. [s.</p>	<p>(15) <b>Record:</b> For each web coating line with a continuous parameter monitoring system, record the total process operating time during the reporting period. [s. 285.65(13), Wis. Stats., 40 CFR 63.10(c)(13)]</p> <p>(16) <b>Record:</b> For each startup, shutdown, <b>Or</b> malfunction, record:</p> <ul style="list-style-type: none"> <li>(a) that the response was consistent with the startup, shutdown, and malfunction (SSM) plan as necessary, <b>Or</b></li> <li>(b) why the response was <b>Not</b> consistent with the startup, shutdown, and malfunction Plan</li> </ul> <p>[s. 285.65(13), Wis. Stats., 40 CFR 63.6(e)(3)(iii)]</p> <p>(17) <b>If</b> a startup, shutdown, <b>Or</b> malfunction occurs, <b>And</b> the Startup, Shutdown, Malfunction (SSM) Plan inadequately addresses the event, <b>Then</b> do the following: <b>Revise:</b> Startup, Shutdown, Malfunction Plan <b>Due:</b> within 45 day after the event <b>If:</b> revision of the startup, shutdown, and malfunction plan "alters the scope of the activities at the source which are deemed to be a startup, shutdown, malfunction, or otherwise modifies the applicability of any emission limit, work practice requirement, or other requirement in a standard " <b>Then:</b> <b>Submit:</b> a notification describing changes to permitting authority [s. 285.65(13), Wis. Stats., 40 CFR 63.6(e)(3)(viii)]</p> <p>(18) <b>Notify:</b> The department of any changes in information related to section I.Y. within 15 calendar days after the</p>

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<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(f)(2)]                      (c) Conduct all capture system monitoring in accordance with the plan. [s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(f)(3)]                      (d) Any deviation from the operating parameter value or range of values which are monitored according to the plan will be considered a deviation from the operating limit. [s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(f)(4)]                      (e) Review and update the capture system monitoring plan at least annually. [s. 285.65(13), Wis. Stats., 40 CFR 3350(a)(3), 40 CFR 63.3350(f)(5)]</p> <p>(5) <b>Performance Test: If:</b> using a thermal oxidizer to control emissions, <b>Then:</b> conduct an initial performance test for each capture and control system <b>When:</b> within 180 days after start-up <b>Determine:</b> the combustion temperature, destruction and removal efficiency, and capture efficiency according to the following: (<b>Note:</b> The performance tests conducted for I.E.1.b.(1), I.F.2.b.(1), I.H.1.b.(1), and I.O.1.b.(1) also satisfies</p>	<p>change. [s. 285.65(13), Wis. Stats., 40 CFR 63.9(j)]</p>

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**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)		<p>3360(a)(2), 40 CFR 63.3360(e)(3)(i)(A) and (B)]</p> <p>(b) <b>Destruction and Removal Efficiency: Determine:</b> the destruction or removal efficiency of the regenerative thermal oxidizer C01 according to 40 CFR 63.3360(e) such that the control device inlet and outlet testing is conducted simultaneously, and the data are reduced in accordance with the test methods and procedures in 40 CFR 63.3360(e)(1)(i) through (ix) or other test methods and procedures approved by the department in writing. The performance test must be conducted in three test runs as specified in 40 CFR 63.7(e)(3) and I.ZZZ.3. and each test run must last at least 1 hour. [s. 285.65(13), Wis. Stats., 40 CFR 3360(a)(2), 40 CFR 63.3360(e)]</p> <p><b>And</b></p> <p>(c) <b>Capture Efficiency: Determine:</b> the capture efficiency of each capture system according to the following as applicable:</p> <p>(i) <b>Assume:</b> the capture efficiency equals 100 percent if the capture system is a permanent total enclosure (PTE). Confirm that the capture system is a PTE by demonstrating that it meets the requirements of section 6</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>of EPA Method 204 of 40 CFR part 51, appendix M, and that all exhaust gases from the enclosure are delivered to a control device.</p> <p>(ii) <b>Determine:</b> capture efficiency according to the protocols for testing with temporary total enclosures that are specified in Methods 204 and 204A through F of 40 CFR Part 51, appendix M. The permittee may exclude never-controlled work stations from such capture efficiency determinations.</p> <p>(iii) <b>Protocol and Test Methods:</b> The permittee may use any capture efficiency protocol and test methods that satisfy the criteria of either the Data Quality Objective or the Lower Confidence Limit approach as described in appendix A of 40 CFR Part 63 Subpart KK. The permittee may exclude never-controlled work stations from such capture efficiency determinations.</p> <p>[s. 285.65(13), Wis. Stats., 40 CFR 63.3360(a)(2), 40 CFR 63.3360(f)(1), (2), and (3)]</p> <p>(6) "As-Purchased" Compliant Coating</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p><b>Materials.</b>  <b>Demonstrate:</b> that each coating material applied during the month contains no more than 0.04 kilogram organic HAP per kilogram of coating material (0.04 pound organic HAP per pound of coating material), <b>Or</b> no more than 0.2 kilogram organic HAP per kilogram coating solids (0.2 pound organic HAP per pound coating solids)  <b>How:</b> by determining the organic HAP <b>And/Or</b> solids content of each coating material applied, on an as-purchased basis. [s. 285.65(13), Wis. Stats., 40 CFR 63.3370(a)(1), 40 CFR 63.3370(b)(1), 40 CFR 63.3370(c)(5)(i)]</p> <p>(7) "<b>As-Applied</b>" <b>Compliant Coating Materials.</b>  <b>Demonstrate:</b> that the monthly average organic HAP content of all as-applied coating materials is no more than 0.04 kilogram organic HAP per kilogram of coating material (0.04 pound organic HAP per pound of coating material), <b>Or</b> no more than 0.2 kilogram organic HAP per kilogram coating solids (0.2 pound organic HAP per pound coating solids), as determined according to the following:</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>(a) <b>Demonstrate:</b> <math>H_L \leq 0.04</math>, as calculated according to Equation 4 of 40 CFR 63.3370(c)(3) where <math>H_L</math> = Monthly average, as-applied, organic HAP content of all coating materials applied, expressed as kg organic HAP per kilogram of coating material applied, kilogram/kilogram ((pound VOC /pound coating solids applied)),  <b>Or</b>                      (b) <b>Demonstrate:</b> <math>H_s \leq 0.20</math>, as calculated according to Equation 5 of 40 CFR 63.3370(c)(4)  <math>H_s</math> = Monthly average, as-applied, organic HAP to coating solids ratio, expressed as kg organic HAP /kilogram coating solids applied, kilogram/kilogram (pound organic HAP/pound coating solids applied)  <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.3370(a)(2), 40 CFR 63.3370(c)(3) and (4), 40 CFR 63.3370(c)(5)(ii)]</a></p> <p>(8) <b>Capture System and Control Device:</b>  <b>If:</b> operating a capture system and control device to meet the emission limits, <b>Then:</b> do one of the following:                      (a) <b>Demonstrate:</b> that the overall organic</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>HAP control efficiency is equal to 95 percent for each month <b>Or</b> operate a capture system and oxidizer so that an outlet organic HAP concentration of no greater than 20 parts per million by volume (ppmv) by compound on a dry basis is achieved as long as the capture efficiency is 100 percent <b>by</b> following the procedures in 40 CFR 63.3370(e). <b>Or</b> [s. 285.65(13), Wis. Stats., 40 CFR 63.3370(a)(4), 40 CFR 63.3370(e)]</p> <p>(b) <b>Demonstrate:</b> that the overall organic HAP emission rate does not exceed 0.2 kg organic HAP per kg coating solids on a monthly average as-applied basis <b>by</b> following the procedures in 40 CFR 63.3370(f). <b>Or</b> [s. 285.65(13), Wis. Stats., 40 CFR 63.3370(a)(4), 40 CFR 63.3370(f)]</p> <p>(c) <b>Demonstrate:</b> that the overall organic HAP emission rate does not exceed 0.04 kg organic HAP per kg coating material on a monthly average as-applied basis <b>by</b> following the procedures in 40 CFR 63.3370(g). <b>Or</b> [s. 285.65(13), Wis. Stats., 40 CFR 63.3370(a)(4), 40 CFR 63.3370(g)]</p> <p>(d) <b>Demonstrate:</b> that the overall organic HAP emission rate does not exceed the</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>calculated limit based on emission limitations <b>by</b> following the procedures in 40 CFR 63.3370(h). <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.3370(a)(4), 40 CFR 63.3370(h)]</a></p> <p>(9) <b>If:</b> using an oxidizer to control emissions, <b>Then:</b> show compliance according to the following:</p> <p>(a) <b>Demonstrate:</b> initial compliance through performance tests of capture efficiency and control device efficiency and continuing compliance through continuous monitoring of capture system and control device operating parameters as specified below:</p> <p>(i) <b>Destruction Efficiency:</b> Determine the oxidizer destruction efficiency using the procedure in 40 CFR 63.3360(e).</p> <p>(ii) <b>Capture Efficiency:</b> Determine the capture system capture efficiency in accordance with 40 CFR 63.3360(f).</p> <p>(iii) <b>Capture and control efficiency monitoring:</b> Whenever a web coating line is operated, continuously monitor the operating parameters established in accordance with 40 CFR 63.3350(e)</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>and (f) to ensure capture and control efficiency.</p> <p>(iv) <b>Mass of Coating:</b> If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating materials applied, or emission of less than the calculated allowable or organic HAP, determine the mass of each coating material applied on the web coating line or group of web coating lines controlled by a common oxidizer during the month.</p> <p>(v) <b>Organic HAP Content:</b> If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating material applied, or emission of less than the calculated allowable organic HAP, determine the organic HAP content of each coating material as-applied during the month following the procedure in 40 CFR 63.3360(c).</p> <p>(vi) <b>Coating Solids Content:</b> If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied or emission</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>of less than the calculated allowable organic HAP, determine the coating solids content of each coating material applied during the month following the procedure in 40 CFR 63.3360(d).  <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.3370(a)(4), 40 CFR 63.3370(e), 40 CFR 63.3370(k)(1)(i)-(vi)]</a>                      (b) <b>Convert:</b> the mass of each coating material applied, organic HAP content of each coating material as-applied, organic HAP material recovered, and recovery efficiency into the units of the selected compliance option using the calculation procedures specified below:                      (i) <b>Control Efficiency:</b> Calculate the overall organic HAP control efficiency achieved using Equation 11 of 40 CFR 63.3370(i)(2)(iv).                      (ii) <b>Organic HAP Emitted:</b> Calculate the organic HAP emitted during the month using Equation 12 of 40 CFR 63.3370(i)(2)(viii).                      (iii) <b>Organic HAP emission rate based on coating solids applied:</b> Calculate the organic HAP emission rate based on coating solids applied for each month using Equation 9 of 40 CFR 63.3370(i)(1)(viii).</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>(iv) <b>Organic HAP based on coating materials applied:</b> Calculate the organic HAP emission rate based on coating material applied using Equation 10 of 40 CFR 63.3370(i)(1)(ix).                      [s. 285.65(13), Wis. Stats., 40 CFR 63.3370(a)(4), 40 CFR 63.3370(e), 40 CFR 63.3370(k)(2)(i)-(iv)]                      (c) The emission standards in I.Y.1.a.(1) are satisfied if the oxidizer is operated such that the average operating parameter value is greater than the operating parameter value established in accordance with 40 CFR 63.3360(e) for each 3-hour period, and the capture system operating parameter is operated at an average value greater than or less than (as appropriate) the operating parameter value established in accordance with 40 CFR 63.3350(f);  <b>And</b>                      (i) The overall organic HAP control efficiency is 95 percent or greater; <b>Or</b>                      (ii) The organic HAP emission rate based on coating solids applied is no more than 0.20 kilograms organic HAP per kilograms coating solids applied; <b>Or</b>                      (iii) The organic HAP emission rate</p>	

**I.Y. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) requirements that apply to the following: Abrasive Sponge Coating Process (P07), 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 24CC Maker (P55), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), 2A Fiber Line (I2), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), Rotopeen Line (I5)**

**Note: Unless otherwise indicated, the following requirements apply to each process.**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) (continued)</p>		<p>based on coating material applied is no more than 0.04 kilograms organic HAP per kilograms coating material applied; <b>Or</b></p> <p>(iv) The organic HAP emitted during the month is less than the calculated monthly allowable organic HAP emissions as determined using the procedures in 40 CFR 63.3370(l).  <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.3370(e), 40 CFR 63.3370(k)(3)(i)-(iv)]</a></p> <p>(10) <b>Maintain:</b> A startup, shutdown, and malfunction plan (SSM)  <b>Content:</b> according to 40 CFR 63.6(e)(3)  <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR 63.6(e)(3)]</a></p> <p>(11) <b>May Elect:</b> a different method of compliance demonstration not listed above that is provided in 40 CFR 63.3370 (a) through (p) approved by the department in writing. <a href="#">[s. 285.65(13), Wis. Stats.]</a></p>	

**I. ZZZ. Conditions Applicable to the Entire Facility**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Stack Parameters	(1) All stack parameters shall be maintained at dimensions where emissions met the National Ambient Air Quality Standards (NAAQS) during the most recent modeling analysis. [ss. 285.63(1)(a) and 285.65(3), Wis. Stats.]	(1) The recordkeeping requirement in I.ZZZ.1.c.(1) is also considered the compliance demonstration requirement.	(1) The permittee shall keep and maintain on site technical drawings, blueprints or equivalent records of physical stack parameters for all stacks at the facility. [s. NR 439.04(1)(d), Wis. Adm. Code]
2. Reporting	(1) The permittee shall submit periodic monitoring reports. [s. NR 407.09(1)(c)3., Wis. Adm. Code]  (2) The permittee shall submit periodic certification of compliance. [s. NR 407.09(4)(a)3., Wis. Adm. Code]	(1) <b>Monitoring Report:</b> The permittee shall submit a monitoring report which contains the results of monitoring or a summary of monitoring results required by this permit to the department every 6 months. (a) The time periods to be addressed by the submittal are January 1 to June 30 and July 1 to December 31. (b) The report shall be submitted to the Wisconsin Department of Natural Resources West Central Region Air Program, La Crosse Area Office, 3550 Mormon Coulee Road, Room 104, La Crosse, Wisconsin 54601 within 30 days after the end of each reporting period. (c) All deviations from and violations of applicable requirements shall be clearly identified in the submittal. (d) Each submittal shall be certified by a responsible official as to the truth, accuracy and completeness of the report. (e) The content of the submittal is described in item D. of Part II of the operation permit. [s. NR 439.03(1)(b), Wis. Adm. Code]	None applicable.

**I. ZZZ. Conditions Applicable to the Entire Facility**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
2. Reporting (continued)		<p><b>(2) Certification of Compliance Report:</b>                      The permittee shall submit an annual certification of compliance with the requirements of this permit to the Wisconsin Department of Natural Resources West Central Region Air Program, La Crosse Area Office, 3550 Mormon Coulee Road, Room 104, La Crosse, WI 54601 and to Compliance Data - Wisconsin, Air and Radiation Division, U.S. EPA, 77 W. Jackson, Chicago, IL 60604.</p> <p>(a) The time period to be addressed by the report is the January 1 through December 31 period which precedes the report.</p> <p>(b) The report shall be submitted to the Wisconsin Department of Natural Resources West Central Region Air Program and to the US EPA within 30 days after the end of each reporting period.</p> <p>(c) The information included in the report shall comply with the requirements of Part II, Section N of this permit.</p> <p>(d) Each report shall be certified by a responsible official as to the truth, accuracy and completeness of the report. <a href="#">[s. NR 439.03(1)(c), Wis. Adm. Code]</a></p>	
3. Stack Testing Requirements	(1) If any required compliance emission test(s) cannot be conducted within the time frames specified in this permit, the permit holder may request and the	(1) Two copies of the report on any compliance emission tests shall be submitted to the Department for evaluation within 60 days following the completion of tests. <a href="#">[s. NR 439.07(9), Wis. Adm. Code]</a>	None Applicable.

**I. ZZZ. Conditions Applicable to the Entire Facility**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>3. Stack Testing Requirements (continued)</p>	<p>Department may approve, in writing, an extension of time to conduct the test(s). [s. NR 439.07, Wis. Adm. Code]</p> <p>(2) All testing shall be performed with the emissions unit operating at capacity or as close to capacity as practicable and in accordance with approved procedures. If operation at capacity is not feasible, the source shall operate at a capacity level which is approved by the Department in writing. [s. NR 439.07(1), Wis. Adm. Code]</p> <p>(3) The Department shall be informed at least 20 working days prior to any stack testing, so a Department representative can witness the testing. At the time of notification, a compliance emission test plan shall also be submitted to the Department for approval. When approved in writing, an equivalent test method may be substituted for the reference test method. The notification and test plan shall be submitted to the</p>		

**I. ZZZ. Conditions Applicable to the Entire Facility**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
3. Stack Testing Requirements (continued)	Wisconsin Department of Natural Resources. [s. NR 439.07(2), Wis. Adm. Code]		
4. Malfunction Prevention and Abatement Plan	<p>(1) A malfunction prevention and abatement plan shall be followed for the plant. [s. NR 439.11, Wis. Adm. Code]</p> <p>(2) All air pollution control equipment shall be operated and maintained in conformance with good engineering practices (i.e. operated and maintained according to manufacturer's specifications and directions) to minimize the possibility for the exceedance of any emission limitations. [s. NR 439.11(4), Wis. Adm. Code]</p> <p>(3) The facility shall submit a revised plan to the department as necessary for approval. [s. NR 439.11(2), Wis. Adm. Code]</p>	<p>(1) The malfunction prevention and abatement plan shall be developed to prevent, detect and correct malfunctions or equipment failures which may cause any applicable emissions limitation to be violated or which may cause air pollution. [s. NR 439.11(1), Wis. Adm. Code]</p> <p>(2) This malfunction prevention and abatement plan shall include installation, maintenance and routine calibration procedures for the process monitoring and control equipment instrumentation. This plan shall require an instrumentation calibration at the frequency specified by the manufacturer, yearly or at a frequency based on good engineering practice as established by operational history, whichever is more frequent. Inspection and calibration shall also be conducted whenever instrumentation anomalies are noted. [ss. NR 407.09(1)(c)1.c., NR 439.055(4) and s. NR 439.11, Wis. Adm. Code]</p> <p>(3) The malfunction prevention and abatement plan shall require a copy of the operation and maintenance manual for the control equipment to be maintained on site. The plan shall contain all of the elements in s. NR 439.11(1)(a) – (h), Wis. Adm. Code. [s. NR 439.11, Wis.</p>	None Applicable.

**I. ZZZ. Conditions Applicable to the Entire Facility**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
4. Malfunction Prevention and Abatement Plan (continued)		<a href="#">Adm. Code]</a>	
5. Prevention of Significant Deterioration (PSD) Synthetic Minor Conditions <sup>46, 47</sup>	(1) <b>Limit:</b> The volatile organic compound (VOC) emissions from all emissions units at the permittee’s site location may not exceed 240 tons per year, summed over a rolling 12 month period. [ <a href="#">s. 285.65(7), Wis. Stats., permit 11-SJZ-179]</a> ]	(1) <b>Use:</b> The following volatile organic compound content data shall be used to calculate volatile organic compound emissions: (a) <u>Coating Operations:</u> Volatile organic compound content data from Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), material test data, performance test data based on U.S. EPA Method 24, an equivalent document provided by the supplier of each coating or raw material, or an equivalent data source approved by the department in writing shall be used to calculate the volatile organic compound emissions from the coating lines. If a range is given, the highest value in the range shall be used. Where these documents differ, the results from U.S. EPA Method 24 shall govern if available. (b) <u>Non-Coating and Non-Fuel Burning Operations:</u> Volatile organic compound content data from Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), material test data, performance test data based on U.S. EPA Method 25,	(1) <b>Recordkeeping:</b> The permittee shall maintain records of the following information: (a) each material used in each line, (b) emission factor (e.g., raw material VOC content of each material used [percent by weight, percent by volume, etc.], mass of VOC per standard cubic foot or gallon of fuel, or maximum uncontrolled hourly emission rate), (c) the emission factor source (e.g. Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), material test data, performance test data, etc.), (d) how the VOC content was determined, <b>And</b> (e) overall control efficiency (e.g., latest stack control device test demonstrating current control efficiency utilized by control device [C01]). <a href="#">[ss. NR 439.04(1)(d) and NR 407.09(4)(a)1., Wis. Adm. Code]</a>  (2) <b>Record:</b> The following records shall be compiled by the end of the following month for each process: (a) mass of volatile organic compounds contained in the raw materials used, (b) raw material throughput or raw material used as determined by the mass of total coating applied, as measured by weighing or the volume used, with the VOC composition determined by the product formulation (e.g., mass of raw materials used, or hours of operation), (c) record daily throughputs or other throughput data collected

<sup>46</sup> These limitations were established in construction permit 11-SJZ-179 and operation permit 612023940-P10 to allow the facility to become a minor source under the PSD Program.

<sup>47</sup> The facility, including existing sources and pre-approved projects/facility changes installed under Part III will be subject to the requirements in 40 CFR 52.21(r)(4) and s. NR 405.16(2), Wis. Adm. Code and construction permit requirements in ch. NR 406, Wis. Adm. Code if these requirements are removed.

**I. ZZZ. Conditions Applicable to the Entire Facility**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
5. Prevention of Significant Deterioration (PSD) Synthetic Minor Conditions (continued)		<p>an equivalent document provided by the supplier of each raw material, or an equivalent source approved by the department in writing shall be used to calculate the volatile organic compound emissions from non-coating lines. If a range is given, the highest value in the range shall be used. Where these documents differ, the results from U.S. EPA Method 25 shall govern if available.</p> <p>(c) <u>#2 Fuel Oil Combustion:</u> Volatile organic compound emission factor in section 1.3, AP-42, Fifth Edition for #2 fuel oil combustion, performance test data based on U.S. EPA Method 25, or equivalent emission data approved by the department in writing shall be used to calculate the volatile organic compound emissions from boilers B21 (#2), B22 (#3), and B23 (#4) for #2 fuel oil combustion. If a range is given, the highest value in the range shall be used. Where these documents differ, the results of U.S. EPA Method 25 shall govern if available.</p> <p>(d) <u>Natural Gas Combustion:</u> Volatile organic compound emission factor in section 1.4, AP-42, Fifth Edition for natural gas combustion, performance test data based on U.S. EPA Method 25, equipment manufacturer data, or equivalent emission data approved by the department in writing shall be used to calculate the volatile organic compound emissions from boilers B21 (#2), B22</p>	<p>within each month that is used to determine the monthly raw material throughput,</p> <p>(d) monthly fuel usage,</p> <p>(e) actual hours of operation,</p> <p>(f) the VOC emission calculation for each process,</p> <p>(g) VOC emissions emitted in tons per month for each process (<math>X_{MEU}</math>),</p> <p>(h) sum of <u>all VOC emissions</u> emitted in tons per month from the entire facility (<math>E_{monthly}</math>), <b>And</b></p> <p>(i) sum of <u>all VOC emissions</u> emitted from the entire facility in tons per year as summed over each rolling 12 month period (<math>E_{total}</math>).</p> <p><a href="#">[ss. NR 439.04(1)(d) and NR 407.09(4)(a)1., Wis. Adm. Code]</a></p> <p>(3) <b>Calculation Method:</b> The totals in conditions I.ZZZ.5.c.(2)(f) shall be calculated for the facility by summing the tons from the last 12 months to yield the total VOCs emissions over a rolling 12 month period. This shall be used to determine compliance with the synthetic minor condition in I.ZZZ.5.a.(1). <a href="#">[ss. NR 439.04(1)(d) and NR 407.09(4)(a)1., Wis. Adm. Code]</a></p> <p>(4) <b>Reference Test Method: Volatile Organic Compound Content</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with organic solvent content, the volume of solids, the weight of solids, the water content and the density of surface coatings and inks is required, <b>Then:</b> use U.S. EPA Method 24 or 25 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(b), Wis. Adm. Code]</a></p>

**I. ZZZ. Conditions Applicable to the Entire Facility**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
5. Prevention of Significant Deterioration (PSD) Synthetic Minor Conditions (continued)		<p>(#3), and B23 (#4) for natural gas combustion. If a range is given, the highest value in the range shall be used. Where these documents differ, the results of U.S. EPA Method 25 shall govern if available.</p> <p>(e) <u>Diesel Fuel Combustion</u>: Volatile organic compound emission factor in section 3.3, AP-42, Fifth Edition for diesel fuel combustion, performance test data based on U.S. EPA Method 25, equipment manufacturer data, or equivalent emission data approved by the department in writing shall be used to calculate the volatile organic compound emissions from Emergency Diesel Generator (P271). If a range is given, the highest value in the range shall be used. Where these documents differ, the results of U.S. EPA Method 25 shall govern if available.</p> <p>[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</p> <p><b>(2) Calculating Monthly Volatile Organic Compound Emissions For Each Process:</b> monthly volatile organic compound emissions from the entire facility shall be calculated by the last day of each month, for the preceding month using one of the following calculation methods:</p> <p>(a) <u>Mass Balance Method</u>:  <math display="block">X_{MEU} = M_{EU} * (1 - C_{EU}/100)</math> </p>	

**I. ZZZ. Conditions Applicable to the Entire Facility**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
5. Prevention of Significant Deterioration (PSD) Synthetic Minor Conditions (continued)		<p>where,  <math>X_{MEU}</math> = monthly mass of volatile organic compound emissions from each process (ton/month)  <math>M_{EU}</math> = mass of volatile organic compounds used in each process (ton/month)  <math>C_{EU}</math> = overall control efficiency based on latest verified stack control device test, as <math>C_{EU}\%</math> (example, 99.9% control efficiency, value of <math>C_{EU} = 99.9</math>): only applies to 22 Maker (P30), 21 Maker (P31), Pigment Mill Mix Area (P36), 24CC Maker (P55), and 25 Maker (P56)</p> <p>(b) <u>Emission Factor Method:</u>  <math>X_{MEU} = (EF) * (Throughput) * (1 - C_{EU}/100) / (2,000 \text{ lb/ton})</math></p> <p>where,  <math>X_{MEU}</math> = monthly volatile organic compound emissions from each process (ton/month)  <math>EF</math> = emission factor: raw material VOC content (% by wt. or vol.) (lb VOC/lb raw material or lb VOC/gal raw material), or maximum uncontrolled hourly emission rate (maximum application rate and raw material VOC content) (ton/hr)  <math>Throughput</math> = raw materials used (lb/month, gal/month) or actual hours of operation (hr/month)  <math>C_{EU}</math> = overall control efficiency based on latest verified stack control device test, as</p>	

**I. ZZZ. Conditions Applicable to the Entire Facility**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
5. Prevention of Significant Deterioration (PSD) Synthetic Minor Conditions (continued)		<p><math>C_{EU}</math>% (example, 99.9% control efficiency, value of <math>C_{EU} = 99.9</math>): only applies to 22 Maker (P30), 21 Maker (P31), Pigment Mill Mix Area (P36), 24CC Maker (P55), and 25 Maker (P56)</p> <p>(c) <u>Fuel Usage Method:</u>  <math display="block">X_{MEU} = (EF) * (\text{Fuel Usage}) / (2,000 \text{ lb/ton})</math>                     where,  <math>X_{MEU}</math> = monthly volatile organic compound emissions (ton/month)                      EF = emission factor (lb VOC/MMSCF, lb VOC/1,000 gal)                      Fuel Usage = the amount of natural gas, #2 fuel oil, or diesel fuel used (standard cubic feet (SCF)/month, gallon/month)</p> <p>(d) <b>Or</b> another equivalent emission calculation method approved by the department in writing.  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p> <p>(3) <b>Calculating Monthly Volatile Organic Compound Emissions For The Entire Facility:</b> the monthly volatile organic compound emissions from the entire facility shall be calculated by the last day of each month, for the preceding month according to the following:</p> $E_{\text{monthly}} = \sum X_{MEUn}$	

**I. ZZZ. Conditions Applicable to the Entire Facility**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
5. Prevention of Significant Deterioration (PSD) Synthetic Minor Conditions (continued)		<p>where,  <math>E_{\text{monthly}}</math> = total monthly VOC emissions from the entire facility (ton/month)  <math>X_{\text{MEUn}}</math> = tons of VOC emissions in a month from each process as calculated in condition I.ZZZ.5.b.(1) (ton/month)</p> <p><b>(4) Calculating Annual Volatile Organic Compound Emissions For The Entire Facility:</b> the amount of all volatile organic compound emissions over each rolling 12 month period shall be calculated by summing the emissions of the current month with those of the preceding 11 months,  <b>When:</b> by the end of the following month  <b>Using:</b> the following equation:</p> $E_{\text{total}} = \sum E_{\text{monthly}}$ <p>where,  <math>E_{\text{total}}</math> = tons of all VOC emitted in each rolling 12 month period (ton/yr)  <math>E_{\text{monthly}}</math> = tons of VOC emissions in a month as calculated in condition I.ZZZ.5.b.(2) (ton/month)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code, permit 11-SJZ-179]</a></p>	
6. Rule Applicability Changes Under Sections 111 or 112 of the Clean Air Act	<p><b>(1) Notification:</b> If the applicability of any rule under sections 111 or 112 of the Clean Air Act changes in a way that affects the facility, the permittee shall notify WDNR according to the</p>	<p><b>(1)</b> The notification shall include the following:                      (a) changes in the rule applicability <b>And</b>                      (b) how the rule applies to the facility.  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a></p>	<p><b>(1) Recordkeeping:</b> The permittee shall keep records of the following:                      (a) changes in rule applicability                      (b) how the rule applies to the facility,                      (c) how the facility will demonstrate compliance with the rule, if applicable, <b>And</b>                      (d) all monitoring and records required by the rule, if</p>

**I. ZZZ. Conditions Applicable to the Entire Facility**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
6. Rule Applicability Changes Under Sections 111 or 112 of the Clean Air Act (continued)	notification requirements of the rule or within 30 days of the rule change. [s. 285.65(7), Wis. Stats.]		applicable. [s. NR 439.04(1)(d), Wis. Adm. Code]
7. Compliance Assurance Monitoring (CAM) Plan	(1) The permittee shall submit a CAM plan for the Mineral Handling Area (P45) within 180 days after the issuance of this permit. The CAM plan must include the following: (a) Describe the indicators to be monitored; (b) Describe the ranges or the process to set indicator ranges; (c) Describe the performance criteria for the monitoring, including: (i) specifications for obtaining representative data (ii) verification procedures to confirm the monitoring operational status (iii) quality assurance and control procedures (iv) monitoring frequency: 4 times per hour (minimum) if post control emissions are equal to or	None applicable.	None applicable.

**I. ZZZ. Conditions Applicable to the Entire Facility**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>7. Compliance Assurance Monitoring (CAM) Plan (continued)</p>	<p>exceed the major Part 70 source threshold. 1 time per day (minimum) if post control emissions are less than the major Part 70 source threshold.</p> <p>(v) data averaging period;</p> <p>(d) Provide a justification for the use of parameters, ranges, and monitoring approach;</p> <p>(e) Provide emissions test data; and, if necessary,</p> <p>(f) Provide an implementation plan for installing, testing, and operating the monitoring equipment.</p> <p>(g) Or equivalent information.</p> <p><a href="#">[s. 285.65(13), Wis. Stats., 40 CFR Part 64]</a></p> <p>(2) The permittee shall meet the control device requirements under the Paper and Other Web Coating Operations MACT (Part I.Y. and Part III.M.) to satisfy the CAM requirements that apply to the 22 Maker (P30), 21 Maker (P31), 24CC Maker (P55), and 25 Maker (P56).</p> <p><a href="#">[s. 285.65(13), Wis. Stats., 40 CFR Part 64]</a></p>		

**PART II**  
**General Permit Conditions**  
**For Direct Stationary Sources**

**A. Scope.**

This permit is valid only for the structure, building, facility, equipment or operation specifically identified herein. All emissions authorized hereby shall be in compliance with the terms and conditions of Parts I and II of this permit. [s. 285.60(7), Wis. Stats.]

**B. Emissions Prohibited.**

Unless the Department has approved an exception under s. NR 436.03(2), no person may cause, allow, or permit emissions of any air contaminant into the ambient air in excess of the limits set in chs. NR 400 to 499, Wis. Adm. Code. [s. NR 436.03(1), Wis. Adm. Code]

**C. General Emission Limits.**

**C.1. Applicable to Insignificant Emissions Units.**

The following general emission limitations may apply to one or more of the insignificant emission units identified in the preamble of this permit. It is the permittee's responsibility to comply with these requirements, if they do apply. Insignificant emission units typically are associated with inconsequential environmental impacts and present little potential for violations of these generally applicable requirements. If there were no observed, documented or known instances of noncompliance, certification of compliance is appropriate. Testing or monitoring to assure compliance is not required by this permit.

C.1.a. Section NR 415.05, Wis. Adm. Code - Particulate emission limits for processes;

C.1.b. Section NR 415.06, Wis. Adm. Code - Particulate emission limits for fuel burning installations;

C.1.c. Section NR 415.07, Wis. Adm. Code - Particulate emission limits for incinerators;

C.1.d. Section NR 423.03, Wis. Adm. Code - Solvent metal cleaning;

C.1.e. Section NR 485.05, Wis. Adm. Code - Visible emission limits for motor vehicles, internal combustion engines and mobile sources; and

C.1.f. Section NR 485.055, Wis. Adm. Code - Particulate emission limit for gasoline and diesel internal combustion engines.

**C.2. Applicable to Significant and Insignificant Emissions Units.**

The following general emission limitations may apply to both significant and insignificant emission units. It is the permittee's responsibility to comply with these requirements, if they apply. Testing or monitoring to assure compliance with these general emission limits is not required by this permit.

For each significant emission unit, if a more specific emission limit is included in Part I of this permit for any of the pollutants listed below, then compliance with that more specific limit will constitute compliance with the general emission limit.

For insignificant emission units, if there were no observed, documented or known instances of non-compliance, certification of compliance is appropriate.

- C.2.a. No person may cause, allow, or permit particulate matter to be emitted into the ambient air which substantially contributes to exceeding of an air standard, or creates air pollution. [s. NR 415.03, Wis. Adm. Code]
- C.2.b. No person may cause, allow, or permit any materials to be handled, transported, or stored without taking precautions to prevent particulate matter from becoming airborne. Nor may a person allow a structure, a parking lot, or a road to be used, constructed, altered, repaired, sand blasted or demolished without taking such precautions. Such precautions shall include, but not be limited to the following [s. NR 415.04, Wis. Adm. Code]:
  - C.2.b.(1) Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, or construction operations.
  - C.2.b.(2) Application of asphalt, oil, water, suitable chemicals, or plastic covering on dirt roads, material stockpiles, and other surfaces which can create airborne dust, provided such application does not create a hydrocarbon, odor, or water pollution problem.
  - C.2.b.(3) Installation and use of hoods, fans and air cleaning devices to enclose and vent the areas where dusty materials are handled.
  - C.2.b.(4) Covering or securing of materials likely to become airborne while being moved on public roads, railroads, or navigable waters.
  - C.2.b.(5) Conduct of agricultural practices such as tilling of land or application of fertilizers in such manner as not to create air pollution.
  - C.2.b.(6) The paving or maintenance of roadway areas so as not to create air pollution.
- C.2.c. No person may cause, allow or permit emission of sulfur or sulfur compounds into the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. [s. NR 417.03, Wis. Adm. Code]
- C.2.d. No person may cause, allow or permit organic compound emissions into the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. No person may cause, allow or permit organic compounds to be used or handled without using good operating practices and taking reasonable precautions to prevent the spillage, escape or emission of organic compounds, solvents or mixtures. [s. NR 419.03, Wis. Adm. Code]
- C.2.e. No person may cause, allow or permit the disposal of more than 5.7 liters (1.5 gallons) of any liquid Volatile Organic Compound (VOC) waste, or of any liquid, semisolid or solid waste

materials containing more than 5.7 liters (1.5 gallons) of any VOC, in any one day from a facility in a manner that would permit their evaporation into the ambient air during the ozone season. This includes, but is not limited to, the disposal of VOC which must be removed from VOC control devices so as to maintain the control devices at their required operating efficiency. Disposal during the ozone season shall be by methods approved by the Department, such as incineration, recovery for reuse, or transfer in closed containers to an acceptable disposal facility, such that the quantity of VOC which evaporates into the ambient air does not exceed 15% (by weight) or 5.7 liters (1.5 gallons) in any one day, whichever is larger. [s. NR 419.04, Wis. Adm. Code]

C.2.f. No person may cause, allow or permit emissions of carbon monoxide to the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. [s. NR 426.03, Wis. Adm. Code].

C.2.g. No person may cause, allow or permit emissions into the ambient air of lead or lead compounds which substantially contribute to the exceeding of an air standard or air increment, or which create air pollution. [s. NR 427.025, Wis. Adm. Code]

C.2.h. No person may cause, allow, or permit nitrogen oxides or nitrogen compounds to be emitted to the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. [s. NR 428.03, Wis. Adm. Code]

C.2.i. No person may cause, allow or permit emission into the ambient air of any substance or combination of substances in such quantities that an objectionable odor is determined to result unless preventive measures satisfactory to the Department are taken to abate or control such emission. [s. NR 429.03(1), Wis. Adm. Code]

C.2.j. Open burning is prohibited except as provided in s. NR 429.04, Wis. Adm. Code. [s. NR 429.04, Wis. Adm. Code]

[Note: Under the Wisconsin Recycling Law, small businesses, commercial enterprises, and industries may not use burn barrels or engage in other kinds of open burning and may not be granted burning permits by municipalities. However, the prohibition on burn barrels does not apply to small businesses in which the owners reside at the same location and cannot separate their business waste from their household waste.]

C.2.k. No person may cause, allow or permit emissions into the ambient air from any direct or portable source in excess of one of the limits specified in ch. NR 431, Wis. Adm. Code. Where the presence of uncombined water is the only reason for failure to meet the requirements of ch. NR 431, Wis. Adm. Code, such failure is not a violation of the chapter. [s. NR 431.03, Wis. Adm. Code]

C.2.l. When the Department requires instrumentation to monitor the operation of air pollution control equipment, or to monitor source performance, the instrument shall measure operational variables with the following accuracy: [ss. NR 439.055(3) and NR 407.09(1)(c)1.c., Wis. Adm. Code]

- C.2.1.(1) The temperature monitoring device shall have an accuracy of 0.5% of the temperature being measured in degrees Fahrenheit or  $\pm 5^{\circ}\text{F}$  of the temperature being measured, or the equivalent in degrees Celsius (centigrade), whichever is greater.
- C.2.1.(2) The pressure drop monitoring device shall be accurate to within 5% of the pressure drop being measured or within  $\pm 1$  inch of water column, whichever is greater.
- C.2.1.(3) The current, voltage, flow or pH monitoring device shall be accurate to within 5% of the specific variable being measured.
- C.2.m. All instruments used for measuring source or air pollution control equipment operational variables shall be calibrated yearly or at a frequency based on good engineering practice as established by operational history, whichever is more frequent. [ss. NR 439.055(4) and NR 407.09(1)(c)1.c., Wis. Adm. Code]
- C.2.n. No person may cause, allow, or permit emissions into the ambient air of any hazardous substance in such quantity, concentration, or duration as to be injurious to human health, plant or animal life unless the purpose of that emission is for the control of plant or animal life. Hazardous substances include, but are not limited to, hazardous air contaminants listed in Tables A to C of s. NR 445.07, Wis. Adm. Code. [s. NR 445.03, Wis. Adm. Code]
- C.2.o. Chapter NR 447, Wis. Adm. Code, applies to all air contaminant sources which may emit asbestos, to their owners and operators and to any person whose action causes the emission of asbestos to the ambient air, including demolition and renovation activities. Chapter NR 447, Wis. Adm. Code, establishes emission limitations for asbestos air contaminant sources, establishes procedures to be followed when working with asbestos materials and contains additional reporting and record keeping requirements for owners or operators of asbestos air contaminant sources in order to protect air quality. [ch. NR 447, Wis. Adm. Code]
- C.2.p. Accidental Release Prevention Requirements.
- An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates:
- C.2.p.(1) June 21, 1999;
- C.2.p.(2) Three years after the date on which a regulated substance is first listed under 40 CFR 68.130;  
or
- C.2.p.(3) The date on which a regulated substance is first present above a threshold quantity in a process.
- [40 CFR Part 68.10]

**D. Reporting Requirements.**

D.1. The Department shall be notified of the following events:

<u>Event</u>	<u>Timing</u>
D.1.a. Hazardous substance air spill.	Immediate call: 1-800-943-0003
D.1.b. Malfunction or other unscheduled event which causes or may cause any emission limitation to be exceeded (except certain visible emissions limit exceedences detected by a continuous emission monitor, see s. NR 439.03(4)(a)2., Wis. Adm. Code.).	Notification by next business day of any such event at the source which is not reported in advance to the Department. Report the cause and duration of the exceedence, the period of time considered necessary for correction, and measures taken to minimize emissions during the period.
D.1.c. Deviation from any other condition specified in this permit.	Notification by next business day identifying the deviation, cause, duration and steps taken to prevent recurrence.

[ss. 285.65(10) and 292.11(2), Wis. Stats., and s. NR 439.03(4), Wis. Adm. Code]

D.2. Persons possessing or controlling a hazardous substance shall immediately notify the Department of any hazardous emission not in conformity with a permit or allowed by the Department under chs. NR 400 to 499. Notice shall be given as required by s. 292.11, Stats., and ch. NR 706.

<u>Event</u>	<u>Timing</u>
D.2.a. Hazardous substance air spill	Immediate call: 1-800-943-0003

[s. 292.11(2), Wis. Stats., and s. NR 445.16, Wis. Adm. Code]

D.3. The permittee shall report to the Department, in advance, schedules for planned shutdown and startup of air pollution control equipment and the measures to be taken to minimize the down time of the control equipment while the source is operating. Scheduled maintenance or any other scheduled event, including startup, shutdown or soot blowing procedures which have been approved by the Department under s. NR 436.03(2)(b), which causes an emission limit to be exceeded shall also be reported in advance to the Department. Advance reporting pursuant to this permit condition does not relieve any person from the duty to comply with any applicable emission limitations. Emissions in excess of the limits set in chs. NR 400-499, Wis. Adm. Code, may be allowed when the emissions are temporary and due to scheduled maintenance, startup or shutdown of operations carried out in accord with a plan and schedule approved by the Department. [s. NR 436.03(2)(b) and NR 439.03(6), Wis. Adm. Code]

D.4. The permittee shall furnish to the Department, within a reasonable time specified by the Department, any information that the Department may request in writing to determine whether cause exists to revise, revoke or suspend this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Department copies of records required to be

kept pursuant to this permit. [s. NR 407.09(1)(f)5., Wis. Adm. Code]

- D.5. The permittee shall submit the results of monitoring required by the permit to the Department according to the schedule established in Part I of this permit. Any such report shall clearly identify all instances of deviations from permit requirements. All such reports shall be signed by the responsible official for the source. [s. 285.17(2), Wis. Stats., and s. NR 439.03(1)(b), Wis. Adm. Code]
- D.6. Each report required under s. NR 439.03, Wis. Adm. Code, shall be certified by a responsible official as to its truth, accuracy and completeness. This certification and any other certification required under ch. NR 439 shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. [s. NR 439.03(10), Wis. Adm. Code]
- D.7. Except for information determined to be confidential under s. 285.70(2), Wis. Stats., any information or reports obtained by the Department in the administration of ss. 285.01 to 285.87 and 299.15, Wis. Stats., will be available for public inspection at the offices of the Department. [s. 285.70(1), Wis. Stats.]
- D.8. All certifications made under s. NR 439.03, Wis. Adm. Code, and all material statements and representations made in any report or notice required by this operation permit shall be truthful. [s. NR 439.03(11), Wis. Adm. Code]
- D.9. Any document required under this permit and submitted to the Department, including reports, shall contain a certification by a responsible official that meets the requirements of s. NR 407.05(4)(j), Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]
- D.10. For ch. NR 408, Wis. Adm. Code, (non-attainment area) major sources, the records required under s. NR 408.10(5)(a), Wis. Adm. Code.
- D.11. Copies of all records and reports required under this permit shall be retained by the permittee for a period of 5 years except for records required to be maintained or reports required to be submitted under ss. NR 405.16(3) or NR 408.10(5), Wis. Adm. Code. Records and reports required under ss. NR 405.16(3) or NR 408.10(5), Wis. Adm. Code, shall be maintained for a minimum of 10 years. [s. NR 439.04(2), Wis. Adm. Code]
- D.12. For ch. NR 405, Wis. Adm. Code, (PSD) major sources, the records required under s. NR 405.16(3)(a), Wis. Adm. Code.

**E. Right of Entry and Inspection.**

The permittee shall allow authorized representatives of the Department to enter upon the permittee's premises, to have access to and examine any record relating to emissions or required to be kept, and to make any inspection necessary to ascertain compliance with air pollution control laws and the terms of this permit. The Department may, for the purpose of determining a source's compliance with applicable requirements, sample or monitor at reasonable times production materials or other substances or operational parameters. [ss. 285.13 and 285.19, Wis. Stats., and s. NR 439.05, Wis.

Adm. Code]

**F. Malfunction Prevention and Abatement Plans.**

The owner or operator of any direct or portable source which may emit hazardous substances or emits more than 15 pounds in any day or 3 pounds in any hour of any air contaminant for which emission limits have been adopted shall prepare a written malfunction prevention and abatement plan to prevent, detect, and correct malfunctions or equipment failures which may cause any applicable emission limitation to be violated or which may cause air pollution. Any such plan shall be carried out by the owner or operator. The plan shall be updated at least every 5 years. The Department may require the plan to be submitted for review and approval. [s. NR 439.11, Wis. Adm. Code]

**G. Emission Control Action Plan.**

For source(s) covered by this permit which emit 0.25 tons or more per day of any air contaminant for which air standards have been adopted, the permittee shall prepare an emission control action program, consistent with good industrial practice and safe operating procedures, for reducing the emission of air contaminants into the outdoor atmosphere during periods of an air pollution alert, air pollution warning or air pollution emergency declared under s. NR 493.03(2), Wis. Adm. Code. The emission control action program shall be in writing, available on the premises and is subject to review and approval by the Department on request. [s. NR 493.04, Wis. Adm. Code]

**H. Change in Ownership or Control.**

In the event of a change in ownership or operational control of a source, the permittee shall file a written request for an administrative permit revision in accordance with s. NR 407.11, Wis. Adm. Code. The request should include a written agreement between the current and new owner or operator which sets forth a specific date for transfer of permit responsibility, coverage and liability. If the Department determines that no other change in this permit is necessary, this permit may be revised according to the administrative revision procedures in s. NR 407.11, Wis. Adm. Code. [s. NR 407.11(3)(a), Wis. Adm. Code]

**I. Permit Flexibility, Revision, Suspension, and Revocation.**

- I.1. Changes to the source which are not modifications and changes in permit content are regulated under the permit flexibility provisions of s. 285.60(4), Wis. Stats., and s. NR 407.025, Wis. Adm. Code, and the permit revision provisions in ss. NR 407.11, NR 407.12, NR 407.13, NR 407.14, and NR 407.16, Wis. Adm. Code.
- I.2. An operation permit may be suspended or revoked, in whole or in part, for cause. [ss. NR 407.09(1)(f)3. and NR 407.15, Wis. Adm. Code.]

**J. Construction, Reconstruction, Replacement, Relocation or Modification.**

- J.1. Unless the replacement is authorized by a permit or is exempt under s. NR 406.04, Wis. Adm. Code, replacement of the source(s) covered by this permit is prohibited. [s. 285.60(1)(a), Wis. Stats.]

- J.2. No person may commence construction, reconstruction, replacement, relocation or modification of a stationary source unless the person has a construction permit for the source or unless the source is exempt from the requirement to obtain a permit under s. 285.60(5), Wis. Stats., or under ch. NR 406, Wis. Adm. Code. Applications for the construction permit shall be submitted on forms which are available from the Department at its Madison headquarters and district offices. [s. 285.60(1)(a), Wis. Stats.]

Note: The address of the Madison headquarters is: Wisconsin Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison, WI 53707. Attention: Permit Application Forms.

- J.3. For new or modified sources for which no construction permit is required, the application for an operation permit shall be filed before the source commences construction or modification. [s. NR 407.04, Wis. Adm. Code]

**K. Circumvention.**

- K.1. The installation or use of any article, machine, equipment, process, or method which conceals an emission which would otherwise constitute a violation of an applicable rule is prohibited unless written approval has been obtained from the Department. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance and the unnecessary separation of an operation into parts to avoid coverage by a rule that applies only to operations larger than a specified size. [s. NR 439.10, Wis. Adm. Code]
- K.2. No one may render inaccurate any monitoring device or method required under ch. NR 439, Wis. Adm. Code, or in this permit. [s. NR 439.03(12), Wis. Adm. Code]
- K.3. No person may knowingly falsify, tamper with, render inaccurate or fail to install any monitoring device or method required to be maintained or followed under the Clean Air Act. [Clean Air Act s. 113(c)(2)(C); 42 USC 7413(c)(2)(C), s. 285.65(13), Wis. Stats.]

**L. Civil/Criminal Liability.**

- L.1. Nothing in this permit shall be construed to relieve the permit holder from civil and/or criminal penalties under ss. 285.87 and 299.15, Wis. Stats., for violation of the terms or conditions of this permit, or for violation of ss. 285.01 to 285.87, 292.11(2) and 299.15, Wis. Stats., or of any rule or any special order issued under those sections except where the operation permit shield provisions of s. 285.62(10)(b), Wis. Stats., are applicable. [s. 285.62(10)(b), Wis. Stats.]
- L.2. The permittee has the duty to comply with all conditions of the permit. Any noncompliance with this permit constitutes a violation of the Wisconsin statutes, the federal clean air act, or both, and is grounds for enforcement action; for permit suspension, revocation or revision; or, if allowed under s. 285.62(6), Wis. Stats., for denial of a permit renewal application. [ss. NR 407.14, NR 407.15, and NR 407.09(1)(f)1., Wis. Adm. Code, s. 285.60(7), Wis. Stats. and 42 USC 7661a]
- L.3. The following items are provided per s. NR 407.09(1)(d) and (f), Wis. Adm. Code:

- L.3.a. It is not 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 this permit. [s. NR 407.09(1)(f)2., Wis. Adm. Code]
- L.3.b. The filing of a request by the permittee for a permit revision or revocation, or the filing of a notification of planned changes under s. NR 407.025, Wis. Adm. Code, or of anticipated noncompliance, does not stay any permit condition. [s. NR 407.09(1)(f)3., Wis. Adm. Code]
- L.3.c. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege, nor does it authorize any injury to private property or any invasion of personal rights. [s. NR 407.09(1)(f)4., Wis. Adm. Code]
- L.3.d. The provisions of this permit are severable. In the event of a successful challenge to any portion of the permit, all other portions of the permit remain valid and effective. [s. NR 407.09(1)(d), Wis. Adm. Code]

**M. Recordkeeping Requirements.**

- M.1. The permittee shall maintain the following records, per s. NR 439.04, Wis. Adm. Code:
  - M.1.a. Records of all sampling, testing and monitoring conducted or required under chs. NR 400 to 499 or under this permit. Records of sampling, testing or monitoring shall include the following:
    - M.1.a.(1) The date, monitoring site and time and duration of sampling, testing, monitoring or measurements.
    - M.1.a.(2) The dates the analyses were performed.
    - M.1.a.(3) The company or entity that performed the analysis.
    - M.1.a.(4) The analytical techniques or methods used, including supporting information such as calibration and maintenance records of all original recording charts for continuous monitoring instrumentation including emissions or equipment monitors.
    - M.1.a.(5) The results of the analyses.
    - M.1.a.(6) The relevant operating conditions that existed at the time of sampling, testing, monitoring or measurement.
  - M.1.b. Records detailing all malfunctions which cause any applicable emission limitation to be exceeded, including logs to document the implementation of the plan required under s. NR 439.11, Wis. Adm. Code;
  - M.1.c. Records detailing all activities specified in any compliance schedule approved by the Department under chs. NR 400 to 499, Wis. Adm. Code; and
  - M.1.d. Any other records relating to the emission of air contaminants which may be requested in writing by the Department.

- M.2. The owner or operator of a source constructed or last modified prior to July 1, 2004, with non-exempt, potential to emit emissions of a hazardous air contaminant less than or equal to the applicable threshold in column (c), (d), (e), or (f) of Table A, B or C of s. NR 445.07 shall maintain records in accordance with s. NR 439.04(1) and (2) starting no later than June 30, 2007. [s. NR 445.08(6)(b), Wis. Adm. Code]
- M.2.a. The records shall list the hazardous air contaminants in Tables A, B, and C of s. NR 445.07 the source is capable of emitting. In addition to meeting the recordkeeping requirements of s. NR 439.04(1) and (2), an owner or operator shall:
- M.2.a.(1) Keep records of maintenance performed on any particulate matter emission control device used to comply with s. NR 445.09(3).
- M.2.a.(2) For any engine that stays or that is intended to stay in a single location for any 12 rolling month period, keep the following records:
- M.2.a.(2)1. The amount fuel oil combusted on a monthly basis for any engine not using a certified control device.
- M.2.a.(2)2. The power rating and days of operation of any CI engine used to substitute power under s. NR 445.09(1)(d).
- M.2.a.(2)3. The cost of rebuilding any CI engine on a monthly basis. [s. NR 445.09(6), Wis. Adm. Code]
- M.2.b. Keep records of actions taken to control outdoor fugitive coal dust emissions in accordance with s. NR 439.04(2). [s. NR 445.10(2)(c), Wis. Adm. Code]
- M.2.c. Keep a copy of the plan and records of all actions taken at the facility for inspection upon request. [s. NR 445.10(2)(c), Wis. Adm. Code]
- M.3. Owners and operators of facilities required to file emission inventory reports shall keep accurate and reliable records sufficient to enable verification of the reports by the Department. [s. NR 438.03(4), Wis. Adm. Code]
- M.4. Copies of all records and reports required under this permit shall be retained by the permittee for a period of 5 years. [s. NR 439.04(2), Wis. Adm. Code]
- M.5. For ch. NR 405, Wis. Adm. Code, (PSD) major sources, the permittee shall report to the Department as required under s. NR 405.16(3), Wis. Adm. Code.
- M.6. For ch. NR 408, Wis. Adm. Code, (non-attainment area) major sources, the permittee shall report to the Department as required under s. NR 408.10(5), Wis. Adm. Code.
- M.7. Except for information determined to be confidential under s. 285.70(2), Wis. Stats., any information or reports obtained by the Department in the administration of ss. 285.01 to 285.87 and 299.15, Wis. Stats., will be available for public inspection at the offices of the Department. [s. 285.70(1), Wis. Stats.]

**N. Compliance Certification.**

- N.1. The permittee shall submit compliance certifications to the Department, and part 70 sources shall also submit this compliance certification to the United States Environmental Protection Agency. [s. NR 439.03(1)(c) and (9), Wis. Adm. Code]
- N.2. The certification shall be submitted according to the schedule established in Part I of the permit. [s. NR 439.03(1)(c), Wis. Adm. Code]
- N.3. The certification shall include the following:
  - N.3.a. Identification of each permit term or condition that is the basis of the certification;
  - N.3.b. The compliance status of the source with respect to each term or condition identified in N.1.b.(1);
  - N.3.c. Whether compliance was continuous or intermittent;
  - N.3.d. Method(s) used for determining the compliance status, currently and over the previous 12 month period;
  - N.3.e. Compliance status with respect to 40 CFR 68 (Accidental Release Prevention) including registration and submission of the risk management plan, as specified in 40 CFR 68.160 and 68.150, respectively, if applicable;
  - N.3.f. Other information required to determine the compliance status of the source, as specified in this permit. [s. NR 439.03(8), Wis. Adm. Code]
- N.4. Compliance certifications shall be signed by a responsible official of the source. The responsible official shall certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [s. NR 439.03(10), Wis. Adm. Code]

**O. Required Air Emission Inventory Reports.**

The permittee shall annually submit to the Department an emission inventory report of annual, actual emissions or throughput information in accordance with ch. NR 438, Wis. Adm. Code. [s. NR 438.03, Wis. Adm. Code]

**P. Annual Emission Fees.**

The permittee shall pay an annual emissions fee to the Department at the rate specified in s. 285.69(2), Wis. Stats. [ss. NR 410.04 and NR 407.09(1)(e), Wis. Adm. Code]

**Q. General Provisions for Hazardous Air Pollutant MACT Standards.**

The general provisions in ch. NR 460, Wis. Adm. Code, apply to any permittee that is affected or becomes affected by a standard promulgated by EPA under section 112 of the act (42 USC 7412). [s. NR 460.01, Wis. Adm. Code]

**R. Stratospheric Ozone Protection.**

R.1. Federal Requirements. (Call 1-800-296-1996 for information)

R.1.a. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

R.1.a.(1) 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 section 82.106.

R.1.a.(2) The placement of the required warning statement must comply with the requirements pursuant to section 82.108.

R.1.a.(3) The form of the label bearing the required warning statement must comply with the requirements pursuant to section 82.110.

R.1.a.(4) No person may modify, remove or interfere with the required warning statement except as described in section 82.112.

R.1.b. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in 40 CFR Part 82, Subpart B:

R.1.b.(1) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to section 82.156.

R.1.b.(2) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to section 82.158.

R.1.b.(3) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to section 82.161.

R.1.b.(4) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to section 82.166 (the term, “MVAC-like appliance”, is defined in section 82.152).

R.1.b.(5) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to section 82.156.

R.1.b.(6) 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 section 82.166.

R.1.c. 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.

R.1.d. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant 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.

R.1.e. The permittee may 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.

[s. 285.65(12), Wis. Stats.]

R.2. State Requirements. (Call 1-608-264-6049 for information)

R.2.a. During the salvaging, dismantling or transporting of refrigeration equipment, no person may knowingly or negligently release ozone-depleting refrigerant to the environment, except for minimal releases that occur as a result of efforts to transfer ozone-depleting refrigerant into storage tanks. [s. 285.59(4)(a), Wis. Stats.]

R.2.b. No person may knowingly or negligently release from a storage tank to the environment ozone-depleting refrigerant that was removed during the salvaging, dismantling or transporting of refrigeration equipment, except for minimal releases that occur as a result of efforts to transfer ozone-depleting refrigerant into refrigeration equipment or other storage tanks. [s. 285.59(4)(am), Wis. Stats.]

R.2.c. No person may salvage or dismantle any refrigeration equipment unless:

R.2.c.(1) That person holds and prominently displays an annual registration of certification obtained from the Department under s. NR 488.04, Wis. Adm. Code;

R.2.c.(2) That person uses refrigerant recovery equipment approved by the Department under s. NR 488.07, Wis. Adm. Code, to transfer remaining ozone-depleting refrigerant from each piece of refrigeration equipment into storage tanks; and

R.2.c.(3) Individuals who use the approved refrigerant recovery equipment have, or are working under the direct supervision of individuals who have, the qualifications required under s. NR 488.08, Wis. Adm. Code. [s. NR 488.03(3), Wis. Adm. Code]

R.2.d. Any person who sells, gives or transports refrigeration equipment to a scrap metal processor shall:

R.2.d.(1) Transfer ozone-depleting refrigerant from the refrigeration equipment into a storage tank using approved refrigerant recovery equipment or obtain and possess documentation that

another person performed the transfer; and

- R.2.d.(2) Provide documentation to the scrap metal processor that he or she has complied with R.2.d.(1).

Note: Sample forms for the documentation of compliance with R.2.d.(1) are available from the Bureau of Air Management CFC Program.

Exemption: R.2.d.(1) and R.2.d.(2) do not apply to a person who sells, gives or transports refrigeration equipment to a scrap metal processor when that processor has agreed in writing to transfer the ozone-depleting refrigerant into a storage tank using approved refrigerant recovery equipment and that the processor is registered with the Department under s. NR 488.04. [s. NR 488.05, Wis. Adm. Code]

- R.2.e. Any person who transports, for the purposes of salvaging or dismantling, refrigeration equipment that contains ozone-depleting refrigerant shall certify to the Department that person will not knowingly or negligently release ozone-depleting refrigerant to the environment, except for minimal releases that occur as a result of refrigerant recovery efforts. This certification shall be submitted annually, along with a description of the safe transport methods to be used, and the fees required under s. NR 488.11, Wis. Adm. Code. [s. NR 488.10, Wis. Adm. Code]

### PART III PRE-APPROVED PROJECTS/FACILITY CHANGES

Part III contains construction permit requirements and permits any future pre-approved projects/facility changes listed in Part III.A. of this construction permit and operation permit. All projects/facility changes installed under Part III.A. of construction permit 11-SJZ-179 and operation permit 612023940-P10 after the issuance of this operation permit shall operate under the conditions established when the projects/facility change was installed even if the Participation Contract expires or is revoked. If the Participation Contract expires or is revoked for any reason, the installation of any future project/facility change under Part III.A. of this operation permit will be prohibited. All future projects shall then be permitted according to the traditional ch. NR 406, Wis. Adm. Code, construction permitting program. If the Participation Contract expires or is revoked for any reason, the permittee shall comply with any delayed compliance deadlines and practical interim requirements established by the department in a written revocation decision until the department issues the approvals required under chs. 280 to 295, Wis. Stats, that were replaced by the above referenced Participation Contract. All projects/facility changes permitted under Part III as well as the rest of the facility including all existing sources permitted under Part I and any sources permitted under traditional ch. NR 406, Wis. Adm. Code are subject to the volatile organic compound emission limit requirements in Part I.ZZZ.5.

#### III.A. Authorization of Future Projects/Facility Changes

The permittee may modify or construct any of the following pre-approved projects/facility changes as approved under air pollution control permit 11-SJZ-179 and adopted by this operation permit, during the term of the Participation Contract and new source permit 11-SJZ-179, subject to all applicable conditions of Part III of this permit. All other projects shall be permitted according to the ch. NR 406, Wis. Adm. Code, construction permitting program. If the Participation Contract expires or is revoked for any reason, the installation of any future pre-approved project/facility changes under Part III.A. of this operation permit will be prohibited. All future projects shall then be permitted according to the traditional ch. NR 406, Wis. Adm. Code, construction permitting program. Potential to emit emissions (after controls) from the following projects/facility changes listed below shall be limited to less than 100 tons per year for each of the following criteria pollutants: carbon monoxide, oxides of nitrogen, particulate matter, sulfur dioxide, volatile organic compounds, lead, or lead compounds.<sup>48</sup> See Part III.N.1. for the requirements. The facility shall meet any new state or federal requirement that is triggered as a result of the installation of processes under Part III.A. The operation permit shall be revised in accordance with the procedures in s. NR 407.11, s. NR 407.12, or s. NR 407.13, of the Wis. Adm. Code, as appropriate, if any new state or federal requirements are triggered.

1. Modify an existing web coating line or surface coating process. The permittee may modify on one or more occasions any of the following web coating lines which were in existence as of the date of issuance of this permit and which are part of the Paper and Other Web Coating Operations MACT (40 CFR Part 63 Subpart JJJJ) affected source: 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), and 2A Fiber Line (I2). The permittee may also modify on one or more occasions any of the following surface coating processes which are part of the Surface Coating of Plastic Parts and Products MACT (40 CFR Part 63 Subpart PPPP) and/or Surface Coating of Miscellaneous Metal Parts and Products MACT (40 CFR Part 63 Subpart MMMM) affected source: Abrasive Sponge Coating Process (P07), 24CC Maker (P55), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), and Rotopeen Line (I5). (Note: Surface Coating of Plastic Parts and Products MACT PPPP and Surface Coating of Miscellaneous Metal Parts and Products MACT MMMM for the noted processes are met by meeting the requirements of Paper and Other Web Coating Operations MACT JJJJ, as described at I.Y.) Modifications may include, but are not be limited to, one or more of the following changes.
  - (a) installation of one or more additional coating applicators and/or drying ovens
  - (b) installation of one or more additional abrasive applicators and/or drying ovens

<sup>48</sup> Because potential to emit emissions (after controls) are limited to less than 100 tons per year for carbon monoxide, oxides of nitrogen, particulate matter, sulfur dioxide, volatile organic compounds, lead, or lead compounds, an environmental assessment is not required under section NR 150.03(8)(b)1, Wis. Adm. Code.

- (c) installation of one or more in-line corona treaters
  - (d) modification of one more existing coating or abrasives applicators and/or drying ovens
  - (e) change of equipment configuration, web thread-up, air handling, sequence of operations, etc., including any such which pertain to an air pollution control device
  - (f) use of new and/or reformulated coating materials
  - (g) installation of one or more mixing vessels or other items of supporting equipment which meet the definition of ancillary operations under Paper and Other Web Coating Operations MACT JJJJ or which are part of a Surface Coating of Plastic Parts and Products MACT PPPP or Surface Coating of Miscellaneous Metal Parts and Products MACT MMMM affected source, as applicable.
2. Construct or install a new web coating line. The permittee may construct or install one or more new web coating lines which meet the definition of an affected source under 40 CFR Part 63 Subpart JJJJ. Each such newly constructed or installed web coating line shall be consistent in design and function with any of the following web coating lines which constitute the Paper and Other Web Coating Operations MACT JJJJ affected source as of issuance of this permit: 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), and 2A Fiber Line (I2). Each such newly installed web coating line may also constitute a Pressure Sensitive Tape and Label Surface Coating Operations NSPS (40 CFR Part 60 Subpart RR) affected facility. Upon construction or installation, each new web coating line becomes part of the Paper and Other Web Coating Operations MACT JJJJ affected source of the facility; that is, the new line becomes part of the collection of all web coating lines subject to Paper and Other Web Coating Operations MACT JJJJ.
  3. Construct or install a new plastic or metal parts surface coating process. The permittee may construct or install one or more new surface coating processes which meet the definition of an affected source under Miscellaneous Metal Parts and Products MACT in 40 CFR Part 63 Subpart MMMM (63.3880-63.3981) and/or Surface Coating of Plastic Parts and Products MACT in 40 CFR Part 63 Subpart PPPP (63.4480-63.4581). Each such newly constructed or installed surface coating process shall be consistent in design and function with any of the following surface coating processes of the Miscellaneous Metal Parts and Products MACT MMMM and Surface Coating of Plastic Parts and Products MACT PPPP affected sources as of issuance of this permit: Abrasive Sponge Coating Process (P07), 24CC Maker (P55), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), and Rotopeen Line (I5). Each such newly constructed or installed surface coating process will become part of the collection of equipment which is subject to the requirements of Paper and Other Web Coating Operations MACT, as described in sections I.Y. and III.M. of this permit.
  4. Subsequent modification of web coating lines or surface coating processes constructed or installed under authority of this permit. The permittee may modify on one or more occasions any web coating line or parts surface coating process which was constructed or installed under authority of Section III.A.2 or A.3 of this permit. Each such modification shall be consistent in scope and function with those modifications stated at Section III.A.1 of this permit.
  5. Installation of new or modification of existing semi-finished web processing equipment. The permittee may modify any of the existing process operations which are used for semi-finished web processing, including the Columbia Press (P40), Belt Making Area (P54), Post Cure Oven (P270), or other equipment similar in design and function that further processes web material. The permittee may also construct or install, or may subsequently modify on one or more occasions, one or more new process operations consistent in scale and function to the Columbia Press (P40), Belt Making Area (P54), Post Cure Oven (P270), or other existing semi-finished web processing equipment.

6. Installation of new or modification of existing air pollution control devices. The permittee may install one or more new air pollution control devices, or may modify an existing air pollution control device, as may be required to meet applicable emissions limitations of this permit. Such control devices for organic hazardous air pollutant emissions shall be limited to the following types: thermal oxidizers, catalytic oxidizers, and/or biofiltration. Such control devices for particulate matter shall be limited to filters, baghouses, or equipment which function by similar principle as these control devices.
  
7. R&D/Pilot/Development Projects. The permittee may modify or install a process for manufacturing research, development, scale-up, or prototype, which is not otherwise listed as a pre-approved project in Section III of this permit, which is not listed in s. NR 405.02(22)(a)1, Wis. Adm. Code, and which does not require a permit under ch. NR 405 or NR 408, or under s. NR 446.05, Wis. Adm. Code.

### III.B. Requirements that apply to all projects/facility changes authorized under Part III.A: General

1. The facility shall meet the facility-wide VOC emissions cap of 240 tons per year, summed over a rolling 12 month period specified in Part I.ZZZ.5.
2. No project/facility change authorized under Part III.A of this permit shall constitute any of the stationary sources named under 40 CFR 52.21(b)(1)(i)(a) and s. NR 405.02(22)(a), Wis. Adm. Code, for which the threshold for a major stationary source is 100 tons per year of any regulated NSR pollutant.
3. VOC emissions across the entire facility shall be compiled for each month, by the end of the following month, according to the following:
  - (a) For each month:
    - Compile** VOC data for all processes at the facility to determine monthly VOC emissions
    - Calculate** VOC emissions for each month according to I.ZZZ.5.b.(2) and III.N.1.b.(2)
    - Calculate** annual VOC emissions by summing the emissions over a rolling 12 month period, according to I.ZZZ.5.b.(4)
    - Due** by the end of the following month and include this emission data in the Semi-Annual Monitoring Summary Report
4. The permittee shall maintain a log which identifies each instance of a project/facility change made under authorization of Part III.A of this permit and the emission limit and compliance demonstration requirements that were determined using the procedures outlined in Part III of this permit.
5. For each instance of a project/facility change made under authorization of Part III.A of this permit, the following written notifications shall be provided to Wisconsin DNR.
  - (a) Initial Notification.
    1. for R&D/Pilot/Development projects authorized under Part III.A.7 of this permit, the notification shall be sent to Wisconsin DNR within 10 days prior to construction or implementation of the project/facility change, and shall include a description of how records will be maintained for that project for purposes of assuring continued compliance with the facility-wide emissions limit as well as any relevant limits. The notification shall also include an operating schedule, explanation of any calculations, emission factors, or other information which will enable the recordkeeping to be performed.
    2. the Wisconsin DNR shall approve or deny the notification requesting a research and test exemption under s. NR 406.04(1)(i), Wis. Adm. Code, for a R&D/Pilot/Development project in writing within 10 business days of being received. During this 10 day period, the Wisconsin DNR will decide if a public notice, an opportunity for public comment, and/or a public hearing of the notification requesting a research and test exemption are necessary.
    3. for all other projects authorized under Part III.A of this permit, the notification shall be sent to Wisconsin DNR within 3 days prior to construction or implementation of the project/facility. Recordkeeping for the projects listed in Part III.A. will be performed according to requirements of the relevant section in this operation permit for these projects.
  - (b) Start-up Notification. Notify Wisconsin DNR within 30 calendar days after start-up of any project/facility change authorized under Part III.A of this permit. This notification shall include the following information.

1. a general description of the project, emission calculations, emission rates, identification of which pre-approval under Part III.A of the permit applies, and an explanation of why the project is covered under that pre-approval.
  2. a listing of all applicable permit requirements for the pre-approved project/facility change and how the requirements will be satisfied [e.g. a web coating line installed without a thermal oxidizer is not subject to the thermal oxidizer requirements delineated in Part III.M.]
  3. a description of how the emission limits in s. NR 422.07 or NR 422.08, Wis. Adm. Code, s. NR 445.03, Wis. Adm. Code, Pressure Sensitive Tape and Label Surface Coating requirements in 40 CFR Part 60 Subpart RR (60.440-60.447), if applicable, and Paper and Other Web Coating Operations MACT in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420), if applicable, will be satisfied and any situations where all compliance demonstration and recordkeeping requirements for all emission limits will be satisfied by meeting the most restrictive compliance demonstration and recordkeeping requirements.
  4. a description of how VOC emissions will be tracked against the facility cap in addition to requirements in Part I.ZZZ.5. [including a description of emissions factors]
  5. identification of any ch. NR 445, Wis. Adm. Code substances, and the analysis for each, as required under this permit, demonstrating that the ch. NR 445, Wis. Adm. Code emission threshold is satisfied by either showing the concentration of the ch. NR 445, Wis. Adm. Code substance at the property line is below required levels through modeling, establishing emission limits to restrict the potential to emit emissions to less than the ch. NR 445, Wis. Adm. Code emission threshold, or other demonstration. Also include the BACT or LAER approval under Part III.C.5.(g) if applicable.
  6. identification of any of the criteria pollutants NO<sub>x</sub>, SO<sub>x</sub>, or PM, and modeling or other demonstration, as required under this permit, showing that the NAAQS and ambient air increments will not be exceeded at the property line of the facility or a more restrictive emission limit that was established to satisfy the NAAQS and ambient air increments at the property line of the facility.<sup>49</sup>
6. Applicable requirements for projects undertaken per the construction permit will be incorporated into the operation permit using the procedures outlined within s. NR 407.07(3), Wis. Adm. Code upon renewal of the operation permit or through permit revision in accordance with procedures in s. NR 407.11, s. NR 407.12, or s. NR 407.13, Wis. Adm. Code, whichever is most appropriate.

### **III.C. Requirements that apply to all projects/facility changes authorized under Part III.A: Evaluation of ch. NR 445, Wis. Adm. Code substances**

1. This facility shall apply ch. NR 445, Wis. Adm. Code.
2. No Table B (pesticides, rodenticides, insecticides, herbicides, and fungicides) or Table C (pharmaceuticals) substances of ch. NR 445, Wis. Adm. Code shall be emitted by any project/facility change authorized under Part III.A of this permit.
3. All modeling of emissions performed in connection with evaluation of ch. NR 445, Wis. Adm. Code substances, as noted herein, shall be consistent with *WDNR Dispersion Modeling Guidelines* (June 2009 or most current version).<sup>50</sup>

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<sup>49</sup> The modeling analysis shall include the most recent list of stacks and stack parameters.

4. Prior to implementation of any project/facility change authorized under Part III.A of this permit, each Table A substance of ch. NR 445, Wis. Adm. Code which will be emitted by the equipment of that project/facility change shall be evaluated according to the procedures set forth in items III.C.5 of Part III, with the following exception.

(a) Evaluation of Table A substances of ch. NR 445, Wis. Adm. Code is not required for any project/facility change authorized under Part III.A.1., 2., 3., and 4. All such project/facility changes are associated with an affected source defined by and subject to or subsumed under a standard promulgated under section 112 of the Clean Air Act. [s. NR 445.01(1)(b), Wis. Adm. Code]

5. **Procedure: Evaluation of Table A, ch. NR 445, Wis. Adm. Code Hazardous Air Pollutants**

(a) **Identify** all Table A ch. NR 445, Wis. Adm. Code substances that will be emitted by the new or modified equipment of the proposed project/facility change, consistent with the level of due diligence defined at s. NR 445.02(5), Wis. Adm. Code.

(b) **Quantify** potential hourly emissions of each Table A substance of NR 445 identified at Part III.C.5.(a) by emission point for the equipment of the proposed project/facility change

(c) **Sum** for each substance identified under Part III.C.5.(a), sum for each of the four stack categories of Table A the potential hourly emissions from equipment of the proposed project/facility change and combine with the totals for each substance from the entire facility for each of the four stack categories, with exception of any exempt emissions, such as those associated with equipment subject to section 112 of the Clean Air Act [s. NR 445.07(6)(b)1. and s. NR 445.01(1)(b), Wis. Adm. Code]

(d) **Compare** each group (the four stack categories) of emissions with the corresponding threshold found in Column (c), (d), (e), or (f) of Table A **If:** no group of emissions exceeds the respective thresholds, **Then:** document the analysis and submit with the Start-up Notification under Condition III.B.5.(b). **Otherwise:** proceed to Condition III.C.5.(e) [s. NR 445.07(6)(b)2. and s. NR 455.07(6)(c), Wis. Adm. Code]

(e) **Model** to determine the maximum potential concentration of the substance off the source property, including potential emissions of the substance from both the proposed project/facility change and the rest of the facility, with exception of any exempt emissions, such as those associated with equipment subject to section 112 of the Clean Air Act [s. NR 445.07(6)(c), Wis. Adm. Code]. **If:** this concentration is no more than the corresponding concentration in column (g) of Table A, **Then:** document the analysis and submit with the Start-up Notification under Condition III.B.5.(b), **Otherwise:** proceed to Condition III.C.5.(f) or (g).<sup>51</sup>

(f) **Apply** one of the compliance methods of s. NR 445.08(2)(a), (b), (c), (d), or (e), Wis. Adm. Code and repeat the modeling analysis, if applicable. Any operating or other limitation (e.g. limiting throughput or hours of operation of an emissions unit) which is applied under s. NR 445.08(2)(a), (b), (c), (d), or (e), Wis. Adm. Code shall be included in the Start-up Notification under Condition III.B.5.(b), along with suitable recordkeeping which provides ongoing demonstration of compliance with that operating or other limitation. [s. NR 445.08(2)(a) - (e), Wis. Adm. Code]

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<sup>50</sup> The modeling analysis shall include the most recent list of stacks and stack parameters.

<sup>51</sup> The modeling analysis shall include the most recent list of stacks and stack parameters.

(g) **Apply** Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER), in lieu of a limitation under Condition III.C.5.(f), if this is identified as an option in column (i) of Table A [s. NR 445.08(2)(f), Wis. Adm. Code]. Submit a proposal for BACT or LAER, as appropriate, to WDNR, and do not proceed with the proposed change until approved by Wisconsin DNR.

#### **III.D. Requirements that apply to all projects/facility changes authorized under Part III.A: Evaluation of PM2.5, PM10, NOx, and SOx emissions**

1. Prior to implementation of any project/facility change authorized under Part III.A of this permit which will involve an increase of potential emissions of PM2.5, PM10, NOx, **And/Or** SOx, the permittee shall assess compliance with the corresponding National Ambient Air Quality Standards (NAAQS). The facility-wide dispersion model shall be revised according to the potential emissions of PM10, NOx, **And/Or** SOx. PM2.5 emissions only need to be included in the air quality review if the project/facility change involves an increase in particulate matter emissions. Assessing compliance with the PSD increments is not necessary because Crawford County is not a prevention of significant deterioration (PSD) source baseline county. If Crawford County becomes a PSD baseline county, then compliance with the PSD increments will need to be assessed.
2. **Alternative:** As an alternative to conducting a facility-wide dispersion model to assess compliance with the corresponding National Ambient Air Quality Standards (NAAQS), the permittee may elect to determine if the impact from an individual project/facility change authorized under Part III.A of this permit is less than 75 percent of the PSD significant impact levels (SIL).
3. All modeling shall be performed in accordance with *WDNR Dispersion Modeling Guidelines* (June 2009) or most current guidance.<sup>52</sup>
4. **If:** the modeling demonstrates compliance with the National Ambient Air Quality Standards (NAAQS) for each of the substances PM2.5, PM10, NOx, and SOx which will be emitted by the project/facility change authorized under Part III.A, **Then:** the permittee may proceed with the project/facility change, according to all other applicable requirements of Part III of this permit. The permittee shall submit results of the updated dispersion model with the Start-up Notification under Condition III.B.5.(b).
5. **If:** the modeling demonstrates that the impact from an individual project/facility change authorized under Part III.A of this permit is less than 75 percent of the PSD significant impact levels (SIL), **Then:** the permittee may proceed with the project/facility change, according to all other applicable requirements of Part III of this permit. The permittee shall submit results of the updated dispersion model with the Start-up Notification under Condition III.B.5.(b).
6. **If:** compliance with one or more NAAQS of PM2.5, PM10, NOx, and SOx is not demonstrated by modeling performed under Part III.D.1., **Then:** the permittee may re-do the dispersion model with revised stack parameters, work-practice limits, or other constraints which result in meeting the NAAQS. The permittee shall submit results of this dispersion model in Start-up Notification under Condition III.B.5.(b)., along with the corresponding constraints, and recordkeeping which is put in place to demonstrate ongoing compliance with the constraints.
7. **If:** the modeling demonstrates that the impact from an individual project/facility change authorized under Part III.A of this permit is greater than 75 percent of the PSD significant impact levels (SIL), **Then:** the permittee shall conduct a facility-wide dispersion model according to Part III.D.1. **Or:** the permittee may re-do the dispersion model with revised stack parameters, work-practice limits, or other constraints which result in an impact of less than 75 percent of the PSD significant impact levels (SIL). The permittee shall submit results of the updated dispersion model with the Start-up Notification under Condition III.B.5.(b).

<sup>52</sup> The modeling analysis shall include the most recent list of stacks and stack parameters.

**III.E. Requirements that apply to all projects/facility changes authorized under Part III.A: Stack Parameters**

1. The permittee shall maintain a current list of stacks and corresponding parameters. Prior to implementation of any project/facility change authorized under Part III.A of this permit which requires assessment by dispersion modeling under Part III.C or D, the permittee shall revise the list of stacks and their corresponding parameters with the list of stacks and their corresponding parameters used in the most recent dispersion model showing compliance with ch. NR 445, Wis. Adm. Code and NAAQS. The list of stacks and stack parameters shall be continuously updated after a new process is installed so future modeling analyses includes the most current list of stacks and stack parameters.
2. No project/facility change authorized under Part III.A of this permit shall commence operation until the actual dimensions of all stacks of the facility are updated according to those listed in Part III.E.1.

**III.F. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Modify an existing web coating line or surface coating process. (Part III.A.1.)**

1. The permittee shall meet the following requirements for any modification to an existing web coating line:

(a) Meet the requirements in sections listed below for any modification to an existing web coating line:

<b>Any modification to the following lines:</b>	<b>Then meet the following requirements in:</b>
Abrasive Sponge Coating Process (P07)	I.D., I.Y., I.ZZZ., III.M.
22 Maker (P30)	I.E., I.Y., I.ZZZ., III.M.
21 Maker (P31)	I.F., I.Y., I.ZZZ., III.M.
Coiled Web Maker (P32)	I.G., I.Y., I.ZZZ., III.M.
Safety Walk Maker (P44)	I.J., I.Y., I.ZZZ., III.M.
24CC Maker (P55)	I.O., I.Y., I.ZZZ., III.M.
25 Maker (P56)	I.P., I.Y., I.ZZZ., III.M.
27 Maker (P67)	I.T., I.Y., I.ZZZ., III.M.
Sanding Cloth Line (P68)	I.U., I.Y., I.ZZZ., III.M.
General Purpose Bun Coater (I1)	I.Y., I.ZZZ., III.M.
2A Fiber Line (I2)	I.Y., I.ZZZ., III.M.
General Purpose Polyurethane Foam Process (Slab Press) (I3)	I.Y., I.ZZZ., III.M.
Roloc Semi-Automated and Manual Disc Assembly (I4)	I.Y., I.ZZZ., III.M.
Rotopreen Line (I5)	I.Y., I.ZZZ., III.M.

2. The permittee shall meet the following Pressure Sensitive Tape and Label Surface Coating requirements, where applicable.

**III.F. Pressure Sensitive Tape and Label Surface Coating Requirements 40 CFR Part 60 Subpart RR (60.440-60.447)**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
2. Volatile Organic Compound (VOC) Emissions- Pressure Sensitive Tape and Label	(1) <b>Limit:</b> Where applicable, volatile organic compound emissions are limited to the following Pressure Sensitive Tape and Label Surface Coating requirements in 40 CFR Part 60 Subpart RR (60.440-60.447):	(1) <b>Demonstrate:</b> Where applicable, the permittee shall demonstrate compliance by meeting one of the following: (a) To determine compliance with III.F.2.a.(1)(a), <b>Calculate:</b> a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to 40	(1) <b>Monitoring and Recordkeeping:</b> The permittee shall meet the monitoring and recordkeeping requirements in 40 CFR 60.445, where applicable. [s. 285.65(13), Wis. Stats., 40 CFR Part 60.445]  (2) <b>Reporting:</b> The permittee shall meet the reporting requirements in 40 CFR 60.447, where applicable. [s. 285.65(13), Wis. Stats., 40 CFR Part 60.447]

**III.F. Pressure Sensitive Tape and Label Surface Coating Requirements 40 CFR Part 60 Subpart RR (60.440-60.447)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>Surface Coating requirements in 40 CFR Part 60 Subpart RR (60.440-60.447)</p>	<p>(a) 0.20 kilogram VOC per kilogram of coating solids applied as calculated on a weighted average basis for one calendar month; <b>Or</b>                      (b) Demonstrate for each new web coating line;                      (i) A 90 percent overall VOC emission reduction as calculated over a calendar month; <b>Or</b>                      (ii) The percent overall VOC emission reduction specified in 40 CFR 60.443(b) as calculated over a calendar month.  <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR Part 60.442(a)(1) and (2)]</a></p>	<p>CFR 443(a). <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(a)]</a> <b>Or</b>                      (b) To determine compliance with III.F.2.a.(1)(b), <b>Calculate:</b> the required overall VOC emission reduction according to 40 CFR 60.443(b). <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(b)]</a> <b>Or</b>                      (c) <b>Where:</b> compliance with the emission limit specified in III.F.2.a.(1)(b) is achieved through the use of a solvent recovery system, <b>Determine:</b> the overall VOC emission reduction for a one calendar month period according to 40 CFR 60.443(c). <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(c)]</a> <b>Or</b>                      (d) <b>Where:</b> compliance with the emission limit specified in III.F.2.a.(1)(b) is achieved through the use of a solvent destruction device, <b>Determine:</b> the calendar monthly compliance by comparing the monthly required overall VOC emission reduction determined in III.F.2.b.(1)(b) to the overall VOC emission reduction demonstrated in the most recent performance test which complied with III.F.2.a.(1)(b). <a href="#">[s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(d)]</a> <b>Or</b>                      (e) <b>Where:</b> compliance with the emission limit specified in III.F.2.a.(1)(b) is achieved through the use of a solvent destruction device, <b>Then:</b> continuously record the destruction device combustion temperature during coating operations for</p>	

**III.F. Pressure Sensitive Tape and Label Surface Coating Requirements 40 CFR Part 60 Subpart RR (60.440-60.447)**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
2. Volatile Organic Compound (VOC) Emissions- Pressure Sensitive Tape and Label Surface Coating requirements in 40 CFR Part 60 Subpart RR (60.440-60.447) (continued)		thermal incineration destruction devices or the gas temperature upstream and downstream of the incinerator catalyst bed during coating operations for catalytic incineration destruction devices according to 40 CFR 60.443(e). [ <a href="#">s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(e)</a> ]	

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

1. The permittee shall meet the following requirements for the construction or installation of a new web coating line consistent in design and function with any of the following web coating lines which are part of the Paper and Other Web Coating Operations MACT JJJJ affected source as of issuance of this permit: 22 Maker (P30), 21 Maker (P31), Coiled Web Maker (P32), Safety Walk Maker (P44), 25 Maker (P56), 27 Maker (P67), Sanding Cloth Line (P68), General Purpose Bun Coater (I1), and 2A Fiber Line (I2):

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions (Total Suspended Particulate)	(1) <b>Limit: If:</b> particulate matter emissions are generated, <b>Then:</b> limit emissions to the most restrictive of the applicable limit found in s. NR 415.05(1), Wis. Adm. Code <b>And</b> $E = 3.59 (P)^{0.62}$ where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour. [s. NR 415.05(2), Wis. Adm. Code]	(1) <b>If:</b> a control device is required for particulate matter emissions to meet the National Ambient Air Quality Standards (NAAQS), then the facility shall perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]	(1) <b>Reference Test Method: Particulate Matter If:</b> emissions testing is requested by the department for purposes of determining compliance with the PM emissions limit, <b>Then:</b> use 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H or 17 <b>And</b> U.S. EPA Method 202 for condensable particulate matter, <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code.]  (2) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]  (3) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]  (4) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equivalent, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]
2. PM10 Emissions	(1) <b>Limit: If:</b> PM10 emissions are generated and <b>If:</b> the PM10 emission rate	(1) <b>If:</b> a control device is required for PM10 emissions to meet the National Ambient Air Quality Standards	(1) <b>Reference Test Method for PM10: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S.

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. PM10 Emissions (continued)	exceeds the National Ambient Air Quality Standards (NAAQS) for PM10, <b>Then:</b> limit PM10 emissions to satisfy the NAAQS. [s. 285.65(7), Wis. Stats., s. NR 404.08(2), Wis. Adm. Code]	(NAAQS), <b>Then:</b> the facility shall perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]  (2) <b>If:</b> a more restrictive PM10 emission limit to meet the National Ambient Air Quality Standards (NAAQS) is necessary, <b>Then:</b> the records required in III.G.2.c.(2), (3), and (4) and maintaining operating parameters according to III.G.2.c.(5) shall be used to demonstrate compliance. [s. NR 407.09(4)(a)1., Wis. Adm. Code]	EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]  (2) <b>Maintain:</b> The permittee shall keep and maintain on site technical drawings, blueprints or equivalent records of the physical stack parameters. [s. NR 439.04(1)(d), Wis. Adm. Code]  (3) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]  (4) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]  (5) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equal, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]
3. PM2.5 Emissions	(1) <b>Limit: If:</b> PM2.5 emissions are generated and <b>If:</b> the PM2.5 emission rate exceeds the National Ambient Air Quality Standards (NAAQS) for PM2.5, <b>Then:</b> limit PM2.5 emissions to satisfy the NAAQS. [s. 285.65(7), Wis. Stats., s. NR 404.08(2), Wis.	(1) <b>If:</b> a control device is required for PM2.5 emissions to meet the National Ambient Air Quality Standards (NAAQS), <b>Then:</b> the facility shall perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]  (2) <b>If:</b> a more restrictive PM2.5 emission	(1) <b>Reference Test Method for PM2.5: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM2.5 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. [s. NR 439.06(8), Wis. Adm. Code]  (2) <b>Maintain:</b> The permittee shall keep and maintain on site technical drawings, blueprints or equivalent records of the

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
3. PM2.5 Emissions (continued)	Adm. Code]	limit to meet the National Ambient Air Quality Standards (NAAQS) is necessary, <b>Then:</b> the records required in III.G.3.c.(2), (3), and (4) and maintaining operating parameters according to III.G.3.c.(5) shall be used to demonstrate compliance. [s. NR 407.09(4)(a)1., Wis. Adm. Code]	physical stack parameters. [s. NR 439.04(1)(d), Wis. Adm. Code]  (3) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]  (4) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]  (5) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equal, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]
4. Visible Emissions	(1) <b>Limit:</b> Visible emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20 percent opacity. [s. NR 431.05, Wis. Adm. Code]	(1) The compliance demonstration requirements in III.G.1.b., III.G.2.b., and III.G.3.b. for particulate matter, PM10, and PM2.5 emissions, respectively also serve as the compliance demonstration requirements for visible emissions. [s. NR 407.09(1)(c)1.a., Wis. Adm. Code]	(1) <b>Reference Test Method: Visible Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]  (2) The recordkeeping and monitoring requirements in III.G.1.c.(2), (3), and (4) for particulate matter emissions and III.G.2.c.(2) for PM10 emissions also serve as the recordkeeping and monitoring requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]
5. Volatile Organic Compound	(1) <b>Limit:</b> <b>If:</b> volatile organic compound emissions exceed 15 pounds per day, <b>Then:</b> the	(1) <b>Control:</b> <b>If:</b> using a control device to control emissions by 85%, <b>Then:</b> the permittee shall operate the control device	(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b> <b>If:</b> emissions testing is requested by the department for

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>(VOC) Emissions- Chapter NR 424, Wis. Adm. Code</p>	<p>permittee shall do one of the following:                      (a) control emissions by 85% <b>Or</b>                      (b) conduct a Latest Available Control Techniques (LACT) analysis according to the WDNR LACT analysis guidance (February 1995) or the most current guidance to determine the feasibility of controlling emissions. Where 85% control has been demonstrated to be technologically infeasible, volatile organic compound emissions shall be limited to the Latest Available Control Techniques and Operating Practices (LACT). LACT has been determined to be the following:                      (i) use low volatile organic compound containing raw material where possible, <b>And</b>                      (ii) volatile organic compound emissions are limited to the rate at which the LACT analysis was conducted.                      (iii) <b>Or</b> an alternative control technique</p>	<p>whenever the web coating line is operating and perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(2) <b>Calculate: If:</b> limiting volatile organic compound emissions to LACT, <b>Then:</b> calculate the monthly volatile organic compound emissions by the last day of each month, for the preceding month according to the following:  <math display="block">X = (EF) * (Throughput) / (2,000 \text{ lb/ton})</math>                     where,  <b>X</b> = monthly volatile organic compound emissions (ton/month)  <b>EF</b> = emission factor (lb VOC/gal coating, lb VOC/lb raw material, or equivalent) as determined by AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, equipment manufacturer data,  <b>Throughput</b> = material throughput (gal/month or lb/month)                      [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(3) <b>Calculate: If:</b> limiting volatile organic compound emissions to LACT,</p>	<p>purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(3) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]</p> <p>(4) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equivalent, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]</p> <p>(5) <b>Recordkeeping:</b> The permittee shall keep records of the following:                      (a) emission factors from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the emission factor source, how the emission factors from compliance emission test data, monitoring data, or equipment manufacturer data were developed,                      (b) VOC content in each raw material from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets</p>

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>5. Volatile Organic Compound (VOC) Emissions-Chapter NR 424, Wis. Adm. Code (continued)</p>	<p>approved by the department in writing. <a href="#">[s. NR 424.03(2)(b) and (c), Wis. Adm. Code]</a></p>	<p><b>Then:</b> calculate the total volatile organic compound emissions over a rolling 12 month period by the end of the following month by summing the emissions of the current month with those of the preceding 11 months,  <b>When:</b> by the last day of the following month  <b>Using:</b> the following equation:</p> $E_{total} = \sum X_n$ <p>where,  <math>E_{total}</math> = tons of all VOC emitted in a rolling 12 month period (ton/yr)  <math>X_n</math> = tons of VOC emissions in a month as calculated in condition III.G.5.b.(2) (ton/month)  <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a></p>	<p>(SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the VOC content source, how the VOC content from compliance emission test data, monitoring data, or equipment manufacturer data was developed,                  (c) density of coating and coating density source, where applicable,                  (d) record daily throughput or other throughput data collected within each month that is used to determine the monthly raw material throughput,                  (e) monthly raw material throughput,                  (f) the calculation of the VOC emissions,                  (g) the monthly volatile organic compound emissions, <b>And</b>                  (h) the total volatile organic compound emissions summed over each rolling 12 month period.  <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code]</a></p>
<p>6. Volatile Organic Compound (VOC) Emissions-Ch. NR 422, Wis. Adm. Code</p> <p>Note: These ch. NR 422, Wis. Adm. Code requirements only apply to coating lines while applying</p>	<p>(1) <b>Limit:</b> In lieu of meeting the requirements in III.G.5. and <b>If:</b> volatile organic compound emissions exceed 15 pounds per day, <b>Then:</b> limit volatile organic compound emissions to the following ch. NR 422, Wis. Adm. Code requirements, if applicable:                  (a) 0.35 kilograms per liter of coating (2.9 pounds per gallon), excluding water, delivered to each coating applicator from a paper</p>	<p>(1) <b>Demonstrate:</b> The permittee shall demonstrate compliance according to any combination of the following:                  (a) calculate emissions using in-line averaging, <a href="#">[s. NR 422.04(1), Wis. Adm. Code]</a> <b>Or</b>                  (b) use low solvent content coating technology, <a href="#">[s. NR 422.04(2)(a), Wis. Adm. Code]</a> <b>Or</b>                  (c) use a capture system and a vapor recovery system which recovers the solvent for reuse, provided that the capture system provides at least 95% capture or as otherwise required in s. NR 422.04(4), Wis. Adm. Code, <a href="#">[ss. NR</a></p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Content</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining the VOC content, <b>Then:</b> use U.S. EPA Method 24 or 24A in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(b), Wis. Adm. Code]</a></p> <p>(2) <b>Recordkeeping:</b> The permittee shall record the following:                  (a) the volatile organic compound content in the coatings excluding water, delivered to each coating applicator <b>And</b>                  (b) the method used to demonstrate compliance.  <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code]</a></p>

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>coatings to a paper (including metal foil and plastic films, as defined at NR 422.02(62), Wis. Adm. Code), fabric, vinyl, or fabric web. These requirements do not apply to coating of non-woven webs, such as the non-woven webs utilized by 21 Maker (P31), 22 Maker (P30), and 25 Maker (P56) as configured as of the date of issuance of this permit.</p>	<p>coating line, [ss. NR 422.07(2) and NR 424.03(3), Wis. Adm. Code] <b>Or</b>                      (b) 0.35 kilograms per liter of coating (2.9 pounds per gallon), excluding water, delivered to each coating applicator from a fabric coating line, [s. NR 422.08(2)(a) and NR 424.03(3), Wis. Adm. Code] <b>Or</b>                      (c) 0.45 kilograms per liter of coating (3.8 pounds per gallon), excluding water, delivered to each coating applicator from a vinyl coating line. [s. NR 422.08(2)(b) and NR 424.03(3), Wis. Adm. Code]</p>	<p>422.04(2)(b) and NR 422.04(4), Wis. Adm. Code] <b>Or</b>                      (d) use capture system and incineration or catalytic oxidation, provided that 90% of the non-methane VOCs (VOC measured as total combustible carbon) which enter the incinerator or oxidation unit are oxidized to non-organic compounds, and provided that the capture system provides at least 95% capture or as otherwise required by s. NR 422.04(4), Wis. Adm. Code, [s. NR 422.04(2)(c), Wis. Adm. Code] <b>Or</b>                      (e) use a high transfer efficiency coating application. [s. NR 422.04(3), Wis. Adm. Code]</p>	
<p>7. Volatile Organic Compound (VOC) Emissions- Pressure Sensitive Tape and Label Surface Coating</p>	<p>(1) <b>Limit:</b> Where applicable, volatile organic compound emissions are limited to the following Pressure Sensitive Tape and Label Surface Coating requirements in 40 CFR Part 60 Subpart RR (60.440-60.447):                      (a) 0.20 kilogram VOC per</p>	<p>(1) <b>Demonstrate:</b> Where applicable, the permittee shall demonstrate compliance by meeting one of the following:                      (a) To determine compliance with III.G.7.a.(1)(a), <b>Calculate:</b> a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to 40 CFR 443(a). [s. 285.65(13), Wis. Stats.,</p>	<p>(1) <b>Monitoring and Recordkeeping:</b> The permittee shall meet the monitoring and recordkeeping requirements in 40 CFR 60.445, where applicable. [s. 285.65(13), Wis. Stats., 40 CFR Part 60.445]                      (2) <b>Reporting:</b> The permittee shall meet the reporting requirements in 40 CFR 60.447, where applicable. [s. 285.65(13), Wis. Stats., 40 CFR Part 60.447]</p>

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>requirements in 40 CFR Part 60 Subpart RR (60.440-60.447)</p>	<p>kilogram of coating solids applied as calculated on a weighted average basis for one calendar month; <b>Or</b>                      (b) Demonstrate for each new web coating line;                      (i) A 90 percent overall VOC emission reduction as calculated over a calendar month; <b>Or</b>                      (ii) The percent overall VOC emission reduction specified in 40 CFR 60.443(b) as calculated over a calendar month.                      [s. 285.65(13), Wis. Stats., 40 CFR Part 60.442(a)(1) and (2)]</p>	<p>40 CFR Part 60.443(a)] <b>Or</b>                      (b) To determine compliance with III.G.7.a.(1)(b), <b>Calculate:</b> the required overall VOC emission reduction according to 40 CFR 60.443(b). [s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(b)] <b>Or</b>                      (c) <b>Where:</b> compliance with the emission limit specified in III.G.7.a.(1)(b) is achieved through the use of a solvent recovery system, <b>Determine:</b> the overall VOC emission reduction for a one calendar month period according to 40 CFR 60.443(c). [s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(c)] <b>Or</b>                      (d) <b>Where:</b> compliance with the emission limit specified in III.G.7.a.(1)(b) is achieved through the use of a solvent destruction device, <b>Determine:</b> the calendar monthly compliance by comparing the monthly required overall VOC emission reduction determined in III.G.7.b.(1)(b) to the overall VOC emission reduction demonstrated in the most recent performance test which complied with III.G.7.a.(1)(b). [s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(d)] <b>Or</b>                      (e) <b>Where:</b> compliance with the emission limit specified in III.G.7.a.(1)(b) is achieved through the use of a solvent destruction device, <b>Then:</b> continuously record the destruction device combustion temperature during coating operations for</p>	

**III.G. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new web coating line. (Part III.A.2.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
7. Volatile Organic Compound (VOC) Emissions- Pressure Sensitive Tape and Label Surface Coating requirements in 40 CFR Part 60 Subpart RR (60.440-60.447) (continued)		thermal incineration destruction devices or the gas temperature upstream and downstream of the incinerator catalyst bed during coating operations for catalytic incineration destruction devices according to 40 CFR 60.443(e). [s. 285.65(13), Wis. Stats., 40 CFR Part 60.443(e)]	
8. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420)	(1) <b>Limit:</b> Organic hazardous air pollutant (HAP) emissions are limited to the Paper and Other Web Coating Operations MACT JJJJ (63.3280-63.3420) requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]	(1) Refer to the compliance demonstration requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]	(1) Refer to the Reference Test Methods, Recordkeeping and Monitoring Requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]

**III.H. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new plastic or metal parts surface coating process. (Part III.A.3.)**

1. The permittee shall meet the following requirements for the construction or installation of a new plastic or metal parts surface coating process consistent in design and function with any of the following surface coating processes of the Miscellaneous Metal Parts and Products MACT MMMM and Surface Coating of Plastic Parts and Products MACT PPPP affected sources as of issuance of this permit: Abrasive Sponge Coating Process (P07), 24CC Maker (P55), General Purpose Polyurethane Foam Process (Slab Press) (I3), Roloc Semi-Automated and Manual Disc Assembly (I4), and Rotopeen Line (I5):

**III.H. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new plastic or metal parts surface coating process. (Part III.A.3.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Particulate Matter Emissions (Total Suspended Particulate)	(1) <b>Limit: If:</b> particulate matter (total suspended particulate) emissions are generated, <b>Then:</b> limit emissions to the most restrictive of the applicable limit found in s. NR 415.05(1), Wis. Adm. Code <b>And</b> $E = 3.59 (P)^{0.62}$ where, E is the emission limit in pounds per hour, and P is the process weight rate in tons per hour. [s. NR 415.05(2), Wis. Adm. Code]	(1) <b>If:</b> a control device is required for particulate matter emissions to meet the particulate matter emission limit, <b>Then:</b> the facility shall perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]	(1) <b>Reference Test Method: Particulate Matter If:</b> emissions testing is requested by the department for purposes of determining compliance with the PM emissions limit, <b>Then:</b> use 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H or 17 <b>And</b> U.S. EPA Method 202 for condensible particulate matter, <b>Or</b> another method approved by the department in writing. [s. NR 439.06(1), Wis. Adm. Code.]  (2) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]  (3) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]  (4) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equal, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]
2. PM10 Emissions	(1) <b>Limit: If:</b> PM10 emissions are generated and <b>If:</b> the PM10 emission rate exceeds the National	(1) <b>If:</b> a control device is required for particulate matter emissions to meet the National Ambient Air Quality Standards (NAAQS), <b>Then:</b> the facility shall	(1) <b>Reference Test Method for PM10: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b>

**III.H. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new plastic or metal parts surface coating process. (Part III.A.3.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>2. PM10 Emissions (continued)</p>	<p>Ambient Air Quality Standards (NAAQS) for PM10, <b>Then:</b> limit PM10 emissions to satisfy the NAAQS. [s. 285.65(7), Wis. Stats., s. NR 404.08(2), Wis. Adm. Code]</p>	<p>perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(2) <b>If:</b> a more restrictive particulate matter emission limit to meet the National Ambient Air Quality Standards (NAAQS) is necessary, <b>Then:</b> the records required in III.H.2.c.(2), (3), and (4), and maintaining operating parameters according to III.H.2.c.(5) shall be used to demonstrate compliance. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p>	<p>U.S. EPA Method 202 for condensible backhalf emissions <b>OR</b> another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]</p> <p>(2) <b>Maintain:</b> The permittee shall keep and maintain on site technical drawings, blueprints or equivalent records of the physical stack parameters. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(3) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(4) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]</p> <p>(5) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equal, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]</p>
<p>3. PM2.5 Emissions</p>	<p>(1) <b>Limit: If:</b> PM2.5 emissions are generated and <b>If:</b> the PM2.5 emission rate exceeds the National Ambient Air Quality Standards (NAAQS) for PM2.5, <b>Then:</b> limit PM2.5 emissions to satisfy the NAAQS. [s. 285.65(7), Wis. Stats., s. NR 404.08(2), Wis. Adm. Code]</p>	<p>(1) <b>If:</b> a control device is required for PM2.5 emissions to meet the National Ambient Air Quality Standards (NAAQS), <b>Then:</b> the facility shall perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(2) <b>If:</b> a more restrictive PM2.5 emission limit to meet the National Ambient Air</p>	<p>(1) <b>Reference Test Method for PM2.5: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM2.5 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensible backhalf emissions <b>OR</b> another method approved by the department in writing. [s. NR 439.06(8), Wis. Adm. Code]</p> <p>(2) <b>Maintain:</b> The permittee shall keep and maintain on site technical drawings, blueprints or equivalent records of the physical stack parameters. [s. NR 439.04(1)(d), Wis. Adm.</p>

**III.H. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new plastic or metal parts surface coating process. (Part III.A.3.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
3. PM2.5 Emissions (continued)		Quality Standards (NAAQS) is necessary, <b>Then:</b> the records required in III.H.3.c.(2), (3), and (4) and maintaining operating parameters according to III.H.3.c.(5) shall be used to demonstrate compliance. [s. NR 407.09(4)(a)1., Wis. Adm. Code]	Code]  (3) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]  (4) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]  (5) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equal, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]
4. Visible Emissions	(1) <b>Limit:</b> Visible emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20 percent opacity. [s. NR 431.05, Wis. Adm. Code]	(1) The compliance demonstration requirements in III.H.1.b., III.H.2.b., and III.H.3.b. for particulate matter, PM10, and PM2.5 emissions, respectively also serve as the compliance demonstration requirements for visible emissions. [s. NR 407.09(1)(c)1.a., Wis. Adm. Code]	(1) <b>Reference Test Method: Visible Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]  (2) The recordkeeping and monitoring requirements in III.H.1.c.(2), III.H.1.c.(3), and III.H.1.c.(4) for particulate matter emissions and III.H.2.c.(2) for PM10 emissions also serve as the recordkeeping and monitoring requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]
5. Volatile Organic Compound (VOC)	(1) <b>Limit: If:</b> volatile organic compound emissions exceed 15 pounds per day, <b>Then:</b> the permittee shall do one of the	(1) <b>Control: If:</b> using a control device to control emissions by 85%, <b>Then:</b> the permittee shall operate the control device whenever the plastic or metal parts	(1) <b>Reference Test Method:: Volatile Organic Compound Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic

**III.H. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new plastic or metal parts surface coating process. (Part III.A.3.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>Emissions-Chapter NR 424, Wis. Adm. Code</p>	<p>following:                      (a) control emissions by 85% <b>Or</b>                      (b) conduct a Latest Available Control Techniques (LACT) analysis according to the WDNR LACT analysis guidance (February 1995) or the most current guidance to determine the feasibility of controlling emissions. Where 85% control has been demonstrated to be technologically infeasible, volatile organic compound emissions shall be limited to the Latest Available Control Techniques and Operating Practices (LACT). LACT has been determined to be the following:                      (i) use low volatile organic compound containing raw material where possible <b>And</b>                      (ii) volatile organic compound emissions are limited to the rate at which the LACT analysis was conducted.                      (iii) <b>Or</b> an alternative control technique approved by the</p>	<p>surface coating process is operating and perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(2) <b>Calculate: If:</b> limiting volatile organic compound emissions to LACT, <b>Then:</b> calculate the monthly volatile organic compound emissions by the last day of each month, for the preceding month according to the following:  <math display="block">X = (EF) * (Throughput) / (2,000 \text{ lb/ton})</math>                     where,                      X = monthly volatile organic compound emissions (ton/month)                      EF = emission factor (lb VOC/gal coating, lb VOC/lb raw material, or equivalent) as determined by AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, equipment manufacturer data,  <b>Throughput</b> = material throughput (gal/month or lb/month)                      [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(3) <b>Calculate: If:</b> limiting volatile organic compound emissions to LACT, <b>Then:</b> calculate the total volatile organic</p>	<p>compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(3) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]</p> <p>(4) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equivalent, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]</p> <p>(5) <b>Recordkeeping:</b> The permittee shall keep records of the following:                      (a) emission factors from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the emission factor source, how the emission factors from compliance emission test data, monitoring data, or equipment manufacturer data were developed,                      (b) VOC content in each raw material from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods,</p>

**III.H. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new plastic or metal parts surface coating process. (Part III.A.3.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>5. Volatile Organic Compound (VOC) Emissions- Chapter NR 424, Wis. Adm. Code (continued)</p>	<p>department in writing. [s. NR 424.03(2)(b) and (c), Wis. Adm. Code]</p>	<p>compound emissions over a rolling 12 month period by the end of the following month by summing the emissions of the current month with those of the preceding 11 months, <b>When:</b> by the last day of the following month <b>Using:</b> the following equation:   <math display="block">E_{total} = \sum X_n</math>                     where,  <math>E_{total}</math> = tons of all VOC emitted in a rolling 12 month period (ton/yr)  <math>X_n</math> = tons of VOC emissions in a month as calculated in condition III.H.5.b.(2) (ton/month)                      [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p>	<p>monitoring data, or equipment manufacturer data, the VOC content source, how the VOC content from compliance emission test data, monitoring data, or equipment manufacturer data was developed,                      (c) density of coating and coating density source, where applicable,                      (d) record daily throughput or other throughput data collected within each month that is used to determine the monthly raw material throughput,                      (e) monthly raw material throughput,                      (f) the calculation of the VOC emissions,                      (g) the monthly volatile organic compound emissions, <b>And</b>                      (h) the total volatile organic compound emissions summed over each rolling 12 month period.                      [s. NR 439.04(1)(d), Wis. Adm. Code]</p>
<p>6. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Surface Coating of Miscellaneous Metal Parts and Products in 40 CFR Part 63</p>	<p>(1) <b>Limit:</b> Organic hazardous air pollutant emissions are limited to the Miscellaneous Metal Parts and Products MACT MMMM (63.3880-63.3981) requirements were applicable as described in Part III.M.</p>	<p>(1) Refer to the compliance demonstration requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]</p>	<p>(1) Refer to the Reference Test Methods, Recordkeeping and Monitoring Requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]</p>

**III.H. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new plastic or metal parts surface coating process. (Part III.A.3.)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
Subpart MMMM (63.3880-63.3981)			
7. National Emission Standards for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Surface Coating of Plastic Parts and Products in 40 CFR Part 63 Subpart PPPP (63.4480-63.4581)	(1) <b>Limit:</b> Organic hazardous air pollutants (HAP) emissions are limited to the Surface Coating of Plastic Parts and Products MACT PPPP (63.4480-63.4581) requirements were applicable as described in Part III.M.	(1) Refer to the compliance demonstration requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]	(1) Refer to the Reference Test Methods, Recordkeeping and Monitoring Requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]
8. National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations in 40	(1) <b>Limit:</b> Organic hazardous air pollutants (HAP) emissions are limited to the Paper and Other Web Coating Operations MACT JJJJ (63.3280-63.3420) requirements were applicable as described in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]	(1) Refer to the compliance demonstration requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]	(1) Refer to the Reference Test Methods, Recordkeeping and Monitoring Requirements in Part III.M. [s. 285.65(13), Wis. Stats., 40 CFR Part 63 Subpart JJJJ]

**III.H. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Construct or install a new plastic or metal parts surface coating process. (Part III.A.3.)**

<b>Pollutant</b>	<b>a. Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
CFR Part 63 Subpart JJJJ (63.3280- 63.3420)			

**III.I. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Subsequent modification of web coating lines or surface coating processes constructed or installed under authority of this permit. (Part III.A.4.)**

1. The permittee shall meet the following requirements for the subsequent modification of web coating lines or surface coating processes constructed or installed under authority of this permit:
  - (a) for modifications to web coating lines installed under authority of this permit, meet the requirements in Part III.G.
  - (b) for modifications to surface coating processes installed under authority of this permit, meet the requirements in Part III.H.

**III.J. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: Installation of new or modification of existing semi-finished web processing equipment. (Part III.A.5)**

1. The permittee shall meet the following requirements for the modification of the Columbia Press (P40), Belt Making Area (P54), or other equipment similar in design and function that further processes web material:
  - (a) the modification of the Columbia Press (P40) and Belt Making Area (P54) are subject to the requirements in Parts I.I. and I.N. of this permit, respectively
2. The permittee shall meet the following requirements in Part III.J. below for the installation of a new or subsequent modification of a semi-finished web processing equipment consistent in scale and function to the Columbia Press (P40), Belt Making Area (P54), or other existing semi-finished web processing equipment:

**III.J. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: Installation of new or modification of existing semi-finished web processing equipment. (Part III.A.5)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Volatile Organic Compound (VOC) Emissions	<p>(1) <b>Limit: If:</b> volatile organic compound emissions exceed 15 pounds per day, <b>Then:</b> the permittee shall do one of the following:</p> <p>(a) control emissions by 85% <b>Or</b></p> <p>(b) conduct a Latest Available Control Techniques (LACT) analysis according to the WDNR LACT analysis guidance (February 1995) or the most current guidance to determine the feasibility of controlling emissions. Where 85% control has been demonstrated to be technologically infeasible, volatile organic compound emissions shall be limited to the Latest Available Control Techniques and Operating Practices (LACT). LACT has</p>	<p>(1) <b>Control: If:</b> using a control device to control emissions by 85%, <b>Then:</b> the permittee shall operate the control device whenever the web coating line is operating and perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(2) <b>Calculate: If:</b> limiting volatile organic compound emissions to LACT, <b>Then:</b> calculate the monthly volatile organic compound emissions by the last day of each month, for the preceding month according to the following:</p> <p><b>X = (EF) * (Throughput) / (2,000 lb/ton)</b></p> <p>where,  <b>X</b> = monthly volatile organic compound emissions (ton/month)  <b>EF</b> = emission factor (lb VOC/gal coating, lb VOC/lb raw material, or equivalent) as determined by AP-42, FIRE, Material Safety Data Sheets</p>	<p>(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b>  <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound concentrations or emission rates, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(3)(a), Wis. Adm. Code]</p> <p>(2) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> <p>(3) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm.</p>

**III.J. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: Installation of new or modification of existing semi-finished web processing equipment. (Part III.A.5)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
<p>1. Volatile Organic Compound (VOC) Emissions (continued)</p>	<p>been determined to be the following:</p> <ul style="list-style-type: none"> <li>(i) use low volatile organic compound containing raw material where possible <b>And</b></li> <li>(ii) volatile organic compound emissions are limited to the rate at which the LACT analysis was conducted</li> <li>(iii) <b>Or</b> an alternative control technique approved by the department in writing.</li> </ul> <p>[s. NR 424.03(2)(b) and (c), Wis. Adm. Code]</p>	<p>(MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, equipment manufacturer data,</p> <p><b>Throughput</b> = material throughput (gal/month or lb/month) [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(3) <b>Calculate:</b> the total volatile organic compound emissions over a rolling 12 month period by summing the emissions of the current month with those of the preceding 11 months, <b>When:</b> by the last day of the following month <b>Using:</b> the following equation:</p> $E_{total} = \sum X_n$ <p>where,  <math>E_{total}</math> = tons of all VOC emitted in a rolling 12 month period (ton/yr)  <math>X_n</math> = tons of VOC emissions in a month as calculated in condition III.J.1.b.(2) (ton/month)                  [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p>	<p>Code]</p> <p>(4) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equivalent, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]</p> <p>(5) <b>Recordkeeping:</b> The permittee shall keep records of the following:</p> <ul style="list-style-type: none"> <li>(a) emission factors from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the emission factor source, how the emission factors from compliance emission test data, monitoring data, or equipment manufacturer data were developed,</li> <li>(b) VOC content in each raw material from AP-42, FIRE, Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), compliance emission test data, EPA test methods, monitoring data, or equipment manufacturer data, the VOC content source, how the VOC content from compliance emission test data, monitoring data, or equipment manufacturer data was developed,</li> <li>(c) density of coating and coating density source, where applicable,</li> <li>(d) record daily throughput or other throughput data collected within each month that is used to determine the monthly raw material throughput,</li> <li>(e) monthly raw material throughput,</li> <li>(f) the calculation of the VOC emissions,</li> <li>(g) the monthly volatile organic compound emissions, <b>And</b></li> </ul>

**III.J. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: Installation of new or modification of existing semi-finished web processing equipment. (Part III.A.5)**

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Volatile Organic Compound (VOC) Emissions (continued)			(h) the total volatile organic compound emissions summed over each rolling 12 month period. [s. NR 439.04(1)(d), Wis. Adm. Code]
2. Visible Emissions	(1) <b>Limit:</b> Visible emissions are limited to a number 1 of the Ringlemann chart or 20% opacity. [ss. NR 431.05, Wis. Adm. Code]	(1) The compliance demonstration requirements in III.J.1.b. for volatile organic compound emissions also serve as the compliance demonstration requirements for visible emissions. [s. 285.65(7), Wis. Stats., s. NR 407.09(4)(a)3.b., Wis. Adm. Code]	(1) <b>Reference Test Method: Visible Emissions If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]  (2) The recordkeeping and monitoring requirements in III.J.1.c.(2), (3), (4), and (5) for volatile organic compound emissions also serve as the recordkeeping and monitoring requirements for visible emissions. [ss. NR 407.09(4)(a)1. and NR 439.04(1)(d), Wis. Adm. Code]

**III.K. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A.: Installation of new or modification of existing air pollution control devices (Part III.A.6.)**

1. The permittee shall meet the following requirements for the modification of an air pollution control device:
  - (a) where applicable, meet the control device requirements in Paper and Other Web Coating Operations MACT in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) found in Part I.Y. and Part III.M.
2. The permittee shall meet the following requirements for the installation of a new air pollution control device:
  - (a) where applicable, meet the control device requirements in Paper and Other Web Coating Operations MACT in 40 CFR Part 63 Subpart JJJJ (63.3280-63.3420) found in Part I.Y. and Part III.M.
  - (b) establish operation techniques and monitoring procedures necessary to ensure optimum operation according to the manufacturer's recommendations and the Wis. Adm. Code
  - (c) maintain records of the operation techniques, monitoring procedures, and other control device operation information

**III.L. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: R&D/Pilot/Development Projects (Part III.A.7)**

For all projects in this R&D section: within 12 months of startup of a research and testing activity approved in this section, the facility shall determine maximum theoretical emissions, potential emissions, and the potential applicable State and Federal compliance requirements relating to this potential process. On or before the end of this 12 month period, 3M will decide if the process is to be placed into production or will otherwise remain at this facility. If the facility chooses to keep the process at this facility, and if emissions exceed permitting thresholds as identified in ch. NR 406 and/or NR 407, Wis. Adm. Code, the facility shall apply for and receive either a new source construction permit and/or a revision of the Title V operating permit before production commences. If emissions are less than permitting thresholds and the project meets the exemptions identified in ch. NR 406, Wis. Adm. Code, the Wisconsin DNR shall issue a construction permit exemption. If 3M chooses not to proceed with placing the process in production, the process shall be removed from the facility or remain non-operational. If 12 months is insufficient to provide 3M an ability to install, test, and determine the fate of the potential process under this approval, 3M is prohibited to continue work on the process/project until such time as 3M applies for and receives a new source construction permit per ch. NR 406, Wis. Adm. Code, based on anticipated emissions from the process/project, for those projects above exemption levels identified in ch. NR 406.04(2), Wis. Adm. Code. [\[s. NR 406.04\(1\)\(i\) & NR 406.03, Wis. Adm. Code\]](#)

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Volatile Organic Compound (VOC) Emissions	(1) <b>Limit:</b> Volatile organic compound emissions are limited to the Latest Available Control Techniques and Operating Practices (LACT). LACT has been determined to be the following (a) limit actual VOC emissions to less than or equal to 25 tons per year, summed over a rolling 12 month period <a href="#">[s. 285.65(7), Wis. Stats. and s. NR 424.03(2)(c), Wis. Adm. Code]</a>	(1) <b>Document:</b> calculations for determining VOC emissions. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a>  (2) <b>Record:</b> for each month of operation: (a) amount (pounds) of each raw material used; (b) VOC emissions (lb/month and ton/yr) <a href="#">[s. NR 439.04(d), Wis. Adm. Code]</a>  (3) <b>Record:</b> for each day, whether the emissions-generating portion of the process operated <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a>	(1) <b>Reference Test Method: Volatile Organic Compound Emissions</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the volatile organic compound emission limits, <b>Then:</b> use U.S. EPA Method 18, 25, 25A or 25B in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04(13), Wis. Adm. Code <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(3)(a), Wis. Adm. Code,</a>
2. Particulate Matter Emissions (Total Suspended Particulate)	(1) <b>Limit:</b> Particulate matter (total suspended particulate) emissions to the most restrictive of the following: (a) the applicable limit in s. NR 415.05(1), Wis. Adm. Code <b>And</b> (b) the emission rate determined from the process weight rate equation: $E = 3.59 (P)^{0.62}$ where, E is the emission limit in pounds per hour, and P is the	(1) <b>If:</b> a control device is required to meet the particulate matter emission limit, <b>Then:</b> the facility shall perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a>	(1) <b>Reference Test Method: Particulate Matter</b> <b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the particulate matter emissions limit, <b>Then:</b> use U.S. EPA Method 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H or 17 including condensable backhalf emissions (U.S. EPA Method 202) <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 439.06(1), Wis. Adm. Code]</a>  (2) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to

**III.L. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: R&D/Pilot/Development Projects (Part III.A.7)**

For all projects in this R&D section: within 12 months of startup of a research and testing activity approved in this section, the facility shall determine maximum theoretical emissions, potential emissions, and the potential applicable State and Federal compliance requirements relating to this potential process. On or before the end of this 12 month period, 3M will decide if the process is to be placed into production or will otherwise remain at this facility. If the facility chooses to keep the process at this facility, and if emissions exceed permitting thresholds as identified in ch. NR 406 and/or NR 407, Wis. Adm. Code, the facility shall apply for and receive either a new source construction permit and/or a revision of the Title V operating permit before production commences. If emissions are less than permitting thresholds and the project meets the exemptions identified in ch. NR 406, Wis. Adm. Code, the Wisconsin DNR shall issue a construction permit exemption. If 3M chooses not to proceed with placing the process in production, the process shall be removed from the facility or remain non-operational. If 12 months is insufficient to provide 3M an ability to install, test, and determine the fate of the potential process under this approval, 3M is prohibited to continue work on the process/project until such time as 3M applies for and receives a new source construction permit per ch. NR 406, Wis. Adm. Code, based on anticipated emissions from the process/project, for those projects above exemption levels identified in ch. NR 406.04(2), Wis. Adm. Code. [s. NR 406.04(1)(i) & NR 406.03, Wis. Adm. Code]

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
2. Particulate Matter Emissions (Total Suspended Particulate) (continued)	process weight rate in tons per hour. [s. NR 415.05(2), Wis. Adm. Code]		satisfy requirements in the Wis. Adm. Code.  (3) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]  (4) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations and calibrate at least once per year. [ss. NR 439.11(1)(b) and NR 439.055(4), Wis. Adm. Code]
3. PM10 Emissions	(1) <b>Limit:</b> PM10 emissions to a more restrictive emission limit to satisfy the National Ambient Air Quality Standards (NAAQS). [s. 285.65(7), Wis. Stats., s. NR 404.08(2), Wis. Adm. Code]	(1) <b>If:</b> a control device is required for PM10 emissions to meet the National Ambient Air Quality Standards (NAAQS), <b>Then:</b> the facility shall perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]  (2) <b>If:</b> a PM10 emission limit to meet the National Ambient Air Quality Standards (NAAQS) is necessary, <b>Then:</b> the records required in III.L.3.c.(2), (3), and (4) and maintaining operating parameters according to III.L.3.c.(5) shall be used to	(1) <b>Reference Test Method for PM10: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM10 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the department in writing. [s. NR 439.06(1m), Wis. Adm. Code]  (2) <b>Maintain:</b> The permittee shall keep and maintain on site technical drawings, blueprints or

**III.L. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: R&D/Pilot/Development Projects (Part III.A.7)**

For all projects in this R&D section: within 12 months of startup of a research and testing activity approved in this section, the facility shall determine maximum theoretical emissions, potential emissions, and the potential applicable State and Federal compliance requirements relating to this potential process. On or before the end of this 12 month period, 3M will decide if the process is to be placed into production or will otherwise remain at this facility. If the facility chooses to keep the process at this facility, and if emissions exceed permitting thresholds as identified in ch. NR 406 and/or NR 407, Wis. Adm. Code, the facility shall apply for and receive either a new source construction permit and/or a revision of the Title V operating permit before production commences. If emissions are less than permitting thresholds and the project meets the exemptions identified in ch. NR 406, Wis. Adm. Code, the Wisconsin DNR shall issue a construction permit exemption. If 3M chooses not to proceed with placing the process in production, the process shall be removed from the facility or remain non-operational. If 12 months is insufficient to provide 3M an ability to install, test, and determine the fate of the potential process under this approval, 3M is prohibited to continue work on the process/project until such time as 3M applies for and receives a new source construction permit per ch. NR 406, Wis. Adm. Code, based on anticipated emissions from the process/project, for those projects above exemption levels identified in ch. NR 406.04(2), Wis. Adm. Code. [\[s. NR 406.04\(1\)\(i\) & NR 406.03, Wis. Adm. Code\]](#)

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
3. PM10 Emissions (continued)		demonstrate compliance. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a>	equivalent records of the physical stack parameters. <a href="#">[s. NR 439.04(1)(d), Wis. Adm. Code]</a>  (3) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code.  (4) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. <a href="#">[ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]</a>  (5) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations and calibrate at least once per year. <a href="#">[ss. NR 439.11(1)(b) and NR 439.055(4), Wis. Adm. Code]</a>
4. PM2.5 Emissions	(1) <b>Limit: If:</b> PM2.5 emissions are generated and <b>If:</b> the PM2.5 emission rate exceeds the National Ambient Air Quality Standards (NAAQS) for PM2.5, <b>Then:</b> limit PM2.5 emissions to satisfy the NAAQS. <a href="#">[s.</a>	(1) <b>If:</b> a control device is required for PM2.5 emissions to meet the National Ambient Air Quality Standards (NAAQS), <b>Then:</b> the facility shall perform the associated monitoring required for that control device in accordance with the Wis. Adm. Code. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a>	(1) <b>Reference Test Method for PM2.5: If:</b> emission testing is requested by the department for purposes of determining compliance with the PM2.5 emission limit, <b>Then:</b> use U.S. EPA Method 201 or 201A, for non-condensable emissions <b>And</b> U.S. EPA Method 202 for condensable backhalf emissions <b>OR</b> another method approved by the

**III.L. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: R&D/Pilot/Development Projects (Part III.A.7)**

For all projects in this R&D section: within 12 months of startup of a research and testing activity approved in this section, the facility shall determine maximum theoretical emissions, potential emissions, and the potential applicable State and Federal compliance requirements relating to this potential process. On or before the end of this 12 month period, 3M will decide if the process is to be placed into production or will otherwise remain at this facility. If the facility chooses to keep the process at this facility, and if emissions exceed permitting thresholds as identified in ch. NR 406 and/or NR 407, Wis. Adm. Code, the facility shall apply for and receive either a new source construction permit and/or a revision of the Title V operating permit before production commences. If emissions are less than permitting thresholds and the project meets the exemptions identified in ch. NR 406, Wis. Adm. Code, the Wisconsin DNR shall issue a construction permit exemption. If 3M chooses not to proceed with placing the process in production, the process shall be removed from the facility or remain non-operational. If 12 months is insufficient to provide 3M an ability to install, test, and determine the fate of the potential process under this approval, 3M is prohibited to continue work on the process/project until such time as 3M applies for and receives a new source construction permit per ch. NR 406, Wis. Adm. Code, based on anticipated emissions from the process/project, for those projects above exemption levels identified in ch. NR 406.04(2), Wis. Adm. Code. [s. NR 406.04(1)(i) & NR 406.03, Wis. Adm. Code]

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
4. PM2.5 Emissions (continued)	285.65(7), Wis. Stats., s. NR 404.08(2), Wis. Adm. Code]	(2) <b>If:</b> a more restrictive PM2.5 emission limit to meet the National Ambient Air Quality Standards (NAAQS) is necessary, <b>Then:</b> the records required in III.L.4.c.(2), (3), and (4) and maintaining operating parameters according to III.L.4.c.(5) shall be used to demonstrate compliance. [s. NR 407.09(4)(a)1., Wis. Adm. Code]	department in writing. [s. NR 439.06(8), Wis. Adm. Code]  (2) <b>Maintain:</b> The permittee shall keep and maintain on site technical drawings, blueprints or equivalent records of the physical stack parameters. [s. NR 439.04(1)(d), Wis. Adm. Code]  (3) <b>Record:</b> the appropriate operating data as necessary on the control device, if required, to satisfy requirements in the Wis. Adm. Code. [s. NR 439.04(1)(d), Wis. Adm. Code]  (4) <b>Record:</b> each inspection, check, and any maintenance or repairs performed on the control device, if required, including the date and time of the action, initials of inspector, and the results. [ss. NR 439.04(1)(d), and NR 407.09(1)(c) Wis. Adm. Code]  (5) <b>Maintain:</b> the operating parameters on the control device, if required, in accordance with the manufacturer’s recommendations, or equal, and calibrate at least once per year. [s. NR 439.11(1)(b) and s. NR 439.055(4), Wis. Adm. Code]
5. Visible	(1) <b>Limit:</b> Visible emissions are	(1) The compliance demonstration requirement for	(1) <b>Reference Test Method: Visible Emissions</b>

**III.L. Applicable Requirements for Specific Projects/Facility Changes Authorized under Part III.A: R&D/Pilot/Development Projects (Part III.A.7)**

For all projects in this R&D section: within 12 months of startup of a research and testing activity approved in this section, the facility shall determine maximum theoretical emissions, potential emissions, and the potential applicable State and Federal compliance requirements relating to this potential process. On or before the end of this 12 month period, 3M will decide if the process is to be placed into production or will otherwise remain at this facility. If the facility chooses to keep the process at this facility, and if emissions exceed permitting thresholds as identified in ch. NR 406 and/or NR 407, Wis. Adm. Code, the facility shall apply for and receive either a new source construction permit and/or a revision of the Title V operating permit before production commences. If emissions are less than permitting thresholds and the project meets the exemptions identified in ch. NR 406, Wis. Adm. Code, the Wisconsin DNR shall issue a construction permit exemption. If 3M chooses not to proceed with placing the process in production, the process shall be removed from the facility or remain non-operational. If 12 months is insufficient to provide 3M an ability to install, test, and determine the fate of the potential process under this approval, 3M is prohibited to continue work on the process/project until such time as 3M applies for and receives a new source construction permit per ch. NR 406, Wis. Adm. Code, based on anticipated emissions from the process/project, for those projects above exemption levels identified in ch. NR 406.04(2), Wis. Adm. Code. [s. NR 406.04(1)(i) & NR 406.03, Wis. Adm. Code]

Pollutant	a. Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
Emissions	limited to number 1 of the Ringlemann chart or 20 percent opacity. [ss. NR 431.05, Wis. Adm. Code]	particulate matter emissions, condition under III.L.2.b., III.L.3.b., and III.L.4.b. for particulate matter, PM10, and PM2.5 emissions, respectively are deemed sufficient to demonstrate compliance with the visible emission limit.	<p><b>If:</b> emissions testing is requested by the department for purposes of determining compliance with the visible emission limit, <b>Then:</b> use U.S. EPA Method 9 in 40 CFR Part 60, Appendix A, incorporated by reference in s. NR 484.04, Wis. Adm. Code <b>Or</b> another method approved by the department in writing. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The recordkeeping and monitoring requirements for particulate matter emissions outlined in condition III.L.2.c.(2), (3), and (4) for particulate matter emissions and III.L.3.c.(2) for PM10 emissions also serve as recordkeeping and monitoring requirements for visible emissions. [s. NR 407.09(1)(c)1.a., Wis. Adm. Code]</p>

**III.M. Applicable Requirements for Specific Pre-Approve Projects/Facility Changes Authorized under Part III.A: National Emission Standard for Hazardous Air Pollutants (Maximum Achievable Control Technology (MACT)) for Paper and Other Web Coating Operations Requirements (40 CFR Part 63 Subpart JJJJ (63.3280-63.3420)) Requirements Applicable to Pre-Approve Projects/Facility Changes (Part III.A.1, 2, 3, 4, 6)**

1. This section applies, as applicable, to each instance of modification or installation of a new web coating line or surface coating process and associated air pollution control devices under authority of any of the following.
  - (a) Modify an existing web coating line or surface coating process (Part III.A.1.)
  - (b) Construct or install a new web coating line (Part III.A.2.)
  - (c) Construct or install a new plastic or metal parts surface coating process (Part III.A.3.)
  - (d) Subsequent modification of web coating lines or surface coating processes constructed or installed under authority of this permit (Part III.A.4.)
  - (e) Installation of new or modification of existing air pollution control devices (Part III.A.6.)
2. The permittee is allowed to meet the Paper and Other Web Coating Operations MACT JJJJ standard as an alternative to meeting the following standards:
  - (a) Miscellaneous Metal Parts and Products MACT MMMM (63.3880-63.3981)
  - (b) Surface Coating of Plastic Parts and Products MACT PPPP (63.4480-63.4581)
3. Each web coating line or surface coating process which is modified or installed under authority of Part III of this permit shall meet all applicable requirements of Section I.Y. in addition to all applicable requirements of this section.

Installation of one or more web coating lines at the 3M Prairie du Chien plant or modification of any web coating line constitutes "modification of an existing affected source" under 40 CFR Part 63 Subpart JJJJ [the affected source being the collection of web coating lines], and as such is not subject to advance written approval under 40 CFR 63.5. Reconstruction of the 40 CFR Part 63 Subpart JJJJ affected source at the 3M Prairie du Chien plant is not authorized under Part III.A of this permit.

**III.M. Applicable Emission Standards for Web and Surface Coating Lines**

Pollutant	a. Meet the following requirement	Citation
1. Organic Hazardous Air Pollutant (HAP) Emissions:	(1) <b>Limit:</b> Organic hazardous air pollutant (HAP) emissions to the emission requirements in Part I.Y.1.a. of this permit	40 CFR 63.3320(b)(1), (2), (3), and (4)

**III.M. Recordkeeping Requirements for Web and Surface Coating Lines.** Each web coating line or surface coating process which is modified or installed under authority of Part III of this permit shall meet the recordkeeping requirements of Section I.Y, in addition to the following requirements, as applicable.

Applies to:	a. Meet the following requirement	Citation
each web coating line connected to an air pollution control device	<b>Record</b> each occurrence and duration of each startup, shutdown, or malfunction	40 CFR 63.10(b)(2)(i)
each web coating line with a continuous monitoring system (CMS)	<b>Record</b> total process operating time during the reporting period	40 CFR 63.10(c)(13)

**III.M. Monitoring Requirements for Web and Surface Coating Lines.** Each web coating line or surface coating process which is modified or installed under authority of Part III of this permit shall meet the requirements of Section I.Y, in addition to the following requirements, as applicable.

Applies to:	a. Meet the following requirement	Citation
each catalytic oxidizer	<p><b>Monitor</b> <math>\Delta T</math> across the catalyst bed</p> <p><b>How:</b> by temperature sensor at inlet and outlet of the catalyst bed, <b>And</b> continuous recorder</p> <p><b>Accuracy:</b> greater of: <math>\pm 1\%</math> of true temperature (<math>^{\circ}C</math>) being monitored, <b>Or</b> <math>\pm 1^{\circ}C</math></p>	40 CFR 63.3350(e)(9)(iii)

**III.M. Performance Testing Requirements for Web and Surface Coating Lines.** The permittee shall meet the performance testing requirements below for each of the following change, as applicable:

- (a) each instance of installation of a new web coating line for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (b) each instance of installation of a new surface coating process for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (c) each instance of installation or modification of a control device which is used to meet the emissions standards in Sections I.Y. and III.M.

Applies to:	a. Meet the following requirement	Citation
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**III.M. Performance Testing Requirements for Web and Surface Coating Lines.** The permittee shall meet the performance testing requirements below for each of the following change, as applicable:

- (a) each instance of installation of a new web coating line for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (b) each instance of installation of a new surface coating process for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (c) each instance of installation or modification of a control device which is used to meet the emissions standards in Sections I.Y. and III.M.

Applies to:	a. Meet the following requirement	Citation
each air pollution control device	<p><b>Conduct:</b> Performance Test, including establish destruction or removal efficiency of the air pollution control device</p> <p><b>Due:</b> within 180 days after start-up of each new or modified air pollution control device</p> <p><b>(Note:</b> The performance tests conducted for I.E.1.b.(1), I.F.2.b.(1), I.H.1.b.(1), and I.O.1.b.(1) also satisfies this requirement if the destruction or removal efficiency of the regenerative thermal oxidizer C01 and the capture efficiency of the capture system are determined.)</p> <p><b>How:</b> according to the test methods, data reduction requirements, etc. of 40 CFR 63.3360(e)(1)(i)-(x) and (e)(2), 40 CFR 63.7(e)(1)-(4), and Part I.ZZZ.3.</p>	40 CFR 3360(a)(2), 40 CFR 63.3360(e)(1), 40 CFR 63.7(a)(2)(ix)
each thermal oxidizer (non-catalytic oxidizer)	<p><b>Determine:</b> the combustion temperature limit</p> <p><b>When:</b> during the initial performance test</p> <p><b>How:</b> according to the following:</p> <p>(i) Monitor and record the combustion temperature at least once every 15 minutes during each of the three test runs. Monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. <b>And</b></p> <p>(ii) Use the data collected during the performance test to calculate and record the average combustion temperature maintained during the performance test. This average combustion temperature is the minimum operating limit for the thermal oxidizer.</p>	40 CFR 3321(a), 40 CFR Part 63 Table 1, 40 CFR 3360(a)(2), 40 CFR 63.3360(e)(3)(i)(A) and (B)

**III.M. Performance Testing Requirements for Web and Surface Coating Lines.** The permittee shall meet the performance testing requirements below for each of the following change, as applicable:

- (a) each instance of installation of a new web coating line for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (b) each instance of installation of a new surface coating process for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (c) each instance of installation or modification of a control device which is used to meet the emissions standards in Sections I.Y. and III.M.

Applies to:	a. Meet the following requirement	Citation
each catalytic oxidizer	<p><b>Determine:</b> the catalyst inlet temperature and the temperature difference across the catalyst bed.</p> <p><b>When:</b> during initial performance test</p> <p><b>How:</b> according to the following:</p> <ul style="list-style-type: none"> <li>(i) Monitor and record the catalyst inlet temperature and temperature difference across the catalyst bed at least once every 15 minutes during each of the three test runs. <b>And</b></li> <li>(ii) Use the data collected during the initial performance test to calculate and record the average inlet temperature and average temperature difference across the catalyst bed maintained during the performance test. These values are the minimum operating limit for the catalytic oxidizer.</li> <li>(iii) The average inlet temperature to the catalyst and temperature difference across the catalyst bed in any 3-hour period shall not be less than the temperature limit established according to the most recent performance test.</li> </ul>	40 CFR 63.3360(e)(3)(ii)(A) and (B), 40 CFR 63.3321(a), 40 CFR Part 63 Table 1
each thermal or catalytic oxidizer	<p><b>Determine:</b> the destruction efficiency of each oxidizer</p> <p><b>When:</b> during initial performance test</p> <p><b>How:</b> according to 40 CFR 63.3360(e) such that control device inlet and outlet testing is conducted simultaneously, and the data are reduced in accordance with the test methods and procedures in 40 CFR 63.3360(e)(1)(i) through (ix) or other test methods and procedures approved by the department in writing. The performance test must be conducted in three test runs as specified in 40 CFR 63.7(e)(3) and I.ZZZ.3. and each test run must last at least 1 hour.</p>	40 CFR 3360(a)(2), 40 CFR 63.3360(e)

**III.M. Performance Testing Requirements for Web and Surface Coating Lines.** The permittee shall meet the performance testing requirements below for each of the following change, as applicable:

- (a) each instance of installation of a new web coating line for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (b) each instance of installation of a new surface coating process for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (c) each instance of installation or modification of a control device which is used to meet the emissions standards in Sections I.Y. and III.M.

Applies to:	a. Meet the following requirement	Citation
each capture system	<p><b>Determine:</b> capture efficiency</p> <p><b>When:</b> as part of each performance test of an air pollution control device, as applicable</p> <p><b>How:</b> according to the following, as applicable:</p> <p>(i) <b>Assume:</b> the capture efficiency equals 100 percent if the capture system is a permanent total enclosure (PTE). Confirm that the capture system is a PTE by demonstrating that it meets the requirements of section 6 of EPA Method 204 of 40 CFR part 51, appendix M, and that all exhaust gases from the enclosure are delivered to a control device.</p> <p>(ii) <b>Determine:</b> capture efficiency according to the protocols for testing with temporary total enclosures that are specified in Methods 204 and 204A through F of 40 CFR part 51, appendix M. The permittee may exclude never-controlled work stations from such capture efficiency determinations.</p> <p>(iii) <b>Protocol and Test Methods:</b> use any capture efficiency protocol and test methods that satisfy the criteria of either the Data Quality Objective or the Lower Confidence Limit approach as described in appendix A of subpart KK of this part. The permittee may exclude never-controlled work stations from such capture efficiency determinations.</p>	s. 285.65(13), Wis. Stats., 40 CFR 63.3360(a)(2), 40 CFR 63.3360(f)(1), (2), and (3)
Other types of control devices	<p><b>If:</b> using a control device other than an oxidizer to meet the emission limitations in I.Y.1.a. and III.M. or monitoring an alternative parameter and complying with a different operating limit is necessary,</p> <p><b>Then:</b> apply to the department for approval of an alternative monitoring method under 40 CFR 63.8(f).</p>	40 CFR 63.3321(b), 40 CFR 3350(a)(3), 40 CFR 63.3350(e)(10)

**III.M. Performance Testing Requirements for Web and Surface Coating Lines.** The permittee shall meet the performance testing requirements below for each of the following change, as applicable:

- (a) each instance of installation of a new web coating line for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (b) each instance of installation of a new surface coating process for which a new or existing control device is used to meet the emissions standards in Sections I.Y. and III.M.
- (c) each instance of installation or modification of a control device which is used to meet the emissions standards in Sections I.Y. and III.M.

Applies to:	a. Meet the following requirement	Citation
each performance test	<p><b>Develop:</b> a written, site-specific Test Plan</p> <p><b>Submit:</b> submit to WDNR only if requested</p> <p><b>Content:</b> according to 40 CFR 63.7(c)(2)</p>	40 CFR 63.7(c)(2)(i)
each performance test	<p><b>Submit:</b> Notification of Performance Test</p> <p><b>Due:</b> at least 60 calendar days before the day of the performance test</p> <p><b>Content:</b> include a site-specific test plan required under 40 CFR 63.7(c)(2) and identify the operating parameters to be monitored to ensure that the capture efficiency of the capture system and the control efficiency of the control device determined during the performance test are maintained.</p>	40 CFR 63.3400(d)
<b>If</b> a scheduled performance test cannot be performed	<p><b>Reschedule</b> according to 40 CFR 63.7(b)(2)</p>	40 CFR 63.7(b)(2)
each performance test	<p><b>Request:</b> performance audit (PA) samples from the EPA Regional Office <b>Or</b> from the responsible enforcement authority</p> <p><b>Due:</b> 30 days prior to the test</p> <p><b>Analyze:</b> PA samples during the performance test, <b>Unless</b> EPA/enforcement authority fails to provide the samples on time</p>	40 CFR 63.7(c)(4)(i)
each performance test	<p><b>Submit:</b> Performance Test Report</p> <p><b>Due:</b> at least 60 calendar days after the completion of the performance test</p> <p><b>Content:</b> include the results of the performance test. The Performance Test Reports can be submitted with the Notification of Compliance Status reports in I.Y.1.c.(7).</p>	40 CFR 63.3400(f), 40 CFR 63.10(d)(2)

**III.M. Requirements for Written Plans and General Operating Requirements for Web and Surface Coating Lines.**

Each web coating line or surface coating process which is modified or installed under authority of Part III of this permit shall meet the written plan and general operating requirements of Section I.Y., in addition to the following requirements, as applicable.

Applies to:	a. Meet the following requirement	Citation
<p><b>Applies If:</b> use an air pollution control device (APCD)</p>	<p><b>Develop, Implement:</b> Startup, Shutdown, and Malfunction Plan  <b>Due:</b> at startup  <b>Retention:</b> each superseded version for 5 years  <b>Content:</b> according to 40 CFR 63.10(d)(5)</p>	<p>40 CFR 63.6(e)(3)</p>
<p>each capture system of each air pollution control device</p>	<p><b>Develop:</b> Capture System Site-Specific Monitoring Plan  <b>Content:</b> specify/identify:</p> <ul style="list-style-type: none"> <li>• operation parameter to be monitored and rationale</li> <li>• value or range needed to meet emissions standards</li> <li>• corresponding specific monitoring procedures</li> </ul> <p><b>Review:</b> annually</p>	<p>40 CFR 63.3350(f)</p>

**III.N. Conditions that apply to all project/facility changes under Part III.A.**

<b>Pollutant</b>	<b>a. Emission Limitations</b>	<b>b. Compliance Demonstration</b>	<b>c. Reference Test Methods, Recordkeeping and Monitoring Requirements</b>
<p>1. Criteria Pollutants: Carbon Monoxide, Oxides of Nitrogen, Particulate Matter, Sulfur Dioxide, Volatile Organic Compounds, Lead, or Lead Compounds</p>	<p>(1) <b>Limit:</b> The potential to emit emissions (after controls) for each criteria pollutant shall be limited to less than 100 tons per year for each process/facility change under Part III.A, except for R&amp;D/Pilot/Development Projects for which the emissions of each criteria pollutant shall be limited to less than 100 tons per year for the sum of all such R&amp;D/Pilot/Development Projects authorized under Part III.A.7. The 100 ton per year limit on carbon monoxide, oxides of nitrogen, particulate matter, PM10, PM2.5, sulfur dioxide, volatile organic compounds, lead, or lead compounds, was established to avoid conducting an environmental assessment under sections NR 150.03(8)(b)1. and NR 150.20(1), Wis. Adm. Code and to ensure that the facility remains a synthetic minor PSD source. [s. 285.65(7), Wis. Stats.]</p>	<p>(1) <b>Record:</b> Emission factor data, information from Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), or any other information necessary shall be used to calculate criteria pollutant emissions. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(2) <b>Calculate:</b> For each project/facility change which is made under authorization of Part III, Section A of this permit, the permittee shall perform a monthly calculation for each criteria pollutant, as identified below, where uncontrolled emissions could reasonably exceed the 100 tons per year criteria in Part III.N.1.a.(1). <b>[NOTE:</b> Criteria pollutants which are listed above for each project are those which could reasonably exceed the criteria of 100 tons per year. Assurance that none of the other criteria pollutants for that project will exceed 100 tons per year is provided by the underlying nature of the project or facility change. There are either no emissions of these other criteria pollutants, or the emissions are nominal in comparison with the 100 tons per year limit. Accordingly, no emission limits for these substances have been established for the existing, similar plant operations at Part I.] Procedures for performing these calculations, as applicable, are listed as follows:                      (a) <b>Modify an existing web coating line or surface coating process</b> [authorized under Part III.A.1. of this permit]: <b>Calculate:</b> the particulate matter, PM10, PM2.5, and volatile organic compound emissions <b>When:</b> each month according to the following:                      (i) <u>Particulate matter, PM10, and PM2.5 Emissions:</u> calculate the emissions by multiplying material throughput, or other suitable characteristic of the activity, by an</p>	<p>(1) <b>Recordkeeping:</b> The following monthly records shall be compiled by the following month:                      (a) emission factor data, information from Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), or any other information used to calculate emissions,                      (b) the method used to calculate the emissions of each criteria pollutant emitted from each process/facility change under Part III.A., <b>And</b>                      (c) the emissions of each criteria pollutant emitted from each process/facility change under Part III.A. in tons per year.                      [ss. NR 439.04(1)(d) and NR 407.09(4)(a)1., Wis. Adm. Code]</p>

**III.N. Conditions that apply to all project/facility changes under Part III.A.**

Pollutant	a. Emission Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Criteria Pollutants: Carbon Monoxide, Oxides of Nitrogen, Particulate Matter, Sulfur Dioxide, Volatile Organic Compounds, Lead, or Lead Compounds (continued)		<p>appropriate emissions factor from AP-42 or as derived from engineering calculations and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing.</p> <p>(i) <u>Volatile Organic Compounds Emissions</u>: calculate the emissions by multiplying the VOC content of each coating used in the month by the amount of coating used and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing.</p> <p>(b) <b>Construct or install a new web coating line</b> [authorized under Part III.A.2. of this permit]: <b>Calculate</b>: the particulate matter, PM10, PM2.5, and volatile organic compound emissions <b>When</b>: each month according to the following:</p> <p>(i) <u>Particulate matter, PM10, and PM2.5 Emissions</u>: calculate the emissions by multiplying material throughput, or other suitable characteristic of the activity, by an appropriate emissions factor from AP-42 or as derived from engineering calculations and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing.</p> <p>(ii) <u>Volatile Organic Compounds Emissions</u>: calculate the emissions by multiplying the VOC content of each coating used in the month by the amount of coating used and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing.</p> <p>(c) <b>Construct or install a new plastic or metal parts surface coating process</b> [authorized under Part III.A.3. of this permit]: <b>Calculate</b>: the</p>	

**III.N. Conditions that apply to all project/facility changes under Part III.A.**

Pollutant	a. Emission Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Criteria Pollutants: Carbon Monoxide, Oxides of Nitrogen, Particulate Matter, Sulfur Dioxide, Volatile Organic Compounds, Lead, or Lead Compounds (continued)		particulate matter, PM10, PM2.5, and volatile organic compound emissions <b>When:</b> each month according to the following: (i) <u>Particulate matter, PM10, and PM2.5 Emissions:</u> calculate the emissions by multiplying material throughput, or other suitable characteristic of the activity, by an appropriate emissions factor from AP-42 or as derived from engineering calculations and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing. (ii) <u>Volatile Organic Compounds Emissions:</u> calculate the emissions by multiplying the VOC content of each coating used in the month by the amount of coating used and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing. (d) <b>Subsequent modification of web coating lines or parts coating operation installed under authority of this permit</b> [authorized under Part III.A.4. of this permit]: <b>Calculate:</b> the particulate matter, PM10, PM2.5, and volatile organic compound emissions <b>When:</b> each month according to the following: (i) <u>Particulate matter, PM10, and PM2.5 Emissions:</u> calculate the emissions by multiplying material throughput, or other suitable characteristic of the activity, by an appropriate emissions factor from AP-42 or as derived from engineering calculations and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing. (ii) <u>Volatile Organic Compounds Emissions:</u>	

**III.N. Conditions that apply to all project/facility changes under Part III.A.**

Pollutant	a. Emission Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Criteria Pollutants: Carbon Monoxide, Oxides of Nitrogen, Particulate Matter, Sulfur Dioxide, Volatile Organic Compounds, Lead, or Lead Compounds (continued)		<p>calculate the emissions by multiplying the VOC content of each coating used in the month by the amount of coating used and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing.</p> <p>(e) <b>Installation of new or modification of existing semi-finished web processing equipment</b> [authorized under Part III.A.5. of this permit]:  <b>Calculate:</b> the volatile organic compound emissions  <b>When:</b> each month according to the following:                      (i) <u>Volatile Organic Compounds Emissions:</u> calculate the emissions by multiplying the VOC content of each coating used in the month by the amount of coating used and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing.</p> <p>(f) <b>R&amp;D/Pilot/Development Projects.</b> [authorized under Part III.A.7., of this permit] <b>Calculate:</b> the volatile organic compound emissions <b>When:</b> each month according to the following:                      (i) <u>Particulate matter, PM10, and PM2.5 Emissions:</u> calculate the emissions by multiplying material throughput, or other suitable characteristic of the activity, by an appropriate emissions factor from AP-42 or as derived from engineering calculations and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing. Alternatively, the permittee may assume that monthly emissions are less than or equal to the emission limit on particulate matter as stated in Part III.L.2.a.(1).                      (ii) <u>Volatile Organic Compounds Emissions:</u></p>	

**III.N. Conditions that apply to all project/facility changes under Part III.A.**

Pollutant	a. Emission Limitations	b. Compliance Demonstration	c. Reference Test Methods, Recordkeeping and Monitoring Requirements
1. Criteria Pollutants: Carbon Monoxide, Oxides of Nitrogen, Particulate Matter, Sulfur Dioxide, Volatile Organic Compounds, Lead, or Lead Compounds (continued)		calculate the emissions by multiplying the VOC content of each coating used in the month by the amount of coating used and sum the monthly emissions to provide emissions on an annual basis in tons per year <b>Or</b> another method approved by the department in writing. <a href="#">[s. NR 407.09(4)(a)1., Wis. Adm. Code]</a>	