

**Technical Support Document
For
Draft Air Emission Permit No. 08500049-102**

This technical support document (TSD) is intended for all parties interested in the draft permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the preliminary determination to issue the draft permit.

1. General information

1.1 Applicant and stationary source location:

Table 1. Applicant and source address

Applicant/Address	Stationary source/Address (SIC Code: 2672 - Coated and Laminated Paper, Not Elsewhere Classified)
3M Co 3M Center Building 224-5W-03 Saint Paul, Minnesota 55144	3M - Hutchinson Tape Manufacturing Plant 915 Adams Street Southeast Hutchinson, MN 55350
Contact: Stephanie James Phone: 320-455-4093	

1.2 Facility description

3M Hutchinson (3M) manufactures pressure sensitive tape and other products. Operations include manufacture of adhesives and webs, coating the webs, drying the coated webs, molding product dispensers, and converting the coated webs into products. Emission units at the facility consist of coating stations, ovens, mixing equipment, and ovens for drying and curing. The pollutants of concern at the facility are volatile organic compounds (VOC), hazardous air pollutants (HAPs), particulate matter (PM), particulate matter less than 10 microns (PM₁₀), and particulate matter less than 2.5 microns (PM_{2.5}). PM, PM₁₀, and PM_{2.5} control equipment at the facility includes fabric filters and venturi scrubbers. VOC and HAP control equipment at the facility includes thermal oxidizers and a solvent recovery unit.

1.3 Description of the activities allowed by this permit action

This permit action is a major amendment initiated by the MPCA as a permit reopening and is a mandatory reopening under Minn. R. 7007.1600, subp. 1(D). The permit is amended to update thermal oxidizer temperature limits for TREAs 6, 8, 12, 15, and 24, and to amend the performance test due dates for TREAs 8 and 24. The corrected temperature limits are identified by 3M in their email to the MPCA dated February 4, 2026 is included in Attachment 2 to this TSD. Attachment 3 to this TSD includes the February 3, 2026 MPCA Notice of Compliance sent to 3M for TREA 8 performance testing completed on May 14, 2025 and includes the July 1, 2024 MPCA Notice of Compliance sent to 3M for TREA 7 performance testing completed on April 23, 2024. TREA 7 was replaced with TREA 24. TREA 24 performance testing is based on historical testing on the units venting to TREA 7.

Table 2. Facility classification

Classification	Major	Synthetic minor/area	Minor/area
PSD	X		
Part 70 Permit Program	X		
Part 63 NESHAP	X		

1.4 Changes to permit

The permit has been updated to reflect current MPCA templates and standard citation formatting including removing individual 40 CFR pt. 60, subp. A requirements under COMGs 9, 16, 17, 31, and 34 and including these under the lists of citations for 40 CFR pt. 60, subp. A under the respective groups.

2. Regulatory and/or statutory basis

This permit action does not include any changes to the applicable regulations or standards.

3. Technical information

3.1 Permit organization and standard language

When amending or reissuing an air permit, MPCA staff evaluate standard permit language in the permit. If the standard language has been changed in the Tempo database since the last permit was issued, staff need to decide how to proceed for each revised condition. For this permit action, all standard language was updated in the permit and the permit ordering, grouping of requirements, and permit appendices from the permit reissuance is carried forward.

3.2 Comments received

This section will be completed after the referenced review periods.

Public Notice Period: [start date] – [end date]

EPA Review Period: [start date] – [end date]

4. Permit fee assessment

No applications are included in this permit action therefore no application fees required by Minn. R. 7002.0019 apply.

5. Conclusion

Based on the information provided by 3M Hutchinson the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 08500049-102 and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff members on permit team: Andrea Behrendt (permit engineer)
Peggy Bartz (peer reviewer)
Beckie Olson (permit writing assistant)
Laurie O'Brien (administrative support)
Rebecca Settle (performance testing)
Patrick Hecht (compliance and enforcement)
Leah Waller (data coordinator)

Attachments: 1. Subject item inventory and requirements report
2. 3M February 4, 2026 email to the MPCA
3. MPCA Notices of Compliance

Attachment 1 – Subject item inventory and facility requirements

SI List

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	
Activity	Insignificant Air Emissions Activity	ACTV 3	Null	All IA's	
Agency Interest	Conventional Site	AISI 4053	Null	Null	
Component Group	Air Component Group	COMG 3	GP005	Units Subject to Pre-1969 Industrial Process Equipment Rule	
		COMG 4	GP008	7L BACT Conditions and 40 CFR pt. 60, subp. RR	
		COMG 5	GP010	LT3 BACT Conditions	
		COMG 8	GP014	5L PSD Limits to avoid major modification, 5L SRU Requirements	
		COMG 9	GP015	6L BACT Conditions, 40 CFR pt. 60, subp. RR, and 40 CFR pt. 60, subp. FFF	
		COMG 11	GP017	Solvent Cleaning Tanks, PSD Limits to avoid a major modification	
		COMG 14	GP022	LM3 BACT Conditions	
		COMG 16	GP025	Enterprise Coater BACT Conditions and 40 CFR pt. 60, subp. RR	
		COMG 17	GP026	Voyager Coating Line BACT Conditions and 40 CFR pt. 60, subp. RR	
		COMG 18	GP027	ST5 and ST6 BACT Conditions	
		COMG 20	GP029	1L Coater Limits	
		COMG 22	GP031	22 Coater Limits	
		COMG 25	GP036	40 CFR pt. 63, subp. DDDDD	
		COMG 26	GP002	40 CFR pt. 63, subp. JJJJ	
		COMG 27	GP007	Units Subject to Post-1969 Industrial Process Equipment Rule	
		COMG 29	GP009	8L BACT Conditions and 40 CFR pt. 60, subp. RR	
		COMG 30	GP006	Direct Heating Equipment	
		COMG 31	GP023	3L Limits to avoid major modification, 40 CFR pt. 60, subp. RR, and 40 CFR pt. 60, subp. FFF	
		COMG 33	GP011	7L, 8L, and LT3 combined BACT limit	
		COMG 34	GP018	27 Coater Limit to avoid major modification and 40 CFR pt. 60, subp. RR	
		COMG 35	GP019	28 Coater Limit to avoid major modification	
		COMG 37	GP035	26 Coater Limits	
		COMG 38	Null	40 CFR pt. 63, subp. ZZZZ, Existing Emergency Compression Ignition Stationary Engine less than..	
		COMG 39	Null	40 CFR pt. 63, subp. ZZZZ, Existing Spark Ignition Stationary Engines <100 HP	
		COMG 40	Null	40 CFR pt. 63, subp. FFFF and subp. UU requirements	
		COMG 41	Null	40 CFR pt. 63, subp. EEEE	
		COMG 42	Null	40 CFR pt. 63, subp. KK	
		COMG 43	Null	ST5 Coating Line, 40 CFR pt. 60, subp. RR	
		COMG 44	Null	ST6 Coating Line, 40 CFR pt. 60, subp. RR	
		COMG 45	Null	ST7 Coating Line, 40 CFR pt. 60, subp. RR	
		COMG 46	Null	H1, 40 CFR pt. 60, subp. RR	
		COMG 47	Null	Flexographic Printing, 40 CFR pt. 60, subp. RR	
		COMG 48	Null	APF1, 40 CFR pt. 60, subp. VVV	
		COMG 49	Null	APF2, 40 CFR pt. 60, subp. VVV	
Equipment	Aboveground Storage Tank	EQUI 210	Null	38-A-144	
		EQUI 213	Null	14T-A-22 Acrylic Acid Bulk Storage and Equipment Leaks	
		EQUI 214	Null	25-RM-210 Tank 2 and Toluene Blending Equipment Leaks	
		EQUI 215	Null	25-RM-6750 Tank 4	
		EQUI 216	Null	25-RM-5178 Tank 5	
		EQUI 217	Null	25-RM-5178 Tank 6	
		EQUI 218	Null	25-RM-5178 Tank 13	
		EQUI 257	Null	14Q-A-42	
		EQUI 258	Null	38-A-147	
		EQUI 259	Null	25-RM-2119	
		EQUI 260	Null	25-RM-55	
		EQUI 298	Null	52-B-1 Barrier	
		EQUI 299	Null	52-P-1 Primer	
		EQUI 300	Null	52-S-1 Saturant	
		EQUI 301	Null	52-S-2 Saturant	
		EQUI 341	Null	North Tank (38-A-21/149)	
	Adhesion Equipment	EQUI 161	EU418	8L Coating Station	
		EQUI 188	EU033	5L Coating Station	
	Blender	EQUI 10	EU024	3W Blender	
		EQUI 12	EU029	2W Blender	
		EQUI 25	EU028	2E Blender	
	Boiler	EQUI 1	EU001	Boiler 3	
		EQUI 2	EU002	Boiler 4	
		EQUI 44	EU037	Boiler 5	
	Cleaning Equipment	EQUI 32	EU322	LM3 Cleaning	
		EQUI 35	EU329	ST6 Cleaning	
		EQUI 124	EU050	Cleaning Tank 1	
		EQUI 125	EU051	Cleaning Tank 2	
		EQUI 126	EU052	Cleaning Tank 3	
		EQUI 291	Null	22 Coater Solution Delivery Wash Tank	
		EQUI 292	Null	Voyager Solution Delivery 1 Wash Tank	
		EQUI 293	Null	Voyager Solution Delivery 2 Wash Tank	
		EQUI 294	Null	3L Coater Wash Tank	
		EQUI 295	Null	Bldg. 20 Compounding Wash Tank 1 (South) Wash Tank	
		EQUI 296	Null	Bldg. 20 Compounding Wash Tank 2 (South) Wash Tank	
		EQUI 297	Null	Bldg. 20 Compounding Wash Tank 3 (South) Wash Tank	
		EQUI 324	Null	NCC Compounding Tunnel Wash Tank and Equipment Leaks	

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Equipment	Cleaning Equipment	EQUI 326	Null	NCC Compounding 2nd Floor Wash Tank and Equipment Leaks	
		EQUI 330	Null	Enterprise Solution Delivery Wash Tank and Equipment Leaks	
	Data Acquisition System	EQUI 267	Null	Condenser's (TREA 22) ethylene glycol chiller return RTD data acquisition system	
	Dryer/Oven, direct fired	EQUI 24	EU317	LM3 Drying Oven 1A	
		EQUI 30	EU320	LM3 Drying Oven 2A	
	Dryer/Oven, unknown firing method	EQUI 14	EU034	5L Coating Oven	
		EQUI 16	EU039	6L Precoating 1 Oven	
		EQUI 21	EU102	22 Oven	
		EQUI 26	EU041	6L Precoating 2 Oven	
		EQUI 97	EU351	7L Precoating Station/Oven 1	
		EQUI 98	EU352	7L Precoating Station/Oven 3	
		EQUI 99	EU353	7L Coating Station/Oven	
		EQUI 102	EU371	Enterprise Oven 1	
		EQUI 103	EU372	Enterprise Oven 2	
		EQUI 131	EU356	3L Oven 1	
		EQUI 133	EU358	3L Oven 2	
		EQUI 135	EU360	3L Oven 3	
		EQUI 137	EU362	3L Oven 4	
		EQUI 139	EU364	3L Oven 5	
		EQUI 141	EU366	3L Oven 6 Zone 1	
		EQUI 142	EU367	3L Oven 6 Zone 2	
		EQUI 143	EU368	3L Oven 6 Zone 3	
		EQUI 158	EU415	8L Precoating 1 Oven	
		EQUI 160	EU417	8L Precoating 2 Oven	
		EQUI 162	EU419	8L Coating Oven	
		EQUI 197	EU004	1L Precoating 1 Oven	
		EQUI 199	EU006	1L Precoating 2 Oven	
		EQUI 201	EU008	1L Coating Oven	
		EQUI 202	EU112	27 Oven	
		EQUI 204	EU114	28 Oven	
		EQUI 208	EU110	26 Oven	
		EQUI 262	Null	LT3 Printer Oven	
		EQUI 269	Null	5L Primer Oven	
		EQUI 270	Null	Masking Systems Line 1 Oven	
		EQUI 271	EU326	ST5 Oven	
		EQUI 272	EU331	ST6 Oven	
		EQUI 273	EU413	ST7 Oven	
		EQUI 339	Null	Masking Systems Line 2 Oven	
	Extruder	EQUI 23	EU125	H1 Extruder 3	
		EQUI 105	EU374	19J Extruder	
		EQUI 195	EU036	10J Extruder	
		EQUI 278	Null	9J Corona Treater	
		EQUI 280	Null	16J Corona Treater	
		EQUI 284	Null	4Y Extruder	
	Loading-Unloading Equipment	EQUI 251	Null	Voyager Compounding Room Transfer Rack & Equipment Leaks	
		EQUI 252	Null	22-28 Compounding Transfer Rack 1	
		EQUI 253	Null	22-28 Compounding Transfer Rack 2	
		EQUI 254	Null	Compounding Room 1 Transfer Rack	
		EQUI 255	Null	Compounding Room 4 Transfer Rack	
		EQUI 285	Null	VersaDrum Unloader Install	
		EQUI 290	Null	Haz Waste Transfer Rack	
		EQUI 342	Null	Transfer Rack for Tank Trucks: Acrylic Acid Tank Loading (outside)	
		EQUI 343	Null	Transfer Rack for Tank Trucks: North Tank Farm	
		EQUI 344	Null	Transfer Rack for Tank Trucks: Bldg 25 - Bay 1	
		EQUI 345	Null	Transfer Rack for Tank Trucks: Bldg 25 - Bay 2	
	Mixing Equipment	EQUI 7	EU021	1N Mixer	
		EQUI 9	EU023	1S Mixer	
		EQUI 13	EU030	Mogul 1	
		EQUI 20	EU049	Mogul 2	
		EQUI 286	Null	N72 Drum Mix Station	
		EQUI 289	Null	N71 Drum Mix Station	
	Other Emission Unit	EQUI 28	EU318	LM3 Curing Chamber 1	
		EQUI 31	EU321	LM3 Curing Chamber 2	
		EQUI 33	EU327	ST6 Compounding Area A	
		EQUI 34	EU328	ST6 Compounding Area B	
		EQUI 47	EU425	Voyager Oven 1	
		EQUI 48	EU426	Voyager Oven 2	
		EQUI 50	EU428	Voyager Oven 3	
		EQUI 51	EU429	Voyager Oven 4	
		EQUI 72	EU413	ST7 Curing Chamber	
		EQUI 163	EU420	LT3 Saturator	
		EQUI 164	EU421	LT3 Saturant Oven	
		EQUI 166	EU423	LT3 Coating Oven	

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Equipment	Other Emission Unit	EQUI 219	Null	Masking Systems Line 1	
		EQUI 222	Null	H1 Oven	
		EQUI 223	Null	Masking Systems Line 2	
		EQUI 224	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 1	
		EQUI 225	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 2	
		EQUI 226	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 3	
		EQUI 227	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 4	
		EQUI 228	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 5	
		EQUI 229	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 6	
		EQUI 241	Null	Print Station 4 (SFS109)	
		EQUI 266	Null	3L Corona Treater	
		EQUI 282	Null	APF1 Printer	
		EQUI 283	Null	APF2 Printer	
		EQUI 287	Null	N69 Mill	
		EQUI 288	Null	N70 Basket Mill	
		EQUI 340	Null	LT3 Printer	
	Parametric Monitor	EQUI 268	Null	Condenser's (TREA 22) ethylene glycol chiller return resistance temp detector (RTD)	
	Reciprocating IC Engine	EQUI 230	Null	GEN-35	
		EQUI 232	Null	GEN-KOHLER	
		EQUI 233	Null	GEN-31	
		EQUI 234	Null	GEN-33	
		EQUI 235	Null	GEN-15	
		EQUI 236	Null	GEN-16	
		EQUI 237	Null	GEN-32	
		EQUI 238	Null	Fire Pump 1	
		EQUI 239	Null	Fire Pump 2	
		EQUI 256	Null	GEN-14	
	Separation Equipment	EQUI 274	Null	North Plant Emergency Generator	
		EQUI 6	EU020	1N Churn	
	Spray Booth/Coating Line	EQUI 8	EU022	1S Churn	
		EQUI 15	EU038	6L Precoating Station 1	
		EQUI 17	EU040	6L Precoating Station 2	
		EQUI 22	EU103	22 Coating Station	
		EQUI 27	EU316	LM3 Coating Station 1	
		EQUI 29	EU319	LM3 Coating Station 2	
		EQUI 36	EU330	ST6 Coating Station	
		EQUI 38	EU325	ST5 Coating Station & Equipment Leaks	
		EQUI 46	EU424	Voyager Coating Station 1	
		EQUI 49	EU427	Voyager Coating Station 2	
		EQUI 71	EU412	ST7 Coating Station	
		EQUI 92	EU346	H1 Coating Station	
		EQUI 101	EU370	Enterprise Coating Station	
		EQUI 112	EU381	6L Coating Station/Oven	
		EQUI 130	EU355	3L Coating Station 1	
		EQUI 132	EU357	3L Coating Station 2	
		EQUI 134	EU359	3L Coating Station 3	
		EQUI 136	EU361	3L Coating Station 4	
		EQUI 138	EU363	3L Coating Station 5	
		EQUI 140	EU365	3L Coating Station 6	
		EQUI 157	EU414	8L Precoating Station 1	
		EQUI 159	EU416	8L Precoating Station 2	
		EQUI 165	EU422	LT3 Coating Station	
		EQUI 196	EU003	1L Precoating Station 1	
		EQUI 198	EU005	1L Precoating Station 2	
		EQUI 200	EU007	1L Coating Station	
		EQUI 203	EU113	27 Coating Station	
		EQUI 205	EU115	28 Coating Station	
		EQUI 209	EU111	26 Coating Station	
		EQUI 211	Null	5L Precoating Station	
		EQUI 242	Null	APF1 Coating Applicator 1	
		EQUI 243	Null	APF1 Coating Applicator 2	
		EQUI 244	Null	APF2 Coating Applicator 1	
		EQUI 245	Null	APF2 Coating Applicator 2	
		EQUI 275	Null	LM3 Corona Treater	
		EQUI 276	Null	27 Corona Treater	
		EQUI 277	Null	5L Corona Treater	
		EQUI 279	Null	ST7 Corona Treater	
		EQUI 281	Null	Print Station 1 (SFS109)	
	Stripping Equipment	EQUI 184	EU032	5L SRU Stripper	
Fugitive	Cooling Tower	FUGI 9	Null	Cooling Tower 19-CT-01	
		FUGI 10	Null	Cooling Tower 19-CT-02	
		FUGI 11	Null	Cooling Tower 19-CT-03	
		FUGI 12	Null	Cooling Tower 14-CT-01F	

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SI Category	SI Type	Subject Item ID	Delta Designation	Description	
Fugitive	Cooling Tower	FUGI 13	Null	Cooling Tower 14-CT-02F	
		FUGI 14	Null	Cooling Tower 14-CT-01B	
		FUGI 15	Null	Cooling Tower 14-CT-02B	
		FUGI 16	Null	Cooling Tower 26-CT-01	
		FUGI 17	Null	Cooling Tower 14-CT-01H	
		FUGI 18	Null	Cooling Tower 14-CT-01P	
Structure	Building	STRU 499	Null	Building 0	
		STRU 500	Null	Building 2	
		STRU 501	Null	Building 3	
		STRU 502	Null	Building 4	
		STRU 503	Null	Building 5	
		STRU 504	Null	Building 6	
		STRU 505	Null	Building 7	
		STRU 506	Null	Building 8	
		STRU 507	Null	Building 9	
		STRU 508	Null	Building 13	
		STRU 509	Null	Building 15	
		STRU 510	Null	Building 17	
		STRU 511	Null	Building 18	
		STRU 512	Null	Building 19	
		STRU 513	Null	Building 20	
		STRU 514	Null	Building 21	
		STRU 515	Null	Building 22	
		STRU 516	Null	Building 23	
		STRU 517	Null	Building 24n	
		STRU 518	Null	Building 24s	
		STRU 519	Null	Building 25	
		STRU 520	Null	Building 26	
		STRU 521	Null	Building 27	
		STRU 522	Null	Building 28	
		STRU 523	Null	Building 29	
		STRU 524	Null	Building 30	
		STRU 525	Null	Building 31	
		STRU 526	Null	Building 32	
		STRU 527	Null	Building 33	
		STRU 528	Null	Building 34	
		STRU 529	Null	Building 35	
		STRU 530	Null	Building 36	
		STRU 531	Null	Building 37	
		STRU 532	Null	Building 38	
		STRU 533	Null	Building 39	
		STRU 534	Null	Building 40	
		STRU 535	Null	Building 41	
		STRU 536	Null	Building 42	
		STRU 537	Null	Building 43	
		STRU 538	Null	Building 65	
		STRU 539	Null	Building 66	
		STRU 540	Null	Building 67	
		STRU 541	Null	Building 68	
		STRU 542	Null	Building 70	
		STRU 543	Null	Building 71	
		STRU 544	Null	Building 72	
		STRU 545	Null	Building 73	
		STRU 546	Null	South Annex	
		STRU 547	Null	Building 53	
	Stack/Vent	STRU 1	SV301	7L Coating Station/Oven Exhaust 4	
		STRU 2	SV302	7L Coating Station/Oven Exhaust 5	
		STRU 3	SV303	7L Coating Station/Oven Exhaust 6	
		STRU 6	SV306	ST7 Coating Station Exhaust 1	
		STRU 7	SV307	ST7 Coating Station Exhaust 2	
		STRU 12	SV312	3L Oven 1 Bypass	
		STRU 13	SV313	3L Oven 2 Bypass	
		STRU 14	SV314	3L Oven 3 Bypass	
		STRU 15	SV315	3L Oven 4 Bypass	
		STRU 16	SV316	3L Oven 5 Bypass	
		STRU 17	SV317	3L Oven 6 Zone 1 Bypass	
		STRU 18	SV318	3L Oven 6 Zone 2 Bypass	
		STRU 19	SV319	3L Oven 6 Zone 3 Bypass	
		STRU 20	SV320	3L Coating Station 1 Bypass	
		STRU 21	SV321	3L Coating Station 2 Bypass	
		STRU 22	SV322	3L Coating Station 3 Bypass	
		STRU 23	SV323	3L Coating Station 4 Bypass	
		STRU 24	SV324	3L Coating Station 5 Bypass	

SI List

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SI Category Structure	SI Type Stack/Vent	Subject Item ID	Delta Designation	Description	
		STRU 25	SV325	3L Coating Station 6 Bypass	
		STRU 27	SV327	Enterprise Coating Station Bypass	
		STRU 28	SV328	Enterprise Oven 1 Bypass	
		STRU 29	SV329	Enterprise Oven 2 Bypass 1	
		STRU 30	SV330	Enterprise Oven 2 Bypass 2	
		STRU 32	SV332	Enterprise Thermal Oxidizer	
		STRU 33	SV333	19J Extruder Venturi Scrubber	
		STRU 49	SV349	H1 Curing Chamber	
		STRU 51	SV363	LT3 Saturant Oven Exhaust 1	
		STRU 52	SV364	LT3 Saturant Oven Exhaust 2	
		STRU 53	SV365	LT3 Saturant Oven Exhaust 3	
		STRU 54	SV366	LT3 Coating Oven Exhaust 1	
		STRU 55	SV367	LT3 Coating Oven Exhaust 2	
		STRU 57	SV369	8L Precoating 1 Oven	
		STRU 58	SV370	8L Precoating 2 Oven	
		STRU 59	SV371	8L Coating Oven Exhaust 1	
		STRU 60	SV372	8L Coating Oven Exhaust 2	
		STRU 61	SV373	8L Coating Oven Exhaust 3	
		STRU 62	SV374	8L Coating Oven Exhaust 4	
		STRU 63	SV375	8L Coating Oven Exhaust 5	
		STRU 64	SV376	8L Coating Oven Exhaust 6	
		STRU 67	SV003	22 Coating Station	
		STRU 145	SV081	26 Oven Bypass	
		STRU 146	SV082	27 Coater Oven Bypass	
		STRU 147	SV083	28 Coater Oven	
		STRU 153	SV089	26 Coating Station Bypass	
		STRU 154	SV090	27 Coating Station	
		STRU 155	SV091	28 Coating Station	
		STRU 194	SV162	Solvent Tank 47	
		STRU 197	SV165	Tank 42	
		STRU 211	SV180	Mogul 2 Articulated Vent	
		STRU 212	SV181	Mogul 2 Hood	
		STRU 213	SV182	Mogul 2 Vent	
		STRU 214	SV183	Mogul 1 Articulated Vent	
		STRU 215	SV184	Mogul 1 Hood	
		STRU 216	SV185	Mogul 1 Vent	
		STRU 217	SV186	Compounding Room 1 - Churns and Blenders	
		STRU 218	SV187	Compounding Room 2 - Blenders	
		STRU 219	SV188	Compounding Room 3 - Blender	
		STRU 220	SV189	Compounding Room 4 - Cleaning Tanks	
		STRU 221	SV190	1L Precoating Oven 1 Bypass	
		STRU 222	SV191	1L Precoating 2 Oven Bypass	
		STRU 224	SV193	1L Coating Oven Bypass 1	
		STRU 225	SV194	1L Coating Oven Bypass 2	
		STRU 228	SV201	5L Coating Oven Bypass 3	
		STRU 230	SV203	5L Coating Oven Bypass 2	
		STRU 231	SV205	5L Coating Station Bypass 1	
		STRU 232	SV206	5L Coating Oven Bypass 1	
		STRU 234	SV210	10J Venturi Scrubber	
		STRU 237	SV214	5L SRU Stripper	
		STRU 238	SV215	5L Coating Station Bypass 2	
		STRU 239	SV216	5L Coating Station Bypass 3	
		STRU 242	SV219	6L Thermal Oxidizer	
		STRU 243	SV220	6L Precoating Stations 1&2 Bypass	
		STRU 244	SV221	Boiler 5	
		STRU 245	SV222	Boiler 4	
		STRU 246	SV223	Boiler 3	
		STRU 247	SV224	LM3 Coating Station 1 Bypass	
		STRU 248	SV225	LM3 Drying Oven 1A Bypass	
		STRU 249	SV226	LM3 Oven 1B Bypass	
		STRU 250	SV227	LM3 Coating Station 2 Bypass	
		STRU 251	SV228	LM3 Drying Oven 2A Bypass	
		STRU 252	SV229	LM3 Oven 2B Bypass	
		STRU 253	SV230	LM3 Thermal Oxidizer	
		STRU 292	SV274	6L Coating Oven Exhaust 1	
		STRU 293	SV275	6L Coating Oven Exhaust 2	
		STRU 294	SV276	6L Coating Oven Exhaust 3	
		STRU 295	SV277	6L Coating Oven Exhaust 4	
		STRU 296	SV278	6L Coating Oven Exhaust 5	
		STRU 297	SV279	6L Coating Oven Exhaust 6	
		STRU 298	SV280	H1 Coating Station	
		STRU 299	SV281	H1 Extrusion	
		STRU 310	SV296	7L Precoating Station/Oven 1	

SI List

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category Structure	SI Type Stack/Vent	Subject Item ID	Delta Designation	Description	
		STRU 311	SV297	7L Precoating Station/Oven 3	
		STRU 312	SV298	7L Coating Station/Oven Exhaust 1	
		STRU 313	SV299	7L Coating Station/Oven Exhaust 2	
		STRU 314	SV300	7L Coating Station/Oven Exhaust 3	
		STRU 315	SV378	1L/3L Thermal Oxidizer	
		STRU 362	SV351	Voyager Thermal Oxidizer	
		STRU 363	SV352	Voyager Coating Station 1 Bypass	
		STRU 364	SV353	Voyager Oven 1 Bypass	
		STRU 365	SV354	Voyager Oven 2 Bypass 1	
		STRU 366	SV355	Voyager Oven 2 Bypass 2	
		STRU 367	SV356	Voyager Oven 2 Bypass 3	
		STRU 368	SV357	Voyager Coating Station 2 Bypass	
		STRU 369	SV358	Voyager Oven 3 Bypass	
		STRU 370	SV359	Voyager Oven 4 Bypass 1	
		STRU 371	SV360	Voyager Oven 4 Bypass 2	
		STRU 372	SV361	Voyager Oven 4 Bypass 3	
		STRU 374	SV377	26 Thermal Oxidizer	
		STRU 376	Null	22 Coater Oven	
		STRU 379	Null	GEN-35 Stack	
		STRU 381	Null	GEN-KOHLER Stack	
		STRU 382	Null	GEN-31 Stack	
		STRU 383	Null	GEN-33 Stack	
		STRU 384	Null	GEN-15 Stack	
		STRU 385	Null	GEN-16 Stack	
		STRU 386	Null	GEN-32 Stack	
		STRU 387	Null	Fire Pump 1 Stack	
		STRU 388	Null	Fire Pump 2 Stack	
		STRU 389	Null	APF1 Coating Applicator 1 Stack	
		STRU 390	Null	APF1 Coating Applicator 2 Stack	
		STRU 391	Null	APF2 Coating Applicator 1 Stack	
		STRU 392	Null	APF2 Coating Applicator 2 Stack	
		STRU 394	Null	Masking Systems Line 1 and 2 Stack	
		STRU 397	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 1 Stack	
		STRU 398	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 2 Stack	
		STRU 399	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 3 Stack	
		STRU 400	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 4 Stack	
		STRU 401	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 5 Stack	
		STRU 402	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 6 Stack	
		STRU 408	Null	Voyager Compounding Room Transfer Rack Stack	
		STRU 409	Null	22-28 Compounding Transfer Rack 1 Stack	
		STRU 410	Null	22-28 Compounding Transfer Rack 2 Stack	
		STRU 411	Null	Compounding Room 1 Transfer Rack Stack	
		STRU 412	Null	Compounding Room 4 Transfer Rack Stack	
		STRU 413	Null	North Plant Emergency Generator Stack	
		STRU 414	Null	Acrylic Acid Bulk Storage Exhaust	
		STRU 415	Null	South Tank 2 Exhaust	
		STRU 416	Null	South Tank 4 Exhaust	
		STRU 417	Null	South Tank 5 Exhaust	
		STRU 418	Null	South Tank 6 Exhaust	
		STRU 419	Null	South Tank 13 Exhaust	
		STRU 420	Null	Solvent Tank 44	
		STRU 421	Null	South Tank 1 Exhaust	
		STRU 422	Null	South Tank 3 Exhaust	
		STRU 423	Null	LT3 Printer Oven Stack	
		STRU 424	Null	GEN-14 (NG, 469 HP)	
		STRU 425	Null	SFS109	
		STRU 426	Null	APF1 Printer	
		STRU 427	Null	APF2 Printer	
		STRU 428	Null	4Y Extruder	
		STRU 429	Null	27 Corona Treater	
		STRU 430	Null	9J Corona Treater	
		STRU 431	Null	ST7 Corona Treater	
		STRU 432	Null	16J Corona Treater	
		STRU 433	Null	Microabrasives Compounding	
		STRU 434	Null	HazWaste Transfer Rack	
		STRU 435	Null	ST6 Oven Exhaust 1	
		STRU 436	Null	ST6 Oven Exhaust 2	
		STRU 437	Null	ST6 Oven Exhaust 3	
		STRU 438	Null	ST6 Oven Exhaust 4	
		STRU 439	Null	ST7 Oven Exhaust 1	
		STRU 440	Null	ST7 Oven Exhaust 2	
		STRU 441	Null	ST7 Oven Exhaust 3	
		STRU 442	Null	ST7 Oven Exhaust 4	

SI List

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	
Structure	Stack/Vent	STRU 443	Null	NCC Compounding 2nd Floor Wash Tank and Equipment Leaks Stack	
		STRU 444	Null	NCC Compounding Tunnel Wash Tank and Equipment Leaks Stack	
		STRU 445	Null	Enterprise Solution Delivery Wash Tank and Equipment Leaks Stack	
		STRU 446	Null	ST5 Equipment Leaks Stack	
		STRU 447	Null	22 Coater Solution Delivery Wash Tank	
		STRU 448	Null	3L Coater Wash Tank	
		STRU 449	Null	Bldg. 20 Compounding Wash Tanks	
		STRU 450	Null	Tank 52 Barrier 1 (52-B-1) Exhaust	
		STRU 451	Null	Tank 52 Primer 1 (52-P-1) Exhaust	
		STRU 452	Null	Tank 52 Saturant 1 (52-S-1) Exhaust	
		STRU 453	Null	Tank 52 Saturant 2 (52-S-2) Exhaust	
		STRU 460	Null	5L Corona Treater	
		STRU 485	Null	LM3 Corona Treater	
		STRU 486	Null	5L Primer Oven	
		STRU 487	Null	3L Corona Treater Exhaust	
		STRU 489	Null	ST5 Coating Station	
		STRU 490	Null	ST5 Oven	
		STRU 491	Null	ST6 Coating Oven Exhaust 1	
		STRU 494	Null	ST7 Coating Station Exhaust	
		STRU 495	SV239	LM3 Cleaning	
		STRU 496	SV244	ST6/ST7 Compounding A	
		STRU 497	SV245	ST6/ST7 Compounding B	
		STRU 498	SV246	ST6 Cleaning Exhaust	
Total Facility	Air Quality Total Facility	TFAC 1	08500049	3M - Hutchinson Tape Manufacturing Plant	
Treatment	048-Activated Carbon Adsorption	TREA 11	CE008	5L Solvent Recovery Unit	
	053-Venturi Scrubber	TREA 10	CE003	10J Venturi Scrubber	
		TREA 13	CE015	19J Venturi Scrubber	
	074-Barometric Condenser	TREA 22	Null	Condenser	
	131-Thermal Oxidizer	TREA 6	CE018	Voyager Thermal Oxidizer	
		TREA 8	CE020	1L/3L Thermal Oxidizer	
		TREA 12	CE014	Enterprise Thermal Oxidizer	
		TREA 15	CE009	6L Thermal Oxidizer	
		TREA 24	Null	26/27 Thermal Oxidizer	

Insignificant Activities

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Status Description	Sub Attribute Description	
Activity	Insignificant Air Emissions Activity	Active / Existing	Minn. R. 7007.1300, subp. 3(B)(1)	
			Minn. R. 7007.1300, subp. 3(D)	
			Minn. R. 7007.1300, subp. 3(E)	
			Minn. R. 7007.1300, subp. 3(F)	
			Minn. R. 7007.1300, subp. 4	

Emission Units 1

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Firing Method	Subject to CSAPR?	Electric Generating Capacity (MW)	Construction Start Date	Operation Start Date	Modification Date	
Boiler	EQUI 1	EU001	Boiler 3	Keeler	14558-2	110	million British thermal units/hours	Heat	Not coal burning	N	Null	12/31/1967	12/31/1967	Null	
	EQUI 2	EU002	Boiler 4	Keeler	14558-1	90	million British thermal units/hours	Heat	Not coal burning	N	Null	12/31/1967	12/31/1967	Null	
	EQUI 44	EU037	Boiler 5	Nebraska	NS-E-68	100	million British thermal units/hours	Heat	Not coal burning	N	Null	5/1/1989	1/1/1990	Null	
Dryer/Oven, direct fired	EQUI 24	EU317	LM3 Drying Oven 1A	3M	Custom	9.2	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1996	1/1/1997	Null	
	EQUI 30	EU320	LM3 Drying Oven 2A				million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1996	1/1/1997	Null	
Dryer/Oven, unknown firing method	EQUI 14	EU034	5L Coating Oven	3M	Custom	8	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1969	1/1/1970	Null	
	EQUI 16	EU039	6L Precoating 1 Oven			2,750	1000 British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1989	1/1/1990	Null	
	EQUI 21	EU102	22 Oven	3M	Custom	273	pounds/hours	Material	Not coal burning	Null	Null	12/31/1958	12/31/1958	Null	
	EQUI 26	EU041	6L Precoating 2 Oven			2,750	1000 British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1989	1/1/1990	Null	
	EQUI 97	EU351	7L Precoating Station/Oven 1			2,750	1000 British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1998	1/1/1999	Null	
	EQUI 98	EU352	7L Precoating Station/Oven 3			2,750	1000 British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1998	1/1/1999	Null	
	EQUI 99	EU353	7L Coating Station/Oven			21,350	1000 British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1998	1/1/1999	Null	
	EQUI 102	EU371	Enterprise Oven 1	3M	Custom	1,650	pounds/hours	Material	Not coal burning	Null	Null	1/1/2001	1/1/2002	Null	
	EQUI 103	EU372	Enterprise Oven 2	3M	Custom	6.6	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/2001	1/1/2002	Null	
	EQUI 131	EU356	3L Oven 1	3M	Custom	3.85	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1999	1/1/2000	Null	
	EQUI 133	EU358	3L Oven 2	3M	Custom	1.65	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1999	1/1/2000	Null	
	EQUI 135	EU360	3L Oven 3	3M	Custom	3.85	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1999	1/1/2000	Null	
	EQUI 137	EU362	3L Oven 4	3M	Custom	1.65	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1999	1/1/2000	Null	
	EQUI 139	EU364	3L Oven 5	3M	Custom	1.65	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1999	1/1/2000	Null	
	EQUI 141	EU366	3L Oven 6 Zone 1	3M	Custom	5.18	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1999	1/1/2000	Null	
	EQUI 142	EU367	3L Oven 6 Zone 2	3M	Custom	5.18	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1999	1/1/2000	Null	
	EQUI 143	EU368	3L Oven 6 Zone 3	3M	Custom	5.18	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1999	1/1/2000	Null	
	EQUI 158	EU415	8L Precoating 1 Oven			1,950,000	British thermal units/hours	Heat	Not coal burning	Null	Null	4/1/2004	7/1/2005	Null	
	EQUI 160	EU417	8L Precoating 2 Oven			1,950,000	British thermal units/hours	Heat	Not coal burning	Null	Null	4/1/2004	7/1/2005	Null	
	EQUI 162	EU419	8L Coating Oven			16,000,000	British thermal units/hours	Heat	Not coal burning	Null	Null	4/1/2004	7/1/2005	Null	
	EQUI 197	EU004	1L Precoating 1 Oven				million British thermal units/hours	Heat	Not coal burning	Null	Null	12/31/1968	1/1/1969	Null	
	EQUI 199	EU006	1L Precoating 2 Oven	3M	Custom		pounds/hours	Steam	Not coal burning	Null	Null	12/31/1968	1/1/1969	Null	
	EQUI 201	EU008	1L Coating Oven	3M	Custom	7.28	million British thermal units/hours	Heat	Not coal burning	Null	Null	12/31/1968	1/1/1969	Null	
	EQUI 202	EU112	27 Oven			31,600	cubic feet/minutes	Steam	Not coal burning	Null	Null	12/31/1968	12/31/1968	Null	

Emission Units 1

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Firing Method	Subject to CSAPR?	Electric Generating Capacity (MW)	Construction Start Date	Operation Start Date	Modification Date	
Dryer/Oven, unknown firing method	EQUI 204	EU114	28 Oven	3M	Custom	66	pounds/hours	Material	Not coal burning	Null	Null	12/31/1968	12/31/1968	Null	
	EQUI 208	EU110	26 Oven			726	liters/hours	Material	Not coal burning	Null	Null	12/31/1968	12/31/1968	Null	
	EQUI 262	Null	LT3 Printer Oven			85.59	pounds/hours	Material	Not coal burning	Null	Null	8/8/2011	11/27/2012	Null	
	EQUI 269	Null	5L Primer Oven	3M	Custom	2.75	million British thermal units/hours	Heat	Not coal burning	Null	Null	1/1/1969	1/1/1970	1/1/2012	
	EQUI 270	Null	Masking Systems Line 1 Oven	XericWeb	irAIR Drying System	39.6	kilowatts/each	Electrical Energy	Not coal burning	Null	Null	1/1/2013	1/1/2014	Null	
	EQUI 271	EU326	ST5 Oven	3M	Custom		kilowatts/hours	Electrical Energy	Not coal burning	Null	Null	1/1/1996	1/1/1997	Null	
	EQUI 272	EU331	ST6 Oven	3M	Custom		kilowatts/hours	Electrical Energy	Not coal burning	Null	Null	1/1/1996	1/1/1997	Null	
	EQUI 273	EU413	ST7 Oven	3M	Custom		kilowatts/hours	Electrical Energy	Not coal burning	Null	Null	12/15/2002	12/15/2002	Null	
	EQUI 339	Null	Masking Systems Line 2 Oven	XericWeb	irAIR Drying System	39.6	kilowatts/each	Electrical Energy	Not coal burning	Null	Null	1/1/2013	1/1/2014	Null	

Emission Units 2

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Engine Use	Firing Method	Engine Displacement	Engine Displacement Units	Construction Start Date	Operation Start Date	Modification Date	
Reciprocating IC Engine	EQUI 230	Null	GEN-35	Cummins	GGLB-5779165	100	horsepower/each	Power	Emergency/blacks..	SI-4SRB	8.1	liters per cylinder	5/14/2007	5/14/2007	Null	
	EQUI 232	Null	GEN-KOHLER	Kohler	80RZ	100	horsepower/each	Power	Emergency/blacks..	SI-4SRB	7.5	liters per cylinder	1/30/2001	11/28/2001	Null	
	EQUI 233	Null	GEN-31	Onan (now owned by Cummins)	60.0ENA	80	horsepower/each	Power	Unlimited use	SI-4SRB	7.5	liters per cylinder	12/1/1992	12/1/1992	Null	
	EQUI 234	Null	GEN-33	Onan (now owned by Cummins)	60.0ENA	80	horsepower/each	Power	Unlimited use	SI-4SRB	7.5	liters per cylinder	3/1/1993	3/1/1993	Null	
	EQUI 235	Null	GEN-15	Onan (now owned by Cummins)	250DFAC	330	horsepower/each	Power	Emergency/blacks..	CI	10	liters per cylinder	12/1/1993	12/1/1993	Null	
	EQUI 236	Null	GEN-16	Onan (now owned by Cummins)	60.0ENA	80	horsepower/each	Power	Unlimited use	SI-4SRB	7.5	liters per cylinder	12/1/1992	12/1/1992	Null	
	EQUI 237	Null	GEN-32	Onan (now owned by Cummins)	60.0ENA	80	horsepower/each	Power	Unlimited use	SI-4SRB	7.5	liters per cylinder	12/1/1992	12/1/1992	Null	
	EQUI 238	Null	Fire Pump 1	Detroit	PCA15D-50	250	horsepower/each	Power	Firepump	CI	7	liters per cylinder	5/29/1974	5/29/1974	Null	
	EQUI 239	Null	Fire Pump 2	Cummins	NT28IF	250	horsepower/each	Power	Firepump	CI	14	liters per cylinder	5/29/1974	5/29/1974	Null	
	EQUI 256	Null	GEN-14	Cummins	C550 N6-550kW	850	horsepower/each	Power	Emergency/blacks..	SI-4SLB	37	liters per cylinder	2/28/2022	TBD	Null	
	EQUI 274	Null	North Plant Emergency Generator	Cummins	KTA19G	530	horsepower/each	Energy	Emergency/blacks..	SI-4SRB	19	liters per cylinder	7/9/2019	7/9/2019	Null	

Emission Units 3

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
Adhesion Equipment	EQUI 161	EU418	8L Coating Station	3M	custom	3,615	pounds/hours	Material	4/1/2004	4/1/2004	Null	
	EQUI 188	EU033	5L Coating Station	3M	Custom	4,059	pounds/hours	Material	1/1/1969	1/1/1970	Null	
Blender	EQUI 10	EU024	3W Blender		None	4,100	gallons/each	Material	12/31/1967	12/31/1968	Null	
	EQUI 12	EU029	2W Blender		None	4,100	gallons/each	Material	12/31/1967	12/31/1968	Null	
	EQUI 25	EU028	2E Blender		None	4,100	gallons/each	Material	12/31/1967	12/31/1968	Null	
Cleaning Equipment	EQUI 32	EU322	LM3 Cleaning	3M	Custom	0.05	pounds/hours	Material	1/1/1996	1/1/1997	Null	
	EQUI 35	EU329	ST6 Cleaning	3M	Custom	0.05	pounds/hours	Material	1/1/1996	1/1/1997	Null	
	EQUI 124	EU050	Cleaning Tank 1			25	square feet/each	Material	1/1/1994	1/1/1995	Null	
	EQUI 125	EU051	Cleaning Tank 2			25	square feet/each	Material	1/1/1994	1/1/1995	Null	
	EQUI 126	EU052	Cleaning Tank 3			25	square feet/each	Material	1/1/1994	1/1/1995	Null	
	EQUI 291	Null	22 Coater Solution Delivery Wash Tank	3M	Custom	12	square feet/each	Material	4/18/2008	4/18/2008	Null	
	EQUI 292	Null	Voyager Solution Delivery 1 Wash Tank	3M	Custom	8	square feet/each	Material	10/23/2007	10/23/2007	Null	
	EQUI 293	Null	Voyager Solution Delivery 2 Wash Tank	3M	Custom	8	square feet/each	Material	10/23/2007	10/23/2007	Null	
	EQUI 294	Null	3L Coater Wash Tank	3M	Custom	6.17	square feet/each	Material	8/8/2014	8/8/2014	Null	
	EQUI 295	Null	Bldg. 20 Compounding Wash Tank 1 (South) Wash Tank			23.92	square feet/each	Material	4/12/1994	4/12/1994	Null	
	EQUI 296	Null	Bldg. 20 Compounding Wash Tank 2 (South) Wash Tank			23.92	square feet/each	Material	2/16/1995	2/16/1995	Null	
	EQUI 297	Null	Bldg. 20 Compounding Wash Tank 3 (South) Wash Tank			23.92	square feet/each	Material	2/16/1995	2/16/1995	Null	
	EQUI 324	Null	NCC Compounding Tunnel Wash Tank and Equipment Leaks	3M	Custom	12	square feet/each	Material	12/30/2016	12/30/2016	Null	
	EQUI 326	Null	NCC Compounding 2nd Floor Wash Tank and Equipment Leaks	3M	Custom	8	square feet/each	Material	5/12/2011	5/12/2011	Null	
	EQUI 330	Null	Enterprise Solution Delivery Wash Tank and Equipment Leaks		Custom	8	square feet/each	Material	9/28/2012	9/28/2012	Null	
Extruder	EQUI 23	EU125	H1 Extruder 3	3M	None	2,054	pounds/hours	Material	1/1/1997	1/1/1998	Null	
	EQUI 105	EU374	19J Extruder			3,000	pounds/hours	Material	1/1/2001	1/1/2002	Null	

Emission Units 3

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
Extruder	EQUI 195	EU036	10J Extruder			3,000	pounds/hours	Material	1/1/1974	1/1/1974	Null	
	EQUI 278	Null	9J Corona Treater			10	kilowatts/each	Energy	3/1/2019	3/1/2019	Null	
	EQUI 280	Null	16J Corona Treater			10	kilowatts/each	Energy	7/6/2017	7/6/2017	Null	
	EQUI 284	Null	4Y Extruder			0.14	pounds/hours	Material	1/1/1992	1/1/1992	1/1/2021	
Loading-Unloading Equipment	EQUI 251	Null	Voyager Compounding Room Transfer Rack & Equipment Leaks	3M	Custom	0.06	1000 pounds/hours	Material	1/1/2006	1/1/2009	Null	
	EQUI 252	Null	22-28 Compounding Transfer Rack 1	3M	Custom	1.44	1000 gallons/hours	Material	1/1/1968	1/1/1968	Null	
	EQUI 253	Null	22-28 Compounding Transfer Rack 2	3M	Custom	1.44	1000 gallons/hours	Material	1/1/1968	1/1/1968	Null	
	EQUI 254	Null	Compounding Room 1 Transfer Rack	3M	Custom	0.6	1000 gallons/hours	Material	1/1/1967	1/1/1968	Null	
	EQUI 255	Null	Compounding Room 4 Transfer Rack	3M	Custom	0.6	1000 gallons/hours	Material	1/1/1967	1/1/1968	Null	
	EQUI 285	Null	VersaDrum Unloader Install			500	pounds/hours	Volatile Organic Compounds	4/30/2018	4/30/2018	Null	
	EQUI 290	Null	Haz Waste Transfer Rack	3M	None	1.8	1000 gallons/hours	Material	1/1/1956	5/4/1990	Null	
	EQUI 342	Null	Transfer Rack for Tank Trucks: Acrylic Acid Tank Loading (outside)	3M	Custom	200	gallons/minutes	Acid	6/1/1996	6/1/1996	Null	
	EQUI 343	Null	Transfer Rack for Tank Trucks: North Tank Farm	3M	Custom	90	gallons/minutes	Solvents	6/1/1992	6/1/1992	Null	
	EQUI 344	Null	Transfer Rack for Tank Trucks: Bldg 25 - Bay 1	3M	Custom	150	gallons/minutes	Solvents	1/1/1990	1/1/1990	Null	
	EQUI 345	Null	Transfer Rack for Tank Trucks: Bldg 25 - Bay 2	3M	Custom	150	gallons/minutes	Solvents	1/1/1990	1/1/1990	Null	
Mixing Equipment	EQUI 7	EU021	1N Mixer		None	300	gallons/each	Material	12/31/1967	12/31/1968	Null	
	EQUI 9	EU023	1S Mixer		None	300	gallons/each	Material	12/31/1967	12/31/1968	Null	
	EQUI 13	EU030	Mogul 1		None	1,100	gallons/each	Material	12/31/1968	1/1/1969	Null	
	EQUI 20	EU049	Mogul 2		None	1,100	gallons/each	Material	1/1/1991	1/1/1992	Null	
	EQUI 286	Null	N72 Drum Mix Station			0.08	pounds/hours	Volatile Organic Compounds	7/14/1987	7/14/1987	Null	
	EQUI 289	Null	N71 Drum Mix Station			157.5	pounds/hours	Volatile Organic Compounds	9/18/1991	9/18/1991	Null	
Other Emission Unit	EQUI 28	EU318	LM3 Curing Chamber 1	3M	Custom	376	pounds/hours	Material	1/1/1996	1/1/1997	Null	

Emission Units 3

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Type Other Emission Unit	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
	EQUI 31	EU321	LM3 Curing Chamber 2	3M	Custom	376	pounds/hours	Material	1/1/1996	1/1/1997	Null	
	EQUI 33	EU327	ST6 Compounding Area A	3M	Custom	1.12	pounds/hours	Material	1/1/1996	1/1/1997	Null	
	EQUI 34	EU328	ST6 Compounding Area B	3M	Custom	1.12	pounds/hours	Material	1/1/1996	1/1/1997	Null	
	EQUI 47	EU425	Voyager Oven 1	3M	Custom		gallons/minutes	Material	1/1/2006	1/1/2009	Null	
	EQUI 48	EU426	Voyager Oven 2			11	million British thermal units/hours	Heat	1/1/2006	1/1/2009	Null	
	EQUI 50	EU428	Voyager Oven 3	3M	Custom		gallons/minutes	Material	1/1/2006	1/1/2009	Null	
	EQUI 51	EU429	Voyager Oven 4			11	million British thermal units/hours	Heat	1/1/2006	1/1/2009	Null	
	EQUI 72	EU413	ST7 Curing Chamber	3M	Custom	Null	Null	Null	Null	Null	Null	
	EQUI 163	EU420	LT3 Saturator	3M	custom	2.53	pounds/hours	Material	4/1/2004	12/1/2005	Null	
	EQUI 164	EU421	LT3 Saturant Oven	3M	custom	11	million British thermal units/hours	Heat	4/1/2004	12/1/2005	Null	
	EQUI 166	EU423	LT3 Coating Oven	3M	custom	7	million British thermal units/hours	Heat	4/1/2004	12/1/2005	Null	
	EQUI 219	Null	Masking Systems Line 1	3M	Custom	24.33	pounds/hours	Material	1/1/2009	1/1/2009	Null	
	EQUI 222	Null	H1 Oven	3M	Custom	2,054	pounds/hours	Material	1/1/1997	1/1/1998	Null	
	EQUI 223	Null	Masking Systems Line 2	3M	Custom	62.7	pounds/hours	Material	1/1/2013	1/1/2013	Null	
	EQUI 224	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 1	3M	Custom	62.7	pounds/hours	Material	1/1/2011	1/1/2012	Null	
	EQUI 225	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 2	3M	Custom	62.7	pounds/hours	Material	1/1/2011	1/1/2012	Null	
	EQUI 226	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 3	3M	Custom	62.7	pounds/hours	Material	1/1/2011	1/1/2012	Null	
	EQUI 227	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 4	3M	Custom	62.7	pounds/hours	Material	1/1/2011	1/1/2011	Null	
	EQUI 228	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 5	3M	Custom	62.7	pounds/hours	Material	1/1/2011	1/1/2012	Null	
	EQUI 229	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 6	3M	Custom	62.7	pounds/hours	Material	1/1/2011	1/1/2012	Null	
	EQUI 241	Null	Print Station 4 (SFS109)	Mark Andy	4122P16Y-11	8	pounds/hours	Material	10/8/2008	1/19/2009	Null	
	EQUI 266	Null	3L Corona Treater			20	kilowatts/each	Electrical Energy	1/1/2019	1/1/2019	Null	

Emission Units 3

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Type Other Emission Unit	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
	EQUI 282	Null	APF1 Printer		None	0	liters/hours	Ink	1/1/2010	1/1/2010	Null	
	EQUI 283	Null	APF2 Printer		None	0	liters/hours	Ink	1/1/2010	1/1/2010	Null	
	EQUI 287	Null	N69 Mill			157.5	pounds/hours	Volatile Organic Compounds	9/25/1989	9/25/1989	Null	
	EQUI 288	Null	N70 Basket Mill			157.5	pounds/hours	Volatile Organic Compounds	1/1/1998	1/1/1998	Null	
	EQUI 340	Null	LT3 Printer	PrintCo	Flexographic Printing Press Model 1200 Reverse Doc	85.6	pounds/hours	Ink	12/12/2011	1/1/2012	Null	
Separation Equipment	EQUI 6	EU020	1N Churn	3M	None	3,000	cubic feet/hours	Airflow	12/31/1967	12/31/1968	Null	
	EQUI 8	EU022	1S Churn	3M	NA	3,000	cubic feet/hours	Airflow	12/31/1967	12/31/1968	Null	
Spray Booth/ Coating Line	EQUI 15	EU038	6L Precoating Station 1		None	911	pounds/hours	Material	1/1/1989	1/1/1990	Null	
	EQUI 17	EU040	6L Precoating Station 2		None	1,062	pounds/hours	Material	1/1/1989	1/1/1990	Null	
	EQUI 22	EU103	22 Coating Station	3M	None	273	pounds/hours	Material	12/31/1958	12/31/1958	Null	
	EQUI 27	EU316	LM3 Coating Station 1		Custom	650	pounds/hours	Volatile Organic Compounds	1/1/1996	1/1/1997	Null	
	EQUI 29	EU319	LM3 Coating Station 2	3M	Custom	650	pounds/hours	Volatile Organic Compounds	1/1/1996	1/1/1997	Null	
	EQUI 36	EU330	ST6 Coating Station	3M	Custom		gallons/hours	Material	1/1/1996	1/1/1997	Null	
	EQUI 38	EU325	ST5 Coating Station & Equipment Leaks	3M	Custom		gallons/hours	Material	1/1/1996	1/1/1997	Null	
	EQUI 46	EU424	Voyager Coating Station 1	3M	Custom	139	pounds/hours	Material	1/1/2006	1/1/2006	Null	
	EQUI 49	EU427	Voyager Coating Station 2	3M	Custom	806	pounds/hours	Material	1/1/2006	1/1/2009	Null	
	EQUI 71	EU412	ST7 Coating Station	3M	Custom		gallons/hours	Material	12/15/2002	12/15/2002	Null	
	EQUI 92	EU346	H1 Coating Station	3M	None	2,054	pounds/hours	Material	1/1/1997	1/1/1998	Null	
	EQUI 101	EU370	Enterprise Coating Station	3M	Custom	1,650	pounds/hours	Material	1/1/2001	1/1/2002	Null	
	EQUI 112	EU381	6L Coating Station/Oven		None	2.75	million British thermal units/hours	Heat	1/1/1989	1/1/1990	Null	
	EQUI 130	EU355	3L Coating Station 1	3M	Custom		cubic feet/minutes	Material	1/1/1999	1/1/2000	Null	
	EQUI 132	EU357	3L Coating Station 2	3M	Custom		cubic feet/minutes	Material	1/1/1999	1/1/2000	Null	

Emission Units 3

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
Spray Booth/ Coating Line	EQUI 134	EU359	3L Coating Station 3	3M	Custom		cubic feet/hours	Material	1/1/1999	1/1/2000	Null	
	EQUI 136	EU361	3L Coating Station 4	3M	Custom		cubic feet/hours	Material	1/1/1999	1/1/2000	Null	
	EQUI 138	EU363	3L Coating Station 5	3M	Custom		cubic feet/each	Material	1/1/1999	1/1/2000	Null	
	EQUI 140	EU365	3L Coating Station 6	3M	Custom		cubic feet/hours	Material	1/1/1999	1/1/2000	Null	
	EQUI 157	EU414	8L Precoating Station 1	3M	custom	620.4	pounds/hours	Material	4/1/2004	4/1/2004	Null	
	EQUI 159	EU416	8L Precoating Station 2	3M	Custom	226.6	pounds/hours	Material	4/1/2004	7/1/2005	Null	
	EQUI 165	EU422	LT3 Coating Station	3M	custom	75	pounds/hours	Volatile Organic Compounds	4/1/2004	12/1/2005	Null	
	EQUI 196	EU003	1L Precoating Station 1	3M	Custom		cubic feet/minutes	Material	12/31/1968	1/1/1969	Null	
	EQUI 198	EU005	1L Precoating Station 2	3M	Custom		cubic feet/minutes	Material	12/31/1968	1/1/1969	Null	
	EQUI 200	EU007	1L Coating Station	3M	Custom		cubic feet/minutes	Material	12/31/1968	1/1/1969	Null	
	EQUI 203	EU113	27 Coating Station	3M	Custom	1,896,000	cubic feet/hours	Airflow	12/31/1968	12/31/1968	Null	
	EQUI 205	EU115	28 Coating Station	3M	Custom	66	pounds/hours	Material	12/31/1968	12/31/1968	1/1/2014	
	EQUI 209	EU111	26 Coating Station	3M	Custom	11	liters/minutes	Material	12/31/1968	12/31/1968	1/1/2007	
	EQUI 211	Null	5L Precoating Station	INTA-ROTO Incorporated	201607	89	pounds/hours	Material	1/19/1984	8/1/1984	Null	
	EQUI 242	Null	APF1 Coating Applicator 1	3M	Custom	64.8	pounds/hours	Volatile Organic Compounds	9/30/2011	9/30/2011	Null	
	EQUI 243	Null	APF1 Coating Applicator 2	3M	Custom	64.8	pounds/hours	Volatile Organic Compounds	9/30/2011	9/30/2011	Null	
	EQUI 244	Null	APF2 Coating Applicator 1	3M	Custom	64.8	pounds/hours	Volatile Organic Compounds	9/30/2011	9/30/2011	Null	
	EQUI 245	Null	APF2 Coating Applicator 2	3M	Custom	64.8	pounds/hours	Volatile Organic Compounds	9/30/2011	9/30/2011	Null	
	EQUI 275	Null	LM3 Corona Treater			7.5	kilowatts/each	Energy	3/19/2004	3/19/2004	Null	
	EQUI 276	Null	27 Corona Treater			5	kilowatts/each	Energy	1/1/1993	1/1/1993	Null	
	EQUI 277	Null	5L Corona Treater			4	kilowatts/each	Energy	10/6/2022	10/22/2022	Null	
	EQUI 279	Null	ST7 Corona Treater			10	kilowatts/each	Energy	6/30/2022	6/30/2022	Null	

Emission Units 3

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
Spray Booth/ Coating Line	EQUI 281	Null	Print Station 1 (SFS109)	3M	None	0.08	pounds/hours	Material	1/1/2009	1/1/2009	Null	
Stripping Equipment	EQUI 184	EU032	5L SRU Stripper				cubic feet/minutes	Volatile Organic Compounds	1/1/1991	1/1/1992	Null	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 3	GP005	Units Subject to Pre-1969 Industrial Process Equipment Rule	EQUI 6	
			EQUI 7	
			EQUI 8	
			EQUI 9	
			EQUI 10	
			EQUI 12	
			EQUI 13	
			EQUI 21	
			EQUI 22	
			EQUI 25	
			EQUI 196	
			EQUI 198	
			EQUI 199	
			EQUI 200	
			EQUI 202	
			EQUI 203	
			EQUI 204	
			EQUI 205	
COMG 4	GP008	7L BACT Conditions and 40 CFR pt. 60, subp. RR	EQUI 97	
			EQUI 98	
			EQUI 99	
COMG 5	GP010	LT3 BACT Conditions	EQUI 163	
			EQUI 164	
			EQUI 165	
			EQUI 166	
COMG 8	GP014	5L PSD Limits to avoid major modification, 5L SRU Requirements	EQUI 14	
			EQUI 184	
			EQUI 188	
			TREA 11	
COMG 9	GP015	6L BACT Conditions, 40 CFR pt. 60, subp. RR, and 40 CFR pt. 60, subp. FFF	EQUI 15	
			EQUI 16	
			EQUI 17	
			EQUI 26	
			EQUI 112	
			TREA 15	
COMG 11	GP017	Solvent Cleaning Tanks, PSD Limits to avoid a major modification	EQUI 124	
			EQUI 125	
			EQUI 126	
COMG 14	GP022	LM3 BACT Conditions	EQUI 24	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 14	GP022	LM3 BACT Conditions	EQUI 27	
			EQUI 28	
			EQUI 29	
			EQUI 30	
			EQUI 31	
			EQUI 32	
COMG 16	GP025	Enterprise Coater BACT Conditions and 40 CFR pt. 60, subp. RR	EQUI 101	
			EQUI 102	
			EQUI 103	
			TREA 12	
COMG 17	GP026	Voyager Coating Line BACT Conditions and 40 CFR pt. 60, subp. RR	EQUI 46	
			EQUI 47	
			EQUI 48	
			EQUI 49	
			EQUI 50	
			EQUI 51	
			TREA 6	
COMG 18	GP027	ST5 and ST6 BACT Conditions	EQUI 33	
			EQUI 34	
			EQUI 35	
			EQUI 36	
			EQUI 38	
			EQUI 271	
			EQUI 272	
COMG 20	GP029	1L Coater Limits	EQUI 196	
			EQUI 197	
			EQUI 198	
			EQUI 199	
			EQUI 200	
			EQUI 201	
COMG 22	GP031	22 Coater Limits	EQUI 21	
			EQUI 22	
COMG 25	GP036	40 CFR pt. 63, subp. DDDDD	EQUI 1	
			EQUI 2	
			EQUI 44	
COMG 26	GP002	40 CFR pt. 63, subp. JJJJ	EQUI 14	
			EQUI 15	
			EQUI 16	
			EQUI 17	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 26	GP002	40 CFR pt. 63, subp. JJJJ	EQUI 21	
			EQUI 22	
			EQUI 24	
			EQUI 26	
			EQUI 27	
			EQUI 28	
			EQUI 29	
			EQUI 30	
			EQUI 31	
			EQUI 36	
			EQUI 38	
			EQUI 46	
			EQUI 47	
			EQUI 48	
			EQUI 49	
			EQUI 50	
			EQUI 51	
			EQUI 71	
			EQUI 92	
			EQUI 97	
			EQUI 98	
			EQUI 99	
			EQUI 101	
			EQUI 102	
			EQUI 103	
			EQUI 130	
			EQUI 131	
			EQUI 132	
			EQUI 133	
			EQUI 134	
			EQUI 135	
			EQUI 136	
			EQUI 137	
			EQUI 138	
			EQUI 139	
			EQUI 140	
			EQUI 141	
			EQUI 142	
			EQUI 143	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 26	GP002	40 CFR pt. 63, subp. JJJJ	EQUI 157	
			EQUI 158	
			EQUI 159	
			EQUI 160	
			EQUI 161	
			EQUI 162	
			EQUI 163	
			EQUI 164	
			EQUI 165	
			EQUI 166	
			EQUI 188	
			EQUI 196	
			EQUI 197	
			EQUI 198	
			EQUI 199	
			EQUI 200	
			EQUI 201	
			EQUI 202	
			EQUI 203	
			EQUI 204	
			EQUI 205	
			EQUI 208	
			EQUI 209	
			EQUI 211	
			EQUI 222	
			EQUI 241	
			EQUI 242	
			EQUI 243	
			EQUI 244	
			EQUI 245	
			EQUI 262	
			EQUI 269	
			EQUI 271	
			EQUI 272	
			EQUI 273	
			EQUI 281	
			EQUI 340	
COMG 27	GP007	Units Subject to Post-1969 Industrial Process Equipment Rule	EQUI 20	
			EQUI 23	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)
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Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 27	GP007	Units Subject to Post-1969 Industrial Process Equipment Rule	EQUI 27	
			EQUI 28	
			EQUI 29	
			EQUI 31	
			EQUI 46	
			EQUI 47	
			EQUI 49	
			EQUI 50	
			EQUI 92	
			EQUI 101	
			EQUI 102	
			EQUI 105	
			EQUI 112	
			EQUI 130	
			EQUI 132	
			EQUI 134	
			EQUI 136	
			EQUI 138	
			EQUI 140	
			EQUI 157	
			EQUI 159	
			EQUI 161	
			EQUI 163	
			EQUI 165	
			EQUI 188	
			EQUI 195	
			EQUI 241	
			EQUI 243	
			EQUI 245	
			EQUI 257	
			EQUI 258	
			EQUI 259	
			EQUI 260	
			EQUI 266	
			EQUI 271	
			EQUI 272	
			EQUI 273	
			EQUI 275	
			EQUI 276	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)
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Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 27	GP007	Units Subject to Post-1969 Industrial Process Equipment Rule	EQUI 277	
			EQUI 278	
			EQUI 279	
			EQUI 280	
			EQUI 282	
			EQUI 283	
			EQUI 284	
			EQUI 285	
			EQUI 286	
			EQUI 287	
			EQUI 288	
			EQUI 289	
			EQUI 290	
			EQUI 291	
			EQUI 292	
			EQUI 293	
			EQUI 294	
			EQUI 295	
			EQUI 296	
			EQUI 297	
			EQUI 298	
			EQUI 299	
			EQUI 300	
			EQUI 301	
			EQUI 324	
			EQUI 326	
			EQUI 330	
COMG 29	GP009	8L BACT Conditions and 40 CFR pt. 60, subp. RR	EQUI 157	
			EQUI 158	
			EQUI 159	
			EQUI 160	
			EQUI 161	
			EQUI 162	
COMG 30	GP006	Direct Heating Equipment	EQUI 14	
			EQUI 16	
			EQUI 24	
			EQUI 26	
			EQUI 30	
			EQUI 48	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)
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Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 30	GP006	Direct Heating Equipment	EQUI 51	
			EQUI 97	
			EQUI 98	
			EQUI 99	
			EQUI 103	
			EQUI 131	
			EQUI 133	
			EQUI 135	
			EQUI 137	
			EQUI 139	
			EQUI 141	
			EQUI 142	
			EQUI 143	
			EQUI 158	
			EQUI 160	
			EQUI 162	
			EQUI 164	
			EQUI 166	
			EQUI 197	
			EQUI 201	
			EQUI 269	
COMG 31	GP023	3L Limits to avoid major modification, 40 CFR pt. 60, subp. RR, and 40 CFR pt. 60, subp. FFF	EQUI 130	
			EQUI 131	
			EQUI 132	
			EQUI 133	
			EQUI 134	
			EQUI 135	
			EQUI 136	
			EQUI 137	
			EQUI 138	
			EQUI 139	
			EQUI 140	
			EQUI 141	
			EQUI 142	
			EQUI 143	
			TREA 8	
COMG 33	GP011	7L, 8L, and LT3 combined BACT limit	EQUI 97	
			EQUI 98	
			EQUI 99	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)

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Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 33	GP011	7L, 8L, and LT3 combined BACT limit	EQUI 157	
			EQUI 158	
			EQUI 159	
			EQUI 160	
			EQUI 161	
			EQUI 162	
			EQUI 163	
			EQUI 164	
			EQUI 165	
			EQUI 166	
COMG 34	GP018	27 Coater Limit to avoid major modification and 40 CFR pt. 60, subp. RR	EQUI 202	
			EQUI 203	
COMG 35	GP019	28 Coater Limit to avoid major modification	EQUI 204	
			EQUI 205	
COMG 37	GP035	26 Coater Limits	EQUI 208	
			EQUI 209	
COMG 38	Null	40 CFR pt. 63, subp. ZZZZ, Existing Emergency Compression Ignition Stationary Engine less than or equal to 500 HP	EQUI 235	
			EQUI 238	
			EQUI 239	
COMG 39	Null	40 CFR pt. 63, subp. ZZZZ, Existing Spark Ignition Stationary Engines <100 HP	EQUI 233	
			EQUI 234	
			EQUI 236	
			EQUI 237	
COMG 40	Null	40 CFR pt. 63, subp. FFFF and subp. UU requirements	EQUI 213	
			EQUI 252	
			EQUI 253	
COMG 41	Null	40 CFR pt. 63, subp. EEEE	EQUI 210	
			EQUI 213	
			EQUI 214	
			EQUI 215	
			EQUI 216	
			EQUI 217	
			EQUI 218	
			EQUI 251	
			EQUI 252	
			EQUI 253	
			EQUI 254	
			EQUI 255	
			EQUI 342	

Component Groups

AI ID (Name): 4053 (3M Hutchinson)
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Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 41	Null	40 CFR pt. 63, subp. EEEE	EQUI 343	
			EQUI 344	
			EQUI 345	
COMG 42	Null	40 CFR pt. 63, subp. KK	EQUI 219	
			EQUI 223	
			EQUI 270	
			EQUI 339	
COMG 43	Null	ST5 Coating Line, 40 CFR pt. 60, subp. RR	EQUI 38	
			EQUI 271	
COMG 44	Null	ST6 Coating Line, 40 CFR pt. 60, subp. RR	EQUI 36	
			EQUI 272	
COMG 45	Null	ST7 Coating Line, 40 CFR pt. 60, subp. RR	EQUI 71	
			EQUI 72	
			EQUI 273	
COMG 46	Null	H1, 40 CFR pt. 60, subp. RR	EQUI 23	
			EQUI 92	
			EQUI 222	
COMG 47	Null	Flexographic Printing, 40 CFR pt. 60, subp. RR	EQUI 224	
			EQUI 225	
			EQUI 226	
			EQUI 227	
			EQUI 228	
			EQUI 229	
COMG 48	Null	APF1, 40 CFR pt. 60, subp. VVV	EQUI 242	
			EQUI 243	
COMG 49	Null	APF2, 40 CFR pt. 60, subp. VVV	EQUI 244	
			EQUI 245	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Aboveground Storage Tank	EQUI 210	Null	38-A-144	HAPs - Total	0.39	1.69	1.69	
					Toluene	0.39	1.69	1.69	
					Volatile Organic Compounds	0.39	1.69	1.69	
		EQUI 213	Null	14T-A-22 Acrylic Acid Bulk Storage and Equipment Leaks	Acrylic acid	0.21	3.87	0.91	
					HAPs - Total	0.21	3.87	0.91	
					Volatile Organic Compounds	0.21	3.88	0.91	
		EQUI 214	Null	25-RM-210 Tank 2 and Toluene Blending Equipment Leaks	HAPs - Total	0.77	8.23	3.37	
					Toluene	0.77	8.23	3.37	
					Volatile Organic Compounds	0.77	8.23	3.37	
		EQUI 215	Null	25-RM-6750 Tank 4	HAPs - Total	0.7	3.08	3.08	
					Hexane	0.65	2.83	2.83	
					Toluene	0.06	0.24	0.24	
					Volatile Organic Compounds	1.8	7.89	7.89	
		EQUI 216	Null	25-RM-5178 Tank 5	HAPs - Total	0.56	2.46	2.46	
					Hexane	0.47	2.05	2.05	
					Toluene	0.09	0.41	0.41	
					Volatile Organic Compounds	1.76	7.71	7.71	
		EQUI 217	Null	25-RM-5178 Tank 6	HAPs - Total	0.56	2.46	2.46	
					Hexane	0.47	2.05	2.05	
					Toluene	0.09	0.41	0.41	
					Volatile Organic Compounds	1.76	7.71	7.71	
		EQUI 218	Null	25-RM-5178 Tank 13	HAPs - Total	0.55	2.41	2.41	
					Hexane	0.46	2.01	2.01	
					Toluene	0.09	0.4	0.4	
					Volatile Organic Compounds	1.73	7.56	7.56	
		EQUI 257	Null	14Q-A-42	Volatile Organic Compounds	0.26	1.14	1.14	
		EQUI 258	Null	38-A-147	Volatile Organic Compounds	1.03	4.49	4.49	
		EQUI 259	Null	25-RM-2119	Volatile Organic Compounds	1.62	7.1	7.1	
		EQUI 260	Null	25-RM-55	Benzene	0.00024	0.0011	0.0011	
					HAPs - Total	0.11	0.48	0.48	
					Hexane	0.09	0.39	0.39	
					Toluene	0.02	0.09	0.09	
		EQUI 298	Null	52-B-1 Barrier	Volatile Organic Compounds	1.18	5.19	5.19	
					Acrylic acid	0.8	3.49	3.49	
					HAPs - Total	0.8	3.49	3.49	
					Volatile Organic Compounds	0.96	4.2	4.2	
		EQUI 299	Null	52-P-1 Primer	Acrylic acid	0.76	3.31	3.31	
					HAPs - Total	0.76	3.31	3.31	
					Volatile Organic Compounds	0.92	4.04	4.04	
		EQUI 300	Null	52-S-1 Saturant	Acrylic acid	2.72	11.92	11.92	
					HAPs - Total	2.72	11.92	11.92	
					Volatile Organic Compounds	2.72	11.92	11.92	
		EQUI 301	Null	52-S-2 Saturant	Acrylic acid	2.72	11.92	11.92	
					HAPs - Total	2.72	11.92	11.92	
					Volatile Organic Compounds	2.72	11.92	11.92	
		EQUI 341	Null	North Tank (38-A-21/149)	Toluene	0.00076	0.0033	0.0033	
					Volatile Organic Compounds	0.00081	0.0035	0.0035	
	Adhesion Equipment	EQUI 161	EU418	8L Coating Station	1,1-Dichloroethylene (Vinylidene chloride)	0.01	0.05	0.05	
					Acrylic acid	0.06	0.27	0.27	
					Acrylonitrile	0.0059	0.03	0.03	
					Bromoform	0.00018	0.00081	0.00081	
					Chloromethane	4.2e-05	0.00018	0.00018	
					HAPs - Total	0.69	3.02	3.02	
					Hydroquinone	0.0061	0.03	0.03	
					Methanol	5.1e-06	2.2e-05	2.2e-05	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	3.6e-06	1.6e-05	1.6e-05	
					Methyl methacrylate	0.05	0.2	0.2	
					Styrene	0.05	0.2	0.2	
					Toluene	0.51	2.23	2.23	
					Triethylamine	0.00051	0.0022	0.0022	
					Volatile Organic Compounds	2.35	10.31	10.31	
		EQUI 188	EU033	5L Coating Station	1,3-Butadiene	0.00019	0.00082	0.00082	
					Acetaldehyde	1e-05	0.00023	4.6e-05	
					Benzene	0.03	0.55	0.11	
					Ethylbenzene	0.22	4.88	0.98	
					Ethylene glycol	1.3e-06	2.9e-05	5.7e-06	
					Formaldehyde	0.02	0.34	0.07	
					HAPs - Total	69.14	1,514.15	302.83	
					Hexane	26.36	577.18	115.44	
					Methanol	0.52	11.45	2.29	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.19	4.17	0.83	
					Toluene	41.25	903.36	180.67	
					Volatile Organic Compounds	526.98	11,540.95	2,308.19	
					Xylenes, Total	0.56	12.22	2.44	
	Blender	EQUI 10	EU024	3W Blender	1,3-Dichloropropene	1.7e-09	7.5e-09	7.5e-09	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Blender	EQUI 10	EU024	3W Blender	1,4-Dioxane (p-Dioxane)	4.2e-09	1.8e-08	1.8e-08	
					3,3-Dichlorobenzidine	5.4e-09	2.4e-08	2.4e-08	
					Acetaldehyde	8.9e-07	3.9e-06	3.9e-06	
					Acrylamide	0.00015	0.00064	0.00064	
					Acrylic acid	0.0084	0.04	0.04	
					Acrylonitrile	0.0012	0.0052	0.0052	
					Benzene	0.0032	0.01	0.01	
					Bromoform	3.7e-10	1.6e-09	1.6e-09	
					Chlorine	2.4e-07	1e-06	1e-06	
					Chlorobenzene (Monochlorobenzene)	0.0038	0.02	0.02	
					Cresols/Cresylic acid (isomers and mixture)	3.4e-05	0.00015	0.00015	
					Cumene (Isopropylbenzene)	0.00025	0.0011	0.0011	
					Dichloromethane (Methylene chloride)	1.7e-09	7.5e-09	7.5e-09	
					Ethyl acrylate	9.4e-05	0.00041	0.00041	
					Ethylbenzene	0.04	0.16	0.16	
					Ethylene glycol	0.00024	0.001	0.001	
					Ethylene oxide	2.8e-10	1.2e-09	1.2e-09	
					Formaldehyde	1.8e-05	8.1e-05	8.1e-05	
					HAPs - Total	4.02	17.6	17.6	
					Hexachlorobenzene	2.1e-09	9.1e-09	9.1e-09	
					Hexane	0.02	0.07	0.07	
					Hydroquinone	0.00017	0.00073	0.00073	
					Maleic anhydride	2e-06	8.7e-06	8.7e-06	
					Methanol	0.0025	0.01	0.01	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0041	0.02	0.02	
					Methyl methacrylate	2.9e-05	0.00013	0.00013	
					Naphthalene	9.3e-07	4.1e-06	4.1e-06	
					Particulate Matter	1.05	4.58	4.58	
					Phenol	0.00011	0.00048	0.00048	
					PM < 2.5 micron	0.35	1.53	1.53	
					PM < 10 micron	0.35	1.53	1.53	
					Styrene	3.5e-06	1.5e-05	1.5e-05	
					Toluene	3.82	16.75	16.75	
					Vinyl acetate (Acetic acid)	9.8e-05	0.00043	0.00043	
					Vinyl chloride (chloroethene)	1.9e-11	8.3e-11	8.3e-11	
					Volatile Organic Compounds	6.27	27.44	27.44	
					Xylenes, Total	0.12	0.52	0.52	
		EQUI 12	EU029	2W Blender	1,3-Butadiene	4.6e-07	2e-06	2e-06	
					1,3-Dichloropropene	1.7e-09	7.5e-09	7.5e-09	
					1,4-Dioxane (p-Dioxane)	4.2e-09	1.8e-08	1.8e-08	
					3,3-Dichlorobenzidine	5.4e-09	2.4e-08	2.4e-08	
					Acetaldehyde	8.9e-07	3.9e-06	3.9e-06	
					Acrylamide	0.00015	0.00064	0.00064	
					Acrylic acid	0.0084	0.04	0.04	
					Acrylonitrile	0.0012	0.0052	0.0052	
					Benzene	0.0032	0.01	0.01	
					Bromoform	3.7e-10	1.6e-09	1.6e-09	
					Chlorine	2.4e-07	1e-06	1e-06	
					Chlorobenzene (Monochlorobenzene)	0.0038	0.02	0.02	
					Cresols/Cresylic acid (isomers and mixture)	3.4e-05	0.00015	0.00015	
					Cumene (Isopropylbenzene)	0.00025	0.0011	0.0011	
					Dichloromethane (Methylene chloride)	1.79e-09	7.5e-09	7.5e-09	
					Ethyl acrylate	9.4e-05	0.00041	0.00041	
					Ethylbenzene	0.04	0.16	0.16	
					Ethylene glycol	0.00024	0.001	0.001	
					Ethylene oxide	2.8e-10	1.2e-09	1.2e-09	
					Formaldehyde	0.00019	0.00083	0.00083	
					HAPs - Total	4.33	18.98	18.98	
					Hexachlorobenzene	2.1e-09	9.1e-09	9.1e-09	
					Hexane	0.33	1.43	1.43	
					Hydroquinone	0.00017	0.00073	0.00073	
					Maleic anhydride	2e-06	8.7e-06	8.7e-06	
					Methanol	0.0065	0.03	0.03	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0041	0.02	0.02	
					Methyl methacrylate	2.9e-05	0.00013	0.00013	
					Naphthalene	9.3e-07	4.1e-06	4.1e-06	
					Particulate Matter	1.05	4.58	4.58	
					Phenol	0.00011	0.00048	0.00048	
					PM < 2.5 micron	0.35	1.53	1.53	
					PM < 10 micron	0.35	1.53	1.53	
					Styrene	3.5e-06	1.5e-05	1.5e-05	
					Toluene	3.82	16.75	16.75	
					Vinyl acetate (Acetic acid)	9.8e-05	0.00043	0.00043	
					Vinyl chloride (chloroethene)	1.9e-11	8.3e-11	8.3e-11	
					Volatile Organic Compounds	6.53	28.62	28.62	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Blender	EQUI 12	EU029	2W Blender	Xylenes, Total	0.12	0.52	0.52	
					1,3-Dichloropropene	1.7e-09	7.5e-09	7.5e-09	
		EQUI 25	EU028	2E Blender	1,4-Dioxane (p-Dioxane)	4.2e-09	1.8e-08	1.8e-08	
					3,3-Dichlorobenzidine	5.4e-09	2.4e-08	2.4e-08	
					Acetaldehyde	8.9e-07	3.9e-06	3.9e-06	
					Acrylamide	0.00015	0.00064	0.00064	
					Acrylic acid	0.0084	0.04	0.04	
					Acrylonitrile	0.0012	0.0052	0.0052	
					Benzene	0.0032	0.01	0.01	
					Bromoform	3.7e-10	1.6e-09	1.6e-09	
					Chlorine	2.4e-07	1e-06	1e-06	
					Chlorobenzene (Monochlorobenzene)	0.0038	0.02	0.02	
					Cresols/Cresylic acid (isomers and mixture)	3.4e-05	0.00015	0.00015	
					Cumene (Isopropylbenzene)	0.00025	0.0011	0.0011	
					Dichloromethane (Methylene chloride)	1.7e-09	7.5e-09	7.5e-09	
					Ethyl acrylate	9.4e-05	0.00041	0.00041	
					Ethylbenzene	0.04	0.16	0.16	
					Ethylene glycol	0.00024	0.001	0.001	
					Ethylene oxide	2.8e-10	1.2e-09	1.2e-09	
					Formaldehyde	1.8e-05	8.1e-05	8.1e-05	
					HAPs - Total	4.02	17.6	17.6	
					Hexachlorobenzene	2.1e-09	9.1e-09	9.1e-09	
					Hexane	0.02	0.07	0.07	
					Hydroquinone	0.00017	0.00073	0.00073	
					Maleic anhydride	2e-06	8.7e-06	8.7e-06	
					Methanol	0.0025	0.01	0.01	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0041	0.02	0.02	
					Methyl methacrylate	2.9e-05	0.00013	0.00013	
					Naphthalene	9.3e-07	4.1e-06	4.1e-06	
					Particulate Matter	1.05	4.58	4.58	
					Phenol	0.00011	0.00048	0.00048	
					PM < 2.5 micron	0.35	1.53	1.53	
					PM < 10 micron	0.35	1.53	1.53	
					Styrene	3.5e-06	1.5e-05	1.5e-05	
					Toluene	3.82	16.75	16.75	
					Vinyl acetate (Acetic acid)	9.8e-05	0.00043	0.00043	
					Vinyl chloride (chloroethene)	1.9e-11	8.3e-11	8.3e-11	
					Volatile Organic Compounds	6.27	27.44	27.44	
					Xylenes, Total	0.12	0.52	0.52	
	Boiler	EQUI 1	EU001	Boiler 3	1,4-Dichlorobenzene (para-)	0.00013	0.00058	0.00058	
					Arsenic compounds	2.2e-05	9.6e-05	9.6e-05	
					Benzene	0.00023	0.001	0.001	
					Beryllium Compounds	1.3e-06	5.8e-06	5.8e-06	
					Cadmium compounds	0.00012	0.00053	0.00053	
					Carbon Dioxide	13,121.14	57,471	57,471	
					Carbon Dioxide Equivalent	13,134.7	57,530	57,530	
					Carbon Monoxide	9.24	40.47	40.47	
					Chromium compounds	0.00015	0.00067	0.00067	
					Cobalt compounds	9.2e-06	4e-05	4e-05	
					Formaldehyde	0.0083	0.04	0.04	
					HAPs - Total	0.21	0.91	0.91	
					Hexane	0.2	0.87	0.87	
					Lead Compounds	5.5e-05	0.00024	0.00024	
					Manganese compounds	4.2e-05	0.00018	0.00018	
					Mercury Compounds	2.9e-05	0.00013	0.00013	
					Methane	0.25	1.08	1.08	
					Naphthalene	6.7e-05	0.00029	0.00029	
					Nickel compounds	0.00023	0.001	0.001	
					Nitrogen Oxides	30.8	134.9	134.9	
					Nitrous Oxide	0.02	0.11	0.11	
					Particulate Matter	0.84	3.66	3.66	
					PM < 2.5 micron	0.84	3.66	3.66	
					PM < 10 micron	0.84	3.66	3.66	
					Polycyclic organic matter	9.7e-06	4.2e-05	4.2e-05	
					Selenium compounds	2.6e-06	1.2e-05	1.2e-05	
					Sulfur Dioxide	0.07	0.29	0.29	
					Toluene	0.00037	0.0016	0.0016	
					Volatile Organic Compounds	0.61	2.65	2.65	
		EQUI 2	EU002	Boiler 4	1,4-Dichlorobenzene (para-)	0.00011	0.00047	0.00047	
					Arsenic compounds	1.8e-05	7.9e-05	7.9e-05	
					Benzene	0.00019	0.00083	0.00083	
					Beryllium Compounds	1.1e-06	4.7e-06	4.7e-06	
					Cadmium compounds	9.9e-05	0.00043	0.00043	
					Carbon Dioxide	10,735.48	47,021	47,021	
					Carbon Dioxide Equivalent	10,746.57	47,070	47,070	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Boiler	EQUI 2	EU002	Boiler 4	Carbon Monoxide	7.56	33.11	33.11	
					Chromium compounds	0.00013	0.00055	0.00055	
					Cobalt compounds	7.6e-06	3.3e-05	3.3e-05	
					Formaldehyde	0.0068	0.03	0.03	
					HAPs - Total	0.17	0.75	0.75	
					Hexane	0.16	0.71	0.71	
					Lead Compounds	4.5e-05	0.0002	0.0002	
					Manganese compounds	3.4e-05	0.00015	0.00015	
					Mercury Compounds	2.3e-05	0.0001	0.0001	
					Methane	0.2	0.89	0.89	
					Naphthalene	5.5e-05	0.00024	0.00024	
					Nickel compounds	0.00019	0.00083	0.00083	
					Nitrogen Oxides	9	39.42	39.42	
					Nitrous Oxide	0.02	0.09	0.09	
					Particulate Matter	0.68	3	3	
					PM < 2.5 micron	0.68	3	3	
					PM < 10 micron	0.68	3	3	
					Polycyclic organic matter	7.9e-06	3.5e-05	3.5e-05	
					Selenium compounds	2.2e-06	9.5e-06	9.5e-06	
					Sulfur Dioxide	0.05	0.24	0.24	
					Toluene	0.00031	0.0013	0.0013	
					Volatile Organic Compounds	0.5	2.17	2.17	
		EQUI 44	EU037	Boiler 5	1,4-Dichlorobenzene (para-)	0.00012	0.00053	0.00053	
					Arsenic compounds	2e-05	8.8e-05	8.8e-05	
					Benzene	0.00021	0.00092	0.00092	
					Beryllium Compounds	1.2e-06	5.3e-06	5.3e-06	
					Cadmium compounds	0.00011	0.00048	0.00048	
					Carbon Dioxide	11,928.31	52,246.01	52,246.01	
					Carbon Dioxide Equivalent	11,940.63	52,299.97	52,299.97	
					Carbon Monoxide	8.4	36.79	36.79	
					Chromium compounds	0.00014	0.00061	0.00061	
					Cobalt compounds	8.4e-06	3.7e-05	3.7e-05	
					Formaldehyde	0.0075	0.03	0.03	
					HAPs - Total	0.19	0.83	0.83	
					Hexane	0.18	0.79	0.79	
					Lead Compounds	5e-05	0.00022	0.00022	
					Manganese compounds	3.8e-05	0.00017	0.00017	
					Mercury Compounds	2.6e-05	0.00011	0.00011	
					Methane	0.22	0.98	0.98	
					Naphthalene	6.1e-05	0.00027	0.00027	
					Nickel compounds	0.00021	0.00092	0.00092	
					Nitrogen Oxides	28	122.64	122.64	
					Nitrous Oxide	0.02	0.1	0.1	
					Particulate Matter	0.76	3.33	3.33	
					PM < 2.5 micron	0.76	3.33	3.33	
					PM < 10 micron	0.76	3.33	3.33	
					Polycyclic organic matter	8.8e-06	3.9e-05	3.9e-05	
					Selenium compounds	2.4e-06	1.1e-05	1.1e-05	
					Sulfur Dioxide	0.06	0.26	0.26	
					Toluene	0.00034	0.0015	0.0015	
					Volatile Organic Compounds	0.55	2.41	2.41	
	Cleaning Equipment	EQUI 32	EU322	LM3 Cleaning	Volatile Organic Compounds	0.05	0.24	0.24	
		EQUI 35	EU329	ST6 Cleaning	Volatile Organic Compounds	0.05	0.24	0.24	
		EQUI 124	EU050	Cleaning Tank 1	HAPs - Total	2.03	8.9	8.9	
					Toluene	2.03	8.9	8.9	
					Volatile Organic Compounds	2.03	8.9	8.9	
		EQUI 125	EU051	Cleaning Tank 2	HAPs - Total	2.03	8.9	8.9	
					Toluene	2.03	8.9	8.9	
					Volatile Organic Compounds	2.03	8.9	8.9	
		EQUI 126	EU052	Cleaning Tank 3	Volatile Organic Compounds	2.03	8.9	8.9	
		EQUI 291	Null	22 Coater Solution Delivery..	Volatile Organic Compounds	0.72	3.15	3.15	
		EQUI 292	Null	Voyager Solution Delivery 1..	Volatile Organic Compounds	0.48	2.1	2.1	
		EQUI 293	Null	Voyager Solution Delivery 2..	Volatile Organic Compounds	0.48	2.1	2.1	
		EQUI 294	Null	3L Coater Wash Tank	Volatile Organic Compounds	0.37	1.62	1.62	
		EQUI 295	Null	Bldg. 20 Compounding Wa..	Volatile Organic Compounds	1.43	6.28	6.28	
		EQUI 296	Null	Bldg. 20 Compounding Wa..	Volatile Organic Compounds	1.43	6.28	6.28	
		EQUI 297	Null	Bldg. 20 Compounding Wa..	Volatile Organic Compounds	1.43	6.28	6.28	
		EQUI 324	Null	NCC Compounding Tunnel Wash Tank and Equipment Leaks	HAPs - Total	0.02	0.09	0.07	
					Naphthalene	0.01	0.08	0.06	
					Volatile Organic Compounds	1.25	6.5	5.48	
					Xylenes, Total	0.0021	0.01	0.0093	
		EQUI 326	Null	NCC Compounding 2nd Floor Wash Tank and Equipment Leaks	Ethylene glycol	0.01	0.18	0.05	
					HAPs - Total	0.1	1.54	0.45	
					Methanol	0.0016	0.02	0.0068	
					Toluene	0.09	1.33	0.39	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Cleaning Equipment	EQUI 326	Null	NCC Compounding 2nd Floor Wash Tank and Equipment Leaks	Volatile Organic Compounds	1.34	15.01	5.88	
					Xylenes, Total	0.00078	0.01	0.0034	
		EQUI 330	Null	Enterprise Solution Delivery..	Volatile Organic Compounds	0.4812	3.65	2.1054	
	Dryer/Oven, direct fired	EQUI 24	EU317	LM3 Drying Oven 1A	1,4-Dichlorobenzene (para-)	1.1e-05	4.7e-05	4.7e-05	
					Arsenic compounds	1.8e-06	7.9e-06	7.9e-06	
					Benzene	1.9e-05	8.3e-05	8.3e-05	
					Beryllium Compounds	1.1e-07	4.7e-07	4.7e-07	
					Cadmium compounds	9.9e-06	4.3e-05	4.3e-05	
					Carbon Dioxide	1,075.89	4,712.39	4,712.39	
					Carbon Dioxide Equivalent	1,077	4,717.25	4,717.25	
					Carbon Monoxide	0.76	3.32	3.32	
					Chromium compounds	1.3e-05	5.5e-05	5.5e-05	
					Cobalt compounds	7.6e-07	3.3e-06	3.3e-06	
					Formaldehyde	0.00068	0.003	0.003	
					HAPs - Total	1.99	8.71	8.71	
					Hexane	0.02	0.07	0.07	
					Lead Compounds	4.5e-06	2e-05	2e-05	
					Manganese compounds	3.4e-06	1.5e-05	1.5e-05	
					Mercury Compounds	2.3e-06	1e-05	1e-05	
					Methane	0.02	0.09	0.09	
					Methanol	0.04	0.16	0.16	
					Naphthalene	5.5e-06	2.4e-05	2.4e-05	
					Nickel compounds	1.9e-05	8.3e-05	8.3e-05	
					Nitrogen Oxides	0.9	3.95	3.95	
					Nitrous Oxide	0.002	0.0089	0.0089	
					Particulate Matter	0.07	0.3	0.3	
					PM < 2.5 micron	0.07	0.3	0.3	
					PM < 10 micron	0.07	0.3	0.3	
					Polycyclic organic matter	8e-07	3.5e-06	3.5e-06	
					Selenium compounds	2.2e-07	9.5e-07	9.5e-07	
					Sulfur Dioxide	0.0054	0.02	0.02	
					Toluene	1.93	8.47	8.47	
		EQUI 30	EU320	LM3 Drying Oven 2A	Volatile Organic Compounds	143.05	626.56	626.56	
					1,4-Dichlorobenzene (para-)	3.1e-06	1.4e-05	1.4e-05	
					Arsenic compounds	5.2e-07	2.3e-06	2.3e-06	
					Benzene	5.4e-06	2.4e-05	2.4e-05	
					Beryllium Compounds	3.1e-08	1.4e-07	1.4e-07	
					Cadmium compounds	2.8e-06	1.2e-05	1.2e-05	
					Carbon Dioxide	308.73	1,352.25	1,352.25	
					Carbon Dioxide Equivalent	309.05	1,353.65	1,353.65	
					Carbon Monoxide	0.22	0.95	0.95	
					Chromium compounds	3.6e-06	1.6e-05	1.6e-05	
					Cobalt compounds	2.2e-07	9.5e-07	9.5e-07	
					Formaldehyde	0.00019	0.00085	0.00085	
					HAPs - Total	1.98	8.65	8.65	
					Hexane	0.0047	0.02	0.02	
					Lead Compounds	1.3e-06	5.7e-06	5.7e-06	
					Manganese compounds	9.8e-07	4.3e-06	4.3e-06	
					Mercury Compounds	6.7e-07	2.9e-06	2.9e-06	
					Methane	0.0058	0.03	0.03	
					Methanol	0.04	0.16	0.16	
					Naphthalene	1.6e-06	6.9e-06	6.9e-06	
					Nickel compounds	5.4e-06	2.4e-05	2.4e-05	
					Nitrogen Oxides	0.26	1.13	1.13	
					Nitrous Oxide	0.00058	0.0025	0.0025	
					Particulate Matter	0.02	0.09	0.09	
					PM < 2.5 micron	0.02	0.09	0.09	
					PM < 10 micron	0.02	0.09	0.09	
					Polycyclic organic matter	2.3e-07	1e-06	1e-06	
					Selenium compounds	6.2e-08	2.7e-07	2.7e-07	
					Sulfur Dioxide	0.0016	0.0068	0.0068	
					Toluene	1.93	8.47	8.47	
					Volatile Organic Compounds	143.01	626.4	626.4	
	Dryer/Oven, unknown firing method	EQUI 14	EU034	5L Coating Oven	1,3-Butadiene	9.3e-06	0.0002	4.1e-05	
					1,4-Dichlorobenzene (para-)	9.4e-06	4.1e-05	4.1e-05	
					Acetaldehyde	2.6e-06	5.7e-05	1.1e-05	
					Arsenic compounds	1.6e-06	6.9e-06	6.9e-06	
					Benzene	0.0063	0.14	0.03	
					Beryllium Compounds	9.4e-08	4.1e-07	4.1e-07	
					Cadmium compounds	8.6e-06	3.8e-05	3.8e-05	
					Carbon Dioxide	935.55	4,097.73	4,097.73	
					Carbon Dioxide Equivalent	936.52	4,101.81	4,101.81	
					Carbon Monoxide	0.66	2.89	2.89	
					Chromium compounds	1.1e-05	4.8e-05	4.8e-05	
					Cobalt compounds	6.6e-07	2.9e-06	2.9e-06	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 14	EU034	5L Coating Oven	Ethylbenzene	0.06	1.22	0.24	
					Ethylene glycol	3.3e-07	7.1e-06	1.4e-06	
					Formaldehyde	0.0044	0.09	0.02	
					HAPs - Total	17.3	378.6	75.77	
					Hexane	6.6	144.36	28.92	
					Lead Compounds	3.9e-06	1.7e-05	1.7e-05	
					Manganese compounds	3e-06	1.3e-05	1.3e-05	
					Mercury Compounds	2e-06	8.9e-06	8.9e-06	
					Methane	0.02	0.08	0.08	
					Methanol	0.13	2.86	0.57	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.05	1.04	0.21	
					Naphthalene	4.8e-06	2.1e-05	2.1e-05	
					Nickel compounds	1.6e-05	7.2e-05	7.2e-05	
					Nitrogen Oxides	0.78	3.44	3.44	
					Nitrous Oxide	0.0018	0.0077	0.0077	
					Particulate Matter	0.06	0.26	0.26	
					PM < 2.5 micron	0.06	0.26	0.26	
					PM < 10 micron	0.06	0.26	0.26	
					Polycyclic organic matter	6.9e-07	3e-06	3e-06	
					Selenium compounds	1.9e-07	8.2e-07	8.2e-07	
					Sulfur Dioxide	0.0047	0.02	0.02	
					Toluene	10.31	225.84	45.17	
					Volatile Organic Compounds	131.79	2,885.43	577.24	
					Xylenes, Total	0.14	3.05	0.61	
		EQUI 16	EU039	6L Precoating 1 Oven	1,3-Dichloropropene	5.9e-06	0.00051	2.6e-05	
					1,4-Dichlorobenzene (para-)	3.2e-06	1.4e-05	1.4e-05	
					Acrylic acid	0.02	1.61	0.08	
					Acrylonitrile	0.0032	0.28	0.01	
					Arsenic compounds	5.4e-07	2.4e-06	2.4e-06	
					Benzene	0.0084	0.74	0.04	
					Beryllium Compounds	3.2e-08	1.4e-07	1.4e-07	
					Bromoform	6.9e-05	0.0061	0.0003	
					Cadmium compounds	3e-06	1.3e-05	1.3e-05	
					Carbon Dioxide	321.6	1,408.59	1,408.59	
					Carbon Dioxide Equivalent	321.93	1,410.05	1,410.05	
					Carbon Monoxide	0.23	0.99	0.99	
					Chlorobenzene (Monochlorobenzene)	0.11	9.29	0.46	
					Chromium compounds	3.8e-06	1.7e-05	1.7e-05	
					Cobalt compounds	2.3e-07	9.9e-07	9.9e-07	
					Cumene (Isopropylbenzene)	0.00016	0.01	0.0007	
					Dichloromethane (Methylene chloride)	7e-06	0.00062	3.1e-05	
					Ethyl acrylate	0.0016	0.14	0.0072	
					Ethylbenzene	0.07	6.21	0.31	
					Formaldehyde	0.0002	0.00094	0.00089	
					HAPs - Total	21.86	1,914.8	95.76	
					Hexane	0.0049	0.02	0.02	
					Hydroquinone	0.0029	0.25	0.01	
					Lead Compounds	1.3e-06	5.9e-06	5.9e-06	
					Manganese compounds	1e-06	4.5e-06	4.5e-06	
					Mercury Compounds	7e-07	3.1e-06	3.1e-06	
					Methane	0.0061	0.03	0.03	
					Methanol	0.0008	0.07	0.0035	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.07	5.92	0.3	
					Methyl methacrylate	0.02	1.54	0.08	
					Naphthalene	3e-06	0.00012	1.3e-05	
					Nickel compounds	5.7e-06	2.5e-05	2.5e-05	
					Nitrogen Oxides	0.27	1.18	1.18	
					Nitrous Oxide	0.00061	0.0027	0.0027	
					Particulate Matter	0.02	0.09	0.09	
					PM < 2.5 micron	0.02	0.09	0.09	
					PM < 10 micron	0.02	0.09	0.09	
					Polycyclic organic matter	2.4e-07	1e-06	1e-06	
					Selenium compounds	6.5e-08	2.8e-07	2.8e-07	
					Styrene	0.02	1.52	0.08	
					Sulfur Dioxide	0.0016	0.0071	0.0071	
					Toluene	20.72	1,815.02	90.75	
					Vinyl acetate (Acetic acid)	4.3e-05	0.0038	0.00019	
					Vinyl chloride (chloroethene)	2.5e-10	2.2e-08	1.1e-09	
					Volatile Organic Compounds	34.82	3,048.66	152.49	
					Xylenes, Total	0.82	72.16	3.61	
		EQUI 21	EU102	22 Oven	Benzene	0.05	0.22	0.22	
					Cumene (Isopropylbenzene)	2.7e-05	0.00012	0.00012	
					Ethyl acrylate	3.2e-06	1.4e-05	1.4e-05	
					Ethylbenzene	0.08	0.35	0.35	
					Ethylene glycol	0.51	2.22	2.22	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 21	EU102	22 Oven	HAPs - Total	38.99	170.76	170.76	
					Methanol	0.0011	0.0046	0.0046	
					Methylene diphenyl diisocyanate (MDI)	0.71	3.11	3.11	
					Naphthalene	2.6e-06	1.2e-05	1.2e-05	
					Phosphorus	3.8e-05	0.00016	0.00016	
					Styrene	2.5e-05	0.00011	0.00011	
					Toluene	37.33	163.53	163.53	
					Toluene-2,4-diisocyanate	0.0048	0.02	0.02	
					Volatile Organic Compounds	110.56	484.26	484.26	
					Xylenes, Total	0.3	1.31	1.31	
		EQUI 26	EU041	6L Precoating 2 Oven	1,3-Dichloropropene	7e-06	0.00061	3.1e-05	
					1,4-Dichlorobenzene (para-)	3.2e-06	1.4e-05	1.4e-05	
					Acrylic acid	0.02	1.93	0.1	
					Acrylonitrile	0.0039	0.34	0.02	
					Arsenic compounds	5.4e-07	2.4e-06	2.4e-06	
					Benzene	0.01	0.88	0.04	
					Beryllium Compounds	3.2e-08	1.4e-07	1.4e-07	
					Bromoform	8.3e-05	0.0073	0.00036	
					Cadmium compounds	3e-06	1.3e-05	1.3e-05	
					Carbon Dioxide	321.6	1,408.59	1,408.59	
					Carbon Dioxide Equivalent	321.93	1,410.05	1,410.05	
					Carbon Monoxide	0.23	0.99	0.99	
					Chlorobenzene (Monochlorobenzene)	0.13	11.11	0.56	
					Chromium compounds	3.8e-06	1.7e-05	1.7e-05	
					Cobalt compounds	2.3e-07	9.9e-07	9.9e-07	
					Cumene (Isopropylbenzene)	0.00019	0.02	0.00084	
					Dichloromethane (Methylene chloride)	8.4e-06	0.00074	3.7e-05	
					Ethyl acrylate	0.002	0.17	0.0086	
					Ethylbenzene	0.08	7.43	0.37	
					Formaldehyde	0.0002	0.00095	0.00089	
					HAPs - Total	26.15	2,290.54	114.55	
					Hexane	0.0049	0.02	0.02	
					Hydroquinone	0.0035	0.3	0.02	
					Lead Compounds	1.3e-06	5.9e-06	5.9e-06	
					Manganese compounds	1e-06	4.5e-06	4.5e-06	
					Mercury Compounds	7e-07	3.1e-06	3.1e-06	
					Methane	0.0061	0.03	0.03	
					Methanol	0.00095	0.08	0.0042	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.08	7.08	0.35	
					Methyl methacrylate	0.02	1.84	0.09	
					Naphthalene	3.2e-06	0.00015	1.4e-05	
					Nickel compounds	5.7e-06	2.5e-05	2.5e-05	
					Nitrogen Oxides	0.27	1.18	1.18	
					Nitrous Oxide	0.00061	0.0027	0.0027	
					Particulate Matter	0.02	0.09	0.09	
					PM < 2.5 micron	0.02	0.09	0.09	
					PM < 10 micron	0.02	0.09	0.09	
					Polycyclic organic matter	2.4e-07	1e-06	1e-06	
					Selenium compounds	6.5e-08	2.8e-07	2.8e-07	
					Styrene	0.02	1.82	0.09	
					Sulfur Dioxide	0.0016	0.0071	0.0071	
					Toluene	24.79	2,171.19	108.56	
					Vinyl acetate (Acetic acid)	5.2e-05	0.0045	0.00023	
					Vinyl chloride (chloroethene)	3e-10	2.6e-08	1.3e-09	
					Volatile Organic Compounds	41.65	3,646.9	182.41	
					Xylenes, Total	0.99	86.32	4.32	
		EQUI 97	EU351	7L Precoating Station/Oven 1	1,1-Dichloroethylene (Vinylidene chloride)	0.00016	0.00068	0.00068	
					1,4-Dichlorobenzene (para-)	3.2e-06	1.4e-05	1.4e-05	
					Acrylic acid	0.0033	0.01	0.01	
					Acrylonitrile	0.00045	0.002	0.002	
					Arsenic compounds	5.4e-07	2.4e-06	2.4e-06	
					Benzene	5.7e-06	2.5e-05	2.5e-05	
					Beryllium Compounds	3.2e-08	1.4e-07	1.4e-07	
					Bromoform	9.3e-06	4.1e-05	4.1e-05	
					Cadmium compounds	3e-06	1.3e-05	1.3e-05	
					Carbon Dioxide	321.6	1,408.59	1,408.59	
					Carbon Dioxide Equivalent	321.93	1,410.05	1,410.05	
					Carbon Monoxide	0.23	0.99	0.99	
					Chromium compounds	3.8e-06	1.7e-05	1.7e-05	
					Cobalt compounds	2.3e-07	9.9e-07	9.9e-07	
					Diethanaolamine	9.4e-05	0.00041	0.00041	
					Ethyl acrylate	0.0019	0.0083	0.0083	
					Formaldehyde	0.0002	0.00089	0.00089	
					HAPs - Total	0.02	0.11	0.11	
					Hexane	0.0049	0.02	0.02	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 97	EU351	7L Precoating Station/Oven 1	Hydroquinone	0.00039	0.0017	0.0017	
					Lead Compounds	1.36e-06	5.9e-06	5.9e-06	
					Manganese compounds	1e-06	4.5e-06	4.5e-06	
					Mercury Compounds	7e-07	3.1e-06	3.1e-06	
					Methane	0.0061	0.03	0.03	
					Methyl methacrylate	0.0029	0.01	0.01	
					Naphthalene	1.6e-06	7.2e-06	7.2e-06	
					Nickel compounds	5.7e-06	2.5e-05	2.5e-05	
					Nitrogen Oxides	0.27	1.18	1.18	
					Nitrous Oxide	0.00061	0.0027	0.0027	
					Particulate Matter	0.02	0.09	0.09	
					PM < 2.5 micron	0.02	0.09	0.09	
					PM < 10 micron	0.02	0.09	0.09	
					Polycyclic organic matter	2.4e-07	1e-06	1e-06	
					Selenium compounds	6.5e-08	2.8e-07	2.8e-07	
					Styrene	0.0029	0.01	0.01	
					Sulfur Dioxide	0.0016	0.0071	0.0071	
					Toluene	0.007	0.03	0.03	
					Volatile Organic Compounds	0.15	0.65	0.65	
		EQUI 98	EU352	7L Precoating Station/Oven 3	1,1-Dichloroethylene (Vinylidene chloride)	0.0045	0.02	0.02	
					1,4-Dichlorobenzene (para-)	3.2e-06	1.4e-05	1.4e-05	
					Acrylic acid	0.1	0.42	0.42	
					Acrylonitrile	0.01	0.06	0.06	
					Arsenic compounds	5.4e-07	2.4e-06	2.4e-06	
					Benzene	5.7e-06	2.5e-05	2.5e-05	
					Beryllium Compounds	3.2e-08	1.4e-07	1.4e-07	
					Bromoform	0.00027	0.0012	0.0012	
					Cadmium compounds	3e-06	1.3e-05	1.3e-05	
					Carbon Dioxide	321.6	1,408.59	1,408.59	
					Carbon Dioxide Equivalent	321.93	1,410.05	1,410.05	
					Carbon Monoxide	0.23	0.99	0.99	
					Chromium compounds	3.8e-06	1.7e-05	1.7e-05	
					Cobalt compounds	2.3e-07	9.9e-07	9.9e-07	
					Diethanaolamine	0.0027	0.01	0.01	
					Ethyl acrylate	0.06	0.24	0.24	
					Formaldehyde	0.0002	0.00089	0.00089	
					HAPs - Total	0.56	2.47	2.47	
					Hexane	0.0049	0.02	0.02	
					Hydroquinone	0.01	0.05	0.05	
					Lead Compounds	1.3e-06	5.9e-06	5.9e-06	
					Manganese compounds	1e-06	4.5e-06	4.5e-06	
					Mercury Compounds	7e-07	3.1e-06	3.1e-06	
					Methane	0.0061	0.03	0.03	
					Methyl methacrylate	0.09	0.38	0.38	
					Naphthalene	1.6e-06	7.2e-06	7.2e-06	
					Nickel compounds	5.7e-06	2.5e-05	2.5e-05	
					Nitrogen Oxides	0.27	1.18	1.18	
					Nitrous Oxide	0.00061	0.0027	0.0027	
					Particulate Matter	0.02	0.09	0.09	
					PM < 2.5 micron	0.02	0.09	0.09	
					PM < 10 micron	0.02	0.09	0.09	
					Polycyclic organic matter	2.4e-07	1e-06	1e-06	
					Selenium compounds	6.5e-08	2.8e-07	2.8e-07	
					Styrene	0.09	0.37	0.37	
					Sulfur Dioxide	0.0016	0.0071	0.0071	
					Toluene	0.2	0.9	0.9	
					Volatile Organic Compounds	3.89	17.03	17.03	
		EQUI 99	EU353	7L Coating Station/Oven	1,1-Dichloroethylene (Vinylidene chloride)	0.02	0.09	0.09	
					1,4-Dichlorobenzene (para-)	2.5e-05	0.00011	0.00011	
					Acrylic acid	0.46	2.02	2.02	
					Acrylonitrile	0.06	0.27	0.27	
					Arsenic compounds	4.2e-06	1.8e-05	1.8e-05	
					Benzene	4.4e-05	0.00019	0.00019	
					Beryllium Compounds	2.5e-07	1.1e-06	1.1e-06	
					Bromoform	0.0013	0.0056	0.0056	
					Cadmium compounds	2.3e-05	0.0001	0.0001	
					Carbon Dioxide	2,496.76	10,935.81	10,935.81	
					Carbon Dioxide Equivalent	2,499.34	10,947.1	10,947.1	
					Carbon Monoxide	1.76	7.7	7.7	
					Chromium compounds	2.9e-05	0.00013	0.00013	
					Cobalt compounds	1.8e-06	7.7e-06	7.7e-06	
					Diethanaolamine	0.01	0.06	0.06	
					Ethyl acrylate	0.26	1.15	1.15	
					Formaldehyde	0.0016	0.0069	0.0069	
					HAPs - Total	2.7	11.82	11.82	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 99	EU353	7L Coating Station/Oven	Hexane	0.04	0.17	0.17	
					Hydroquinone	0.05	0.24	0.24	
					Lead Compounds	1e-05	4.6e-05	4.6e-05	
					Manganese compounds	8e-06	3.5e-05	3.5e-05	
					Mercury Compounds	5.4e-06	2.4e-05	2.4e-05	
					Methane	0.05	0.21	0.21	
					Methyl methacrylate	0.41	1.79	1.79	
					Naphthalene	1.3e-05	5.6e-05	5.6e-05	
					Nickel compounds	4.4e-05	0.00019	0.00019	
					Nitrogen Oxides	2.09	9.17	9.17	
					Nitrous Oxide	0.0047	0.02	0.02	
					Particulate Matter	0.16	0.7	0.7	
					PM < 2.5 micron	0.16	0.7	0.7	
					PM < 10 micron	0.16	0.7	0.7	
					Polycyclic organic matter	1.8e-06	8.1e-06	8.1e-06	
					Selenium compounds	5e-07	2.2e-06	2.2e-06	
					Styrene	0.41	1.79	1.79	
					Sulfur Dioxide	0.01	0.06	0.06	
					Toluene	0.97	4.25	4.25	
					Volatile Organic Compounds	18.53	81.16	81.16	
		EQUI 102	EU371	Enterprise Oven 1	1,4-Dioxane (p-Dioxane)	3.8e-08	4.1e-06	1.7e-07	
					2-Methylaziridine	4.2e-08	4.6e-06	1.9e-07	
					Acetaldehyde	4.7e-07	5.1e-05	2.1e-06	
					Acrylamide	2.5e-05	0.0027	0.00011	
					Acrylic acid	0.02	1.85	0.07	
					Benzene	0.0031	0.34	0.01	
					Chlorine	3.6e-06	0.00039	1.6e-05	
					Cumene (Isopropylbenzene)	1.9e-05	0.0021	8.5e-05	
					Ethyl acrylate	0.03	2.91	0.12	
					Ethylbenzene	0.0025	0.27	0.01	
					Ethylene oxide	3.8e-08	4.1e-06	1.7e-07	
					Formaldehyde	0.0041	0.44	0.02	
					HAPs - Total	5.91	646.9	25.88	
					Hydrochloric acid	4.8e-09	5.2e-07	2.1e-08	
					Hydroquinone	9.8e-06	0.0011	4.3e-05	
					Lead Compounds	3.2e-06	1.4e-05	1.4e-05	
					Methanol	1.6	175.36	7.01	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0014	0.16	0.0062	
					Methyl methacrylate	0.0001	0.01	0.00044	
					Naphthalene	3.3e-05	0.0036	0.00015	
					Toluene	4.17	456.94	18.28	
					Triethylamine	0.04	4.56	0.18	
					Volatile Organic Compounds	21.91	2,399.36	95.97	
					Xylenes, Total	0.0039	0.43	0.02	
		EQUI 103	EU372	Enterprise Oven 2	1,4-Dichlorobenzene (para-)	7.8e-06	3.4e-05	3.4e-05	
					1,4-Dioxane (p-Dioxane)	3.8e-08	4.1e-06	1.7e-07	
					2-Methylaziridine	4.2e-08	4.6e-06	1.9e-07	
					Acetaldehyde	4.7e-07	5.1e-05	2.1e-06	
					Acrylamide	2.5e-05	0.0027	0.00011	
					Acrylic acid	0.02	1.85	0.07	
					Arsenic compounds	1.3e-06	5.7e-06	5.7e-06	
					Benzene	0.0032	0.34	0.01	
					Beryllium Compounds	7.8e-08	3.4e-07	3.4e-07	
					Cadmium compounds	7.1e-06	3.1e-05	3.1e-05	
					Carbon Dioxide	771.83	3,380.62	3,380.62	
					Carbon Dioxide Equivalent	772.63	3,384.12	3,384.12	
					Carbon Monoxide	0.54	2.38	2.38	
					Chlorine	3.6e-06	0.00039	1.6e-05	
					Chromium compounds	9.1e-06	4e-05	4e-05	
					Cobalt compounds	5.4e-07	2.4e-06	2.4e-06	
					Cumene (Isopropylbenzene)	1.9e-05	0.0021	8.5e-05	
					Ethyl acrylate	0.03	2.91	0.12	
					Ethylbenzene	0.0025	0.27	0.01	
					Ethylene oxide	3.8e-08	4.1e-06	1.7e-07	
					Formaldehyde	0.0045	0.45	0.02	
					HAPs - Total	5.89	643.34	25.78	
					Hexane	0.01	0.05	0.05	
					Hydrochloric acid	4.8e-09	5.2e-07	2.1e-08	
					Hydroquinone	9.8e-06	0.0011	4.3e-05	
					Manganese compounds	2.5e-06	1.1e-05	1.1e-05	
					Mercury Compounds	1.7e-06	7.4e-06	7.4e-06	
					Methane	0.01	0.06	0.06	
					Methanol	1.6	175.36	7.01	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0014	0.16	0.0062	
					Methyl methacrylate	0.0001	0.01	0.00044	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 103	EU372	Enterprise Oven 2	Naphthalene	3.7e-05	0.0037	0.00016	
					Nickel compounds	1.4e-05	6e-05	6e-05	
					Nitrogen Oxides	0.65	2.83	2.83	
					Nitrous Oxide	0.0015	0.0064	0.0064	
					Particulate Matter	0.05	0.22	0.22	
					PM < 2.5 micron	0.05	0.22	0.22	
					PM < 10 micron	0.05	0.22	0.22	
					Polycyclic organic matter	5.7e-07	2.5e-06	2.5e-06	
					Selenium compounds	1.6e-07	6.8e-07	6.8e-07	
					Sulfur Dioxide	0.0039	0.02	0.02	
					Toluene	4.17	456.94	18.28	
					Triethylamine	0.04	4.56	0.18	
					Volatile Organic Compounds	21.95	2,399.52	96.13	
					Xylenes, Total	0.0039	0.43	0.02	
		EQUI 131	EU356	3L Oven 1	1,3-Dichloropropene	5.2e-09	4.6e-07	2.3e-08	
					1,4-Dichlorobenzene (para-)	4.5e-06	2e-05	2e-05	
					1,4-Dioxane (p-Dioxane)	1.3e-08	1.1e-06	5.6e-08	
					3,3-Dichlorobenzidine	1.6e-08	1.4e-06	7.2e-08	
					Acetaldehyde	9.2e-07	8e-05	4e-06	
					Acrylic acid	0.0049	0.43	0.02	
					Acrylonitrile	5.5e-07	4.9e-05	2.4e-06	
					Arsenic compounds	7.5e-07	3.3e-06	3.3e-06	
					Benzene	0.0097	0.85	0.04	
					Beryllium Compounds	4.5e-08	2e-07	2e-07	
					Bromoform	1.1e-09	9.9e-08	4.9e-09	
					Cadmium compounds	4.2e-06	1.8e-05	1.8e-05	
					Carbon Dioxide	450.24	1,972.03	1,972.03	
					Carbon Dioxide Equivalent	450.7	1,974.07	1,974.07	
					Carbon Monoxide	0.32	1.39	1.39	
					Chlorobenzene (Monochlorobenzene)	0.01	1.02	0.05	
					Chromium compounds	5.3e-06	2.3e-05	2.3e-05	
					Cobalt compounds	3.2e-07	1.4e-06	1.4e-06	
					Cresols/Cresylic acid (isomers and mixture)	5.6e-05	0.0049	0.00025	
					Cumene (Isopropylbenzene)	0.00077	0.07	0.0034	
					Dichloromethane (Methylene chloride)	5.2e-09	4.6e-07	2.3e-08	
					Ethyl acrylate	0.00015	0.01	0.00065	
					Ethylbenzene	0.11	9.57	0.48	
					Ethylene glycol	0.00072	0.06	0.0032	
					Ethylene oxide	8.6e-10	7.5e-08	3.8e-09	
					Formaldehyde	0.0003	0.0023	0.0013	
					HAPs - Total	12.11	1,060.4	53.05	
					Hexachlorobenzene	6.3e-09	5.5e-07	2.8e-08	
					Hexane	0.0068	0.03	0.03	
					Hydroquinone	0.00051	0.04	0.0022	
					Lead Compounds	1.9e-06	8.3e-06	8.3e-06	
					Maleic anhydride	6e-06	0.00053	2.6e-05	
					Manganese compounds	1.4e-06	6.3e-06	6.3e-06	
					Mercury Compounds	9.8e-07	4.3e-06	4.3e-06	
					Methane	0.0085	0.04	0.04	
					Methanol	0.0075	0.66	0.03	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.01	1.1	0.05	
					Methyl methacrylate	6.9e-05	0.0061	0.0003	
					Naphthalene	5.1e-06	0.00026	2.2e-05	
					Nickel compounds	7.9e-06	3.5e-05	3.5e-05	
					Nitrogen Oxides	0.38	1.65	1.65	
					Nitrous Oxide	0.00085	0.0037	0.0037	
					Particulate Matter	0.03	0.13	0.13	
					Phenol	0.00018	0.02	0.00077	
					PM < 2.5 micron	0.03	0.13	0.13	
					PM < 10 micron	0.03	0.13	0.13	
					Polycyclic organic matter	3.3e-07	1.5e-06	1.5e-06	
					Selenium compounds	9.1e-08	4e-07	4e-07	
					Styrene	1.1e-05	0.00093	4.7e-05	
					Sulfur Dioxide	0.0023	0.0099	0.0099	
					Toluene	11.59	1,015.08	50.75	
					Vinyl acetate (Acetic acid)	0.0003	0.03	0.0013	
					Volatile Organic Compounds	19.01	1,663.63	83.27	
					Xylenes, Total	0.36	31.42	1.57	
		EQUI 133	EU358	3L Oven 2	1,3-Dichloropropene	3e-09	2.6e-07	1.3e-08	
					1,4-Dichlorobenzene (para-)	1.9e-06	8.5e-06	8.5e-06	
					1,4-Dioxane (p-Dioxane)	7.4e-09	6.5e-07	3.2e-08	
					3,3-Dichlorobenzidine	9.5e-09	8.3e-07	4.1e-08	
					Acetaldehyde	5.3e-07	4.6e-05	2.3e-06	
					Acrylic acid	0.0029	0.25	0.01	
					Acrylonitrile	3.2e-07	2.8e-05	1.4e-06	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 133	EU358	3L Oven 2	Arsenic compounds	3.2e-07	1.4e-06	1.4e-06	
					Benzene	0.0056	0.49	0.02	
					Beryllium Compounds	1.9e-08	8.5e-08	8.5e-08	
					Bromoform	6.5e-10	5.7e-08	2.9e-09	
					Cadmium compounds	1.8e-06	7.8e-06	7.8e-06	
					Carbon Dioxide	192.96	845.16	845.16	
					Carbon Dioxide Equivalent	193.16	846.03	846.03	
					Carbon Monoxide	0.14	0.6	0.6	
					Chlorobenzene (Monochlorobenzene)	0.0067	0.59	0.03	
					Chromium compounds	2.3e-06	9.9e-06	9.9e-06	
					Cobalt compounds	1.4e-07	6e-07	6e-07	
					Cresols/Cresylic acid (isomers and mixture)	3.2e-05	0.0028	0.00014	
					Cumene (Isopropylbenzene)	0.00045	0.04	0.002	
					Dichloromethane (Methylene chloride)	3e-09	2.6e-07	1.3e-08	
					Ethyl acrylate	8.6e-05	0.0076	0.00038	
					Ethylbenzene	0.06	5.53	0.28	
					Ethylene glycol	0.00042	0.04	0.0018	
					Ethylene oxide	5e-10	4.4e-08	2.2e-09	
					Formaldehyde	0.00013	0.0012	0.00056	
					HAPs - Total	7	612.7	30.65	
					Hexachlorobenzene	3.6e-09	3.2e-07	1.6e-08	
					Hexane	0.0029	0.01	0.01	
					Hydroquinone	0.00029	0.03	0.0013	
					Lead Compounds	8.1e-07	3.5e-06	3.5e-06	
					Maleic anhydride	3.5e-06	0.0003	1.5e-05	
					Manganese compounds	6.1e-07	2.7e-06	2.7e-06	
					Mercury Compounds	4.2e-07	1.8e-06	1.8e-06	
					Methane	0.0036	0.02	0.02	
					Methanol	0.0043	0.38	0.02	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0073	0.64	0.03	
					Methyl methacrylate	4e-05	0.0035	0.00018	
					Naphthalene	2.6e-06	0.00015	1.1e-05	
					Nickel compounds	3.4e-06	1.5e-05	1.5e-05	
					Nitrogen Oxides	0.16	0.71	0.71	
					Nitrous Oxide	0.00036	0.0016	0.0016	
					Particulate Matter	0.01	0.05	0.05	
					Phenol	0.0001	0.0089	0.00044	
					PM < 2.5 micron	0.01	0.05	0.05	
					PM < 10 micron	0.01	0.05	0.05	
					Polycyclic organic matter	1.4e-07	6.2e-07	6.2e-07	
					Selenium compounds	3.9e-08	1.7e-07	1.7e-07	
					Styrene	6.1e-06	0.00054	2.7e-05	
					Sulfur Dioxide	0.00097	0.0043	0.0043	
					Toluene	6.7	586.52	29.33	
					Vinyl acetate (Acetic acid)	0.00017	0.02	0.00075	
					Volatile Organic Compounds	10.98	961.24	48.1	
					Xylenes, Total	0.21	18.15	0.91	
		EQUI 135	EU360	3L Oven 3	1,3-Dichloropropene	5.2e-09	4.6e-07	2.3e-08	
					1,4-Dichlorobenzene (para-)	4.5e-06	2e-05	2e-05	
					1,4-Dioxane (p-Dioxane)	1.3e-08	1.1e-06	5.6e-08	
					3,3-Dichlorobenzidine	1.6e-08	1.4e-06	7.2e-08	
					Acetaldehyde	9.2e-07	8e-05	4e-06	
					Acrylic acid	0.0049	0.43	0.02	
					Acrylonitrile	5.5e-07	4.9e-05	2.4e-06	
					Arsenic compounds	7.5e-07	3.3e-06	3.3e-06	
					Benzene	0.0097	0.85	0.04	
					Beryllium Compounds	4.5e-08	2e-07	2e-07	
					Bromoform	1.1e-09	9.9e-08	4.9e-09	
					Cadmium compounds	4.2e-06	1.8e-05	1.8e-05	
					Carbon Dioxide	450.24	1,972.03	1,972.03	
					Carbon Dioxide Equivalent	450.7	1,974.07	1,974.07	
					Carbon Monoxide	0.32	1.39	1.39	
					Chlorobenzene (Monochlorobenzene)	0.01	1.02	0.05	
					Chromium compounds	5.3e-06	2.3e-05	2.3e-05	
					Cobalt compounds	3.2e-07	1.4e-06	1.4e-06	
					Cresols/Cresylic acid (isomers and mixture)	5.6e-05	0.0049	0.00025	
					Cumene (Isopropylbenzene)	0.00077	0.07	0.0034	
					Dichloromethane (Methylene chloride)	5.2e-09	4.6e-07	2.3e-08	
					Ethyl acrylate	0.00015	0.01	0.00065	
					Ethylbenzene	0.11	9.57	0.48	
					Ethylene glycol	0.00072	0.06	0.0032	
					Ethylene oxide	8.6e-10	7.5e-08	3.8e-09	
					Formaldehyde	0.0003	0.0023	0.0013	
					HAPs - Total	12.11	1,060.4	53.05	
					Hexachlorobenzene	6.3e-09	5.5e-07	2.8e-08	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 135	EU360	3L Oven 3	Hexane	0.0068	0.03	0.03	
					Hydroquinone	0.00051	0.04	0.0022	
					Lead Compounds	1.9e-06	8.3e-06	8.3e-06	
					Maleic anhydride	6e-06	0.00053	2.6e-05	
					Manganese compounds	1.4e-06	6.3e-06	6.3e-06	
					Mercury Compounds	9.8e-07	4.3e-06	4.3e-06	
					Methane	0.0085	0.04	0.04	
					Methanol	0.0075	0.66	0.03	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.01	1.1	0.05	
					Methyl methacrylate	6.9e-05	0.0061	0.0003	
					Naphthalene	5.1e-06	0.00026	2.2e-05	
					Nickel compounds	7.9e-06	3.5e-05	3.5e-05	
					Nitrogen Oxides	0.38	1.65	1.65	
					Nitrous Oxide	0.00085	0.0037	0.0037	
					Particulate Matter	0.03	0.13	0.13	
					Phenol	0.00018	0.02	0.00077	
					PM < 2.5 micron	0.03	0.13	0.13	
					PM < 10 micron	0.03	0.13	0.13	
					Polycyclic organic matter	3.3e-07	1.5e-06	1.5e-06	
					Selenium compounds	9.1e-08	4e-07	4e-07	
					Styrene	1.1e-05	0.00093	4.7e-05	
					Sulfur Dioxide	0.0023	0.0099	0.0099	
					Toluene	11.59	1,015.08	50.75	
					Vinyl acetate (Acetic acid)	0.0003	0.03	0.0013	
					Volatile Organic Compounds	19.01	1,663.63	83.27	
		EQUI 137	EU362	3L Oven 4	Xylenes, Total	0.36	31.42	1.57	
					1,3-Dichloropropene	3e-09	2.6e-07	1.3e-08	
					1,4-Dichlorobenzene (para-)	1.9e-06	8.5e-06	8.5e-06	
					1,4-Dioxane (p-Dioxane)	7.4e-09	6.5e-07	3.2e-08	
					3,3-Dichlorobenzidine	9.5e-09	8.3e-07	4.1e-08	
					Acetaldehyde	5.3e-07	4.6e-05	2.3e-06	
					Acrylic acid	0.0029	0.25	0.01	
					Acrylonitrile	3.2e-07	2.8e-05	1.4e-06	
					Arsenic compounds	3.2e-07	1.4e-06	1.4e-06	
					Benzene	0.0056	0.49	0.02	
					Beryllium Compounds	1.9e-08	8.5e-08	8.5e-08	
					Bromoform	6.5e-10	5.7e-08	2.9e-09	
					Cadmium compounds	1.8e-06	7.8e-06	7.8e-06	
					Carbon Dioxide	192.96	845.16	845.16	
					Carbon Dioxide Equivalent	193.16	846.03	846.03	
					Carbon Monoxide	0.01	0.05	0.05	
					Chlorobenzene (Monochlorobenzene)	0.0067	0.59	0.03	
					Chromium compounds	2.3e-06	9.9e-06	9.9e-06	
					Cobalt compounds	1.4e-07	6e-07	6e-07	
					Cresols/Cresylic acid (isomers and mixture)	3.2e-05	0.0028	0.00014	
					Cumene (Isopropylbenzene)	0.00045	0.04	0.002	
					Dichloromethane (Methylene chloride)	3e-09	2.6e-07	1.3e-08	
					Ethyl acrylate	8.6e-05	0.0076	0.00038	
					Ethylbenzene	0.06	5.53	0.28	
					Ethylene glycol	0.00042	0.04	0.0018	
					Ethylene oxide	5.1e-10	4.4e-08	2.2e-09	
					Formaldehyde	0.00013	0.0012	0.00056	
					HAPs - Total	7	612.7	30.65	
					Hexachlorobenzene	3.6e-09	3.2e-07	1.6e-08	
					Hexane	0.0029	0.01	0.01	
					Hydroquinone	0.00029	0.03	0.0013	
					Lead Compounds	8.1e-07	3.5e-06	3.5e-06	
					Maleic anhydride	3.5e-06	0.0003	1.5e-05	
					Manganese compounds	6.1e-07	2.7e-06	2.7e-06	
					Mercury Compounds	4.2e-07	1.8e-06	1.8e-06	
					Methane	0.0036	0.02	0.02	
					Methanol	0.0043	0.38	0.02	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0073	0.64	0.03	
					Methyl methacrylate	4e-05	0.0035	0.00018	
					Naphthalene	2.6e-06	0.00015	1.1e-05	
					Nickel compounds	3.4e-06	1.5e-05	1.5e-05	
					Nitrogen Oxides	0.16	0.71	0.71	
					Nitrous Oxide	0.00036	0.0016	0.0016	
					Particulate Matter	0.0118	0.052	0.052	
					Phenol	0.0001	0.0089	0.00044	
					PM < 2.5 micron	0.01	0.05	0.05	
					PM < 10 micron	0.01	0.05	0.05	
					Polycyclic organic matter	1.4e-07	6.2e-07	6.2e-07	
					Selenium compounds	3.9e-08	1.7e-07	1.7e-07	
					Styrene	6.1e-06	0.00054	2.7e-05	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 137	EU362	3L Oven 4	Sulfur Dioxide	0.000974	0.0043	0.0043	
					Toluene	6.7	586.52	29.33	
					Vinyl acetate (Acetic acid)	0.00017	0.02	0.00075	
					Volatile Organic Compounds	10.98	961.24	48.1	
					Xylenes, Total	0.21	18.15	0.91	
		EQUI 139	EU364	3L Oven 5	1,3-Dichloropropene	3e-09	2.6e-07	1.3e-08	
					1,4-Dichlorobenzene (para-)	1.9e-06	8.5e-06	8.5e-06	
					1,4-Dioxane (p-Dioxane)	7.4e-09	6.5e-07	3.2e-08	
					3,3-Dichlorobenzidine	9.5e-09	8.3e-07	4.1e-08	
					Acetaldehyde	5.3e-07	4.6e-05	2.3e-06	
					Acrylic acid	0.0029	0.25	0.01	
					Acrylonitrile	3.2e-07	2.8e-05	1.4e-06	
					Arsenic compounds	3.2e-07	1.4e-06	1.4e-06	
					Benzene	0.0056	0.49	0.02	
					Beryllium Compounds	1.9e-08	8.5e-08	8.5e-08	
					Bromoform	6.5e-10	5.7e-08	2.9e-09	
					Cadmium compounds	1.8e-06	7.8e-06	7.8e-06	
					Carbon Dioxide	192.96	845.16	845.16	
					Carbon Dioxide Equivalent	193.16	846.03	846.03	
					Carbon Monoxide	0.14	0.6	0.6	
					Chlorobenzene (Monochlorobenzene)	0.0067	0.59	0.03	
					Chromium compounds	2.3e-06	9.9e-06	9.9e-06	
					Cobalt compounds	1.4e-07	6e-07	6e-07	
					Cresols/Cresylic acid (isomers and mixture)	3.2e-05	0.0028	0.00014	
					Cumene (Isopropylbenzene)	0.00045	0.04	0.002	
					Dichloromethane (Methylene chloride)	3e-09	2.6e-07	1.3e-08	
					Ethyl acrylate	8.6e-05	0.0076	0.00038	
					Ethylbenzene	0.06	5.53	0.28	
					Ethylene glycol	0.00042	0.04	0.0018	
					Ethylene oxide	5e-10	4.4e-08	2.2e-09	
					Formaldehyde	0.00013	0.0012	0.00056	
					HAPs - Total	7	612.7	30.65	
					Hexachlorobenzene	3.6e-09	3.2e-07	1.6e-08	
					Hexane	0.0029	0.01	0.01	
					Hydroquinone	0.00029	0.03	0.0013	
					Lead Compounds	8.1e-07	3.5e-06	3.5e-06	
					Maleic anhydride	3.5e-06	0.0003	1.5e-05	
					Manganese compounds	6.1e-07	2.7e-06	2.7e-06	
					Mercury Compounds	4.2e-07	1.8e-06	1.8e-06	
					Methane	0.0036	0.02	0.02	
					Methanol	0.0043	0.38	0.02	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0073	0.64	0.03	
					Methyl methacrylate	4e-05	0.0035	0.00018	
					Naphthalene	2.6e-06	0.00015	1.1e-05	
					Nickel compounds	3.4e-06	1.5e-05	1.5e-05	
					Nitrogen Oxides	0.16	0.71	0.71	
					Nitrous Oxide	0.00036	0.0016	0.0016	
					Particulate Matter	0.01	0.05	0.05	
					Phenol	0.0001	0.0089	0.00044	
					PM < 2.5 micron	0.01	0.05	0.05	
					PM < 10 micron	0.01	0.05	0.05	
					Polycyclic organic matter	1.4e-07	6.2e-07	6.2e-07	
					Selenium compounds	3.9e-08	1.7e-07	1.7e-07	
					Styrene	6.1e-06	0.00054	2.7e-05	
					Sulfur Dioxide	0.00097	0.0043	0.0043	
					Toluene	6.7	586.52	29.33	
					Vinyl acetate (Acetic acid)	0.00017	0.02	0.00075	
					Volatile Organic Compounds	10.98	961.24	48.1	
					Xylenes, Total	0.21	18.15	0.91	
		EQUI 141	EU366	3L Oven 6 Zone 1	1,3-Dichloropropene	6.9e-09	6.1e-07	3e-08	
					1,4-Dichlorobenzene (para-)	6.1e-06	2.7e-05	2.7e-05	
					1,4-Dioxane (p-Dioxane)	1.7e-08	1.5e-06	7.5e-08	
					3,3-Dichlorobenzidine	2.2e-08	1.9e-06	9.6e-08	
					Acetaldehyde	1.2e-06	0.00011	5.4e-06	
					Acrylic acid	0.0066	0.58	0.03	
					Acrylonitrile	7.4e-07	6.5e-05	3.2e-06	
					Arsenic compounds	1e-06	4.4e-06	4.4e-06	
					Benzene	0.01	1.13	0.06	
					Beryllium Compounds	6.1e-08	2.7e-07	2.7e-07	
					Bromoform	1.5e-09	1.3e-07	6.6e-09	
					Cadmium compounds	5.6e-06	2.4e-05	2.4e-05	
					Carbon Dioxide	605.19	2,650.72	2,650.72	
					Carbon Dioxide Equivalent	605.81	2,653.45	2,653.45	
					Carbon Monoxide	0.43	1.87	1.87	
					Chlorobenzene (Monochlorobenzene)	0.02	1.36	0.07	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 141	EU366	3L Oven 6 Zone 1	Chromium compounds	7.1e-06	3.1e-05	3.1e-05	
					Cobalt compounds	4.3e-07	1.9e-06	1.9e-06	
					Cresols/Cresylic acid (isomers and mixture)	7.5e-05	0.0066	0.00033	
					Cumene (Isopropylbenzene)	0.001	0.09	0.0045	
					Dichloromethane (Methylene chloride)	6.9e-09	6.1e-07	3e-08	
					Ethyl acrylate	0.0002	0.02	0.00087	
					Ethylbenzene	0.15	12.76	0.64	
					Ethylene glycol	0.00096	0.08	0.0042	
					Ethylene oxide	1.1e-09	1e-07	5e-09	
					Formaldehyde	0.0004	0.0031	0.0017	
					HAPs - Total	16.15	1,413.91	70.74	
					Hexachlorobenzene	8.4e-09	7.4e-07	3.7e-08	
					Hexane	0.0091	0.04	0.04	
					Hydroquinone	0.00068	0.06	0.003	
					Lead Compounds	2.5e-06	1.1e-05	1.1e-05	
					Maleic anhydride	8e-06	0.0007	3.5e-05	
					Manganese compounds	1.9e-06	8.4e-06	8.4e-06	
					Mercury Compounds	1.3e-06	5.8e-06	5.8e-06	
					Methane	0.01	0.05	0.05	
					Methanol	0.01	0.87	0.04	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.02	1.47	0.07	
					Methyl methacrylate	9.2e-05	0.0081	0.0004	
					Naphthalene	6.8e-06	0.00034	3e-05	
					Nickel compounds	1.1e-05	4.7e-05	4.7e-05	
					Nitrogen Oxides	0.51	2.22	2.22	
					Nitrous Oxide	0.0011	0.005	0.005	
					Particulate Matter	0.04	0.17	0.17	
					Phenol	0.00023	0.02	0.001	
					PM < 2.5 micron	0.04	0.17	0.17	
					PM < 10 micron	0.04	0.17	0.17	
					Polycyclic organic matter	4.5e-07	2e-06	2e-06	
					Selenium compounds	1.2e-07	5.3e-07	5.3e-07	
					Styrene	1.4e-05	0.0012	6.2e-05	
					Sulfur Dioxide	0.003	0.01	0.01	
					Toluene	15.45	1,353.49	67.67	
					Vinyl acetate (Acetic acid)	0.0004	0.03	0.0017	
					Volatile Organic Compounds	25.35	2,218.25	111.03	
					Xylenes, Total	0.48	41.89	2.09	
		EQUI 142	EU367	3L Oven 6 Zone 2	1,3-Dichloropropene	6.9e-09	6.1e-07	3e-08	
					1,4-Dichlorobenzene (para-)	6.1e-06	2.7e-05	2.7e-05	
					1,4-Dioxane (p-Dioxane)	1.7e-08	1.5e-06	7.5e-08	
					3,3-Dichlorobenzidine	2.2e-08	1.9e-06	9.6e-08	
					Acetaldehyde	1.2e-06	0.00011	5.4e-06	
					Acrylamide	6.9e-09	6.1e-07	3e-08	
					Acrylic acid	0.0066	0.58	0.03	
					Acrylonitrile	7.4e-07	6.5e-05	3.2e-06	
					Arsenic compounds	1e-06	4.4e-06	4.4e-06	
					Benzene	0.01	1.13	0.06	
					Beryllium Compounds	6.1e-08	2.7e-07	2.7e-07	
					Bromoform	1.5e-09	1.3e-07	6.6e-09	
					Cadmium compounds	5.6e-06	2.4e-05	2.4e-05	
					Carbon Dioxide	605.19	2,650.72	2,650.72	
					Carbon Dioxide Equivalent	605.81	2,653.45	2,653.45	
					Carbon Monoxide	0.43	1.87	1.87	
					Chlorobenzene (Monochlorobenzene)	0.02	1.36	0.07	
					Chromium compounds	7.1e-06	3.1e-05	3.1e-05	
					Cobalt compounds	4.3e-07	1.9e-06	1.9e-06	
					Cresols/Cresylic acid (isomers and mixture)	7.5e-05	0.0066	0.00033	
					Cumene (Isopropylbenzene)	0.001	0.09	0.0045	
					Dichloromethane (Methylene chloride)	6.9e-09	6.1e-07	3e-08	
					Ethyl acrylate	0.0002	0.02	0.00087	
					Ethylbenzene	0.15	12.76	0.64	
					Ethylene glycol	0.00096	0.08	0.0042	
					Ethylene oxide	1.1e-09	1e-07	5e-09	
					Formaldehyde	0.0004	0.0031	0.0017	
					HAPs - Total	16.15	1,413.91	70.74	
					Hexachlorobenzene	8.4e-09	7.4e-07	3.7e-08	
					Hexane	0.0091	0.04	0.04	
					Hydroquinone	0.00068	0.06	0.003	
					Lead Compounds	2.5e-06	1.1e-05	1.1e-05	
					Maleic anhydride	8e-06	0.0007	3.5e-05	
					Manganese compounds	1.9e-06	8.4e-06	8.4e-06	
					Mercury Compounds	1.3e-06	5.8e-06	5.8e-06	
					Methane	0.01	0.05	0.05	
					Methanol	0.01	0.87	0.04	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 142	EU367	3L Oven 6 Zone 2	Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.02	1.47	0.07	
					Methyl methacrylate	9.2e-05	0.0081	0.0004	
					Naphthalene	6.8e-06	0.00034	3e-05	
					Nickel compounds	1.1e-05	4.7e-05	4.7e-05	
					Nitrogen Oxides	0.51	2.22	2.22	
					Nitrous Oxide	0.0011	0.005	0.005	
					Particulate Matter	0.04	0.17	0.17	
					Phenol	0.00023	0.02	0.001	
					PM < 2.5 micron	0.04	0.17	0.17	
					PM < 10 micron	0.04	0.17	0.17	
					Polycyclic organic matter	4.5e-07	2e-06	2e-06	
					Selenium compounds	1.2e-07	5.3e-07	5.3e-07	
					Styrene	1.4e-05	0.0012	6.2e-05	
					Sulfur Dioxide	0.003	0.01	0.01	
					Toluene	15.45	1,353.49	67.67	
					Vinyl acetate (Acetic acid)	0.0004	0.03	0.0017	
					Volatile Organic Compounds	25.35	2,218.25	111.03	
					Xylenes, Total	0.48	41.89	2.09	
		EQUI 143	EU368	3L Oven 6 Zone 3	1,3-Dichloropropene	6.9e-09	6.1e-07	3e-08	
					1,4-Dichlorobenzene (para-)	6.1e-06	2.7e-05	2.7e-05	
					1,4-Dioxane (p-Dioxane)	1.7e-08	1.5e-06	7.5e-08	
					3,3-Dichlorobenzidine	2.2e-08	1.9e-06	9.6e-08	
					Acetaldehyde	1.2e-06	0.00011	5.4e-06	
					Acrylic acid	0.0066	0.58	0.03	
					Acrylonitrile	7.4e-07	6.5e-05	3.2e-06	
					Arsenic compounds	1e-06	4.4e-06	4.4e-06	
					Benzene	0.01	1.13	0.06	
					Beryllium Compounds	6.1e-08	2.7e-07	2.7e-07	
					Bromoform	1.5e-09	1.3e-07	6.6e-09	
					Cadmium compounds	5.6e-06	2.4e-05	2.4e-05	
					Carbon Dioxide	605.19	2,650.72	2,650.72	
					Carbon Dioxide Equivalent	605.81	2,653.45	2,653.45	
					Carbon Monoxide	0.43	1.87	1.87	
					Chlorobenzene (Monochlorobenzene)	0.02	1.36	0.07	
					Chromium compounds	7.1e-06	3.1e-05	3.1e-05	
					Cobalt compounds	4.3e-07	1.9e-06	1.9e-06	
					Cresols/Cresylic acid (isomers and mixture)	7.5e-05	0.0066	0.00033	
					Cumene (Isopropylbenzene)	0.001	0.09	0.0045	
					Dichloromethane (Methylene chloride)	6.9e-09	6.1e-07	3e-08	
					Ethyl acrylate	0.0002	0.02	0.00087	
					Ethylbenzene	0.15	12.76	0.64	
					Ethylene glycol	0.00096	0.08	0.0042	
					Ethylene oxide	1.1e-09	1e-07	5e-09	
					Formaldehyde	0.00038	0.0017	0.0017	
					HAPs - Total	16.15	1,413.91	70.74	
					Hexachlorobenzene	8.4e-09	7.4e-07	3.7e-08	
					Hexane	0.0091	0.04	0.04	
					Hydroquinone	0.00068	0.06	0.003	
					Lead Compounds	2.5e-06	1.1e-05	1.1e-05	
					Maleic anhydride	8e-06	0.0007	3.5e-05	
					Manganese compounds	1.9e-06	8.4e-06	8.4e-06	
					Mercury Compounds	1.3e-06	5.8e-06	5.8e-06	
					Methane	0.01	0.05	0.05	
					Methanol	0.01	0.87	0.04	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.02	1.47	0.07	
					Methyl methacrylate	9.2e-05	0.0081	0.0004	
					Naphthalene	6.8e-06	0.00034	3e-05	
					Nickel compounds	1.1e-05	4.7e-05	4.7e-05	
					Nitrogen Oxides	0.51	2.22	2.22	
					Nitrous Oxide	0.0011	0.005	0.005	
					Particulate Matter	0.04	0.17	0.17	
					Phenol	0.00023	0.02	0.001	
					PM < 2.5 micron	0.04	0.17	0.17	
					PM < 10 micron	0.04	0.17	0.17	
					Polycyclic organic matter	4.5e-07	2e-06	2e-06	
					Selenium compounds	1.2e-07	5.3e-07	5.3e-07	
					Styrene	1.4e-05	0.0012	6.2e-05	
					Sulfur Dioxide	0.003	0.01	0.01	
					Toluene	15.45	1,353.49	67.67	
					Vinyl acetate (Acetic acid)	0.0004	0.03	0.0017	
					Volatile Organic Compounds	25.35	2,218.25	111.03	
					Xylenes, Total	0.48	41.89	2.09	
		EQUI 158	EU415	8L Precoating 1 Oven	1,1-Dichloroethylene (Vinylidene chloride)	0.0011	0.0048	0.0048	
					1,4-Dichlorobenzene (para-)	2.3e-06	1e-05	1e-05	
					Acrylic acid	0.0066	0.03	0.03	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 158	EU415	8L Precoating 1 Oven	Acrylonitrile	0.00062	0.0027	0.0027	
					Arsenic compounds	3.8e-07	1.7e-06	1.7e-06	
					Benzene	4e-06	1.8e-05	1.8e-05	
					Beryllium Compounds	2.3e-08	1e-07	1e-07	
					Bromoform	1.9e-05	8.5e-05	8.5e-05	
					Cadmium compounds	2.1e-06	9.2e-06	9.2e-06	
					Carbon Dioxide	228.04	998.82	998.82	
					Carbon Dioxide Equivalent	228.28	999.85	999.85	
					Carbon Monoxide	0.16	0.7	0.7	
					Chloromethane	4.4e-06	1.9e-05	1.9e-05	
					Chromium compounds	2.7e-06	1.2e-05	1.2e-05	
					Cobalt compounds	1.6e-07	7e-07	7e-07	
					Formaldehyde	0.00014	0.00063	0.00063	
					HAPs - Total	0.08	0.34	0.34	
					Hexane	0.0034	0.02	0.02	
					Hydroquinone	0.00065	0.0028	0.0028	
					Lead Compounds	9.6e-07	4.2e-06	4.2e-06	
					Manganese compounds	7.3e-07	3.2e-06	3.2e-06	
					Mercury Compounds	5e-07	2.2e-06	2.2e-06	
					Methane	0.0043	0.02	0.02	
					Methanol	5.4e-07	2.3e-06	2.3e-06	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	3.8e-07	1.6e-06	1.6e-06	
					Methyl methacrylate	0.0049	0.02	0.02	
					Naphthalene	1.2e-06	5.1e-06	5.1e-06	
					Nickel compounds	4e-06	1.8e-05	1.8e-05	
					Nitrogen Oxides	0.19	0.84	0.84	
					Nitrous Oxide	0.00043	0.0019	0.0019	
					Particulate Matter	0.01	0.06	0.06	
					PM < 2.5 micron	0.01	0.06	0.06	
					PM < 10 micron	0.01	0.06	0.06	
					Polycyclic organic matter	1.7e-07	7.4e-07	7.4e-07	
					Selenium compounds	4.6e-08	2e-07	2e-07	
					Styrene	0.0049	0.02	0.02	
					Sulfur Dioxide	0.0011	0.005	0.005	
					Toluene	0.05	0.24	0.24	
					Triethylamine	5.4e-05	0.00023	0.00023	
					Volatile Organic Compounds	0.26	1.13	1.13	
		EQUI 160	EU417	8L Precoating 2 Oven	1,1-Dichloroethylene (Vinylidene chloride)	0.0085	0.04	0.04	
					1,4-Dichlorobenzene (para-)	2.3e-06	1e-05	1e-05	
					Acrylic acid	0.05	0.23	0.23	
					Acrylonitrile	0.0048	0.02	0.02	
					Arsenic compounds	3.8e-07	1.7e-06	1.7e-06	
					Benzene	4e-06	1.8e-05	1.8e-05	
					Beryllium Compounds	2.3e-08	1e-07	1e-07	
					Bromoform	0.00015	0.00066	0.00066	
					Cadmium compounds	2.1e-06	9.2e-06	9.2e-06	
					Carbon Dioxide	228.04	998.82	998.82	
					Carbon Dioxide Equivalent	228.28	999.85	999.85	
					Carbon Monoxide	0.16	0.7	0.7	
					Chloromethane	3.4e-05	0.00015	0.00015	
					Chromium compounds	2.7e-06	1.2e-05	1.2e-05	
					Cobalt compounds	1.6e-07	7e-07	7e-07	
					Formaldehyde	0.00014	0.00063	0.00063	
					HAPs - Total	0.57	2.5	2.5	
					Hexane	0.0034	0.02	0.02	
					Hydroquinone	0.005	0.02	0.02	
					Lead Compounds	9.6e-07	4.2e-06	4.2e-06	
					Manganese compounds	7.3e-07	3.2e-06	3.2e-06	
					Mercury Compounds	5e-07	2.2e-06	2.2e-06	
					Methane	0.0043	0.02	0.02	
					Methanol	4.2e-06	1.8e-05	1.8e-05	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	2.9e-06	1.3e-05	1.3e-05	
					Methyl methacrylate	0.04	0.17	0.17	
					Naphthalene	1.2e-06	5.1e-06	5.1e-06	
					Nickel compounds	4e-06	1.8e-05	1.8e-05	
					Nitrogen Oxides	0.19	0.84	0.84	
					Nitrous Oxide	0.00043	0.0019	0.0019	
					Particulate Matter	0.01	0.06	0.06	
					PM < 2.5 micron	0.01	0.06	0.06	
					PM < 10 micron	0.01	0.06	0.06	
					Polycyclic organic matter	1.7e-07	7.4e-07	7.4e-07	
					Selenium compounds	4.6e-08	2e-07	2e-07	
					Styrene	0.04	0.17	0.17	
					Sulfur Dioxide	0.0011	0.005	0.005	
					Toluene	0.42	1.84	1.84	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 160	EU417	8L Precoating 2 Oven	Triethylamine	0.00042	0.0018	0.0018	
					Volatile Organic Compounds	1.95	8.53	8.53	
		EQUI 162	EU419	8L Coating Oven	1,1-Dichloroethylene (Vinylidene chloride)	0.04	0.18	0.18	
					1,4-Dichlorobenzene (para-)	1.9e-05	8.2e-05	8.2e-05	
					Acrylic acid	0.25	1.1	1.1	
					Acrylonitrile	0.02	0.1	0.1	
					Arsenic compounds	3.1e-06	1.4e-05	1.4e-05	
					Benzene	3.3e-05	0.00014	0.00014	
					Beryllium Compounds	1.9e-07	8.2e-07	8.2e-07	
					Bromoform	0.00074	0.0032	0.0032	
					Cadmium compounds	1.7e-05	7.6e-05	7.6e-05	
					Carbon Dioxide	1,871.11	8,195.45	8,195.45	
					Carbon Dioxide Equivalent	1,873.04	8,203.92	8,203.92	
					Carbon Monoxide	1.32	5.77	5.77	
					Chloromethane	0.00017	0.00074	0.00074	
					Chromium compounds	2.2e-05	9.6e-05	9.6e-05	
					Cobalt compounds	1.3e-06	5.8e-06	5.8e-06	
					Formaldehyde	0.0012	0.0052	0.0052	
					HAPs - Total	2.79	12.21	12.21	
					Hexane	0.03	0.12	0.12	
					Hydroquinone	0.02	0.11	0.11	
					Lead Compounds	7.8e-06	3.4e-05	3.4e-05	
					Manganese compounds	6e-06	2.6e-05	2.6e-05	
					Mercury Compounds	4.1e-06	1.8e-05	1.8e-05	
					Methane	0.04	0.15	0.15	
					Methanol	2e-05	8.9e-05	8.9e-05	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	1.4e-05	6.3e-05	6.3e-05	
					Methyl methacrylate	0.19	0.82	0.82	
					Naphthalene	9.6e-06	4.2e-05	4.2e-05	
					Nickel compounds	3.3e-05	0.00014	0.00014	
					Nitrogen Oxides	1.57	6.87	6.87	
					Nitrous Oxide	0.0035	0.02	0.02	
					Particulate Matter	0.12	0.52	0.52	
					PM < 2.5 micron	0.12	0.52	0.52	
					PM < 10 micron	0.12	0.52	0.52	
					Polycyclic organic matter	1.4e-06	6.1e-06	6.1e-06	
					Selenium compounds	3.8e-07	1.6e-06	1.6e-06	
					Styrene	0.19	0.82	0.82	
					Sulfur Dioxide	0.0094	0.04	0.04	
					Toluene	2.04	8.95	8.95	
					Triethylamine	0.002	0.0089	0.0089	
					Volatile Organic Compounds	9.5	41.62	41.62	
		EQUI 197	EU004	1L Precoating 1 Oven	1,4-Dichlorobenzene (para-)	1.8e-06	7.7e-06	7.7e-06	
					Acetaldehyde	3.4e-06	0.0003	1.5e-05	
					Acrylamide	0.00056	0.05	0.0024	
					Acrylic acid	0.03	2.79	0.14	
					Acrylonitrile	0.0045	0.4	0.02	
					Arsenic compounds	2.9e-07	1.3e-06	1.3e-06	
					Benzene	0.0036	0.32	0.02	
					Beryllium Compounds	1.8e-08	7.7e-08	7.7e-08	
					Cadmium compounds	1.6e-06	7.1e-06	7.1e-06	
					Carbon Dioxide	175.42	768.32	768.32	
					Carbon Dioxide Equivalent	175.6	769.12	769.12	
					Carbon Monoxide	0.12	0.54	0.54	
					Chlorine	9.1e-07	7.9e-05	4e-06	
					Chlorobenzene (Monochlorobenzene)	0.0013	0.11	0.0057	
					Chromium compounds	2.1e-06	9e-06	9e-06	
					Cobalt compounds	1.2e-07	5.4e-07	5.4e-07	
					Cresols/Cresylic acid (isomers and mixture)	0.00013	0.01	0.00057	
					Cumene (Isopropylbenzene)	3.3e-06	0.00029	1.4e-05	
					Ethyl acrylate	0.00036	0.03	0.0016	
					Ethylbenzene	0.01	0.87	0.04	
					Ethylene glycol	1.5e-06	0.00013	6.4e-06	
					Formaldehyde	0.00018	0.0066	0.00079	
					HAPs - Total	3.62	316.76	15.85	
					Hexane	0.06	5.21	0.27	
					Lead Compounds	7.4e-07	3.2e-06	3.2e-06	
					Manganese compounds	5.6e-07	2.4e-06	2.4e-06	
					Mercury Compounds	3.8e-07	1.7e-06	1.7e-06	
					Methane	0.0033	0.01	0.01	
					Methanol	0.0029	0.26	0.01	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0088	0.77	0.04	
					Methyl methacrylate	0.00011	0.0096	0.00048	
					Naphthalene	9.7e-07	1.1e-05	4.3e-06	
					Nickel compounds	3.1e-06	1.4e-05	1.4e-05	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 197	EU004	1L Precoating 1 Oven	Nitrogen Oxides	0.15	0.64	0.64	
					Nitrous Oxide	0.00033	0.0014	0.0014	
					Particulate Matter	0.01	0.05	0.05	
					Phenol	0.00042	0.04	0.0018	
					PM < 2.5 micron	0.01	0.05	0.05	
					PM < 10 micron	0.01	0.05	0.05	
					Polycyclic organic matter	1.3e-07	5.7e-07	5.7e-07	
					Selenium compounds	3.5e-08	1.5e-07	1.5e-07	
					Sulfur Dioxide	0.00088	0.0039	0.0039	
					Toluene	3.46	303.31	15.17	
					Vinyl acetate (Acetic acid)	3.5e-05	0.003	0.00015	
					Vinyl chloride (chloroethene)	7.2e-11	6.3e-09	3.2e-10	
					Volatile Organic Compounds	18.57	1,625.9	81.33	
		EQUI 199	EU006	1L Precoating 2 Oven	Xylenes, Total	0.03	2.59	0.13	
					Acetaldehyde	3.4e-06	0.0003	1.5e-05	
					Acrylamide	0.00056	0.05	0.0024	
					Acrylic acid	0.03	2.79	0.14	
					Acrylonitrile	0.0045	0.4	0.02	
					Benzene	0.0036	0.32	0.02	
					Chlorine	9.1e-07	7.9e-05	4e-06	
					Chlorobenzene (Monochlorobenzene)	0.0013	0.11	0.0057	
					Cresols/Cresylic acid (isomers and mixture)	0.00013	0.01	0.00057	
					Cumene (Isopropylbenzene)	3.3e-06	0.00029	1.4e-05	
					Ethyl acrylate	0.00036	0.03	0.0016	
					Ethylbenzene	0.01	0.87	0.04	
					Ethylene glycol	1.5e-06	0.00013	6.4e-06	
					Formaldehyde	7e-05	0.0061	0.00031	
					HAPs - Total	3.62	316.75	15.84	
					Hexane	0.06	5.19	0.26	
					Methanol	0.0029	0.26	0.01	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0088	0.77	0.04	
					Methyl methacrylate	0.00011	0.0096	0.00048	
					Naphthalene	7.7e-08	6.7e-06	3.4e-07	
					Phenol	0.00042	0.04	0.0018	
					Toluene	3.46	303.31	15.17	
					Vinyl acetate (Acetic acid)	3.5e-05	0.003	0.00015	
					Vinyl chloride (chloroethene)	7.2e-11	6.3e-09	3.2e-10	
					Volatile Organic Compounds	18.56	1,625.87	81.29	
					Xylenes, Total	0.03	2.59	0.13	
		EQUI 201	EU008	1L Coating Oven	1,4-Dichlorobenzene (para-)	8.6e-06	3.8e-05	3.8e-05	
					Acetaldehyde	2.6e-05	0.0023	0.00012	
					Acrylamide	0.0044	0.38	0.02	
					Acrylic acid	0.25	21.83	1.09	
					Acrylonitrile	0.04	3.09	0.15	
					Arsenic compounds	1.4e-06	6.3e-06	6.3e-06	
					Benzene	0.03	2.49	0.12	
					Beryllium Compounds	8.6e-08	3.8e-07	3.8e-07	
					Cadmium compounds	7.9e-06	3.4e-05	3.4e-05	
					Carbon Dioxide	851.35	3,728.93	3,728.93	
					Carbon Dioxide Equivalent	852.23	3,732.64	3,732.64	
					Carbon Monoxide	0.6	2.63	2.63	
					Chlorine	7.1e-06	0.00062	3.1e-05	
					Chlorobenzene (Monochlorobenzene)	0.01	0.9	0.04	
					Chromium compounds	1e-05	4.4e-05	4.4e-05	
					Cobalt compounds	6e-07	2.6e-06	2.6e-06	
					Cresols/Cresylic acid (isomers and mixture)	0.001	0.09	0.004	
					Cumene (Isopropylbenzene)	2.6e-05	0.0023	0.00011	
					Ethyl acrylate	0.0028	0.24	0.01	
					Ethylbenzene	0.08	6.83	0.34	
					Ethylene glycol	1.1e-05	0.001	5e-05	
					Formaldehyde	0.0011	0.05	0.0047	
					HAPs - Total	28.3	2,477.81	123.95	
					Hexane	0.48	40.68	2.09	
					Lead Compounds	3.6e-06	1.6e-05	1.6e-05	
					Manganese compounds	2.7e-06	1.2e-05	1.2e-05	
					Mercury Compounds	1.9e-06	8.1e-06	8.1e-06	
					Methane	0.02	0.07	0.07	
					Methanol	0.02	2.02	0.1	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.07	6	0.3	
					Methyl methacrylate	0.00086	0.07	0.0037	
					Naphthalene	5e-06	7.2e-05	2.2e-05	
					Nickel compounds	1.5e-05	6.6e-05	6.6e-05	
					Nitrogen Oxides	0.71	3.13	3.13	
					Nitrous Oxide	0.0016	0.007	0.007	
					Particulate Matter	0.05	0.24	0.24	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 201	EU008	1L Coating Oven	Phenol	0.0033	0.29	0.01	
					PM < 2.5 micron	0.05	0.24	0.24	
					PM < 10 micron	0.05	0.24	0.24	
					Polycyclic organic matter	6.3e-07	2.8e-06	2.8e-06	
					Selenium compounds	1.7e-07	7.5e-07	7.5e-07	
					Sulfur Dioxide	0.0043	0.02	0.02	
					Toluene	27.08	2,372.58	118.63	
					Vinyl acetate (Acetic acid)	0.00027	0.02	0.0012	
					Vinyl chloride (chloroethene)	5.6e-10	4.9e-08	2.5e-09	
					Volatile Organic Compounds	145.22	12,718.38	636.08	
					Xylenes, Total	0.23	20.24	1.01	
		EQUI 202	EU112	27 Oven	Acrylamide	0.01	1.63	0.07	
					Acrylic acid	0.0085	0.93	0.04	
					Acrylonitrile	1.7e-07	1.8e-05	7.4e-07	
					Benzene	0.0094	1.03	0.04	
					Cresols/Cresylic acid (isomers and mixture)	0.0013	0.15	0.0058	
					Cumene (Isopropylbenzene)	1.8e-06	0.0002	8e-06	
					Ethyl acrylate	0.0027	0.3	0.01	
					Ethylbenzene	0.13	14.72	0.59	
					HAPs - Total	16.27	1,781.76	71.27	
					Hydroquinone	7.8e-05	0.0086	0.00034	
					Maleic anhydride	5.2e-06	0.00057	2.3e-05	
					Methanol	3.64	398.12	15.92	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	1.52	166.47	6.66	
					Methyl methacrylate	0.0026	0.28	0.01	
					Naphthalene	4.9e-08	5.4e-06	2.2e-07	
					Phenol	0.004	0.44	0.02	
					Toluene	10.32	1,129.64	45.19	
					Toluene-2,4-diisocyanate	1.6e-06	0.00018	7.1e-06	
					Vinyl acetate (Acetic acid)	0.0041	0.45	0.02	
					Volatile Organic Compounds	82.92	9,079.64	363.19	
		EQUI 204	EU114	28 Oven	Xylenes, Total	0.62	67.6	2.7	
					Acrylic acid	2.64	11.56	11.56	
					Benzene	0.00016	0.00068	0.00068	
					HAPs - Total	8.6	37.67	37.67	
					Hexamethylene-1,6-diisocyanate	3.86	16.89	16.89	
					Maleic anhydride	0.0078	0.03	0.03	
					Toluene	2.1	9.19	9.19	
		EQUI 208	EU110	26 Oven	Volatile Organic Compounds	52.8	231.26	231.26	
					1,1-Dichloroethylene (Vinylidene chloride)	1.2e-10	1.3e-08	5.2e-10	
					1,4-Dioxane (p-Dioxane)	1e-11	9.7e-10	3.9e-11	
					Acetaldehyde	2.3e-11	2.5e-09	1e-10	
					Acrylamide	1e-06	0.00011	4.4e-06	
					Acrylic acid	4.1e-08	4.5e-06	1.8e-07	
					Acrylonitrile	1e-12	1.5e-10	6e-12	
					Benzene	1.7e-08	1.9e-06	7.6e-08	
					Chromium compounds	9.4e-09	1e-06	4.1e-08	
					Cumene (Isopropylbenzene)	2.1e-09	2.3e-07	9.2e-09	
					Ethylbenzene	2.2e-08	2.4e-06	9.6e-08	
					Ethylene oxide	1e-11	1.1e-09	4.4e-11	
					Formaldehyde	3e-12	3.6e-10	1.4e-11	
					HAPs - Total	0.00011	0.01	0.00048	
					Hydroquinone	9.8e-10	1.1e-07	4.3e-09	
					Methanol	1.7e-06	0.00019	7.5e-06	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	1.3e-06	0.00014	5.7e-06	
					Methyl methacrylate	4.2e-09	4.6e-07	1.9e-08	
					Naphthalene	1e-12	6.6e-11	3e-12	
					Styrene	1e-12	3e-12	1e-12	
					Toluene	0.0001	0.01	0.00046	
					Toluene-2,4-diisocyanate	5.6e-11	6.1e-09	2.5e-10	
					Triethylamine	2.6e-08	2.8e-06	1.1e-07	
					Volatile Organic Compounds	48.92	5,357	214.28	
					Xylenes, Total	2.8e-08	3e-06	1.2e-07	
		EQUI 262	Null	LT3 Printer Oven	1,4-Dioxane (p-Dioxane)	5.2e-07	2.3e-06	2.3e-06	
					Acetaldehyde	9.5e-09	4.2e-08	4.2e-08	
					Acrylamide	0.0027	0.01	0.01	
					Acrylonitrile	2.6e-06	1.1e-05	1.1e-05	
					Chlorine	0.00011	0.00049	0.00049	
					Ethylbenzene	2.6e-06	1.1e-05	1.1e-05	
					Ethylene oxide	5.2e-07	2.3e-06	2.3e-06	
					Formaldehyde	0.02	0.1	0.1	
					HAPs - Total	0.03	0.12	0.12	
					Styrene	2.6e-06	1.1e-05	1.1e-05	
		EQUI 269	Null	5L Primer Oven	Volatile Organic Compounds	1.1	4.8	4.8	
					1,4-Dichlorobenzene (para-)	3.2e-06	1.4e-05	1.4e-05	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Dryer/Oven, unknown firing method	EQUI 269	Null	5L Primer Oven	Arsenic compounds	5.4e-07	2.4e-06	2.4e-06	
					Benzene	5.7e-06	2.5e-05	2.5e-05	
					Beryllium Compounds	3.2e-08	1.4e-07	1.4e-07	
					Cadmium compounds	3e-06	1.3e-05	1.3e-05	
					Carbon Dioxide	321.6	1,408.59	1,408.59	
					Carbon Dioxide Equivalent	321.93	1,410.05	1,410.05	
					Carbon Monoxide	0.23	0.99	0.99	
					Chromium compounds	3.8e-06	1.7e-05	1.7e-05	
					Cobalt compounds	2.3e-07	9.9e-07	9.9e-07	
					Formaldehyde	0.0002	0.00089	0.00089	
					HAPs - Total	0.0051	0.02	0.02	
					Hexane	0.0049	0.02	0.02	
					Lead Compounds	1.3e-06	5.9e-06	5.9e-06	
					Manganese compounds	1e-06	4.5e-06	4.5e-06	
					Mercury Compounds	7e-07	3.1e-06	3.1e-06	
					Methane	0.0061	0.03	0.03	
					Naphthalene	1.6e-06	7.2e-06	7.2e-06	
					Nickel compounds	5.7e-06	2.5e-05	2.5e-05	
					Nitrogen Oxides	0.27	1.18	1.18	
					Nitrous Oxide	0.00061	0.0027	0.0027	
					Particulate Matter	0.02	0.09	0.09	
					PM < 2.5 micron	0.02	0.09	0.09	
					PM < 10 micron	0.02	0.09	0.09	
					Polycyclic organic matter	2.4e-07	1e-06	1e-06	
					Selenium compounds	6.5e-08	2.8e-07	2.8e-07	
					Sulfur Dioxide	0.0016	0.0071	0.0071	
					Toluene	9.2e-06	4e-05	4e-05	
					Volatile Organic Compounds	0.01	0.06	0.06	
		EQUI 270	Null	Masking Systems Line 1 O..	Volatile Organic Compounds	0.19	0.85	0.85	
		EQUI 271	EU326	ST5 Oven	Acrylic acid	0.03	0.14	0.14	
					HAPs - Total	0.03	0.14	0.14	
					Volatile Organic Compounds	0.06	0.27	0.27	
		EQUI 272	EU331	ST6 Oven	Acrylic acid	0.13	0.57	0.57	
					HAPs - Total	0.13	0.57	0.57	
					Volatile Organic Compounds	0.26	1.13	1.13	
		EQUI 273	EU413	ST7 Oven	Acrylic acid	2.1e-06	9.1e-06	9.1e-06	
					HAPs - Total	2.1e-06	9.1e-06	9.1e-06	
					Volatile Organic Compounds	4.1e-06	1.8e-05	1.8e-05	
		EQUI 339	Null	Masking Systems Line 2 O..	Volatile Organic Compounds	0.19	0.85	0.85	
	Extruder	EQUI 23	EU125	H1 Extruder 3	1,3-Butadiene	0.00086	0.0038	0.0038	
					Acrylic acid	5.71	25.01	25.01	
					Benzene	0.00021	0.00092	0.00092	
					Carbon disulfide	4.2e-06	1.8e-05	1.8e-05	
					Epichlorohydrin	0.0019	0.0082	0.0082	
					HAPs - Total	8.69	38.06	38.06	
					Hydroquinone	3.3e-06	1.4e-05	1.4e-05	
					Methanol	0.0011	0.0046	0.0046	
					Styrene	0.02	0.08	0.08	
					Toluene	2.96	12.95	12.95	
					Vinyl acetate (Acetic acid)	4.1e-05	0.00018	0.00018	
					Volatile Organic Compounds	29.92	131.05	131.05	
		EQUI 105	EU374	19J Extruder	Particulate Matter	2.66	41.53	11.63	
					PM < 2.5 micron	3.11	41.53	13.62	
					PM < 10 micron	2.66	41.53	11.63	
					Volatile Organic Compounds	1.47	22.93	6.42	
		EQUI 195	EU036	10J Extruder	Particulate Matter	0.39	6.1	1.71	
					PM < 2.5 micron	0.46	6.1	2	
					PM < 10 micron	0.39	6.1	1.71	
					Volatile Organic Compounds	0.07	1.09	0.3	
		EQUI 278	Null	9J Corona Treater	Volatile Organic Compounds	1.44	6.31	6.31	
		EQUI 280	Null	16J Corona Treater	Volatile Organic Compounds	0.72	3.15	3.15	
		EQUI 284	Null	4Y Extruder	1,3-Butadiene	1.3e-06	5.5e-06	5.5e-06	
					Acrylonitrile	0.00013	0.00055	0.00055	
					HAPs - Total	0.11	0.48	0.48	
					Phenol	0.11	0.47	0.47	
					Vinyl chloride (chloroethene)	0.0018	0.0081	0.0081	
					Volatile Organic Compounds	0.14	0.59	0.59	
	Loading-Unloading Equipment	EQUI 251	Null	Voyager Compounding Room Transfer Rack & Equipment Leaks	HAPs - Total	0.08	0.37	0.37	
					Toluene	0.08	0.37	0.37	
					Volatile Organic Compounds	0.61	2.67	2.67	
		EQUI 252	Null	22-28 Compounding Transfer Rack 1	HAPs - Total	1.78	7.81	7.81	
					Toluene	1.78	7.81	7.81	
		EQUI 253	Null	22-28 Compounding Transfer Rack 2	Volatile Organic Compounds	14.66	64.2	64.2	
					HAPs - Total	1.78	7.81	7.81	
					Toluene	1.78	7.81	7.81	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Loading-Unloading Equipment	EQUI 253	Null	22-20 Compounding Transfer Rack 2	Volatile Organic Compounds	14.66	64.2	64.2	
		EQUI 254	Null	Compounding Room 1 Transfer Rack	HAPs - Total	0.35	1.54	1.54	
					Toluene	0.35	1.54	1.54	
					Volatile Organic Compounds	3.13	13.72	13.72	
		EQUI 255	Null	Compounding Room 4 Tran..	Volatile Organic Compounds	0.6	2.65	2.65	
		EQUI 285	Null	VersaDrum Unloader Install	Volatile Organic Compounds	0.5	2.19	2.19	
		EQUI 290	Null	Haz Waste Transfer Rack	HAPs - Total	0.09	0.4	0.4	
					Methanol	0.0052	0.02	0.02	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.00056	0.0025	0.0025	
					Toluene	0.07	0.29	0.29	
					Volatile Organic Compounds	1.87	8.2	8.2	
					Xylenes, Total	0.02	0.08	0.08	
					Acetaldehyde	4.5e-07	2e-06	2e-06	
	Mixing Equipment	EQUI 7	EU021	1N Mixer	Acrylamide	7.4e-05	0.00032	0.00032	
					Acrylic acid	0.0042	0.02	0.02	
					Acrylonitrile	0.0006	0.0026	0.0026	
					Benzene	0.00048	0.0021	0.0021	
					Chlorine	1.2e-07	5.2e-07	5.2e-07	
					Chlorobenzene (Monochlorobenzene)	0.00017	0.00076	0.00076	
					Cresols/Cresylic acid (isomers and mixture)	1.7e-05	7.5e-05	7.5e-05	
					Cumene (Isopropylbenzene)	4.3e-07	1.9e-06	1.9e-06	
					Ethyl acrylate	4.7e-05	0.00021	0.00021	
					Ethylbenzene	0.0013	0.0058	0.0058	
					Ethylene glycol	1.9e-07	8.4e-07	8.4e-07	
					Formaldehyde	9.2e-06	4e-05	4e-05	
					HAPs - Total	0.48	2.09	2.09	
					Hexane	0.0078	0.03	0.03	
					Methanol	0.00039	0.0017	0.0017	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0012	0.0051	0.0051	
					Methyl methacrylate	1.4e-05	6.3e-05	6.3e-05	
					Naphthalene	1e-08	4.5e-08	4.5e-08	
					Particulate Matter	0.08	0.37	0.37	
					Phenol	5.5e-05	0.00024	0.00024	
					PM < 2.5 micron	0.03	0.12	0.12	
					PM < 10 micron	0.03	0.12	0.12	
					Toluene	0.46	2	2	
					Vinyl acetate (Acetic acid)	4.6e-06	2e-05	2e-05	
					Volatile Organic Compounds	2.45	10.74	10.74	
					Xylenes, Total	0.0039	0.02	0.02	
		EQUI 9	EU023	1S Mixer	Acetaldehyde	4.5e-07	2e-06	2e-06	
					Acrylamide	7.4e-05	0.00032	0.00032	
					Acrylic acid	0.0042	0.02	0.02	
					Acrylonitrile	0.0006	0.0026	0.0026	
					Benzene	0.00048	0.0021	0.0021	
					Chlorine	1.2e-07	5.2e-07	5.2e-07	
					Chlorobenzene (Monochlorobenzene)	0.00017	0.00076	0.00076	
					Cresols/Cresylic acid (isomers and mixture)	1.7e-05	7.5e-05	7.5e-05	
					Cumene (Isopropylbenzene)	4.3e-07	1.9e-06	1.9e-06	
					Ethyl acrylate	4.7e-05	0.00021	0.00021	
					Ethylbenzene	0.0013	0.0058	0.0058	
					Ethylene glycol	1.9e-07	8.4e-07	8.4e-07	
					Formaldehyde	9.2e-06	4e-05	4e-05	
					HAPs - Total	0.48	2.09	2.09	
					Hexane	0.0078	0.03	0.03	
					Methanol	0.00039	0.0017	0.0017	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0012	0.0051	0.0051	
					Methyl methacrylate	1.4e-05	6.3e-05	6.3e-05	
					Naphthalene	1e-08	4.5e-08	4.5e-08	
					Particulate Matter	0.08	0.37	0.37	
					Phenol	5.5e-05	0.00024	0.00024	
					PM < 2.5 micron	0.03	0.12	0.12	
					PM < 10 micron	0.03	0.12	0.12	
					Toluene	0.46	2	2	
					Vinyl acetate (Acetic acid)	4.6e-06	2e-05	2e-05	
					Volatile Organic Compounds	2.45	10.74	10.74	
					Xylenes, Total	0.0039	0.02	0.02	
		EQUI 13	EU030	Mogul 1	1,3-Butadiene	2e-06	8.8e-06	8.8e-06	
					Acetaldehyde	5.2e-06	2.3e-05	2.3e-05	
					Acrylamide	0.00085	0.0037	0.0037	
					Acrylic acid	0.05	0.21	0.21	
					Acrylonitrile	0.0069	0.03	0.03	
					Benzene	0.0056	0.02	0.02	
					Chlorine	1.4e-06	6.1e-06	6.1e-06	
					Chlorobenzene (Monochlorobenzene)	0.002	0.0088	0.0088	
					Cresols/Cresylic acid (isomers and mixture)	0.0002	0.00087	0.00087	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Mixing Equipment	EQUI 13	EU030	Mogul 1	Cumene (Isopropylbenzene)	5e-06	2.2e-05	2.2e-05	
					Ethyl acrylate	0.00055	0.0024	0.0024	
					Ethylbenzene	0.02	0.07	0.07	
					Ethylene glycol	2.2e-06	9.8e-06	9.8e-06	
					Formaldehyde	0.00083	0.0036	0.0036	
					HAPs - Total	6.9	30.21	30.21	
					Hexane	1.42	6.23	6.23	
					Methanol	0.03	0.12	0.12	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.01	0.06	0.06	
					Methyl methacrylate	0.00017	0.00073	0.00073	
					Naphthalene	1.2e-07	5.2e-07	5.2e-07	
					Particulate Matter	0.3	1.33	1.33	
					Phenol	0.00064	0.0028	0.0028	
					PM < 2.5 micron	0.1	0.44	0.44	
					PM < 10 micron	0.1	0.44	0.44	
					Toluene	5.31	23.24	23.24	
					Vinyl acetate (Acetic acid)	5.3e-05	0.00023	0.00023	
					Vinyl chloride (chloroethene)	1.1e-10	4.8e-10	4.8e-10	
					Volatile Organic Compounds	28.44	124.56	124.56	
					Xylenes, Total	0.05	0.2	0.2	
		EQUI 20	EU049	Mogul 2	1,3-Butadiene	2e-06	8.8e-06	8.8e-06	
					Acetaldehyde	5.2e-06	2.3e-05	2.3e-05	
					Acrylamide	0.00085	0.0037	0.0037	
					Acrylic acid	0.05	0.21	0.21	
					Acrylonitrile	0.0069	0.03	0.03	
					Benzene	0.0056	0.02	0.02	
					Chlorine	1.4e-06	6.1e-06	6.1e-06	
					Chlorobenzene (Monochlorobenzene)	0.002	0.0088	0.0088	
					Cresols/Cresylic acid (isomers and mixture)	0.0002	0.00087	0.00087	
					Cumene (Isopropylbenzene)	5e-06	2.2e-05	2.2e-05	
					Ethyl acrylate	0.00055	0.0024	0.0024	
					Ethylbenzene	0.02	0.07	0.07	
					Ethylene glycol	2.2e-06	9.8e-06	9.8e-06	
					Formaldehyde	0.00011	0.00047	0.00047	
					HAPs - Total	6.9	30.2	30.2	
					Hexane	1.42	6.23	6.23	
					Methanol	0.03	0.12	0.12	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.01	0.06	0.06	
					Methyl methacrylate	0.00017	0.00073	0.00073	
					Naphthalene	1.2e-07	5.2e-07	5.2e-07	
					Particulate Matter	0.3	1.33	1.33	
					Phenol	0.00064	0.0028	0.0028	
					PM < 2.5 micron	0.1	0.44	0.44	
					PM < 10 micron	0.1	0.44	0.44	
					Toluene	5.31	23.24	23.24	
					Vinyl acetate (Acetic acid)	5.3e-05	0.00023	0.00023	
					Vinyl chloride (chloroethene)	1.1e-10	4.8e-10	4.8e-10	
					Volatile Organic Compounds	28.44	124.56	124.56	
					Xylenes, Total	0.05	0.2	0.2	
		EQUI 286	Null	N72 Drum Mix Station	Benzene	5.8e-08	2.6e-07	2.6e-07	
					Ethylene glycol	1.6e-07	7.1e-07	7.1e-07	
					HAPs - Total	0.00014	0.00059	0.00059	
					Toluene	0.00014	0.00059	0.00059	
					Volatile Organic Compounds	0.00051	0.0022	0.0022	
		EQUI 289	Null	N71 Drum Mix Station	Benzene	6.9e-05	0.0003	0.0003	
					Formaldehyde	4.1e-06	1.8e-05	1.8e-05	
					HAPs - Total	0.13	0.56	0.56	
					Phenol	2.4e-05	0.00011	0.00011	
					Toluene	0.13	0.56	0.56	
					Vinyl acetate (Acetic acid)	0.00012	0.00054	0.00054	
					Volatile Organic Compounds	1	4.38	4.38	
					Xylenes, Total	1.2e-05	5.4e-05	5.4e-05	
	Other Emission Unit	EQUI 28	EU318	LM3 Curing Chamber 1	HAPs - Total	1.97	8.63	8.63	
					Methanol	0.04	0.16	0.16	
					Toluene	1.93	8.47	8.47	
					Volatile Organic Compounds	143	626.34	626.34	
		EQUI 31	EU321	LM3 Curing Chamber 2	HAPs - Total	1.97	8.63	8.63	
					Methanol	0.04	0.16	0.16	
					Toluene	1.93	8.47	8.47	
					Volatile Organic Compounds	143	626.34	626.34	
		EQUI 33	EU327	ST6 Compounding Area A	Volatile Organic Compounds	1.03	4.5	4.5	
		EQUI 34	EU328	ST6 Compounding Area B	Volatile Organic Compounds	1.03	4.5	4.5	
		EQUI 47	EU425	Voyager Oven 1	1,4-Dioxane (p-Dioxane)	5.3e-08	5.8e-06	2.3e-07	
					2-Methylaziridine	1.3e-10	1.4e-08	5.7e-10	
					Acetaldehyde	2.4e-06	0.00026	1e-05	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Other Emission Unit	EQUI 47	EU425	Voyager Oven 1	Acrylamide	6.5e-05	0.0071	0.00028	
					Acrylic acid	2.8e-05	0.0031	0.00012	
					Aziridine	7.2e-09	7.9e-07	3.1e-08	
					Benzene	4.4e-05	0.0048	0.00019	
					Cumene (Isopropylbenzene)	1.1e-07	1.2e-05	4.9e-07	
					Ethyl acrylate	4e-05	0.0044	0.00018	
					Ethylbenzene	2.8e-05	0.0031	0.00012	
					Ethylene glycol	6.2e-07	6.8e-05	2.7e-06	
					Formaldehyde	1.2e-05	0.0013	5.3e-05	
					HAPs - Total	0.13	13.95	0.56	
					Hexane	5.5e-07	6.1e-05	2.4e-06	
					Hydroquinone	5.5e-05	0.003	0.00024	
					Methanol	0.07	7.25	0.29	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	9.7e-05	0.01	0.00042	
					Methyl methacrylate	3.1e-05	0.0034	0.00014	
					Naphthalene	2.4e-07	2.7e-05	1.1e-06	
					Toluene	0.06	6.63	0.27	
					Toluene-2,4-diisocyanate	8.5e-09	9.4e-07	3.7e-08	
					Triethylamine	0.00015	0.02	0.00067	
					Volatile Organic Compounds	0.4	43.71	1.75	
					Xylenes, Total	3.9e-05	0.0042	0.00017	
		EQUI 48	EU426	Voyager Oven 2	1,4-Dichlorobenzene (para-)	1.3e-05	5.7e-05	5.7e-05	
					1,4-Dioxane (p-Dioxane)	4.8e-07	5.2e-05	2.1e-06	
					2-Methylaziridine	1.2e-09	1.3e-07	5.1e-09	
					Acetaldehyde	2.1e-05	0.0023	9.3e-05	
					Acrylamide	0.00058	0.06	0.0026	
					Acrylic acid	0.00025	0.03	0.0011	
					Arsenic compounds	2.2e-06	9.4e-06	9.4e-06	
					Aziridine	6.5e-08	7.1e-06	2.8e-07	
					Benzene	0.00042	0.04	0.0018	
					Beryllium Compounds	1.3e-07	5.7e-07	5.7e-07	
					Cadmium compounds	1.2e-05	5.2e-05	5.2e-05	
					Carbon Dioxide	1,286.39	5,634.37	5,634.37	
					Carbon Dioxide Equivalent	1,287.72	5,640.19	5,640.19	
					Carbon Monoxide	0.91	3.97	3.97	
					Chromium compounds	1.5e-05	6.6e-05	6.6e-05	
					Cobalt compounds	9.1e-07	4e-06	4e-06	
					Cumene (Isopropylbenzene)	1e-06	0.00011	4.4e-06	
					Ethyl acrylate	0.00036	0.04	0.0016	
					Ethylbenzene	0.00025	0.03	0.0011	
					Ethylene glycol	5.6e-06	0.00061	2.4e-05	
					Formaldehyde	0.00092	0.02	0.004	
					HAPs - Total	1.17	125.64	5.11	
					Hexane	0.02	0.09	0.09	
					Hydroquinone	0.00049	0.05	0.0022	
					Lead Compounds	5.4e-06	2.4e-05	2.4e-05	
					Manganese compounds	4.1e-06	1.8e-05	1.8e-05	
					Mercury Compounds	2.8e-06	1.2e-05	1.2e-05	
					Methane	0.02	0.11	0.11	
					Methanol	0.6	65.27	2.61	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.00087	0.1	0.0038	
					Methyl methacrylate	0.00028	0.03	0.0012	
					Naphthalene	8.8e-06	0.00027	3.8e-05	
					Nickel compounds	2.3e-05	9.9e-05	9.9e-05	
					Nitrogen Oxides	1.08	4.72	4.72	
					Nitrous Oxide	0.0024	0.01	0.01	
					Particulate Matter	0.08	0.36	0.36	
					PM < 2.5 micron	0.08	0.36	0.36	
					PM < 10 micron	0.08	0.36	0.36	
					Polycyclic organic matter	9.5e-07	4.2e-06	4.2e-06	
					Selenium compounds	2.6e-07	1.1e-06	1.1e-06	
					Sulfur Dioxide	0.0065	0.03	0.03	
					Toluene	0.55	59.69	2.39	
					Toluene-2,4-diisocyanate	7.7e-08	8.4e-06	3.4e-07	
					Triethylamine	0.0014	0.15	0.006	
					Volatile Organic Compounds	3.65	393.64	15.99	
					Xylenes, Total	0.00035	0.04	0.0015	
		EQUI 50	EU428	Voyager Oven 3	1,4-Dioxane (p-Dioxane)	3.4e-07	3.8e-05	1.5e-06	
					2-Methylaziridine	8.4e-10	9.2e-08	3.7e-09	
					Acetaldehyde	1.5e-05	0.0017	6.7e-05	
					Acrylamide	0.00042	0.05	0.0018	
					Acrylic acid	0.00018	0.02	0.00079	
					Aziridine	4.6e-08	5.1e-06	2e-07	
					Benzene	0.00028	0.03	0.0012	
					Cumene (Isopropylbenzene)	7.3e-07	7.9e-05	3.2e-06	

PTE by SI

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Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Other Emission Unit	EQUI 50	EU428	Voyager Oven 3	Ethyl acrylate	0.00026	0.03	0.0011	
					Ethylbenzene	0.00018	0.02	0.0008	
					Ethylene glycol	4e-06	0.00044	1.7e-05	
					Formaldehyde	7.8e-05	0.0085	0.00034	
					HAPs - Total	0.82	90.13	3.61	
					Hexane	3.6e-06	0.00039	1.6e-05	
					Hydroquinone	0.00035	0.04	0.0015	
					Methanol	0.43	46.86	1.87	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.00063	0.07	0.0027	
					Methyl methacrylate	0.0002	0.02	0.00089	
					Naphthalene	1.6e-06	0.00017	6.9e-06	
					Toluene	0.39	42.85	1.71	
					Toluene-2,4-diisocyanate	5.5e-08	6e-06	2.4e-07	
					Triethylamine	0.00099	0.11	0.0043	
					Volatile Organic Compounds	2.58	282.4	11.3	
					Xylenes, Total	0.00025	0.03	0.0011	
		EQUI 51	EU429	Voyager Oven 4	1,4-Dichlorobenzene (para-)	1.3e-05	5.7e-05	5.7e-05	
					1,4-Dioxane (p-Dioxane)	3.1e-06	0.00034	1.4e-05	
					2-Methylaziridine	7.6e-09	8.3e-07	3.3e-08	
					Acetaldehyde	0.00014	0.02	0.0006	
					Acrylamide	0.0038	0.41	0.02	
					Acrylic acid	0.0016	0.18	0.0071	
					Arsenic compounds	2.2e-06	9.4e-06	9.4e-06	
					Aziridine	4.2e-07	4.6e-05	1.8e-06	
					Benzene	0.0026	0.28	0.01	
					Beryllium Compounds	1.3e-07	5.7e-07	5.7e-07	
					Cadmium compounds	1.2e-05	5.2e-05	5.2e-05	
					Carbon Dioxide	1,286.39	5,634.37	5,634.37	
					Carbon Dioxide Equivalent	1,287.72	5,640.19	5,640.19	
					Carbon Monoxide	0.91	3.97	3.97	
					Chromium compounds	1.5e-05	6.6e-05	6.6e-05	
					Cobalt compounds	9.1e-07	4e-06	4e-06	
					Cumene (Isopropylbenzene)	6.5e-06	0.00072	2.9e-05	
					Ethyl acrylate	0.0023	0.26	0.01	
					Ethylbenzene	0.0016	0.18	0.0072	
					Ethylene glycol	3.6e-05	0.0039	0.00016	
					Formaldehyde	0.0015	0.08	0.0066	
					HAPs - Total	7.43	811.26	32.54	
					Hexane	0.02	0.09	0.09	
					Hydroquinone	0.0032	0.35	0.01	
					Lead Compounds	5.4e-06	2.4e-05	2.4e-05	
					Manganese compounds	4.1e-06	1.8e-05	1.8e-05	
					Mercury Compounds	2.8e-06	1.2e-05	1.2e-05	
					Methane	0.02	0.11	0.11	
					Methanol	3.85	421.73	16.87	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0056	0.62	0.02	
					Methyl methacrylate	0.0018	0.2	0.008	
					Naphthalene	2.1e-05	0.0016	9.1e-05	
					Nickel compounds	2.3e-05	9.9e-05	9.9e-05	
					Nitrogen Oxides	1.08	4.72	4.72	
					Nitrous Oxide	0.0024	0.01	0.01	
					Particulate Matter	0.08	0.36	0.36	
					PM < 2.5 micron	0.08	0.36	0.36	
					PM < 10 micron	0.08	0.36	0.36	
					Polycyclic organic matter	9.5e-07	4.2e-06	4.2e-06	
					Selenium compounds	2.6e-07	1.1e-06	1.1e-06	
					Sulfur Dioxide	0.0065	0.03	0.03	
					Toluene	3.52	385.65	15.43	
					Toluene-2,4-diisocyanate	5e-07	5.4e-05	2.2e-06	
					Triethylamine	0.0089	0.97	0.04	
					Volatile Organic Compounds	23.27	2,541.88	101.92	
					Xylenes, Total	0.0023	0.25	0.0099	
		EQUI 72	EU413	ST7 Curing Chamber	Acrylic acid	0.42	1.84	1.84	
					HAPs - Total		1.84	1.84	
					Volatile Organic Compounds	0.822	3.6	3.6	
		EQUI 163	EU420	LT3 Saturator	1,4-Dioxane (p-Dioxane)	3.3e-07	1.4e-06	1.4e-06	
					Acetaldehyde	6e-09	2.6e-08	2.6e-08	
					Acrylamide	0.0017	0.0075	0.0075	
					Acrylonitrile	1.6e-06	7.2e-06	7.2e-06	
					Chlorine	7e-05	0.00031	0.00031	
					Ethylbenzene	1.6e-06	7.2e-06	7.2e-06	
					Ethylene oxide	3.3e-07	1.4e-06	1.4e-06	
					Formaldehyde	0.02	0.07	0.07	
					HAPs - Total	0.02	0.07	0.07	
					Styrene	1.6e-06	7.2e-06	7.2e-06	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Other Emission Unit	EQUI 163	EU420	LT3 Saturator	Volatile Organic Compounds	0.51	2.21	2.21	
					1,4-Dichlorobenzene (para-)	1.3e-05	5.7e-05	5.7e-05	
					1,4-Dioxane (p-Dioxane)	1.3e-06	5.7e-06	5.7e-06	
					Acetaldehyde	2.4e-08	1.1e-07	1.1e-07	
					Acrylamide	0.0069	0.03	0.03	
					Acrylonitrile	6.5e-06	2.9e-05	2.9e-05	
					Arsenic compounds	2.2e-06	9.4e-06	9.4e-06	
					Benzene	2.3e-05	9.9e-05	9.9e-05	
					Beryllium Compounds	1.3e-07	5.7e-07	5.7e-07	
					Cadmium compounds	1.2e-05	5.2e-05	5.2e-05	
					Carbon Dioxide	1,286.39	5,634.37	5,634.37	
					Carbon Dioxide Equivalent	1,287.72	5,640.19	5,640.19	
					Carbon Monoxide	0.91	3.97	3.97	
					Chlorine	0.00028	0.0012	0.0012	
					Chromium compounds	1.5e-05	6.6e-05	6.6e-05	
					Cobalt compounds	9.1e-07	4e-06	4e-06	
					Ethylbenzene	6.5e-06	2.9e-05	2.9e-05	
					Ethylene oxide	1.36e-06	5.7e-06	5.7e-06	
					Formaldehyde	0.06	0.27	0.27	
					HAPs - Total	0.09	0.38	0.38	
					Hexane	0.02	0.09	0.09	
					Lead Compounds	5.4e-06	2.4e-05	2.4e-05	
					Manganese compounds	4.1e-06	1.8e-05	1.8e-05	
					Mercury Compounds	2.8e-06	1.2e-05	1.2e-05	
					Methane	0.02	0.11	0.11	
					Naphthalene	6.6e-06	2.9e-05	2.9e-05	
					Nickel compounds	2.3e-05	9.9e-05	9.9e-05	
					Nitrogen Oxides	1.08	4.72	4.72	
					Nitrous Oxide	0.0024	0.01	0.01	
					Particulate Matter	0.08	0.36	0.36	
					PM < 2.5 micron	0.08	0.36	0.36	
					PM < 10 micron	0.08	0.36	0.36	
					Polycyclic organic matter	9.5e-07	4.2e-06	4.2e-06	
					Selenium compounds	2.6e-07	1.1e-06	1.1e-06	
					Styrene	6.5e-06	2.9e-05	2.9e-05	
					Sulfur Dioxide	0.0065	0.03	0.03	
					Toluene	3.7e-05	0.00016	0.00016	
					Volatile Organic Compounds	2.08	9.12	9.12	
		EQUI 166	EU423	LT3 Coating Oven	1,4-Dichlorobenzene (para-)	8.2e-06	3.6e-05	3.6e-05	
					1,4-Dioxane (p-Dioxane)	3.9e-05	0.00017	0.00017	
					Acetaldehyde	7.1e-07	3.1e-06	3.1e-06	
					Acrylamide	0.2	0.89	0.89	
					Acrylonitrile	0.00019	0.00085	0.00085	
					Arsenic compounds	1.4e-06	6e-06	6e-06	
					Benzene	1.4e-05	6.3e-05	6.3e-05	
					Beryllium Compounds	8.2e-08	3.6e-07	3.6e-07	
					Cadmium compounds	7.5e-06	3.3e-05	3.3e-05	
					Carbon Dioxide	818.61	3,585.51	3,585.51	
					Carbon Dioxide Equivalent	819.46	3,589.21	3,589.21	
					Carbon Monoxide	0.58	2.52	2.52	
					Chlorine	0.0083	0.04	0.04	
					Chromium compounds	9.6e-06	4.2e-05	4.2e-05	
					Cobalt compounds	5.8e-07	2.5e-06	2.5e-06	
					Ethylbenzene	0.00019	0.00085	0.00085	
					Ethylene oxide	3.9e-05	0.00017	0.00017	
					Formaldehyde	1.79	7.82	7.82	
					HAPs - Total	2.01	8.81	8.81	
					Hexane	0.01	0.05	0.05	
					Manganese compounds	2.6e-06	1.1e-05	1.1e-05	
					Mercury Compounds	1.8e-06	7.8e-06	7.8e-06	
					Methane	0.02	0.07	0.07	
					Naphthalene	4.2e-06	1.8e-05	1.8e-05	
					Nickel compounds	1.4e-05	6.3e-05	6.3e-05	
					Nitrogen Oxides	0.69	3.01	3.01	
					Nitrous Oxide	0.0015	0.0068	0.0068	
					Particulate Matter	0.05	0.23	0.23	
					PM < 2.5 micron	0.05	0.23	0.23	
					PM < 10 micron	0.05	0.23	0.23	
					Polycyclic organic matter	6.1e-07	2.7e-06	2.7e-06	
					Selenium compounds	1.6e-07	7.2e-07	7.2e-07	
					Styrene	0.00019	0.00085	0.00085	
					Sulfur Dioxide	0.0041	0.02	0.02	
					Toluene	2.3e-05	0.0001	0.0001	
					Volatile Organic Compounds	60.04	262.97	262.97	
		EQUI 219	Null	Masking Systems Line 1	Volatile Organic Compounds	0.05	0.21	0.21	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)		
Equipment	Other Emission Unit	EQUI 223	Null	Masking Systems Line 2	Volatile Organic Compounds	0.05	0.21	0.21			
		EQUI 224	Null	Excalibur Ink Printer/LAB C..	Volatile Organic Compounds	3.2	14.01	14.01			
		EQUI 225	Null	Excalibur Ink Printer/LAB C..	Volatile Organic Compounds	3.2	14.01	14.01			
		EQUI 226	Null	Excalibur Ink Printer/LAB C..	Volatile Organic Compounds	3.2	14.01	14.01			
		EQUI 227	Null	Excalibur Ink Printer/LAB C..	Volatile Organic Compounds	3.2	14.01	14.01			
		EQUI 228	Null	Excalibur Ink Printer/LAB C..	Volatile Organic Compounds	3.2	14.01	14.01			
		EQUI 229	Null	Excalibur Ink Printer/LAB C..	Volatile Organic Compounds	3.2	14.01	14.01			
		EQUI 266	Null	3L Corona Treater	Volatile Organic Compounds	1.44	6.31	6.31			
		EQUI 282	Null	APF1 Printer	Volatile Organic Compounds	0.0013	0.0058	0.0058			
		EQUI 283	Null	APF2 Printer	Volatile Organic Compounds	0.0013	0.0058	0.0058			
		EQUI 287	Null	N69 Mill	Benzene	0.00014	0.0006	0.0006			
					Ethylene glycol	3.9e-06	1.7e-05	1.7e-05			
					HAPs - Total	0.46	2.01	2.01			
					Toluene	0.46	2.01	2.01			
					Vinyl acetate (Acetic acid)	6.4e-06	2.8e-05	2.8e-05			
					Volatile Organic Compounds	1	4.38	4.38			
					Benzene	0.00021	0.0009	0.0009			
					Ethylene glycol	0.00019	0.00082	0.00082			
					HAPs - Total	0.48	2.11	2.11			
					Toluene	0.48	2.11	2.11			
		EQUI 288	Null	N70 Basket Mill	Volatile Organic Compounds	1	4.38	4.38			
					Benzene	0.00021	0.0009	0.0009			
					Ethylene glycol	0.00019	0.00082	0.00082			
					HAPs - Total	0.48	2.11	2.11			
					Toluene	0.48	2.11	2.11			
					Volatile Organic Compounds	1	4.38	4.38			
					Benzene	0.00021	0.0009	0.0009			
					Ethylene glycol	0.00019	0.00082	0.00082			
					HAPs - Total	0.48	2.11	2.11			
					Toluene	0.48	2.11	2.11			
		EQUI 340	Null	LT3 Printer	Volatile Organic Compounds	1	4.38	4.38			
					1,4-Dioxane (p-Dioxane)	1.3e-07	5.7e-07	5.7e-07			
	Acetaldehyde				2.4e-09	1e-08	1e-08				
	Acrylamide				0.00068	0.003	0.003				
	Acrylonitrile				6.5e-07	2.8e-06	2.8e-06				
	Chlorine				2.8e-05	0.00012	0.00012				
	Ethylbenzene				6.5e-07	2.8e-06	2.8e-06				
	Ethylene oxide				1.3e-07	5.7e-07	5.7e-07				
	Formaldehyde				0.006	0.03	0.03				
	HAPs - Total				0.0067	0.03	0.03				
	Styrene				6.5e-07	2.8e-06	2.8e-06				
	Volatile Organic Compounds				0.27	1.2	1.2				
	1,1,2-Trichloroethane				1.2e-05	2.9e-06	2.9e-06				
	1,1,2,2-Tetrachloroethane				1.9e-05	4.8e-06	4.8e-06				
	1,2-Dibromoethane (Ethylene dibromide); EDB				1.6e-05	4.1e-06	4.1e-06				
	1,3-Butadiene				0.00051	0.00013	0.00013				
	1,3-Dichloropropene				9.7e-06	2.4e-06	2.4e-06				
	Reciprocating IC Engine				EQUI 230	Null	GEN-35	Acetaldehyde	0.0021	0.00053	0.00053
		Acrolein	0.002	0.0005				0.0005			
		Benzene	0.0012	0.0003				0.0003			
Carbon Dioxide		89.31	22.33	22.33							
Carbon Dioxide Equivalent		89.4	22.35	22.35							
Carbon Monoxide		2.84	0.71	0.71							
Carbon tetrachloride		1.4e-05	3.4e-06	3.4e-06							
Chlorobenzene (Monochlorobenzene)		9.8e-06	2.5e-06	2.5e-06							
Chloroform		1e-05	2.6e-06	2.6e-06							
Dichloromethane (Methylene chloride)		3.1e-05	7.9e-06	7.9e-06							
Ethylbenzene		1.9e-05	4.7e-06	4.7e-06							
Formaldehyde		0.02	0.0039	0.0039							
HAPs - Total		0.02	0.0062	0.0062							
Methane		0.0017	0.00042	0.00042							
Methanol		0.0023	0.00058	0.00058							
Naphthalene		7.4e-05	1.9e-05	1.9e-05							
Nitrogen Oxides		1.69	0.42	0.42							
Nitrous Oxide		0.00017	4.2e-05	4.2e-05							
Particulate Matter		0.01	0.0037	0.0037							
PM < 2.5 micron		0.01	0.0037	0.0037							
PM < 10 micron		0.01	0.0037	0.0037							
Polycyclic organic matter		0.00011	2.7e-05	2.7e-05							
Styrene		9.1e-06	2.3e-06	2.3e-06							
Sulfur Dioxide		0.00045	0.00011	0.00011							
Toluene		0.00043	0.00011	0.00011							
Vinyl chloride (chloroethene)		5.5e-06	1.4e-06	1.4e-06							
Volatile Organic Compounds		0.02	0.0056	0.0056							
Xylenes, Total		0.00015	3.7e-05	3.7e-05							
EQUI 232		Null	GEN-KOHLER	1,1,2-Trichloroethane				1.1e-05	2.7e-06	2.7e-06	
				1,1,2,2-Tetrachloroethane				1.8e-05	4.4e-06	4.4e-06	
				1,2-Dibromoethane (Ethylene dibromide); EDB				1.5e-05	3.7e-06	3.7e-06	
				1,3-Butadiene				0.00046	0.00012	0.00012	
				1,3-Dichloropropene				8.9e-06	2.2e-06	2.2e-06	
				Acetaldehyde				0.002	0.00049	0.00049	
				Acrolein				0.0018	0.00046	0.00046	
				Benzene				0.0011	0.00028	0.00028	
				Carbon Dioxide				81.88	20.47	20.47	
				Carbon Dioxide Equivalent				89.4	22.35	22.35	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Reciprocating IC Engine	EQUI 232	Null	GEN-KOHLER	Carbon Monoxide	2.6	0.65	0.65	
					Carbon tetrachloride	1.2e-05	3.1e-06	3.1e-06	
					Chlorobenzene (Monochlorobenzene)	9e-06	2.3e-06	2.3e-06	
					Chloroform	9.6e-06	2.4e-06	2.4e-06	
					Dichloromethane (Methylene chloride)	2.9e-05	7.2e-06	7.2e-06	
					Ethylbenzene	1.7e-05	4.3e-06	4.3e-06	
					Formaldehyde	0.01	0.0036	0.0036	
					HAPs - Total	0.02	0.0062	0.0062	
					Methane	0.0015	0.00039	0.00039	
					Methanol	0.0021	0.00054	0.00054	
					Naphthalene	6.8e-05	1.7e-05	1.7e-05	
					Nitrogen Oxides	1.55	0.39	0.39	
					Nitrous Oxide	0.00015	3.9e-05	3.9e-05	
					Particulate Matter	0.01	0.0034	0.0034	
					PM < 2.5 micron	0.01	0.0034	0.0034	
					PM < 10 micron	0.01	0.0034	0.0034	
					Polycyclic organic matter	9.9e-05	2.5e-05	2.5e-05	
					Styrene	8.3e-06	2.1e-06	2.1e-06	
					Sulfur Dioxide	0.00041	0.0001	0.0001	
					Toluene	0.00043	0.00011	0.00011	
					Vinyl chloride (chloroethene)	5e-06	1.3e-06	1.3e-06	
					Volatile Organic Compounds	0.02	0.0056	0.0056	
					Xylenes, Total	0.00014	3.4e-05	3.4e-05	
		EQUI 233	Null	GEN-31	1,1,2-Trichloroethane	9.3e-06	4.1e-05	4.1e-05	
					1,1,2,2-Tetrachloroethane	1.5e-05	6.8e-05	6.8e-05	
					1,2-Dibromoethane (Ethylene dibromide); EDB	1.3e-05	5.7e-05	5.7e-05	
					1,3-Butadiene	0.0004	0.0018	0.0018	
					1,3-Dichloropropene	7.8e-06	3.4e-05	3.4e-05	
					Acetaldehyde	0.0017	0.0075	0.0075	
					Acrolein	0.0016	0.007	0.007	
					Benzene	0.00097	0.0042	0.0042	
					Carbon Dioxide	71.45	312.95	312.95	
					Carbon Dioxide Equivalent	71.52	313.27	313.27	
					Carbon Monoxide	2.27	9.95	9.95	
					Carbon tetrachloride	1.1e-05	4.7e-05	4.7e-05	
					Chlorobenzene (Monochlorobenzene)	7.9e-06	3.5e-05	3.5e-05	
					Chloroform	8.4e-06	3.7e-05	3.7e-05	
					Dichloromethane (Methylene chloride)	2.5e-05	0.00011	0.00011	
					Ethylbenzene	1.5e-05	6.6e-05	6.6e-05	
					Formaldehyde	0.01	0.05	0.05	
					HAPs - Total	0.02	0.09	0.09	
					Methane	0.0013	0.0059	0.0059	
					Methanol	0.0019	0.0082	0.0082	
					Naphthalene	5.9e-05	0.00026	0.00026	
					Nitrogen Oxides	1.35	5.91	5.91	
					Nitrous Oxide	0.00013	0.00059	0.00059	
					Particulate Matter	0.01	0.05	0.05	
					PM < 2.5 micron	0.01	0.05	0.05	
					PM < 10 micron	0.01	0.05	0.05	
					Polycyclic organic matter	8.6e-05	0.00038	0.00038	
					Styrene	7.3e-06	3.2e-05	3.2e-05	
					Sulfur Dioxide	0.00036	0.0016	0.0016	
					Toluene	0.00034	0.0015	0.0015	
					Vinyl chloride (chloroethene)	4.4e-06	1.9e-05	1.9e-05	
					Volatile Organic Compounds	0.02	0.08	0.08	
					Xylenes, Total	0.00012	0.00052	0.00052	
		EQUI 234	Null	GEN-33	1,1,2-Trichloroethane	9.3e-06	4.1e-05	4.1e-05	
					1,1,2,2-Tetrachloroethane	1.5e-05	6.8e-05	6.8e-05	
					1,2-Dibromoethane (Ethylene dibromide); EDB	1.3e-05	5.7e-05	5.7e-05	
					1,3-Butadiene	0.0004	0.0018	0.0018	
					1,3-Dichloropropene	7.8e-06	3.4e-05	3.4e-05	
					Acetaldehyde	0.0017	0.0075	0.0075	
					Acrolein	0.0017	0.007	0.007	
					Benzene	0.00097	0.0042	0.0042	
					Carbon Dioxide	71.45	312.95	312.95	
					Carbon Dioxide Equivalent	71.52	313.27	313.27	
					Carbon Monoxide	2.27	9.95	9.95	
					Carbon tetrachloride	1.1e-05	4.7e-05	4.7e-05	
					Chlorobenzene (Monochlorobenzene)	7.9e-06	3.5e-05	3.5e-05	
					Chloroform	8.4e-06	3.7e-05	3.7e-05	
					Dichloromethane (Methylene chloride)	2.5e-05	0.00011	0.00011	
					Ethylbenzene	1.5e-05	6.6e-05	6.6e-05	
					Formaldehyde	0.01	0.05	0.05	
					HAPs - Total	0.02	0.09	0.09	
					Methane	0.0013	0.0059	0.0059	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Reciprocating IC Engine	EQUI 234	Null	GEN-33	Methanol	0.0019	0.0082	0.0082	
					Naphthalene	5.9e-05	0.00026	0.00026	
					Nitrogen Oxides	1.35	5.91	5.91	
					Nitrous Oxide	0.00013	0.00059	0.00059	
					Particulate Matter	0.01	0.05	0.05	
					PM < 2.5 micron	0.01	0.05	0.05	
					PM < 10 micron	0.01	0.05	0.05	
					Polycyclic organic matter	8.6e-05	0.00038	0.00038	
					Styrene	7.3e-06	3.2e-05	3.2e-05	
					Sulfur Dioxide	0.00036	0.0016	0.0016	
					Toluene	0.00034	0.0015	0.0015	
					Vinyl chloride (chloroethene)	4.4e-06	1.9e-05	1.9e-05	
					Volatile Organic Compounds	0.02	0.08	0.08	
					Xylenes, Total	0.00012	0.00052	0.00052	
		EQUI 235	Null	GEN-15	1,3-Butadiene	9e-05	2.3e-05	2.3e-05	
					Acetaldehyde	0.0018	0.00044	0.00044	
					Acrolein	0.00021	5.3e-05	5.3e-05	
					Benzene	0.0022	0.00054	0.00054	
					Carbon Dioxide	376.65	94.16	94.16	
					Carbon Dioxide Equivalent	377.95	94.49	94.49	
					Carbon Monoxide	2.2	0.55	0.55	
					Formaldehyde	0.0027	0.00068	0.00068	
					HAPs - Total	0.0089	0.0022	0.0022	
					Methane	0.02	0.0038	0.0038	
					Naphthalene	0.0002	4.9e-05	4.9e-05	
					Nitrogen Oxides	10.23	2.56	2.56	
					Nitrous Oxide	0.0031	0.00076	0.00076	
					Particulate Matter	0.73	0.18	0.18	
					PM < 2.5 micron	0.73	0.18	0.18	
					PM < 10 micron	0.73	0.18	0.18	
					Polycyclic organic matter	0.00019	4.8e-05	4.8e-05	
					Sulfur Dioxide	0.68	0.17	0.17	
					Toluene	0.00094	0.00024	0.00024	
					Volatile Organic Compounds	0.82	0.2	0.2	
					Xylenes, Total	0.00066	0.00016	0.00016	
		EQUI 236	Null	GEN-16	1,1,2-Trichloroethane	9.3e-06	4.1e-05	4.1e-05	
					1,1,2,2-Tetrachloroethane	1.5e-05	6.8e-05	6.8e-05	
					1,2-Dibromoethane (Ethylene dibromide); EDB	1.3e-05	5.7e-05	5.7e-05	
					1,3-Butadiene	0.0004	0.0018	0.0018	
					1,3-Dichloropropene	7.8e-06	3.4e-05	3.4e-05	
					Acetaldehyde	0.0017	0.0075	0.0075	
					Acrolein	0.0016	0.007	0.007	
					Benzene	0.00097	0.0042	0.0042	
					Carbon Dioxide	71.45	312.95	312.95	
					Carbon Dioxide Equivalent	71.52	313.27	313.27	
					Carbon Monoxide	2.27	9.95	9.95	
					Carbon tetrachloride	1.1e-05	4.7e-05	4.7e-05	
					Chlorobenzene (Monochlorobenzene)	7.9e-06	3.5e-05	3.5e-05	
					Chloroform	8.4e-06	3.7e-05	3.7e-05	
					Dichloromethane (Methylene chloride)	2.5e-05	0.00011	0.00011	
					Ethylbenzene	1.5e-05	6.6e-05	6.6e-05	
					Formaldehyde	0.01	0.05	0.05	
					HAPs - Total	0.02	0.09	0.09	
					Methane	0.0013	0.0059	0.0059	
					Methanol	0.0019	0.0082	0.0082	
					Naphthalene	5.9e-05	0.00026	0.00026	
					Nitrogen Oxides	1.35	5.91	5.91	
					Nitrous Oxide	0.00013	3.4e-05	3.4e-05	
					Particulate Matter	0.01	0.05	0.05	
					PM < 2.5 micron	0.01	0.05	0.05	
					PM < 10 micron	0.01	0.05	0.05	
					Polycyclic organic matter	8.6e-05	0.00038	0.00038	
					Styrene	7.3e-06	3.2e-05	3.2e-05	
					Sulfur Dioxide	0.00036	0.0016	0.0016	
					Toluene	0.00034	0.0015	0.0015	
					Vinyl chloride (chloroethene)	4.4e-06	1.9e-05	1.9e-05	
					Volatile Organic Compounds	0.02	0.08	0.08	
					Xylenes, Total	0.00012	0.00052	0.00052	
		EQUI 237	Null	GEN-32	1,1,2-Trichloroethane	9.3e-06	4.1e-05	4.1e-05	
					1,1,2,2-Tetrachloroethane	1.5e-05	6.8e-05	6.8e-05	
					1,2-Dibromoethane (Ethylene dibromide); EDB	1.3e-05	5.7e-05	5.7e-05	
					1,3-Butadiene	0.0004	0.0018	0.0018	
					1,3-Dichloropropene	7.8e-06	3.4e-05	3.4e-05	
					Acetaldehyde	0.0017	0.0075	0.0075	
					Acrolein	0.0016	0.007	0.007	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Reciprocating IC Engine	EQUI 237	Null	GEN-32	Benzene	0.00097	0.0042	0.0042	
					Carbon Dioxide	71.45	312.95	312.95	
					Carbon Dioxide Equivalent	71.52	313.27	313.27	
					Carbon Monoxide	2.27	9.95	9.95	
					Carbon tetrachloride	1.1e-05	4.7e-05	4.7e-05	
					Chlorobenzene (Monochlorobenzene)	7.9e-06	3.5e-05	3.5e-05	
					Chloroform	8.4e-06	3.7e-05	3.7e-05	
					Dichloromethane (Methylene chloride)	2.5e-05	0.00011	0.00011	
					Ethylbenzene	1.5e-05	6.6e-05	6.6e-05	
					Formaldehyde	0.01	0.05	0.05	
					HAPs - Total	0.02	0.09	0.09	
					Methane	0.0013	0.0059	0.0059	
					Methanol	0.0019	0.0082	0.0082	
					Naphthalene	5.9e-05	0.00026	0.00026	
					Nitrogen Oxides	1.35	5.91	5.91	
					Nitrous Oxide	0.00013	0.00059	0.00059	
					Particulate Matter	0.01	0.05	0.05	
					PM < 2.5 micron	0.01	0.05	0.05	
					PM < 10 micron	0.01	0.05	0.05	
					Polycyclic organic matter	8.6e-05	0.00038	0.00038	
					Styrene	7.3e-06	3.2e-05	3.2e-05	
					Sulfur Dioxide	0.00036	0.0016	0.0016	
					Toluene	0.00034	0.0015	0.0015	
					Vinyl chloride (chloroethene)	4.4e-06	1.9e-05	1.9e-05	
					Volatile Organic Compounds	0.02	0.08	0.08	
		EQUI 238	Null	Fire Pump 1	Xylenes, Total	0.00012	0.00052	0.00052	
					1,3-Butadiene	6.8e-05	1.7e-05	1.7e-05	
					Acetaldehyde	0.0013	0.00034	0.00034	
					Acrolein	0.00016	4e-05	4e-05	
					Benzene	0.0016	0.00041	0.00041	
					Carbon Dioxide	285.34	71.34	71.34	
					Carbon Dioxide Equivalent	286.32	71.58	71.58	
					Carbon Monoxide	1.67	0.42	0.42	
					Formaldehyde	0.0021	0.00052	0.00052	
					HAPs - Total	0.0068	0.0017	0.0017	
					Methane	0.01	0.0029	0.0029	
					Naphthalene	0.00015	3.7e-05	3.7e-05	
					Nitrogen Oxides	7.75	1.94	1.94	
					Nitrous Oxide	0.0023	0.00058	0.00058	
					Particulate Matter	0.55	0.14	0.14	
					PM < 2.5 micron	0.55	0.14	0.14	
					PM < 10 micron	0.55	0.14	0.14	
					Polycyclic organic matter	0.00015	3.6e-05	3.6e-05	
					Sulfur Dioxide	0.51	0.13	0.13	
					Toluene	0.00072	0.00018	0.00018	
					Volatile Organic Compounds	0.62	0.15	0.15	
		EQUI 239	Null	Fire Pump 2	Xylenes, Total	0.0005	0.00012	0.00012	
					1,3-Butadiene	6.8e-05	1.7e-05	1.7e-05	
					Acetaldehyde	0.0013	0.00034	0.00034	
					Acrolein	0.00016	4e-05	4e-05	
					Benzene	0.0016	0.00041	0.00041	
					Carbon Dioxide	285.34	71.34	71.34	
					Carbon Dioxide Equivalent	286.32	71.58	71.58	
					Carbon Monoxide	1.67	0.42	0.42	
					Formaldehyde	0.0021	0.00052	0.00052	
					HAPs - Total	0.0068	0.0017	0.0017	
					Methane	0.01	0.0029	0.0029	
					Naphthalene	0.00015	3.7e-05	3.7e-05	
					Nitrogen Oxides	7.75	1.94	1.94	
					Nitrous Oxide	0.0023	0.00058	0.00058	
					Particulate Matter	0.55	0.14	0.14	
					PM < 2.5 micron	0.55	0.14	0.14	
					PM < 10 micron	0.55	0.14	0.14	
					Polycyclic organic matter	0.00015	3.6e-05	3.6e-05	
					Sulfur Dioxide	0.51	0.13	0.13	
					Toluene	0.00072	0.00018	0.00018	
					Volatile Organic Compounds	0.62	0.15	0.15	
		EQUI 256	Null	GEN-14	Xylenes, Total	0.0005	0.00012	0.00012	
					1,1,2-Trichloroethane	0.00026	6.4e-05	6.4e-05	
					1,1,2,2-Tetrachloroethane	0.00032	8e-05	8e-05	
					1,2-Dibromoethane (Ethylene dibromide); EDB	0.00036	8.9e-05	8.9e-05	
					1,3-Butadiene	0.0021	0.00054	0.00054	
					1,3-Dichloropropene	0.00021	5.3e-05	5.3e-05	
					2,2,4-trimethylpentane	0.002	0.0005	0.0005	
					Acetaldehyde	0.07	0.02	0.02	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Reciprocating IC Engine	EQUI 256	Null	GEN-14	Acrolein	0.04	0.01	0.01	
					Benzene	0.0035	0.00088	0.00088	
					Biphenyl	0.0017	0.00043	0.00043	
					Carbon Dioxide	939.5	234.87	234.87	
					Carbon Dioxide Equivalent	940.47	235.12	235.12	
					Carbon Monoxide	4.9	1.22	1.22	
					Carbon tetrachloride	0.00029	7.4e-05	7.4e-05	
					Chlorobenzene (Monochlorobenzene)	0.00024	6.1e-05	6.1e-05	
					Chloroform	0.00023	5.7e-05	5.7e-05	
					Dichloromethane (Methylene chloride)	0.00016	4e-05	4e-05	
					Ethylbenzene	0.00032	8e-05	8e-05	
					Formaldehyde	0.42	0.11	0.11	
					HAPs - Total	0.58	0.14	0.14	
					Hexane	0.0089	0.0022	0.0022	
					Methane	0.02	0.0044	0.0044	
					Methanol	0.02	0.005	0.005	
					Naphthalene	0.0006	0.00015	0.00015	
					Nitrogen Oxides	2.81	0.7	0.7	
					Nitrous Oxide	0.0018	0.00044	0.00044	
					Particulate Matter	0.08	0.02	0.02	
					Phenol	0.00019	4.8e-05	4.8e-05	
					PM < 2.5 micron	0.08	0.02	0.02	
					PM < 10 micron	0.08	0.02	0.02	
					Polycyclic organic matter	0.00045	0.00011	0.00011	
					Styrene	0.00019	4.7e-05	4.7e-05	
					Sulfur Dioxide	0.0047	0.0012	0.0012	
					Toluene	0.0033	0.00082	0.00082	
					Vinyl chloride (chloroethene)	0.00012	3e-05	3e-05	
					Volatile Organic Compounds	0.95	0.24	0.24	
					Xylenes, Total	0.0015	0.00037	0.00037	
	EQUI 274	Null	Null	North Plant Emergency Generator	1,1,2-Trichloroethane	5.7e-05	1.4e-05	1.4e-05	
					1,1,2,2-Tetrachloroethane	9.4e-05	2.3e-05	2.3e-05	
					1,2-Dibromoethane (Ethylene dibromide); EDB	7.9e-05	2e-05	2e-05	
					1,3-Butadiene	0.0025	0.00061	0.00061	
					1,3-Dichloropropene	4.7e-05	1.2e-05	1.2e-05	
					Acetaldehyde	0.01	0.0026	0.0026	
					Acrolein	0.0098	0.0024	0.0024	
					Benzene	0.0059	0.0015	0.0015	
					Carbon Dioxide	433.99	108.5	108.5	
					Carbon Dioxide Equivalent	434.43	108.61	108.61	
					Carbon Monoxide	4.67	1.17	1.17	
					Carbon tetrachloride	6.6e-05	1.6e-05	1.6e-05	
					Chlorobenzene (Monochlorobenzene)	4.8e-05	1.2e-05	1.2e-05	
					Chloroform	5.1e-05	1.3e-05	1.3e-05	
					Dichloromethane (Methylene chloride)	0.00015	3.8e-05	3.8e-05	
					Ethylbenzene	9.2e-05	2.3e-05	2.3e-05	
					Formaldehyde	0.08	0.02	0.02	
					HAPs - Total	0.12	0.03	0.03	
					Methane	0.0082	0.002	0.002	
					Methanol	0.01	0.0028	0.0028	
					Naphthalene	0.00036	9e-05	9e-05	
					Nitrogen Oxides	2.34	0.58	0.58	
					Nitrous Oxide	0.00082	0.0002	0.0002	
					Particulate Matter	0.07	0.02	0.02	
					PM < 2.5 micron	0.07	0.02	0.02	
					PM < 10 micron	0.07	0.02	0.02	
					Polycyclic organic matter	0.00052	0.00013	0.00013	
					Styrene	4.4e-05	1.1e-06	1.1e-06	
					Sulfur Dioxide	0.0022	0.00055	0.00055	
					Toluene	0.0021	0.00052	0.00052	
					Vinyl chloride (chloroethene)	2.7e-05	6.7e-06	6.7e-06	
					Volatile Organic Compounds	1.17	0.29	0.29	
					Xylenes, Total	0.00072	0.00018	0.00018	
	Separation Equipment	EQUI 6	EU020	1N Churn	Acetaldehyde	4.5e-07	2e-06	2e-06	
					Acrylamide	7.4e-05	0.00032	0.00032	
					Acrylic acid	0.0042	0.02	0.02	
					Acrylonitrile	0.0006	0.0026	0.0026	
					Benzene	0.00048	0.0021	0.0021	
					Chlorine	1.2e-07	5.2e-07	5.2e-07	
					Chlorobenzene (Monochlorobenzene)	0.00017	0.00076	0.00076	
					Cresols/Cresylic acid (isomers and mixture)	1.7e-05	7.5e-05	7.5e-05	
					Cumene (Isopropylbenzene)	4.3e-07	1.9e-06	1.9e-06	
					Ethyl acrylate	4.7e-05	0.00021	0.00021	
					Ethylbenzene	0.0013	0.0058	0.0058	
					Ethylene glycol	1.9e-07	8.4e-07	8.4e-07	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Separation Equipment	EQUI 6	EU020	1N Churn	Formaldehyde	9.2e-06	4e-05	4e-05	
					HAPs - Total	0.48	2.09	2.09	
					Hexane	0.0078	0.003	0.003	
					Methanol	0.00039	0.0017	0.0017	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0012	0.0051	0.0051	
					Methyl methacrylate	1.4e-05	6.3e-05	6.3e-05	
					Naphthalene	1e-08	4.5e-08	4.5e-08	
					Phenol	5.5e-05	0.00024	0.00024	
					Toluene	0.46	2	2	
					Vinyl acetate (Acetic acid)	4.6e-06	2e-05	2e-05	
					Volatile Organic Compounds	2.45	10.74	10.74	
		EQUI 8	EU022	1S Churn	Xylenes, Total	0.0039	0.02	0.02	
					Acetaldehyde	4.5e-07	2e-06	2e-06	
					Acrylamide	7.4e-05	0.00032	0.00032	
					Acrylic acid	0.0042	0.02	0.02	
					Acrylonitrile	0.0006	0.0026	0.0026	
					Benzene	0.00048	0.0021	0.0021	
					Chlorine	1.2e-07	5.2e-07	5.2e-07	
					Chlorobenzene (Monochlorobenzene)	0.00017	0.00076	0.00076	
					Cresols/Cresylic acid (isomers and mixture)	1.7e-05	7.5e-05	7.5e-05	
					Cumene (Isopropylbenzene)	4.3e-07	1.9e-06	1.9e-06	
					Ethyl acrylate	4.7e-05	0.00021	0.00021	
					Ethylbenzene	0.0013	0.0058	0.0058	
					Ethylene glycol	1.9e-07	8.4e-07	8.4e-07	
					Formaldehyde	9.2e-06	4e-05	4e-05	
					HAPs - Total	0.48	2.09	2.09	
					Hexane	0.0078	0.03	0.03	
					Methanol	0.00039	0.0017	0.0017	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0012	0.0051	0.0051	
					Methyl methacrylate	1.4e-05	6.3e-05	6.3e-05	
					Naphthalene	1e-08	4.5e-08	4.5e-08	
					Phenol	5.5e-05	0.00024	0.00024	
					Toluene	0.46	2	2	
					Vinyl acetate (Acetic acid)	4.6e-06	2e-05	2e-05	
					Volatile Organic Compounds	2.45	10.74	10.74	
					Xylenes, Total	0.0039	0.02	0.02	
	Spray Booth/Coating Line	EQUI 15	EU038	6L Precoating Station 1	1,3-Dichloropropene	1.5e-06	0.00013	6.4e-06	
					Acrylic acid	0.0046	0.4	0.02	
					Acrylonitrile	0.00081	0.07	0.0035	
					Benzene	0.0021	0.18	0.0092	
					Bromoform	1.7e-05	0.0015	7.6e-05	
					Chlorobenzene (Monochlorobenzene)	0.03	2.32	0.12	
					Cumene (Isopropylbenzene)	4e-05	0.0035	0.00018	
					Dichloromethane (Methylene chloride)	1.8e-06	0.00015	7.7e-06	
					Ethyl acrylate	0.00041	0.04	0.0018	
					Ethylbenzene	0.02	1.55	0.08	
					Formaldehyde	1.5e-07	1.4e-05	6.8e-07	
					HAPs - Total	5.46	478.69	23.93	
					Hydroquinone	0.00072	0.06	0.0032	
					Methanol	0.0002	0.02	0.00087	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.02	1.48	0.07	
					Methyl methacrylate	0.0044	0.38	0.02	
					Naphthalene	3.3e-07	2.9e-05	1.4e-06	
					Styrene	0.0043	0.38	0.02	
					Toluene	5.18	453.75	22.69	
					Vinyl acetate (Acetic acid)	1.1e-05	0.00095	4.7e-05	
					Vinyl chloride (chloroethene)	6.3e-11	5.5e-09	2.75e-10	
					Volatile Organic Compounds	8.7	762.15	38.11	
		EQUI 17	EU040	6L Precoating Station 2	Xylenes, Total	0.21	18.04	0.9	
					1,3-Dichloropropene	1.8e-06	0.00015	7.7e-06	
					Acrylic acid	0.0055	0.48	0.02	
					Acrylonitrile	0.00097	0.08	0.0042	
					Benzene	0.0025	0.22	0.01	
					Bromoform	2.1e-05	0.0018	9.1e-05	
					Chlorobenzene (Monochlorobenzene)	0.03	2.78	0.14	
					Cumene (Isopropylbenzene)	4.8e-05	0.0042	0.00021	
					Dichloromethane (Methylene chloride)	2.1e-06	0.00018	9.2e-06	
					Ethyl acrylate	0.00049	0.04	0.0022	
					Ethylbenzene	0.02	1.86	0.09	
					Formaldehyde	1.9e-07	1.6e-05	8.1e-07	
					HAPs - Total	6.54	572.63	28.63	
					Hydroquinone	0.00087	0.08	0.0038	
					Methanol	0.00024	0.02	0.001	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.02	1.77	0.09	
					Methyl methacrylate	0.0053	0.46	0.02	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Spray Booth/Coating Line	EQUI 17	EU040	6L Precoating Station 2	Naphthalene	3.9e-07	3.5e-05	1.7e-06	
					Styrene	0.0052	0.45	0.02	
					Toluene	6.2	542.8	27.14	
					Vinyl acetate (Acetic acid)	1.3e-05	0.0011	5.7e-05	
					Vinyl chloride (chloroethene)	7.5e-11	6.6e-09	3.3e-10	
					Volatile Organic Compounds	10.41	911.71	45.59	
					Xylenes, Total	0.25	21.58	1.08	
		EQUI 22	EU103	22 Coating Station	Benzene	0.01	0.05	0.05	
					Cumene (Isopropylbenzene)	6.7e-06	2.9e-05	2.9e-05	
					Ethyl acrylate	8.1e-07	3.5e-06	3.5e-06	
					Ethylbenzene	0.02	0.09	0.09	
					Ethylene glycol	0.13	0.56	0.56	
					HAPs - Total	9.75	42.69	42.69	
					Methanol	0.00026	0.0012	0.0012	
					Methylene diphenyl diisocyanate (MDI)	0.18	0.78	0.78	
					Naphthalene	6.6e-07	2.9e-06	2.9e-06	
					Phosphorus	9.4e-06	4.1e-05	4.1e-05	
					Styrene	6.2e-06	2.7e-05	2.7e-05	
					Toluene	9.33	40.88	40.88	
					Toluene-2,4-diisocyanate	0.0012	0.0052	0.0052	
					Volatile Organic Compounds	27.64	121.06	121.06	
					Xylenes, Total	0.07	0.33	0.33	
		EQUI 27	EU316	LM3 Coating Station 1	HAPs - Total	0.99	4.32	4.32	
					Methanol	0.02	0.08	0.08	
					Toluene	0.97	4.23	4.23	
					Volatile Organic Compounds	71.5	313.17	313.17	
		EQUI 29	EU319	LM3 Coating Station 2	HAPs - Total	0.99	4.32	4.32	
					Methanol	0.02	0.08	0.08	
					Toluene	0.97	4.23	4.23	
					Volatile Organic Compounds	71.5	313.17	313.17	
		EQUI 36	EU330	ST6 Coating Station	Acrylic acid	0.52	2.3	2.3	
					HAPs - Total	0.52	2.3	2.3	
					Volatile Organic Compounds	1.03	4.5	4.5	
		EQUI 38	EU325	ST5 Coating Station & Equipment Leaks	Acrylic acid	0.12	0.54	0.54	
					HAPs - Total	0.12	0.54	0.54	
					Volatile Organic Compounds	0.26	1.58	1.14	
		EQUI 46	EU424	Voyager Coating Station 1	1,4-Dioxane (p-Dioxane)	1.3e-07	1.5e-05	5.8e-07	
					2-Methylaziridine	3.3e-10	3.6e-08	1.4e-09	
					Acetaldehyde	5.9e-06	0.00065	2.6e-05	
					Acrylamide	0.00016	0.02	0.00071	
					Acrylic acid	7e-05	0.0077	0.00031	
					Aziridine	1.8e-08	2e-06	7.9e-08	
					Benzene	0.00011	0.01	0.00048	
					Cumene (Isopropylbenzene)	2.8e-07	3.1e-05	1.2e-06	
					Ethyl acrylate	0.0001	0.01	0.00044	
					Ethylbenzene	7e-05	0.0077	0.00031	
					Ethylene glycol	1.5e-06	0.00017	6.8e-06	
					Formaldehyde	3e-05	0.0033	0.00013	
					HAPs - Total	0.32	34.87	1.39	
					Hexane	1.4e-06	0.00015	6.1e-06	
					Hydroquinone	0.00014	0.01	0.0006	
					Methanol	0.17	18.13	0.73	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.00024	0.03	0.0011	
					Methyl methacrylate	7.9e-05	0.0086	0.00034	
					Naphthalene	6.1e-07	6.7e-05	2.7e-06	
					Toluene	0.15	16.58	0.66	
					Toluene-2,4-diisocyanate	2.1e-08	2.3e-06	9.4e-08	
					Triethylamine	0.00038	0.04	0.0017	
					Volatile Organic Compounds	1	109.27	4.37	
					Xylenes, Total	9.7e-05	0.01	0.00042	
		EQUI 49	EU427	Voyager Coating Station 2	1,4-Dioxane (p-Dioxane)	8.6e-07	9.4e-05	3.8e-06	
					2-Methylaziridine	2.1e-09	2.3e-07	9.2e-09	
					Acetaldehyde	3.8e-05	0.0042	0.00017	
					Acrylamide	0.001	0.11	0.0046	
					Acrylic acid	0.00045	0.05	0.002	
					Aziridine	1.2e-07	1.3e-05	5.1e-07	
					Benzene	0.00071	0.08	0.0031	
					Cumene (Isopropylbenzene)	1.8e-06	0.0002	7.9e-06	
					Ethyl acrylate	0.00065	0.07	0.0028	
					Ethylbenzene	0.00045	0.05	0.002	
					Ethylene glycol	1e-05	0.0011	4.4e-05	
					Formaldehyde	0.0002	0.02	0.00085	
					HAPs - Total	2.06	225.33	9.01	
					Hexane	8.9e-06	0.00098	3.9e-05	
					Hydroquinone	0.00088	0.1	0.0039	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
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SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Spray Booth/Coating Line	EQUI 49	EU427	Voyager Coating Station 2	Methanol	1.07	117.15	4.69	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0016	0.17	0.0069	
					Methyl methacrylate	0.00051	0.06	0.0022	
					Naphthalene	3.9e-06	0.00043	1.7e-05	
					Toluene	0.98	107.12	4.28	
					Toluene-2,4-diisocyanate	1.4e-07	1.5e-05	6e-07	
					Triethylamine	0.0025	0.27	0.01	
					Volatile Organic Compounds	6.45	706.01	28.24	
		EQUI 71	EU412	ST7 Coating Station	Xylenes, Total	0.00063	0.07	0.0027	
					Acrylic acid	0.105	0.46	0.46	
					HAPs - Total		0.46	0.46	
		EQUI 101	EU370	Enterprise Coating Station	Volatile Organic Compounds	0.205	0.9	0.9	
					1,4-Dioxane (p-Dioxane)	1.9e-08	2.1e-06	8.3e-08	
					2-Methylaziridine	2.1e-08	2.3e-06	9.3e-08	
					Acetaldehyde	2.3e-07	2.6e-05	1e-06	
					Acrylamide	1.2e-05	0.0013	5.4e-05	
					Acrylic acid	0.0084	0.92	0.04	
					Benzene	0.0016	0.17	0.0069	
					Chlorine	1.8e-06	0.0002	7.9e-06	
					Cumene (Isopropylbenzene)	9.7e-06	0.0011	4.3e-05	
					Ethyl acrylate	0.01	1.46	0.06	
					Ethylbenzene	0.0012	0.14	0.0054	
					Ethylene oxide	1.9e-08	2.1e-06	8.3e-08	
					Formaldehyde	0.002	0.22	0.0089	
					HAPs - Total	2.94	321.64	12.87	
					Hydrochloric acid	2.4e-09	2.6e-07	1e-08	
					Hydroquinone	4.9e-06	0.00053	2.1e-05	
					Methanol	0.8	87.68	3.51	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.00071	0.08	0.0031	
					Methyl methacrylate	5.1e-05	0.0055	0.00022	
					Naphthalene	1.7e-05	0.0018	7.3e-05	
					Toluene	2.09	228.47	9.14	
					Triethylamine	0.02	2.28	0.09	
					Volatile Organic Compounds	10.96	1,199.68	47.99	
		EQUI 112	EU381	6L Coating Station/Oven	Xylenes, Total	0.0019	0.21	0.0085	
					1,3-Dichloropropene	2.1e-06	9.1e-06	9.1e-06	
					1,4-Dichlorobenzene (para-)	3.2e-06	1.4e-05	1.4e-05	
					Acrylic acid	0.0065	0.03	0.03	
					Acrylonitrile	0.0012	0.005	0.005	
					Arsenic compounds	5.4e-07	2.4e-06	2.4e-06	
					Benzene	0.003	0.01	0.01	
					Beryllium Compounds	3.2e-08	1.4e-07	1.4e-07	
					Bromoform	2.5e-05	0.00011	0.00011	
					Cadmium compounds	3e-06	1.3e-05	1.3e-05	
					Carbon Dioxide	321.6	1,408.59	1,408.59	
					Carbon Dioxide Equivalent	321.93	1,410.05	1,410.05	
					Carbon Monoxide	0.23	0.99	0.99	
					Chlorobenzene (Monochlorobenzene)	0.04	0.17	0.17	
					Chromium compounds	3.8e-06	1.7e-05	1.7e-05	
					Cobalt compounds	2.3e-07	9.9e-07	9.9e-07	
					Cumene (Isopropylbenzene)	5.75e-05	0.00025	0.00025	
					Dichloromethane (Methylene chloride)	2.5e-06	1.1e-05	1.1e-05	
					Ethyl acrylate	0.00058	0.0026	0.0026	
					Ethylbenzene	0.03	0.11	0.11	
					Formaldehyde	0.0002	0.00089	0.00089	
					HAPs - Total	7.78	34.07	34.07	
					Hexane	0.0049	0.02	0.02	
					Hydroquinone	0.001	0.0045	0.0045	
					Lead Compounds	1.3e-06	5.9e-06	5.9e-06	
					Manganese compounds	1e-06	4.5e-06	4.5e-06	
					Mercury Compounds	7e-07	3.1e-06	3.1e-06	
					Methane	0.0061	0.03	0.03	
					Methanol	0.00028	0.0012	0.0012	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.02	0.11	0.11	
					Methyl methacrylate	0.0062	0.03	0.03	
					Naphthalene	2.1e-06	9.3e-06	9.3e-06	
					Nickel compounds	5.7e-06	2.5e-05	2.5e-05	
					Nitrogen Oxides	0.27	1.18	1.18	
					Nitrous Oxide	0.00061	0.0027	0.0027	
					Particulate Matter	0.02	0.09	0.09	
					PM < 2.5 micron	0.02	0.09	0.09	
					PM < 10 micron	0.02	0.09	0.09	
					Polycyclic organic matter	2.4e-07	1e-06	1e-06	
					Selenium compounds	6.5e-08	2.8e-07	2.8e-07	
					Styrene	0.0062	0.03	0.03	

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Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Spray Booth/Coating Line	EQUI 112	EU381	6L Coating Station/Oven	Sulfur Dioxide	0.0016	0.0071	0.0071	
					Toluene	7.37	32.27	32.27	
					Vinyl acetate (Acetic acid)	1.5e-05	6.7e-05	6.7e-05	
					Vinyl chloride (chloroethene)	8.9e-11	3.9e-10	3.9e-10	
					Volatile Organic Compounds	12.39	54.27	54.27	
					Xylenes, Total	0.29	1.28	1.28	
		EQUI 130	EU355	3L Coating Station 1	1,3-Dichloropropene	1.3e-09	1.1e-07	5.7e-09	
					1,4-Dioxane (p-Dioxane)	3.2e-09	2.8e-07	1.4e-08	
					3,3-Dichlorobenzidine	4.1e-09	3.6e-07	1.8e-08	
					Acetaldehyde	2.3e-07	2e-05	1e-06	
					Acrylic acid	0.0012	0.11	0.0054	
					Acrylonitrile	1.4e-07	1.2e-05	6.1e-07	
					Benzene	0.0024	0.21	0.01	
					Bromoform	2.8e-10	2.5e-08	1.2e-09	
					Chlorobenzene (Monochlorobenzene)	0.0029	0.25	0.01	
					Cresols/Cresylic acid (isomers and mixture)	1.4e-05	0.0012	6.2e-05	
					Cumene (Isopropylbenzene)	0.00019	0.02	0.00085	
					Dichloromethane (Methylene chloride)	1.3e-09	1.1e-07	5.7e-09	
					Ethyl acrylate	3.7e-05	0.0033	0.00016	
					Ethylbenzene	0.03	2.39	0.12	
					Ethylene glycol	0.00018	0.02	0.00079	
					Ethylene oxide	2.1e-10	1.9e-08	9.4e-10	
					Formaldehyde	3.1e-06	0.00027	1.4e-05	
					HAPs - Total	3.02	264.83	13.24	
					Hexachlorobenzene	1.6e-09	1.4e-07	6.9e-09	
					Hexane	1.8e-07	1.6e-05	7.9e-07	
					Hydroquinone	0.00013	0.01	0.00056	
					Maleic anhydride	1.5e-06	0.00013	6.6e-06	
					Methanol	0.0019	0.16	0.0082	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0031	0.27	0.01	
					Methyl methacrylate	1.7e-05	0.0015	7.6e-05	
					Naphthalene	7e-07	6.1e-05	3.1e-06	
					Phenol	4.4e-05	0.0038	0.00019	
					Styrene	2.7e-06	0.00023	1.2e-05	
					Toluene	2.9	253.77	12.69	
					Vinyl acetate (Acetic acid)	7.4e-05	0.0065	0.00033	
					Volatile Organic Compounds	4.75	415.89	20.79	
					Xylenes, Total	0.09	7.85	0.39	
		EQUI 132	EU357	3L Coating Station 2	1,3-Dichloropropene	7.5e-10	6.6e-08	3.3e-09	
					1,4-Dioxane (p-Dioxane)	1.8e-09	1.6e-07	8.1e-09	
					3,3-Dichlorobenzidine	2.4e-09	2.1e-07	1e-08	
					Acetaldehyde	1.3e-07	1.2e-05	5.8e-07	
					Acrylic acid	0.00071	0.06	0.0031	
					Acrylonitrile	8e-08	7e-06	3.5e-07	
					Benzene	0.0014	0.12	0.0061	
					Bromoform	1.6e-10	1.4e-08	7.1e-10	
					Chlorobenzene (Monochlorobenzene)	0.0017	0.15	0.0073	
					Cresols/Cresylic acid (isomers and mixture)	8.1e-06	0.00071	3.6e-05	
					Cumene (Isopropylbenzene)	0.00011	0.0098	0.00049	
					Dichloromethane (Methylene chloride)	7.5e-10	6.6e-08	3.3e-09	
					Ethyl acrylate	2.2e-05	0.0019	9.5e-05	
					Ethylbenzene	0.02	1.38	0.07	
					Ethylene glycol	0.0001	0.0092	0.00046	
					Ethylene oxide	1.2e-10	1.1e-08	5.4e-10	
					Formaldehyde	1.8e-06	0.00016	7.8e-06	
					HAPs - Total	1.75	153.17	7.66	
					Hexachlorobenzene	9.1e-10	8e-08	4e-09	
					Hexane	1e-07	9.2e-06	4.6e-07	
					Hydroquinone	4.3e-05	0.0064	0.00032	
					Maleic anhydride	8.7e-07	7.6e-05	3.8e-06	
					Methanol	0.0011	0.09	0.0047	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0018	0.16	0.0079	
					Methyl methacrylate	1e-05	0.00088	4.4e-05	
					Naphthalene	4.1e-07	3.6e-05	1.8e-06	
					Phenol	2.5e-05	0.0022	0.00011	
					Styrene	1.5e-06	0.00013	6.7e-06	
					Toluene	1.67	146.63	7.33	
					Vinyl acetate (Acetic acid)	4.3e-05	0.0038	0.00019	
					Volatile Organic Compounds	2.74	240.3	12.01	
					Xylenes, Total	0.05	4.54	0.23	
		EQUI 134	EU359	3L Coating Station 3	1,3-Dichloropropene	1.3e-09	1.1e-07	5.7e-09	
					1,4-Dioxane (p-Dioxane)	3.2e-09	2.8e-07	1.4e-08	
					3,3-Dichlorobenzidine	4.1e-09	3.6e-07	1.8e-08	
					Acetaldehyde	2.3e-07	2e-05	1e-06	
					Acrylic acid	0.0012	0.11	0.0054	

PTE by SI

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Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Spray Booth/Coating Line	EQUI 134	EU359	3L Coating Station 3	Acrylonitrile	1.4e-07	1.2e-05	6.1e-07	
					Benzene	0.0024	0.21	0.01	
					Bromoform	2.8e-10	2.5e-08	1.2e-09	
					Chlorobenzene (Monochlorobenzene)	0.0029	0.25	0.01	
					Cresols/Cresylic acid (isomers and mixture)	1.4e-05	0.0012	6.2e-05	
					Cumene (Isopropylbenzene)	0.00019	0.02	0.00085	
					Dichloromethane (Methylene chloride)	1.3e-09	1.1e-07	5.7e-09	
					Ethyl acrylate	3.7e-05	0.0033	0.00016	
					Ethylbenzene	0.03	2.39	0.12	
					Ethylene glycol	0.00018	0.02	0.00079	
					Ethylene oxide	2.1e-10	1.9e-08	9.4e-10	
					Formaldehyde	3.1e-06	0.00027	1.4e-05	
					HAPs - Total	3.03	265.09	13.25	
					Hexachlorobenzene	1.6e-09	1.4e-07	6.9e-09	
					Hexane	1.8e-07	1.6e-05	7.9e-07	
					Hydroquinone	0.00013	0.01	0.00056	
					Maleic anhydride	1.5e-06	0.00013	6.6e-06	
					Methanol	0.0019	0.16	0.0082	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0031	0.27	0.01	
					Methyl methacrylate	1.7e-05	0.0015	7.6e-05	
					Naphthalene	7e-07	6.1e-05	3.1e-06	
					Phenol	4.4e-05	0.0038	0.00019	
					Styrene	2.7e-06	0.00023	1.2e-05	
					Toluene	2.9	253.77	12.69	
					Vinyl acetate (Acetic acid)	7.4e-05	0.0065	0.00033	
					Volatile Organic Compounds	4.75	415.89	20.79	
					Xylenes, Total	0.09	7.85	0.39	
		EQUI 136	EU361	3L Coating Station 4	1,3-Dichloropropene	7.5e-10	6.6e-08	3.3e-09	
					1,4-Dioxane (p-Dioxane)	1.8e-09	1.6e-07	8.1e-09	
					3,3-Dichlorobenzidine	2.4e-09	2.1e-07	1e-08	
					Acetaldehyde	1.3e-07	1.2e-05	5.8e-07	
					Acrylic acid	0.00071	0.06	0.0031	
					Acrylonitrile	8e-08	7e-06	3.5e-07	
					Benzene	0.0014	0.12	0.0061	
					Bromoform	1.6e-10	1.4e-08	7.1e-10	
					Chlorobenzene (Monochlorobenzene)	0.0017	0.15	0.0073	
					Cresols/Cresylic acid (isomers and mixture)	8.1e-06	0.00071	3.6e-05	
					Cumene (Isopropylbenzene)	0.00011	0.0098	0.00049	
					Dichloromethane (Methylene chloride)	7.5e-10	6.6e-08	3.3e-09	
					Ethyl acrylate	2.2e-05	0.0019	9.5e-05	
					Ethylbenzene	0.02	1.38	0.07	
					Ethylene glycol	0.0001	0.0092	0.00046	
					Ethylene oxide	1.2e-10	1.1e-08	5.4e-10	
					Formaldehyde	1.8e-06	0.00016	7.8e-06	
					HAPs - Total	1.75	153.17	7.66	
					Hexachlorobenzene	9.1e-10	8e-08	4e-09	
					Hexane	1e-07	9.2e-06	4.6e-07	
					Hydroquinone	7.3e-05	0.0064	0.00032	
					Maleic anhydride	8.7e-07	7.6e-05	3.8e-06	
					Methanol	0.0011	0.09	0.0047	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0018	0.16	0.0079	
					Methyl methacrylate	1e-05	0.00088	4.4e-05	
					Naphthalene	4.1e-07	3.6e-05	1.8e-06	
					Phenol	2.5e-05	0.0022	0.00011	
					Styrene	1.5e-06	0.00013	6.7e-06	
					Toluene	1.67	146.63	7.33	
					Vinyl acetate (Acetic acid)	4.3e-05	0.0038	0.00019	
					Volatile Organic Compounds	2.74	240.3	12.01	
					Xylenes, Total	0.05	4.54	0.23	
		EQUI 138	EU363	3L Coating Station 5	1,3-Dichloropropene	7.5e-10	6.6e-08	3.3e-09	
					1,4-Dioxane (p-Dioxane)	1.8e-09	1.6e-07	8.1e-09	
					3,3-Dichlorobenzidine	2.4e-09	2.1e-07	1e-08	
					Acetaldehyde	1.3e-07	1.2e-05	5.8e-07	
					Acrylic acid	0.00071	0.06	0.0031	
					Acrylonitrile	8e-08	7e-06	3.5e-07	
					Benzene	0.0014	0.12	0.0061	
					Bromoform	1.6e-10	1.4e-08	7.1e-10	
					Chlorobenzene (Monochlorobenzene)	0.0017	0.15	0.0073	
					Cresols/Cresylic acid (isomers and mixture)	8.1e-06	0.00071	3.6e-05	
					Cumene (Isopropylbenzene)	0.00011	0.0098	0.00049	
					Dichloromethane (Methylene chloride)	7.5e-10	6.6e-08	3.3e-09	
					Ethyl acrylate	2.2e-05	0.0019	9.5e-05	
					Ethylbenzene	0.02	1.38	0.07	
					Ethylene glycol	0.0001	0.0092	0.00046	
					Ethylene oxide	1.2e-10	1.1e-08	5.4e-10	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Spray Booth/Coating Line	EQUI 138	EU363	3L Coating Station 5	Formaldehyde	1.8e-06	0.00016	7.8e-06	
					HAPs - Total	1.75	153.17	7.66	
					Hexachlorobenzene	9.1e-10	8e-08	4e-09	
					Hexane	1e-07	9.2e-06	4.6e-07	
					Hydroquinone	7.3e-05	0.0064	0.00032	
					Maleic anhydride	8.7e-07	7.6e-05	3.8e-06	
					Methanol	0.0011	0.09	0.0047	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0018	0.16	0.0079	
					Methyl methacrylate	1e-05	0.00088	4.4e-05	
					Naphthalene	4.1e-07	3.6e-05	1.8e-06	
					Phenol	2.5e-05	0.0022	0.00011	
					Styrene	1.5e-06	0.00013	6.7e-06	
					Toluene	1.67	146.63	7.33	
					Vinyl acetate (Acetic acid)	4.3e-05	0.0038	0.00019	
					Volatile Organic Compounds	2.74	240.3	12.01	
					Xylenes, Total	0.05	4.54	0.23	
		EQUI 140	EU365	3L Coating Station 6	1,3-Dichloropropene	5.2e-09	4.6e-07	2.3e-08	
					1,4-Dioxane (p-Dioxane)	1.3e-08	1.1e-06	5.6e-08	
					3,3-Dichlorobenzidine	1.6e-08	1.4e-06	7.2e-08	
					Acetaldehyde	9.2e-07	8e-05	4e-06	
					Acrylic acid	0.0049	0.43	0.02	
					Acrylonitrile	5.5e-07	4.9e-05	2.4e-06	
					Benzene	0.0097	0.85	0.04	
					Bromoform	1.1e-09	9.9e-08	4.9e-09	
					Chlorobenzene (Monochlorobenzene)	0.01	1.02	0.05	
					Cresols/Cresylic acid (isomers and mixture)	5.6e-05	0.0049	0.00025	
					Cumene (Isopropylbenzene)	0.00077	0.07	0.0034	
					Dichloromethane (Methylene chloride)	5.2e-09	4.6e-07	2.3e-08	
					Ethyl acrylate	0.00015	0.01	0.00065	
					Ethylbenzene	0.11	9.57	0.48	
					Ethylene glycol	0.00072	0.06	0.0032	
					Ethylene oxide	8.6e-10	7.5e-08	3.8e-09	
					Formaldehyde	1.2e-05	0.0011	5.4e-05	
					HAPs - Total	12.09	1,059.37	52.97	
					Hexachlorobenzene	6.3e-09	5.5e-07	2.8e-08	
					Hexane	7.2e-07	6.3e-05	3.2e-06	
					Hydroquinone	0.00051	0.04	0.0022	
					Maleic anhydride	6e-06	0.00053	2.6e-05	
					Methanol	0.0075	0.66	0.03	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.01	1.1	0.05	
					Methyl methacrylate	6.9e-05	0.0061	0.0003	
					Naphthalene	2.8e-06	0.00025	1.2e-05	
					Phenol	0.00018	0.02	0.00077	
					Styrene	1.1e-05	0.00093	4.7e-05	
					Toluene	11.59	1,015.12	50.76	
					Vinyl acetate (Acetic acid)	0.0003	0.03	0.0013	
					Volatile Organic Compounds	18.99	1,663.6	83.18	
					Xylenes, Total	0.36	31.42	1.57	
		EQUI 157	EU414	8L Precoating Station 1	1,1-Dichloroethylene (Vinylidene chloride)	0.00027	0.0012	0.0012	
					Acrylic acid	0.0017	0.0072	0.0072	
					Acrylonitrile	0.00016	0.00068	0.00068	
					Bromoform	4.9e-06	2.1e-05	2.1e-05	
					Chloromethane	1.1e-06	4.8e-06	4.8e-06	
					HAPs - Total	0.02	0.08	0.08	
					Hydroquinone	0.00016	0.0007	0.0007	
					Methanol	1.3e-07	5.9e-07	5.9e-07	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	9.4e-08	4.1e-07	4.1e-07	
					Methyl methacrylate	0.0012	0.0054	0.0054	
					Styrene	0.0012	0.0054	0.0054	
					Toluene	0.01	0.06	0.06	
					Triethylamine	1.3e-05	5.9e-05	5.9e-05	
					Volatile Organic Compounds	0.06	0.27	0.27	
		EQUI 159	EU416	8L Precoating Station 2	1,1-Dichloroethylene (Vinylidene chloride)	0.0021	0.0093	0.0093	
					Acrylic acid	0.01	0.06	0.06	
					Acrylonitrile	0.0012	0.0053	0.0053	
					Bromoform	3.8e-05	0.00017	0.00017	
					Chloromethane	8.6e-06	3.8e-05	3.8e-05	
					HAPs - Total	0.14	0.62	0.62	
					Hydroquinone	0.0013	0.0055	0.0055	
					Methanol	1e-06	4.6e-06	4.6e-06	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	7.3e-07	3.2e-06	3.2e-06	
					Methyl methacrylate	0.0096	0.04	0.04	
					Styrene	0.0096	0.04	0.04	
					Toluene	0.1	0.46	0.46	
					Triethylamine	0.0001	0.00046	0.00046	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Spray Booth/Coating Line	EQUI 159	EU416	8L Precoating Station 2	Volatile Organic Compounds	0.48	2.12	2.12	
					1,4-Dioxane (p-Dioxane)	9.7e-06	4.2e-05	4.2e-05	
					Acetaldehyde	1.8e-07	7.8e-07	7.8e-07	
					Acrylamide	0.05	0.22	0.22	
					Acrylonitrile	4.9e-05	0.00021	0.00021	
					Chlorine	0.0021	0.0091	0.0091	
					Ethylbenzene	4.9e-05	0.00021	0.00021	
					Ethylene oxide	9.7e-06	4.2e-05	4.2e-05	
					Formaldehyde	0.45	1.95	1.95	
					HAPs - Total	0.54	2.35	2.35	
					Lead Compounds	3.4e-06	1.5e-05	1.5e-05	
					Styrene	4.9e-05	0.00021	0.00021	
					Volatile Organic Compounds	15	65.7	65.7	
		EQUI 196	EU003	1L Precoating Station 1	Acetaldehyde	8.4e-07	7.4e-05	3.7e-06	
					Acrylamide	0.00014	0.01	0.00061	
					Acrylic acid	0.008	0.7	0.03	
					Acrylonitrile	0.0011	0.1	0.0049	
					Benzene	0.00091	0.08	0.004	
					Chlorine	2.3e-07	2e-05	9.9e-07	
					Chlorobenzene (Monochlorobenzene)	0.00033	0.03	0.0014	
					Cresols/Cresylic acid (isomers and mixture)	3.2e-05	0.0028	0.00014	
					Cumene (Isopropylbenzene)	8.2e-07	7.2e-05	3.6e-06	
					Ethyl acrylate	8.9e-05	0.0078	0.00039	
					Ethylbenzene	0.0025	0.22	0.01	
					Ethylene glycol	3.6e-07	3.2e-05	1.6e-06	
					Formaldehyde	1.7e-05	0.0015	7.6e-05	
					HAPs - Total	0.9	79.19	3.96	
					Hexane	0.01	1.3	0.06	
					Methanol	0.00074	0.06	0.0032	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0022	0.19	0.0096	
					Methyl methacrylate	2.7e-05	0.0024	0.00012	
					Naphthalene	1.9e-08	1.7e-06	8.4e-08	
					Phenol	0.0001	0.0091	0.00046	
					Toluene	0.87	75.83	3.79	
					Vinyl acetate (Acetic acid)	8.7e-06	0.00076	3.8e-05	
					Vinyl chloride (chloroethene)	1.8e-11	1.6e-09	7.9e-11	
					Volatile Organic Compounds	4.64	406.47	20.32	
					Xylenes, Total	0.0074	0.65	0.03	
		EQUI 198	EU005	1L Precoating Station 2	Acetaldehyde	8.4e-07	7.4e-05	3.7e-06	
					Acrylamide	0.00014	0.01	0.00061	
					Acrylic acid	0.008	0.7	0.03	
					Acrylonitrile	0.0011	0.1	0.0049	
					Benzene	0.00091	0.08	0.004	
					Chlorine	2.3e-07	2e-05	9.9e-07	
					Chlorobenzene (Monochlorobenzene)	0.00033	0.03	0.0014	
					Cresols/Cresylic acid (isomers and mixture)	3.2e-05	0.0028	0.00014	
					Cumene (Isopropylbenzene)	8.2e-07	7.2e-05	3.6e-06	
					Ethyl acrylate	8.9e-05	0.0078	0.00039	
					Ethylbenzene	0.0025	0.22	0.01	
					Ethylene glycol	3.6e-07	3.2e-05	1.6e-06	
					Formaldehyde	1.7e-05	0.0015	7.6e-05	
					HAPs - Total	0.9	79.19	3.96	
					Hexane	0.01	1.3	0.06	
					Methanol	0.00074	0.06	0.0032	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.0022	0.19	0.0096	
					Methyl methacrylate	2.7e-05	0.0024	0.00012	
					Naphthalene	1.9e-08	1.7e-06	8.4e-08	
					Phenol	0.0001	0.0091	0.00046	
					Toluene	0.87	75.83	3.79	
					Vinyl acetate (Acetic acid)	8.7e-06	0.00076	3.8e-05	
					Vinyl chloride (chloroethene)	1.8e-11	1.6e-09	7.9e-11	
					Volatile Organic Compounds	4.64	406.47	20.32	
					Xylenes, Total	0.0074	0.65	0.03	
		EQUI 200	EU007	1L Coating Station	Acetaldehyde	6.6e-06	0.00058	2.9e-05	
					Acrylamide	0.0011	0.1	0.0048	
					Acrylic acid	0.06	5.46	0.27	
					Acrylonitrile	0.0088	0.77	0.04	
					Benzene	0.0071	0.62	0.03	
					Chlorine	1.8e-06	0.00016	7.8e-06	
					Chlorobenzene (Monochlorobenzene)	0.0026	0.22	0.01	
					Cresols/Cresylic acid (isomers and mixture)	0.00025	0.02	0.0011	
					Cumene (Isopropylbenzene)	6.4e-06	0.00056	2.8e-05	
					Ethyl acrylate	0.0007	0.06	0.0031	
					Ethylbenzene	0.02	1.71	0.09	
					Ethylene glycol	2.8e-06	0.00025	1.2e-05	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Spray Booth/Coating Line	EQUI 200	EU007	1L Coating Station	Formaldehyde	0.00014	0.01	0.0006	
					HAPs - Total	7.07	619.44	30.97	
					Hexane	0.12	10.16	0.51	
					Methanol	0.0058	0.5	0.03	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.02	1.5	0.07	
					Methyl methacrylate	0.00021	0.02	0.00094	
					Naphthalene	1.5e-07	1.3e-05	6.6e-07	
					Phenol	0.00081	0.07	0.0036	
					Toluene	6.77	593.15	29.66	
					Vinyl acetate (Acetic acid)	6.8e-05	0.0059	0.0003	
					Vinyl chloride (chloroethene)	1.4e-10	1.2e-08	6.2e-10	
					Volatile Organic Compounds	36.3	3,179.55	158.98	
					Xylenes, Total	0.06	5.06	0.25	
		EQUI 203	EU113	27 Coating Station	Acrylamide	0.0037	0.41	0.02	
					Acrylic acid	0.0021	0.23	0.0093	
					Acrylonitrile	4.2e-08	4.6e-06	1.8e-07	
					Benzene	0.0023	0.26	0.01	
					Cresols/Cresylic acid (isomers and mixture)	0.00033	0.04	0.0015	
					Cumene (Isopropylbenzene)	4.6e-07	5e-05	2e-06	
					Ethyl acrylate	0.00068	0.07	0.003	
					Ethylbenzene	0.03	3.68	0.15	
					HAPs - Total	4.07	445.44	17.82	
					Hydroquinone	2e-05	0.0021	8.6e-05	
					Maleic anhydride	1.3e-06	0.00014	5.7e-06	
					Methanol	0.91	99.53	3.98	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.38	41.62	1.66	
					Methyl methacrylate	0.00065	0.07	0.0028	
					Naphthalene	1.2e-08	1.3e-06	5.4e-08	
					Phenol	0.00099	0.11	0.0044	
					Toluene	2.58	282.41	11.3	
					Toluene-2,4-diisocyanate	4.1e-07	4.4e-05	1.8e-06	
					Vinyl acetate (Acetic acid)	0.001	0.11	0.0045	
					Volatile Organic Compounds	20.73	2,269.91	90.8	
					Xylenes, Total	0.15	16.9	0.68	
		EQUI 205	EU115	28 Coating Station	Acrylic acid	0.66	2.89	2.89	
					Benzene	3.9e-05	0.00017	0.00017	
					HAPs - Total	2.15	9.42	9.42	
					Hexamethylene-1,6-diisocyanate	0.96	4.22	4.22	
					Maleic anhydride	0.002	0.0085	0.0085	
					Toluene	0.52	2.3	2.3	
		EQUI 209	EU111	26 Coating Station	Volatile Organic Compounds	13.2	57.82	57.82	
					1,1-Dichloroethylene (Vinylidene chloride)	1e-12	1.4e-11	1e-12	
					1,4-Dioxane (p-Dioxane)	1e-12	1e-12	1e-12	
					Acetaldehyde	1e-12	3e-12	1e-12	
					Acrylamide	1e-09	1.1e-07	4.6e-09	
					Acrylic acid	4.3e-11	4.7e-09	1.9e-10	
					Acrylonitrile	1e-12	1e-12	1e-12	
					Benzene	1.8e-11	2e-09	7.9e-11	
					Chromium compounds	1e-11	1.1e-09	4.3e-11	
					Cumene (Isopropylbenzene)	2e-12	2.4e-10	1e-11	
					Ethylbenzene	2.3e-11	2.5e-09	1e-10	
					Ethylene oxide	1e-12	1e-12	1e-12	
					Formaldehyde	1e-12	1e-12	1e-12	
					HAPs - Total	1.1e-07	1.2e-05	5e-07	
					Hydroquinone	1e-12	1.1e-10	5e-12	
					Methanol	1.8e-09	2e-07	7.9e-09	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	1.3e-09	1.5e-07	5.9e-09	
					Methyl methacrylate	4e-12	4.8e-10	1.9e-11	
					Naphthalene	1e-12	1e-12	1e-12	
					Styrene	1e-12	1e-12	1e-12	
					Toluene	1.1e-07	1.2e-05	4.8e-07	
					Toluene-2,4-diisocyanate	1e-12	1e-12	1e-12	
					Triethylamine	2.7e-11	3e-09	1.2e-10	
					Volatile Organic Compounds	12.23	1,339.25	53.57	
					Xylenes, Total	2.9e-11	3.2e-09	1.3e-10	
		EQUI 242	Null	APF1 Coating Applicator 1	Volatile Organic Compounds	0.06	0.28	0.28	
		EQUI 244	Null	APF2 Coating Applicator 1	Volatile Organic Compounds	0.06	0.28	0.28	
		EQUI 275	Null	LM3 Corona Treater	Volatile Organic Compounds	0.54	2.37	2.37	
		EQUI 276	Null	27 Corona Treater	Volatile Organic Compounds	0.36	1.58	1.58	
		EQUI 277	Null	5L Corona Treater	Volatile Organic Compounds	0.29	1.26	1.26	
		EQUI 279	Null	ST7 Corona Treater	Volatile Organic Compounds	0.72	3.15	3.15	
		EQUI 281	Null	Print Station 1 (SFS109)	Volatile Organic Compounds	0.004	0.02	0.02	
	Stripping Equipment	EQUI 184	EU032	5L SRU Stripper	1,3-Butadiene	3.3e-06	1.4e-05	1.4e-05	
					Acetaldehyde	9.2e-07	4e-06	4e-06	
					Benzene	0.0022	0.0096	0.0096	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Stripping Equipment	EQUI 184	EU032	5L SRU Stripper	Ethylbenzene	0.02	0.09	0.09	
					Ethylene glycol	1.1e-07	5e-07	5e-07	
					Formaldehyde	0.0013	0.0059	0.0059	
					HAPs - Total	6.05	26.5	26.5	
					Hexane	2.31	10.1	10.1	
					Methanol	0.05	0.2	0.2	
					Methyl isobutyl ketone (4-Methyl-2-pentanone)	0.02	0.07	0.07	
					Toluene	3.61	15.81	15.81	
					Volatile Organic Compounds	46.11	201.97	201.97	
					Xylenes, Total	0.05	0.21	0.21	
Fugitive	Cooling Tower	FUGI 9	Null	Cooling Tower 19-CT-01	Particulate Matter	0.5	2.19	2.19	
					PM < 2.5 micron	0.5	2.19	2.19	
					PM < 10 micron	0.5	2.19	2.19	
		FUGI 10	Null	Cooling Tower 19-CT-02	Particulate Matter	0.5	2.19	2.19	
					PM < 2.5 micron	0.5	2.19	2.19	
					PM < 10 micron	0.5	2.19	2.19	
		FUGI 11	Null	Cooling Tower 19-CT-03	Particulate Matter	0.75	3.29	3.29	
					PM < 2.5 micron	0.75	3.29	3.29	
					PM < 10 micron	0.75	3.29	3.29	
		FUGI 12	Null	Cooling Tower 14-CT-01F	Particulate Matter	0.62	2.71	2.71	
					PM < 2.5 micron	0.62	2.71	2.71	
					PM < 10 micron	0.62	2.71	2.71	
		FUGI 13	Null	Cooling Tower 14-CT-02F	Particulate Matter	0.62	2.71	2.71	
					PM < 2.5 micron	0.62	2.71	2.71	
					PM < 10 micron	0.62	2.71	2.71	
		FUGI 14	Null	Cooling Tower 14-CT-01B	Particulate Matter	0.56	2.47	2.47	
					PM < 2.5 micron	0.56	2.47	2.47	
					PM < 10 micron	0.56	2.47	2.47	
		FUGI 15	Null	Cooling Tower 14-CT-02B	Particulate Matter	0.56	2.47	2.47	
					PM < 2.5 micron	0.56	2.47	2.47	
					PM < 10 micron	0.56	2.47	2.47	
		FUGI 16	Null	Cooling Tower 26-CT-01	Particulate Matter	0.3	1.32	1.32	
					PM < 2.5 micron	0.3	1.32	1.32	
					PM < 10 micron	0.3	1.32	1.32	
		FUGI 17	Null	Cooling Tower 14-CT-01H	Particulate Matter	0.75	3.29	3.29	
					PM < 2.5 micron	0.75	3.29	3.29	
					PM < 10 micron	0.75	3.29	3.29	
		FUGI 18	Null	Cooling Tower 14-CT-01P	Particulate Matter	0.6	2.63	2.63	
					PM < 2.5 micron	0.6	2.63	2.63	
					PM < 10 micron	0.6	2.63	2.63	
Treatment	131-Thermal Oxidizer	TREA 6	CE018	Voyager Thermal Oxidizer	1,4-Dichlorobenzene (para-)	9.6e-06	4.2e-05	4.2e-05	
					Arsenic compounds	1.6e-06	7e-06	7e-06	
					Benzene	1.7e-05	7.4e-05	7.4e-05	
					Beryllium Compounds	9.6e-08	4.2e-07	4.2e-07	
					Cadmium compounds	8.8e-06	3.9e-05	3.9e-05	
					Carbon Dioxide	958.94	4,200.17	4,200.17	
					Carbon Dioxide Equivalent	959.93	4,204.51	4,204.51	
					Carbon Monoxide	0.68	2.96	2.96	
					Chromium compounds	1.1e-05	4.9e-05	4.9e-05	
					Cobalt compounds	6.8e-07	3e-06	3e-06	
					Formaldehyde	0.0006	0.0026	0.0026	
					HAPs - Total	0.02	0.07	0.07	
					Hexane	0.01	0.06	0.06	
					Lead Compounds	4e-06	1.8e-05	1.8e-05	
					Manganese compounds	3.1e-06	1.3e-05	1.3e-05	
					Mercury Compounds	2.1e-06	9.2e-06	9.2e-06	
					Methane	0.02	0.08	0.08	
					Naphthalene	4.9e-06	2.1e-05	2.1e-05	
					Nickel compounds	1.7e-05	7.4e-05	7.4e-05	
					Nitrogen Oxides	2.25	9.86	9.86	
					Nitrous Oxide	0.0018	0.0079	0.0079	
					Particulate Matter	0.06	0.27	0.27	
					PM < 2.5 micron	0.06	0.27	0.27	
					PM < 10 micron	0.06	0.27	0.27	
					Polycyclic organic matter	7.1e-07	3.1e-06	3.1e-06	
					Selenium compounds	1.9e-07	8.5e-07	8.5e-07	
					Sulfur Dioxide	0.0048	0.02	0.02	
					Toluene	2.7e-05	0.00012	0.00012	
					Volatile Organic Compounds	0.04	0.19	0.19	
		TREA 8	CE020	1L/3L Thermal Oxidizer	1,4-Dichlorobenzene (para-)	1.5e-05	6.4e-05	6.4e-05	
					Arsenic compounds	2.4e-06	1.1e-05	1.1e-05	
					Benzene	2.6e-05	0.00011	0.00011	
					Beryllium Compounds	1.5e-07	6.4e-07	6.4e-07	
					Cadmium compounds	1.3e-05	5.9e-05	5.9e-05	
					Carbon Dioxide	1,450.11	6,351.48	6,351.48	

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Treatment	131-Thermal Oxidizer	TREA 8	CE020	1L/3L Thermal Oxidizer	Carbon Dioxide Equivalent	1,451.61	6,358.04	6,358.04	
					Carbon Monoxide	1.02	4.47	4.47	
					Chromium compounds	1.7e-05	7.5e-05	7.5e-05	
					Cobalt compounds	1e-06	4.5e-06	4.5e-06	
					Formaldehyde	0.00091	0.004	0.004	
					HAPs - Total	0.02	0.1	0.1	
					Hexane	0.02	0.1	0.1	
					Lead Compounds	6.1e-06	2.7e-05	2.7e-05	
					Manganese compounds	4.6e-06	2e-05	2e-05	
					Mercury Compounds	3.2e-06	1.4e-05	1.4e-05	
					Methane	0.03	0.12	0.12	
					Naphthalene	7.4e-06	3.2e-05	3.2e-05	
					Nickel compounds	2.6e-05	0.00011	0.00011	
					Nitrogen Oxides	3.4	14.91	14.91	
					Nitrous Oxide	0.0027	0.01	0.01	
					Particulate Matter	0.09	0.4	0.4	
					PM < 2.5 micron	0.09	0.4	0.4	
					PM < 10 micron	0.09	0.4	0.4	
					Polycyclic organic matter	1.1e-06	4.7e-06	4.7e-06	
					Selenium compounds	2.9e-07	1.3e-06	1.3e-06	
					Sulfur Dioxide	0.0073	0.03	0.03	
					Toluene	4.1e-05	0.00018	0.00018	
					Volatile Organic Compounds	0.07	0.29	0.29	
		TREA 12	CE014	Enterprise Thermal Oxidizer	1,4-Dichlorobenzene (para-)	4.7e-06	2.1e-05	2.1e-05	
					Arsenic compounds	7.8e-07	3.4e-06	3.4e-06	
					Benzene	8.2e-06	3.6e-05	3.6e-05	
					Beryllium Compounds	4.7e-08	2.1e-07	2.1e-07	
					Cadmium compounds	4.3e-06	1.9e-05	1.9e-05	
					Carbon Dioxide	467.78	2,048.86	2,048.86	
					Carbon Dioxide Equivalent	468.26	2,050.98	2,050.98	
					Carbon Monoxide	0.33	1.44	1.44	
					Chromium compounds	5.5e-06	2.4e-05	2.4e-05	
					Cobalt compounds	3.3e-07	1.4e-06	1.4e-06	
					Formaldehyde	0.00029	0.0013	0.0013	
					HAPs - Total	0.0074	0.03	0.03	
					Hexane	0.0071	0.03	0.03	
					Lead Compounds	2e-06	8.6e-06	8.6e-06	
					Manganese compounds	1.5e-06	6.5e-06	6.5e-06	
					Mercury Compounds	1e-06	4.5e-06	4.5e-06	
					Methane	0.0088	0.04	0.04	
					Naphthalene	2.4e-06	1e-05	1e-05	
					Nickel compounds	8.2e-06	3.6e-05	3.6e-05	
					Nitrogen Oxides	1.1	4.81	4.81	
					Nitrous Oxide	0.00088	0.0039	0.0039	
					Particulate Matter	0.03	0.13	0.13	
					PM < 2.5 micron	0.03	0.13	0.13	
					PM < 10 micron	0.03	0.13	0.13	
					Polycyclic organic matter	3.5e-07	1.5e-06	1.5e-06	
					Selenium compounds	9.4e-08	4.1e-07	4.1e-07	
					Sulfur Dioxide	0.0024	0.01	0.01	
Toluene	1.3e-05	5.8e-05	5.8e-05						
Volatile Organic Compounds	0.02	0.09	0.09						
TREA 15	CE009	6L Thermal Oxidizer	1,4-Dichlorobenzene (para-)	1.2e-05	5.2e-05	5.2e-05			
			Arsenic compounds	2e-06	8.6e-06	8.6e-06			
			Benzene	2.1e-05	9e-05	9e-05			
			Beryllium Compounds	1.2e-07	5.2e-07	5.2e-07			
			Cadmium compounds	1.1e-05	4.7e-05	4.7e-05			
			Carbon Dioxide	1,169.44	5,122.16	5,122.16			
			Carbon Dioxide Equivalent	1,170.65	5,127.45	5,127.45			
			Carbon Monoxide	0.82	3.61	3.61			
			Chromium compounds	1.4e-05	6e-05	6e-05			
			Cobalt compounds	8.2e-07	3.6e-06	3.6e-06			
			Formaldehyde	0.00074	0.0032	0.0032			
			HAPs - Total	0.02	0.08	0.08			
			Hexane	0.02	0.08	0.08			
			Lead Compounds	4.9e-06	2.1e-05	2.1e-05			
			Manganese compounds	3.7e-06	1.6e-05	1.6e-05			
			Mercury Compounds	2.5e-06	1.1e-05	1.1e-05			
			Methane	0.02	0.1	0.1			
			Naphthalene	6e-06	2.6e-05	2.6e-05			
			Nickel compounds	2.1e-05	9e-05	9e-05			
			Nitrogen Oxides	2.75	12.02	12.02			
			Nitrous Oxide	0.0022	0.0097	0.0097			
			Particulate Matter	0.07	0.33	0.33			
			PM < 2.5 micron	0.07	0.33	0.33			

PTE by SI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Treatment	131-Thermal Oxidizer	TREA 15	CE009	6L Thermal Oxidizer	PM < 10 micron	0.07	0.33	0.33	
					Polycyclic organic matter	8.6e-07	3.8e-06	3.8e-06	
					Selenium compounds	2.4e-07	1e-06	1e-06	
					Sulfur Dioxide	0.0059	0.03	0.03	
					Toluene	3.3e-05	0.00015	0.00015	
					Volatile Organic Compounds	0.05	0.24	0.24	
		TREA 24	Null	26/27 Thermal Oxidizer	1,4-Dichlorobenzene (para-)	1.1e-05	4.9e-05	4.9e-05	
					Arsenic compounds	1.9e-06	8.2e-06	8.2e-06	
					Benzene	2e-05	8.7e-05	8.7e-05	
					Beryllium Compounds	1.1e-07	4.9e-07	4.9e-07	
					Cadmium compounds	1e-05	4.5e-05	4.5e-05	
					Carbon Dioxide	1,122.66	4,917.27	4,917.27	
					Carbon Dioxide Equivalent	1,123.82	4,922.35	4,922.35	
					Carbon Monoxide	0.79	3.46	3.46	
					Chromium compounds	1.3e-05	5.8e-05	5.8e-05	
					Cobalt compounds	7.9e-07	3.5e-06	3.5e-06	
					Formaldehyde	0.00071	0.0031	0.0031	
					HAPs - Total	0.02	0.08	0.08	
					Hexane	0.02	0.07	0.07	
					Lead	4.7e-06	2.1e-05	2.1e-05	
					Manganese compounds	3.6e-06	1.6e-05	1.6e-05	
					Mercury Compounds	2.4e-06	1.1e-05	1.1e-05	
					Methane	0.02	0.09	0.09	
					Naphthalene	5.7e-06	2.5e-05	2.5e-05	
					Nickel compounds	2e-05	8.7e-05	8.7e-05	
					Nitrogen Oxides	2.64	11.54	11.54	
					Nitrous Oxide	0.0021	0.0093	0.0093	
					Particulate Matter	0.07	0.31	0.31	
					PM < 2.5 micron	0.07	0.31	0.31	
					PM < 10 micron	0.07	0.31	0.31	
					Polycyclic organic matter	8.3e-07	3.6e-06	3.6e-06	
					Selenium compounds	2.3e-07	9.9e-07	9.9e-07	
					Sulfur Dioxide	0.0056	0.02	0.02	
					Toluene	3.2e-05	0.00014	0.00014	
					Volatile Organic Compounds	0.05	0.23	0.23	

Relationships

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
Equipment	Aboveground Storage Tank	EQUI 210	Null	38-A-144	sends to	STRU 420	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 213	Null	14T-A-22 Acrylic Acid Bulk Storage and Equipment Leaks	sends to	STRU 414	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 214	Null	25-RM-210 Tank 2 and Toluene Blending Equipment Leaks	sends to	STRU 415	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 215	Null	25-RM-6750 Tank 4	sends to	STRU 416	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 216	Null	25-RM-5178 Tank 5	sends to	STRU 417	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 217	Null	25-RM-5178 Tank 6	sends to	STRU 418	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 218	Null	25-RM-5178 Tank 13	sends to	STRU 419	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 257	Null	14Q-A-42	sends to	STRU 197	100	Stack/Vent	SV165	11/6/2014	Null	
		EQUI 258	Null	38-A-147	sends to	STRU 194	100	Stack/Vent	SV162	6/1/1992	Null	
		EQUI 259	Null	25-RM-2119	sends to	STRU 421	100	Stack/Vent	Null	1/1/1990	Null	
		EQUI 260	Null	25-RM-55	sends to	STRU 422	100	Stack/Vent	Null	1/1/1990	Null	
		EQUI 298	Null	52-B-1 Barrier	sends to	STRU 450	100	Stack/Vent	Null	4/19/2006	Null	
		EQUI 299	Null	52-P-1 Primer	sends to	STRU 451	100	Stack/Vent	Null	4/19/2006	Null	
		EQUI 300	Null	52-S-1 Saturant	sends to	STRU 452	100	Stack/Vent	Null	4/19/2006	Null	
		EQUI 301	Null	52-S-2 Saturant	sends to	STRU 453	100	Stack/Vent	Null	4/19/2006	Null	
	Adhesion Equipment	EQUI 161	EU418	8L Coating Station	sends to	STRU 59	17	Stack/Vent	SV371	4/19/2006	Null	
						STRU 60	17	Stack/Vent	SV372	4/19/2006	Null	
						STRU 61	17	Stack/Vent	SV373	4/19/2006	Null	
						STRU 62	17	Stack/Vent	SV374	4/19/2006	Null	
						STRU 63	17	Stack/Vent	SV375	4/19/2006	Null	
						STRU 64	17	Stack/Vent	SV376	4/19/2006	Null	
		EQUI 188	EU033	5L Coating Station	is controlled by	TREA 11	100	048-Activated Carbon Adsorption	CE008	4/19/2006	Null	
					sends to	STRU 231	25	Stack/Vent	SV205	11/27/2000	Null	
						STRU 237	25	Stack/Vent	SV214	12/4/2020	Null	
						STRU 238	25	Stack/Vent	SV215	12/4/2020	Null	
						STRU 239	25	Stack/Vent	SV216	12/4/2020	Null	
	Blender	EQUI 10	EU024	3W Blender	is controlled by	TREA 22	100	074-Barometric Condenser	Null	8/8/2020	Null	
					is monitored by	EQUI 268	Null	Parametric Monitor	Null	8/28/2020	Null	
					sends to	STRU 219	100	Stack/Vent	SV188	11/27/2000	Null	
		EQUI 12	EU029	2W Blender	sends to	STRU 218	100	Stack/Vent	SV187	11/27/2000	Null	
		EQUI 25	EU028	2E Blender	sends to	STRU 218	100	Stack/Vent	SV187	11/27/2000	Null	
	Boiler	EQUI 1	EU001	Boiler 3	sends to	STRU 246	100	Stack/Vent	SV223	11/27/2000	Null	
		EQUI 2	EU002	Boiler 4	sends to	STRU 245	100	Stack/Vent	SV222	11/27/2000	Null	
		EQUI 44	EU037	Boiler 5	sends to	STRU 244	100	Stack/Vent	SV221	11/27/2000	Null	
	Cleaning Equipment	EQUI 32	EU322	LM3 Cleaning	sends to	STRU 495	100	Stack/Vent	SV239	1/1/1996	Null	
		EQUI 35	EU329	ST6 Cleaning	sends to	STRU 498	100	Stack/Vent	SV246	1/1/1996	Null	
		EQUI 124	EU050	Cleaning Tank 1	sends to	STRU 220	100	Stack/Vent	SV189	11/27/2000	Null	
		EQUI 125	EU051	Cleaning Tank 2	sends to	STRU 220	100	Stack/Vent	SV189	11/27/2000	Null	
		EQUI 126	EU052	Cleaning Tank 3	sends to	STRU 220	100	Stack/Vent	SV189	11/27/2000	Null	

Relationships

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category Equipment	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
	Cleaning Equipment	EQUI 291	Null	22 Coater Solution Delivery Wash Tank	sends to	STRU 447	100	Stack/Vent	Null	11/27/2000	Null	
		EQUI 292	Null	Voyager Solution Delivery 1 Wash Tank	sends to	STRU 292	100	Stack/Vent	SV274	4/19/2006	Null	
		EQUI 293	Null	Voyager Solution Delivery 2 Wash Tank	sends to	STRU 408	100	Stack/Vent	Null	4/19/2006	Null	
		EQUI 294	Null	3L Coater Wash Tank	sends to	STRU 448	100	Stack/Vent	Null	4/16/2006	Null	
		EQUI 295	Null	Bldg. 20 Compounding Wash Tank 1 (South) Wash Tank	sends to	STRU 449	100	Stack/Vent	Null	11/27/2000	Null	
		EQUI 296	Null	Bldg. 20 Compounding Wash Tank 2 (South) Wash Tank	sends to	STRU 449	100	Stack/Vent	Null	11/27/2000	Null	
		EQUI 297	Null	Bldg. 20 Compounding Wash Tank 3 (South) Wash Tank	sends to	STRU 449	100	Stack/Vent	Null	11/27/2000	Null	
		EQUI 324	Null	NCC Compounding Tunnel Wash Tank and Equipment Leaks	sends to	STRU 444	100	Stack/Vent	Null	11/27/2000	Null	
		EQUI 326	Null	NCC Compounding 2nd Floor Wash Tank and Equipment Leaks	sends to	STRU 443	100	Stack/Vent	Null	11/27/2000	Null	
		EQUI 330	Null	Enterprise Solution Delivery Wash Tank and Equipment Leaks	sends to	STRU 445	100	Stack/Vent	Null	4/19/2006	Null	
	Data Acquisition System	EQUI 267	Null	Condenser's (TREA 22) ethylene glycol chiller return RTD data acqui..	receives from	EQUI 268	Null	Parametric Monitor	Null	8/28/2020	Null	
	Dryer/Oven, direct fired	EQUI 24	EU317	LM3 Drying Oven 1A	sends to	STRU 248	50	Stack/Vent	SV225	11/27/2000	Null	
						STRU 253	50	Stack/Vent	SV230	11/27/2000	Null	
		EQUI 30	EU320	LM3 Drying Oven 2A	sends to	STRU 251	50	Stack/Vent	SV228	11/27/2000	Null	
						STRU 253	50	Stack/Vent	SV230	11/27/2000	Null	
	Dryer/Oven, unknown firing method	EQUI 14	EU034	5L Coating Oven	is controlled by	TREA 11	100	048-Activated Carbon Adsorption	CE008	11/27/2000	Null	
					sends to	STRU 228	25	Stack/Vent	SV201	11/27/2000	Null	
						STRU 230	25	Stack/Vent	SV203	11/27/2000	Null	
						STRU 232	25	Stack/Vent	SV206	11/27/2000	Null	
						STRU 237	25	Stack/Vent	SV214	11/27/2000	Null	
		EQUI 16	EU039	6L Precoating 1 Oven	is controlled by	TREA 15	100	131-Thermal Oxidizer	CE009	11/27/2000	Null	
					sends to	STRU 242	100	Stack/Vent	SV219	11/27/2000	Null	
		EQUI 21	EU102	22 Oven	sends to	STRU 376	100	Stack/Vent	Null	12/11/2020	Null	
		EQUI 26	EU041	6L Precoating 2 Oven	is controlled by	TREA 15	100	131-Thermal Oxidizer	CE009	11/27/2000	Null	
					sends to	STRU 242	100	Stack/Vent	SV219	11/27/2000	Null	
		EQUI 97	EU351	7L Precoating Station/Oven 1	sends to	STRU 310	100	Stack/Vent	SV296	4/19/2006	Null	
		EQUI 98	EU352	7L Precoating Station/Oven 3	sends to	STRU 311	100	Stack/Vent	SV297	4/19/2006	Null	
		EQUI 99	EU353	7L Coating Station/Oven	sends to	STRU 1	17	Stack/Vent	SV301	4/19/2006	Null	
						STRU 2	17	Stack/Vent	SV302	4/19/2006	Null	
						STRU 3	17	Stack/Vent	SV303	4/19/2006	Null	
						STRU 312	17	Stack/Vent	SV298	4/19/2006	Null	
						STRU 313	17	Stack/Vent	SV299	4/19/2006	Null	
						STRU 314	17	Stack/Vent	SV300	4/19/2006	Null	
		EQUI 102	EU371	Enterprise Oven 1	is controlled by	TREA 12	100	131-Thermal Oxidizer	CE014	4/19/2006	Null	
					sends to	STRU 28	50	Stack/Vent	SV328	4/19/2006	Null	
						STRU 32	50	Stack/Vent	SV332	4/19/2006	Null	
		EQUI 103	EU372	Enterprise Oven 2	is controlled by	TREA 12	100	131-Thermal Oxidizer	CE014	4/19/2006	Null	
					sends to	STRU 29	33.3	Stack/Vent	SV329	4/19/2006	Null	
						STRU 30	33.3	Stack/Vent	SV330	4/19/2006	Null	

Relationships

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category Equipment	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
Equipment	Dryer/Oven, unknown firing method	EQUI 103	EU372	Enterprise Oven 2	sends to	STRU 32	33.3	Stack/Vent	SV332	4/19/2006	Null	
		EQUI 131	EU356	3L Oven 1	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 12	50	Stack/Vent	SV312	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 133	EU358	3L Oven 2	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 13	50	Stack/Vent	SV313	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 135	EU360	3L Oven 3	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 14	50	Stack/Vent	SV314	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 137	EU362	3L Oven 4	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 15	50	Stack/Vent	SV315	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 139	EU364	3L Oven 5	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 16	50	Stack/Vent	SV316	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 141	EU366	3L Oven 6 Zone 1	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 17	50	Stack/Vent	SV317	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 142	EU367	3L Oven 6 Zone 2	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 18	50	Stack/Vent	SV318	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 143	EU368	3L Oven 6 Zone 3	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 19	50	Stack/Vent	SV319	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 158	EU415	8L Precoating 1 Oven	sends to	STRU 57	100	Stack/Vent	SV369	4/19/2006	Null	
		EQUI 160	EU417	8L Precoating 2 Oven	sends to	STRU 58	100	Stack/Vent	SV370	4/19/2006	Null	
		EQUI 162	EU419	8L Coating Oven	sends to	STRU 59	17	Stack/Vent	SV371	4/19/2006	Null	
						STRU 60	17	Stack/Vent	SV372	4/19/2006	Null	
						STRU 61	17	Stack/Vent	SV373	4/19/2006	Null	
						STRU 62	17	Stack/Vent	SV374	4/19/2006	Null	
						STRU 63	17	Stack/Vent	SV375	4/19/2006	Null	
						STRU 64	17	Stack/Vent	SV376	4/19/2006	Null	
		EQUI 197	EU004	1L Precoating 1 Oven	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 221	50	Stack/Vent	SV190	11/27/2000	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 199	EU006	1L Precoating 2 Oven	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 222	50	Stack/Vent	SV191	11/27/2000	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	

Relationships

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category Equipment	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
	Dryer/Oven, unknown firing method	EQUI 201	EU008	1L Coating Oven	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 224	33.3	Stack/Vent	SV193	11/27/2000	Null	
						STRU 225	33.3	Stack/Vent	SV194	11/27/2000	Null	
						STRU 315	33.3	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 202	EU112	27 Oven	is controlled by	TREA 24	100	131-Thermal Oxidizer	Null	1/24/2025	Null	
					sends to	STRU 146	50	Stack/Vent	SV082	11/27/2000	Null	
						STRU 374	50	Stack/Vent	SV377	12/4/2020	Null	
		EQUI 204	EU114	28 Oven	sends to	STRU 147	100	Stack/Vent	SV083	11/27/2000	Null	
		EQUI 208	EU110	26 Oven	is controlled by	TREA 24	100	131-Thermal Oxidizer	Null	1/24/2025	Null	
					sends to	STRU 145	50	Stack/Vent	SV081	11/27/2000	Null	
						STRU 374	50	Stack/Vent	SV377	11/27/2000	Null	
		EQUI 262	Null	LT3 Printer Oven	sends to	STRU 423	100	Stack/Vent	Null	11/27/2012	Null	
		EQUI 269	Null	5L Primer Oven	sends to	STRU 486	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 270	Null	Masking Systems Line 1 Oven	sends to	STRU 394	100	Stack/Vent	Null	11/27/2024	Null	
		EQUI 271	EU326	ST5 Oven	sends to	STRU 490	100	Stack/Vent	Null	2/14/2025	Null	
		EQUI 272	EU331	ST6 Oven	sends to	STRU 435	10	Stack/Vent	Null	1/1/1997	Null	
						STRU 436	5	Stack/Vent	Null	1/1/1997	Null	
						STRU 437	80	Stack/Vent	Null	1/1/1997	Null	
						STRU 438	5	Stack/Vent	Null	1/1/1997	Null	
		EQUI 273	EU413	ST7 Oven	sends to	STRU 439	10	Stack/Vent	Null	12/15/2002	Null	
						STRU 440	5	Stack/Vent	Null	12/15/2002	Null	
						STRU 441	80	Stack/Vent	Null	12/15/2002	Null	
						STRU 442	5	Stack/Vent	Null	12/15/2002	Null	
		EQUI 339	Null	Masking Systems Line 2 Oven	sends to	STRU 394	100	Stack/Vent	Null	12/7/2020	Null	
	Extruder	EQUI 23	EU125	H1 Extruder 3	sends to	STRU 299	100	Stack/Vent	SV281	12/4/2020	Null	
		EQUI 105	EU374	19J Extruder	is controlled by	TREA 13	100	053-Venturi Scrubber	CE015	4/19/2006	Null	
					sends to	STRU 33	100	Stack/Vent	SV333	4/19/2006	Null	
		EQUI 195	EU036	10J Extruder	is controlled by	TREA 10	100	053-Venturi Scrubber	CE003	12/4/2020	Null	
					sends to	STRU 234	100	Stack/Vent	SV210	11/27/2000	Null	
		EQUI 278	Null	9J Corona Treater	sends to	STRU 430	100	Stack/Vent	Null	3/1/2019	Null	
		EQUI 280	Null	16J Corona Treater	sends to	STRU 432	100	Stack/Vent	Null	7/6/2017	Null	
		EQUI 284	Null	4Y Extruder	sends to	STRU 428	100	Stack/Vent	Null	1/1/1992	Null	
	Loading-Unloading Equipment	EQUI 251	Null	Voyager Compounding Room Transfer Rack & Equipment Leaks	sends to	STRU 408	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 252	Null	22-28 Compounding Transfer Rack 1	sends to	STRU 409	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 253	Null	22-28 Compounding Transfer Rack 2	sends to	STRU 410	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 254	Null	Compounding Room 1 Transfer Rack	sends to	STRU 411	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 255	Null	Compounding Room 4 Transfer Rack	sends to	STRU 412	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 285	Null	VersaDrum Unloader Install	sends to	STRU 299	100	Stack/Vent	SV281	4/30/2018	Null	
		EQUI 290	Null	Haz Waste Transfer Rack	sends to	STRU 434	100	Stack/Vent	Null	5/4/1990	Null	

Relationships

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category Equipment	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
	Mixing Equipment	EQUI 7	EU021	1N Mixer	sends to	STRU 217	Null	Stack/Vent	SV186	11/27/2000	Null	
		EQUI 9	EU023	1S Mixer	sends to	STRU 217	Null	Stack/Vent	SV186	11/27/2000	Null	
		EQUI 13	EU030	Mogul 1	sends to	STRU 214	33.3	Stack/Vent	SV183	11/27/2000	Null	
						STRU 215	33.3	Stack/Vent	SV184	11/27/2000	Null	
						STRU 216	33.3	Stack/Vent	SV185	11/27/2000	Null	
		EQUI 20	EU049	Mogul 2	sends to	STRU 211	33.3	Stack/Vent	SV180	11/27/2000	Null	
						STRU 212	33.3	Stack/Vent	SV181	11/27/2000	Null	
						STRU 213	33.3	Stack/Vent	SV182	11/27/2000	Null	
		EQUI 286	Null	N72 Drum Mix Station	sends to	STRU 433	100	Stack/Vent	Null	12/9/2024	Null	
		EQUI 289	Null	N71 Drum Mix Station	sends to	STRU 433	100	Stack/Vent	Null	12/9/2024	Null	
	Other Emission Unit	EQUI 28	EU318	LM3 Curing Chamber 1	sends to	STRU 249	50	Stack/Vent	SV226	11/27/2000	Null	
						STRU 253	50	Stack/Vent	SV230	11/27/2000	Null	
		EQUI 31	EU321	LM3 Curing Chamber 2	sends to	STRU 252	50	Stack/Vent	SV229	11/27/2000	Null	
						STRU 253	50	Stack/Vent	SV230	11/27/2000	Null	
		EQUI 33	EU327	ST6 Compounding Area A	sends to	STRU 496	100	Stack/Vent	SV244	1/1/1996	Null	
		EQUI 34	EU328	ST6 Compounding Area B	sends to	STRU 497	100	Stack/Vent	SV245	1/1/1996	Null	
		EQUI 47	EU425	Voyager Oven 1	is controlled by	TREA 6	100	131-Thermal Oxidizer	CE018	4/19/2006	Null	
					sends to	STRU 362	50	Stack/Vent	SV351	4/19/2006	Null	
						STRU 364	50	Stack/Vent	SV353	4/19/2006	Null	
		EQUI 48	EU426	Voyager Oven 2	is controlled by	TREA 6	100	131-Thermal Oxidizer	CE018	4/19/2006	Null	
					sends to	STRU 362	25	Stack/Vent	SV351	4/19/2006	Null	
						STRU 365	25	Stack/Vent	SV354	4/19/2006	Null	
						STRU 366	25	Stack/Vent	SV355	4/19/2006	Null	
						STRU 367	25	Stack/Vent	SV356	4/19/2006	Null	
		EQUI 50	EU428	Voyager Oven 3	is controlled by	TREA 6	100	131-Thermal Oxidizer	CE018	4/19/2006	Null	
					sends to	STRU 362	50	Stack/Vent	SV351	4/19/2006	Null	
						STRU 369	50	Stack/Vent	SV358	4/19/2006	Null	
		EQUI 51	EU429	Voyager Oven 4	is controlled by	TREA 6	100	131-Thermal Oxidizer	CE018	4/19/2006	Null	
					sends to	STRU 362	25	Stack/Vent	SV351	4/19/2006	Null	
						STRU 370	25	Stack/Vent	SV359	4/19/2006	Null	
						STRU 371	25	Stack/Vent	SV360	4/19/2006	Null	
						STRU 372	25	Stack/Vent	SV361	4/19/2006	Null	
		EQUI 163	EU420	LT3 Saturator	sends to	STRU 51	33.3	Stack/Vent	SV363	12/4/2020	Null	
						STRU 52	33.3	Stack/Vent	SV364	12/4/2020	Null	
						STRU 53	33.3	Stack/Vent	SV365	12/4/2020	Null	
		EQUI 164	EU421	LT3 Saturant Oven	sends to	STRU 51	33.3	Stack/Vent	SV363	4/19/2006	Null	
						STRU 52	33.3	Stack/Vent	SV364	4/19/2006	Null	
						STRU 53	33.3	Stack/Vent	SV365	4/19/2006	Null	
		EQUI 166	EU423	LT3 Coating Oven	sends to	STRU 54	50	Stack/Vent	SV366	4/19/2006	Null	

Relationships

AI ID (Name): 4053 (3M Hutchinson)
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SI Category Equipment	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
	Other Emission Unit	EQUI 166	EU423	LT3 Coating Oven	sends to	STRU 55	50	Stack/Vent	SV367	4/19/2006	Null	
		EQUI 219	Null	Masking Systems Line 1	sends to	STRU 394	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 222	Null	H1 Oven	sends to	STRU 49	100	Stack/Vent	SV349	12/7/2020	Null	
		EQUI 223	Null	Masking Systems Line 2	sends to	STRU 394	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 224	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 1	sends to	STRU 397	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 225	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 2	sends to	STRU 398	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 226	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 3	sends to	STRU 399	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 227	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 4	sends to	STRU 400	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 228	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 5	sends to	STRU 401	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 229	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Station 6	sends to	STRU 402	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 241	Null	Print Station 4 (SFS109)	sends to	STRU 425	100	Stack/Vent	Null	2/14/2025	Null	
		EQUI 266	Null	3L Corona Treater	sends to	STRU 487	100	Stack/Vent	Null	4/19/2006	Null	
		EQUI 282	Null	APF1 Printer	sends to	STRU 426	100	Stack/Vent	Null	1/1/2010	Null	
		EQUI 283	Null	APF2 Printer	sends to	STRU 427	100	Stack/Vent	Null	1/1/2010	Null	
		EQUI 287	Null	N69 Mill	sends to	STRU 433	100	Stack/Vent	Null	12/9/2024	Null	
		EQUI 288	Null	N70 Basket Mill	sends to	STRU 433	100	Stack/Vent	Null	12/9/2024	Null	
		EQUI 340	Null	LT3 Printer	sends to	STRU 423	100	Stack/Vent	Null	11/27/2012	Null	
	Reciprocating IC Engine	EQUI 230	Null	GEN-35	sends to	STRU 379	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 232	Null	GEN-KOHLER	sends to	STRU 381	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 233	Null	GEN-31	sends to	STRU 382	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 234	Null	GEN-33	sends to	STRU 383	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 235	Null	GEN-15	sends to	STRU 384	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 236	Null	GEN-16	sends to	STRU 385	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 237	Null	GEN-32	sends to	STRU 386	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 238	Null	Fire Pump 1	sends to	STRU 387	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 239	Null	Fire Pump 2	sends to	STRU 388	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 256	Null	GEN-14	sends to	STRU 424	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 274	Null	North Plant Emergency Generator	sends to	STRU 413	100	Stack/Vent	Null	7/9/2019	Null	
	Separation Equipment	EQUI 6	EU020	1N Churn	sends to	STRU 217	Null	Stack/Vent	SV186	11/27/2000	Null	
		EQUI 8	EU022	1S Churn	sends to	STRU 217	Null	Stack/Vent	SV186	11/27/2000	Null	
	Spray Booth/Coating Line	EQUI 15	EU038	6L Precoating Station 1	is controlled by	TREA 15	100	131-Thermal Oxidizer	CE009	11/27/2000	Null	
					sends to	STRU 242	50	Stack/Vent	SV219	11/27/2000	Null	
						STRU 243	50	Stack/Vent	SV220	11/27/2000	Null	
		EQUI 17	EU040	6L Precoating Station 2	is controlled by	TREA 15	100	131-Thermal Oxidizer	CE009	11/27/2000	Null	
					sends to	STRU 242	50	Stack/Vent	SV219	11/27/2000	Null	
						STRU 243	50	Stack/Vent	SV220	11/27/2000	Null	
		EQUI 22	EU103	22 Coating Station	sends to	STRU 67	100	Stack/Vent	SV003	11/27/2000	Null	
		EQUI 27	EU316	LM3 Coating Station 1	sends to	STRU 247	50	Stack/Vent	SV224	11/27/2000	Null	
						STRU 253	50	Stack/Vent	SV230	11/27/2000	Null	

Relationships

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

SI Category Equipment	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
	Spray Booth/Coating Line	EQUI 29	EU319	LM3 Coating Station 2	sends to	STRU 250	50	Stack/Vent	SV227	11/27/2000	Null	
						STRU 253	50	Stack/Vent	SV230	11/27/2000	Null	
		EQUI 36	EU330	ST6 Coating Station	sends to	STRU 491	100	Stack/Vent	Null	2/14/2025	Null	
		EQUI 38	EU325	ST5 Coating Station & Equipment Leaks	sends to	STRU 489	100	Stack/Vent	Null	2/14/2025	Null	
		EQUI 46	EU424	Voyager Coating Station 1	is controlled by	TREA 6	100	131-Thermal Oxidizer	CE018	4/19/2006	Null	
					sends to	STRU 362	50	Stack/Vent	SV351	4/19/2006	Null	
						STRU 363	50	Stack/Vent	SV352	4/19/2006	Null	
		EQUI 49	EU427	Voyager Coating Station 2	is controlled by	TREA 6	100	131-Thermal Oxidizer	CE018	4/19/2006	Null	
					sends to	STRU 362	50	Stack/Vent	SV351	4/19/2006	Null	
						STRU 368	50	Stack/Vent	SV357	4/19/2006	Null	
		EQUI 71	EU412	ST7 Coating Station	sends to	STRU 6	Null	Stack/Vent	SV306	4/19/2006	9/17/2024	
						STRU 7	Null	Stack/Vent	SV307	4/19/2006	9/17/2024	
						STRU 494	100	Stack/Vent	Null	2/14/2025	Null	
		EQUI 92	EU346	H1 Coating Station	sends to	STRU 298	100	Stack/Vent	SV280	4/19/2006	Null	
		EQUI 101	EU370	Enterprise Coating Station	is controlled by	TREA 12	100	131-Thermal Oxidizer	CE014	4/19/2006	Null	
					sends to	STRU 27	50	Stack/Vent	SV327	4/19/2006	Null	
						STRU 32	50	Stack/Vent	SV332	4/19/2006	Null	
		EQUI 112	EU381	6L Coating Station/Oven	sends to	STRU 292	17	Stack/Vent	SV274	4/19/2006	Null	
						STRU 293	17	Stack/Vent	SV275	4/19/2006	Null	
						STRU 294	17	Stack/Vent	SV276	4/19/2006	Null	
						STRU 295	17	Stack/Vent	SV277	4/19/2006	Null	
						STRU 296	17	Stack/Vent	SV278	4/19/2006	Null	
						STRU 297	17	Stack/Vent	SV279	4/19/2006	Null	
		EQUI 130	EU355	3L Coating Station 1	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 20	50	Stack/Vent	SV320	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 132	EU357	3L Coating Station 2	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 21	50	Stack/Vent	SV321	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 134	EU359	3L Coating Station 3	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 22	50	Stack/Vent	SV322	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 136	EU361	3L Coating Station 4	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 23	50	Stack/Vent	SV323	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 138	EU363	3L Coating Station 5	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 24	50	Stack/Vent	SV324	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 140	EU365	3L Coating Station 6	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	

Relationships

AI ID (Name): 4053 (3M Hutchinson)

Activity: IND20260001

SI Category Equipment	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
	Spray Booth/Coating Line	EQUI 140	EU365	3L Coating Station 6	sends to	STRU 25	50	Stack/Vent	SV325	4/19/2006	Null	
						STRU 315	50	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 157	EU414	8L Precoating Station 1	sends to	STRU 57	100	Stack/Vent	SV369	4/19/2006	Null	
		EQUI 159	EU416	8L Precoating Station 2	sends to	STRU 58	100	Stack/Vent	SV370	4/19/2006	Null	
		EQUI 165	EU422	LT3 Coating Station	sends to	STRU 54	50	Stack/Vent	SV366	12/4/2020	Null	
						STRU 55	50	Stack/Vent	SV367	12/4/2020	Null	
		EQUI 196	EU003	1L Precoating Station 1	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 315	100	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 198	EU005	1L Precoating Station 2	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 315	100	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 200	EU007	1L Coating Station	is controlled by	TREA 8	100	131-Thermal Oxidizer	CE020	1/1/2011	Null	
					sends to	STRU 315	100	Stack/Vent	SV378	3/24/2011	Null	
		EQUI 203	EU113	27 Coating Station	is controlled by	TREA 24	100	131-Thermal Oxidizer	Null	1/24/2025	Null	
					sends to	STRU 154	50	Stack/Vent	SV090	11/27/2000	Null	
						STRU 374	50	Stack/Vent	SV377	12/4/2020	Null	
		EQUI 205	EU115	28 Coating Station	sends to	STRU 155	100	Stack/Vent	SV091	11/27/2000	Null	
		EQUI 209	EU111	26 Coating Station	is controlled by	TREA 24	100	131-Thermal Oxidizer	Null	1/24/2025	Null	
					sends to	STRU 153	50	Stack/Vent	SV089	11/27/2000	Null	
						STRU 374	50	Stack/Vent	SV377	11/27/2000	Null	
		EQUI 211	Null	5L Precoating Station	sends to	STRU 231	100	Stack/Vent	SV205	12/7/2020	Null	
		EQUI 242	Null	APF1 Coating Applicator 1	sends to	STRU 389	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 243	Null	APF1 Coating Applicator 2	sends to	STRU 390	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 244	Null	APF2 Coating Applicator 1	sends to	STRU 391	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 245	Null	APF2 Coating Applicator 2	sends to	STRU 392	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 275	Null	LM3 Corona Treater	sends to	STRU 485	100	Stack/Vent	Null	12/7/2020	Null	
		EQUI 276	Null	27 Corona Treater	sends to	STRU 429	100	Stack/Vent	Null	1/1/1993	Null	
		EQUI 277	Null	5L Corona Treater	sends to	STRU 460	100	Stack/Vent	Null	10/22/2022	Null	
		EQUI 279	Null	ST7 Corona Treater	sends to	STRU 431	100	Stack/Vent	Null	12/15/2002	Null	
		EQUI 281	Null	Print Station 1 (SFS109)	sends to	STRU 425	100	Stack/Vent	Null	2/14/2025	Null	
	Stripping Equipment	EQUI 184	EU032	5L SRU Stripper	sends to	STRU 237	100	Stack/Vent	SV214	4/19/2006	Null	
Treatment	074-Barometric Condenser	TREA 22	Null	Condenser	sends to	EQUI 267	Null	Data Acquisition System	Null	8/28/2020	Null	

Aboveground Storage Tanks

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Capacity (gal)	Construction Type	Column Diameter (ft)	Number of Columns	Deck Type	Interior Diameter (ft)	Interior Height (ft)	Max True Vapor Pressure (psia)	Construction Type	Seal Type	Support Type	Construction or Installation Start Date	
EQUI 210	Null	38-A-144	15000	Fixed Roof	Null	Null	Null	12	18	0.62	Fixed Roof	Null	Null	6/1/1992	
EQUI 213	Null	14T-A-22 Acrylic Acid Bulk Storage and Equipment Leaks	20000	Fixed Roof	Null	Null	Null	12	14	2.04	Fixed Roof	Null	Null	6/1/1996	
EQUI 214	Null	25-RM-210 Tank 2 and Toluene Blending Equipment Leaks	20000	Fixed Roof	Null	Null	Null	12	22	0.62	Fixed Roof	Null	Null	1/1/1990	
EQUI 215	Null	25-RM-6750 Tank 4	20000	Fixed Roof	Null	Null	Null	12	22	1.65	Fixed Roof	Null	Null	1/1/1990	
EQUI 216	Null	25-RM-5178 Tank 5	20000	Fixed Roof	Null	Null	Null	12	22	1.58	Fixed Roof	Null	Null	1/1/1990	
EQUI 217	Null	25-RM-5178 Tank 6	20000	Fixed Roof	Null	Null	Null	12	22	1.58	Fixed Roof	Null	Null	1/8/1993	
EQUI 218	Null	25-RM-5178 Tank 13	10000	Fixed Roof	Null	Null	Null	12	13	1.59	Fixed Roof	Null	Null	6/5/1990	
EQUI 257	Null	14Q-A-42	8500	Fixed Roof	Null	Null	Null	8	27	1.83	Fixed Roof	Null	Null	11/6/2014	
EQUI 258	Null	38-A-147	20000	Fixed Roof	Null	Null	Null	12	23	2.01	Fixed Roof	Null	Null	6/1/1992	
EQUI 259	Null	25-RM-2119	20000	Fixed Roof	Null	Null	Null	12	22	1.96	Fixed Roof	Null	Null	1/1/1990	
EQUI 260	Null	25-RM-55	20000	Fixed Roof	Null	Null	Null	12	22	1.06	Fixed Roof	Null	Null	1/1/1990	
EQUI 298	Null	52-B-1 Barrier	12600	Fixed Roof	Null	Null	Null	12	20	0.3	Fixed Roof	Null	Null	1/1/2005	
EQUI 299	Null	52-P-1 Primer	23000	Fixed Roof	Null	Null	Null	11	32	0.2	Fixed Roof	Null	Null	7/31/2015	
EQUI 300	Null	52-S-1 Saturant	12600	Fixed Roof	Null	Null	Null	12	20	0.3	Fixed Roof	Null	Null	1/1/2005	
EQUI 301	Null	52-S-2 Saturant	12600	Fixed Roof	Null	Null	Null	12	20	0.3	Fixed Roof	Null	Null	1/1/2005	
EQUI 341	Null	North Tank (38-A-21/149)	20000	Fixed Roof	Null	Null	Null	12	26	0	Fixed Roof	Null	Null	10/1/2015	

PMs

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Manufacturer	Model	Serial Number	Parameter Monitored	Bypass Capability? (parametric)	Install Date (parametric)	
EQUI 268	Null	Condenser's (TREA 22) ethylene glycol chiller return resistance temp detector (RTD)	Omega Engineering	PR-14L-3-100-1/4-9	NA	Temperature	No	8/28/2020	

DAS

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Manufacturer	Model	Serial Number	Primary or Backup? (DASs)	Install Date (DASs)	
EQUI 267	Null	Condenser's (TREA 22) ethylene glycol chiller return RTD data acquisition system	HP	ProLiant DL380 Gen9	MXQ629047H	Primary	8/28/2020	

FUGI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item Type	Subject Item ID	Delta Designation	Description	Install Year	Pollutants Emitted	
Cooling Tower	FUGI 9	Null	Cooling Tower 19-CT-01	1999	Particulate Matter	
					PM < 10 micron	
	FUGI 10	Null	Cooling Tower 19-CT-02	1999	Particulate Matter	
					PM < 10 micron	
	FUGI 11	Null	Cooling Tower 19-CT-03	2007	Particulate Matter	
					PM < 10 micron	
	FUGI 12	Null	Cooling Tower 14-CT-01F	2014	Particulate Matter	
					PM < 10 micron	
	FUGI 13	Null	Cooling Tower 14-CT-02F	2014	Particulate Matter	
					PM < 10 micron	
	FUGI 14	Null	Cooling Tower 14-CT-01B	1998	Particulate Matter	
					PM < 10 micron	
	FUGI 15	Null	Cooling Tower 14-CT-02B	1998	Particulate Matter	

FUGI

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item Type	Subject Item ID	Delta Designation	Description	Install Year	Pollutants Emitted	
Cooling Tower	FUGI 15	Null	Cooling Tower 14-CT-02B	1998	PM < 10 micron	
	FUGI 16	Null	Cooling Tower 26-CT-01	2007	Particulate Matter	
					PM < 10 micron	
	FUGI 17	Null	Cooling Tower 14-CT-01H	2002	Particulate Matter	
					PM < 10 micron	
	FUGI 18	Null	Cooling Tower 14-CT-01P	2005	Particulate Matter	
					PM < 10 micron	

Building

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Height	Units (height)	Length	Units (length)	Width	Units (width)	
STRU 499	Null	Building 0	8	feet	26	feet	29	feet	
STRU 500	Null	Building 2	15	feet	61	feet	127	feet	
STRU 501	Null	Building 3	13	feet	47	feet	36	feet	
STRU 502	Null	Building 4	38	feet	104	feet	110	feet	
STRU 503	Null	Building 5	20	feet	57	feet	77	feet	
STRU 504	Null	Building 6	41	feet	163	feet	84	feet	
STRU 505	Null	Building 7	42	feet	433	feet	67	feet	
STRU 506	Null	Building 8	35	feet	291	feet	59	feet	
STRU 507	Null	Building 9	20	feet	115	feet	115	feet	
STRU 508	Null	Building 13	63	feet	44	feet	13	feet	
STRU 509	Null	Building 15	68	feet	56	feet	39	feet	
STRU 510	Null	Building 17	28	feet	65	feet	96	feet	
STRU 511	Null	Building 18	26	feet	68	feet	169	feet	
STRU 512	Null	Building 19	18	feet	263	feet	231	feet	
STRU 513	Null	Building 20	38	feet	122	feet	52	feet	
STRU 514	Null	Building 21	26	feet	60	feet	118	feet	
STRU 515	Null	Building 22	14	feet	110	feet	56	feet	
STRU 516	Null	Building 23	22	feet	52	feet	115	feet	
STRU 517	Null	Building 24n	41	feet	108	feet	103	feet	
STRU 518	Null	Building 24s	16	feet	89	feet	69	feet	
STRU 519	Null	Building 25	21	feet	337	feet	312	feet	
STRU 520	Null	Building 26	12	feet	36	feet	83	feet	
STRU 521	Null	Building 27	16	feet	59	feet	64	feet	
STRU 522	Null	Building 28	38	feet	54	feet	43	feet	
STRU 523	Null	Building 29	38	feet	71	feet	74	feet	
STRU 524	Null	Building 30	22	feet	104	feet	316	feet	
STRU 525	Null	Building 31	34	feet	243	feet	270	feet	
STRU 526	Null	Building 32	30	feet	269	feet	401	feet	
STRU 527	Null	Building 33	308	feet	349	feet	410	feet	

Building

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Height	Units (height)	Length	Units (length)	Width	Units (width)	
STRU 528	Null	Building 34	47	feet	398	feet	108	feet	
STRU 529	Null	Building 35	24	feet	128	feet	94	feet	
STRU 530	Null	Building 36	34	feet	86	feet	206	feet	
STRU 531	Null	Building 37	30	feet	57	feet	49	feet	
STRU 532	Null	Building 38	32	feet	130	feet	117	feet	
STRU 533	Null	Building 39	28	feet	154	feet	47	feet	
STRU 534	Null	Building 40	53	feet	116	feet	255	feet	
STRU 535	Null	Building 41	77	feet	77	feet	29	feet	
STRU 536	Null	Building 42	54	feet	22	feet	67	feet	
STRU 537	Null	Building 43	32	feet	40	feet	60	feet	
STRU 538	Null	Building 65	43	feet	73	feet	29	feet	
STRU 539	Null	Building 66	35	feet	97	feet	36	feet	
STRU 540	Null	Building 67	42	feet	407	feet	83	feet	
STRU 541	Null	Building 68	12	feet	54	feet	24	feet	
STRU 542	Null	Building 70	15	feet	776	feet	386	feet	
STRU 543	Null	Building 71	15	feet	67	feet	378	feet	
STRU 544	Null	Building 72	76	feet	29	feet	31	feet	
STRU 545	Null	Building 73	80	feet	22	feet	7	feet	
STRU 546	Null	South Annex	30	feet	229	feet	356	feet	
STRU 547	Null	Building 53	45	feet	127	feet	261	feet	

Stack/Vents

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Stack Height (feet)	Stack Diameter (feet)	Stack Length (feet)	Stack Width (feet)	Stack Flow Rate (cubic ft/min)	Discharge Temperature (°F)	Flow Rate/Temp Information Source	Discharge Direction	
STRU 1	SV301	7L Coating Station/Oven Exhaust 4	45	1.83	Null	Null	8,600	250	Estimate	Upwards with no cap on stack/vent	
STRU 2	SV302	7L Coating Station/Oven Exhaust 5	45	1.83	Null	Null	8,600	180	Estimate	Upwards with no cap on stack/vent	
STRU 3	SV303	7L Coating Station/Oven Exhaust 6	45	1.83	Null	Null	8,600	180	Estimate	Upwards with no cap on stack/vent	
STRU 6	SV306	ST7 Coating Station Exhaust 1	52	2.17	Null	Null	5,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 7	SV307	ST7 Coating Station Exhaust 2	52	1.67	Null	Null	3,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 12	SV312	3L Oven 1 Bypass	73.8	1.75	Null	Null	15,200	315	Estimate	Upwards with no cap on stack/vent	
STRU 13	SV313	3L Oven 2 Bypass	73	1.42	Null	Null	5,470	275	Estimate	Upwards with no cap on stack/vent	
STRU 14	SV314	3L Oven 3 Bypass	73.8	1.75	Null	Null	15,150	310	Estimate	Upwards with no cap on stack/vent	
STRU 15	SV315	3L Oven 4 Bypass	73	1.42	Null	Null	5,470	275	Estimate	Upwards with no cap on stack/vent	
STRU 16	SV316	3L Oven 5 Bypass	73	1.42	Null	Null	5,470	275	Estimate	Upwards with no cap on stack/vent	
STRU 17	SV317	3L Oven 6 Zone 1 Bypass	85.8	2.75	Null	Null	20,200	335	Estimate	Upwards with no cap on stack/vent	
STRU 18	SV318	3L Oven 6 Zone 2 Bypass	73	2.08	Null	Null	10,100	350	Estimate	Upwards with no cap on stack/vent	
STRU 19	SV319	3L Oven 6 Zone 3 Bypass	75	2.08	Null	Null	10,100	335	Estimate	Upwards with no cap on stack/vent	
STRU 20	SV320	3L Coating Station 1 Bypass	73	1.42	Null	Null	3,900	80	Estimate	Upwards with no cap on stack/vent	
STRU 21	SV321	3L Coating Station 2 Bypass	65.5	1.08	Null	Null	2,000	80	Estimate	Upwards with no cap on stack/vent	
STRU 22	SV322	3L Coating Station 3 Bypass	67.6	1.08	Null	Null	3,000	80	Estimate	Upwards with no cap on stack/vent	
STRU 23	SV323	3L Coating Station 4 Bypass	67.6	1.08	Null	Null	2,000	80	Estimate	Upwards with no cap on stack/vent	
STRU 24	SV324	3L Coating Station 5 Bypass	67.6	1.08	Null	Null	2,000	80	Estimate	Upwards with no cap on stack/vent	
STRU 25	SV325	3L Coating Station 6 Bypass	62.8	1.58	Null	Null	5,500	80	Estimate	Upwards with no cap on stack/vent	
STRU 27	SV327	Enterprise Coating Station Bypass	38	1	Null	Null	1,000	70	Estimate	Upwards with no cap on stack/vent	
STRU 28	SV328	Enterprise Oven 1 Bypass	38	1.5	Null	Null	2,000	100	Estimate	Upwards with no cap on stack/vent	
STRU 29	SV329	Enterprise Oven 2 Bypass 1	38	2.5	Null	Null	15,070	300	Estimate	Upwards with no cap on stack/vent	
STRU 30	SV330	Enterprise Oven 2 Bypass 2	38	1.5	Null	Null	5,650	300	Estimate	Upwards with no cap on stack/vent	
STRU 32	SV332	Enterprise Thermal Oxidizer	60	3.67	Null	Null	25,000	110	Estimate	Upwards with no cap on stack/vent	
STRU 33	SV333	19J Extruder Venturi Scrubber	65	2	Null	Null	10,500	70	Manufacturer	Upwards with no cap on stack/vent	
STRU 49	SV349	H1 Curing Chamber	44	2.17	Null	Null	11,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 51	SV363	LT3 Saturant Oven Exhaust 1	45	1.83	Null	Null	5,500	500	Estimate	Upwards with no cap on stack/vent	
STRU 52	SV364	LT3 Saturant Oven Exhaust 2	45	1.83	Null	Null	5,500	500	Estimate	Upwards with no cap on stack/vent	
STRU 53	SV365	LT3 Saturant Oven Exhaust 3	45	1.83	Null	Null	5,500	500	Estimate	Upwards with no cap on stack/vent	
STRU 54	SV366	LT3 Coating Oven Exhaust 1	45	1.83	Null	Null	5,500	490	Estimate	Upwards with no cap on stack/vent	
STRU 55	SV367	LT3 Coating Oven Exhaust 2	45	1.83	Null	Null	5,500	490	Estimate	Upwards with no cap on stack/vent	
STRU 57	SV369	8L Precoating 1 Oven	42	1.33	Null	Null	6,400	180	Estimate	Upwards with no cap on stack/vent	
STRU 58	SV370	8L Precoating 2 Oven	42	1.33	Null	Null	5,700	255	Estimate	Upwards with no cap on stack/vent	
STRU 59	SV371	8L Coating Oven Exhaust 1	45	1.83	Null	Null	9,200	165	Estimate	Upwards with no cap on stack/vent	
STRU 60	SV372	8L Coating Oven Exhaust 2	45	1.83	Null	Null	6,100	155	Estimate	Upwards with no cap on stack/vent	
STRU 61	SV373	8L Coating Oven Exhaust 3	45	1.83	Null	Null	3,400	165	Estimate	Upwards with no cap on stack/vent	

Stack/Vents

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Stack Height (feet)	Stack Diameter (feet)	Stack Length (feet)	Stack Width (feet)	Stack Flow Rate (cubic ft/min)	Discharge Temperature (°F)	Flow Rate/Temp Information Source	Discharge Direction	
STRU 62	SV374	8L Coating Oven Exhaust 4	45	1.83	Null	Null	2,700	165	Estimate	Upwards with no cap on stack/vent	
STRU 63	SV375	8L Coating Oven Exhaust 5	45	1.83	Null	Null	5,000	180	Estimate	Upwards with no cap on stack/vent	
STRU 64	SV376	8L Coating Oven Exhaust 6	45	1.83	Null	Null	3,400	195	Estimate	Upwards with no cap on stack/vent	
STRU 67	SV003	22 Coating Station	42.4	Null	1	1	3,000	200	Estimate	Upwards with no cap on stack/vent	
STRU 145	SV081	26 Oven Bypass	64	4	Null	Null	20,450	140	Estimate	Upwards with no cap on stack/vent	
STRU 146	SV082	27 Coater Oven Bypass	64	4	Null	Null	20,450	140	Estimate	Upwards with no cap on stack/vent	
STRU 147	SV083	28 Coater Oven	64	4	Null	Null	20,450	140	Estimate	Upwards with no cap on stack/vent	
STRU 153	SV089	26 Coating Station Bypass	50	1.5	Null	Null	2,750	70	Estimate	Upwards with no cap on stack/vent	
STRU 154	SV090	27 Coating Station	50	1.5	Null	Null	2,750	70	Estimate	Upwards with no cap on stack/vent	
STRU 155	SV091	28 Coating Station	50	1.5	Null	Null	2,750	75	Estimate	Upwards with no cap on stack/vent	
STRU 194	SV162	Solvent Tank 47	33	0.33	Null	Null	0	70	Estimate	Upwards with no cap on stack/vent	
STRU 197	SV165	Tank 42	53.4	0.33	Null	Null	0	70	Estimate	Upwards with no cap on stack/vent	
STRU 211	SV180	Mogul 2 Articulated Vent	37.3	0.67	Null	Null	600	70	Estimate	Upwards with no cap on stack/vent	
STRU 212	SV181	Mogul 2 Hood	31.4	Null	3	3	5,300	80	Estimate	Upwards with no cap on stack/vent	
STRU 213	SV182	Mogul 2 Vent	36.9	0.5	Null	Null	600	70	Estimate	Upwards with a cap on stack/vent	
STRU 214	SV183	Mogul 1 Articulated Vent	37.2	0.83	Null	Null	600	70	Test data	Upwards with no cap on stack/vent	
STRU 215	SV184	Mogul 1 Hood	39.7	Null	1.5	2	3,900	79	Test data	Upwards with no cap on stack/vent	
STRU 216	SV185	Mogul 1 Vent	36.9	0.5	Null	Null	600	70	Test data	Upwards with a cap on stack/vent	
STRU 217	SV186	Compounding Room 1 - Churns and Blenders	36.9	2	Null	Null	7,200	70	Estimate	Upwards with no cap on stack/vent	
STRU 218	SV187	Compounding Room 2 - Blenders	39.3	2	Null	Null	7,900	70	Estimate	Upwards with no cap on stack/vent	
STRU 219	SV188	Compounding Room 3 - Blender	39.6	2	Null	Null	7,100	70	Estimate	Upwards with no cap on stack/vent	
STRU 220	SV189	Compounding Room 4 - Cleaning Tanks	39.8	2	Null	Null	6,700	70	Estimate	Upwards with no cap on stack/vent	
STRU 221	SV190	1L Precoating Oven 1 Bypass	64.6	Null	1.5	1.5	9,460	375	Estimate	Upwards with no cap on stack/vent	
STRU 222	SV191	1L Precoating 2 Oven Bypass	61.4	Null	1.5	1.5	9,460	375	Estimate	Upwards with no cap on stack/vent	
STRU 224	SV193	1L Coating Oven Bypass 1	68.1	Null	3	4.5	50,400	375	Estimate	Upwards with no cap on stack/vent	
STRU 225	SV194	1L Coating Oven Bypass 2	64.2	Null	3	4	23,600	375	Estimate	Upwards with no cap on stack/vent	
STRU 228	SV201	5L Coating Oven Bypass 3	65	1.25	Null	Null	5,670	375	Estimate	Upwards with no cap on stack/vent	
STRU 230	SV203	5L Coating Oven Bypass 2	63	2	Null	Null	8,350	375	Estimate	Upwards with no cap on stack/vent	
STRU 231	SV205	5L Coating Station Bypass 1	61.5	1.33	Null	Null	2,200	75	Estimate	Upwards with no cap on stack/vent	
STRU 232	SV206	5L Coating Oven Bypass 1	64	3	Null	Null	23,500	375	Estimate	Upwards with no cap on stack/vent	
STRU 234	SV210	10J Venturi Scrubber	94.2	Null	2.5	2.5	8,500	70	Estimate	Upwards with no cap on stack/vent	
STRU 237	SV214	5L SRU Stripper	39.9	0.67	Null	Null	1,400	110	Test data	Downward	
STRU 238	SV215	5L Coating Station Bypass 2	28.7	3	Null	Null	25,500	80	Test data	Upwards with no cap on stack/vent	
STRU 239	SV216	5L Coating Station Bypass 3	28.7	3	Null	Null	25,500	80	Test data	Upwards with no cap on stack/vent	
STRU 242	SV219	6L Thermal Oxidizer	66.5	3	Null	Null	34,800	795	Test data	Upwards with no cap on stack/vent	
STRU 243	SV220	6L Precoating Stations 1&2 Bypass	38.4	Null	1	1.5	3,530	70	Test data	Upwards with no cap on stack/vent	

Stack/Vents

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Stack Height (feet)	Stack Diameter (feet)	Stack Length (feet)	Stack Width (feet)	Stack Flow Rate (cubic ft/min)	Discharge Temperature (°F)	Flow Rate/Temp Information Source	Discharge Direction	
STRU 244	SV221	Boiler 5	84.1	5	Null	Null	35,200	550	Estimate	Upwards with no cap on stack/vent	
STRU 245	SV222	Boiler 4	82.7	5	Null	Null	37,400	550	Estimate	Upwards with no cap on stack/vent	
STRU 246	SV223	Boiler 3	83.6	5	Null	Null	37,400	550	Estimate	Upwards with no cap on stack/vent	
STRU 247	SV224	LM3 Coating Station 1 Bypass	59	1.25	Null	Null	4,000	100	Estimate	Upwards with no cap on stack/vent	
STRU 248	SV225	LM3 Drying Oven 1A Bypass	65	2.42	Null	Null	10,500	250	Estimate	Upwards with no cap on stack/vent	
STRU 249	SV226	LM3 Oven 1B Bypass	60	1.33	Null	Null	3,000	350	Estimate	Upwards with no cap on stack/vent	
STRU 250	SV227	LM3 Coating Station 2 Bypass	64	1.83	Null	Null	7,100	100	Estimate	Upwards with no cap on stack/vent	
STRU 251	SV228	LM3 Drying Oven 2A Bypass	66	2.08	Null	Null	9,000	250	Estimate	Upwards with no cap on stack/vent	
STRU 252	SV229	LM3 Oven 2B Bypass	65	2.25	Null	Null	7,500	350	Estimate	Upwards with no cap on stack/vent	
STRU 253	SV230	LM3 Thermal Oxidizer	70	5.75	Null	Null	35,000	775	Estimate	Upwards with no cap on stack/vent	
STRU 292	SV274	6L Coating Oven Exhaust 1	42.5	Null	2.33	1.75	5,200	365	Estimate	Upwards with no cap on stack/vent	
STRU 293	SV275	6L Coating Oven Exhaust 2	42.5	Null	2.33	1.75	5,700	265	Estimate	Upwards with no cap on stack/vent	
STRU 294	SV276	6L Coating Oven Exhaust 3	42.5	Null	1.5	1.42	1,850	210	Estimate	Upwards with no cap on stack/vent	
STRU 295	SV277	6L Coating Oven Exhaust 4	42.5	Null	1.5	1.42	1,000	200	Estimate	Upwards with no cap on stack/vent	
STRU 296	SV278	6L Coating Oven Exhaust 5	42.5	Null	1.5	1.42	1,650	200	Estimate	Upwards with no cap on stack/vent	
STRU 297	SV279	6L Coating Oven Exhaust 6	42.5	Null	1.5	1.42	2,800	200	Estimate	Upwards with no cap on stack/vent	
STRU 298	SV280	H1 Coating Station	44	Null	1.21	1.35	4,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 299	SV281	H1 Extrusion	44	0.17	Null	Null	0.1	75	Estimate	Upwards with no cap on stack/vent	
STRU 310	SV296	7L Precoating Station/Oven 1	42	1.33	Null	Null	5,350	325	Estimate	Upwards with no cap on stack/vent	
STRU 311	SV297	7L Precoating Station/Oven 3	42	1.33	Null	Null	5,350	325	Estimate	Upwards with no cap on stack/vent	
STRU 312	SV298	7L Coating Station/Oven Exhaust 1	45	1.83	Null	Null	8,600	300	Estimate	Upwards with no cap on stack/vent	
STRU 313	SV299	7L Coating Station/Oven Exhaust 2	45	1.83	Null	Null	8,600	300	Estimate	Upwards with no cap on stack/vent	
STRU 314	SV300	7L Coating Station/Oven Exhaust 3	45	1.83	Null	Null	8,600	250	Estimate	Upwards with no cap on stack/vent	
STRU 315	SV378	1L/3L Thermal Oxidizer	60	Null	6	3.5	79,000	240	Estimate	Upwards with no cap on stack/vent	
STRU 362	SV351	Voyager Thermal Oxidizer	60	5	Null	Null	63,734	700	Estimate	Upwards with no cap on stack/vent	
STRU 363	SV352	Voyager Coating Station 1 Bypass	45	0.83	Null	Null	2,008	70	Estimate	Upwards with no cap on stack/vent	
STRU 364	SV353	Voyager Oven 1 Bypass	45	1.75	Null	Null	1,099	120	Estimate	Upwards with no cap on stack/vent	
STRU 365	SV354	Voyager Oven 2 Bypass 1	45	1.75	Null	Null	7,330	185	Estimate	Upwards with no cap on stack/vent	
STRU 366	SV355	Voyager Oven 2 Bypass 2	45	2.42	Null	Null	15,249	240	Estimate	Upwards with no cap on stack/vent	
STRU 367	SV356	Voyager Oven 2 Bypass 3	45	2	Null	Null	11,896	325	Estimate	Upwards with no cap on stack/vent	
STRU 368	SV357	Voyager Coating Station 2 Bypass	45	0.83	Null	Null	2,008	70	Estimate	Upwards with no cap on stack/vent	
STRU 369	SV358	Voyager Oven 3 Bypass	45	1.75	Null	Null	2,197	120	Estimate	Upwards with no cap on stack/vent	
STRU 370	SV359	Voyager Oven 4 Bypass 1	45	1.75	Null	Null	7,330	185	Estimate	Upwards with no cap on stack/vent	
STRU 371	SV360	Voyager Oven 4 Bypass 2	45	2.42	Null	Null	15,249	240	Estimate	Upwards with no cap on stack/vent	
STRU 372	SV361	Voyager Oven 4 Bypass 3	45	2	Null	Null	11,896	325	Estimate	Upwards with no cap on stack/vent	
STRU 374	SV377	26 Thermal Oxidizer	45	5	Null	Null	60,000	350	Estimate	Upwards with no cap on stack/vent	

Stack/Vents

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Stack Height (feet)	Stack Diameter (feet)	Stack Length (feet)	Stack Width (feet)	Stack Flow Rate (cubic ft/min)	Discharge Temperature (°F)	Flow Rate/Temp Information Source	Discharge Direction	
STRU 376	Null	22 Coater Oven	60	2	Null	Null	12,000	250	Estimate	Upwards with no cap on stack/vent	
STRU 379	Null	GEN-35 Stack	6	0.25	Null	Null	50	150	Estimate	Upwards with a cap on stack/vent	
STRU 381	Null	GEN-KOHLER Stack	40	0.33	Null	Null	75	150	Estimate	Horizontally	
STRU 382	Null	GEN-31 Stack	37	0.25	Null	Null	50	150	Estimate	Downward	
STRU 383	Null	GEN-33 Stack	32	0.25	Null	Null	50	150	Estimate	Horizontally	
STRU 384	Null	GEN-15 Stack	12	0.5	Null	Null	100	150	Estimate	Horizontally	
STRU 385	Null	GEN-16 Stack	11	0.25	Null	Null	50	150	Estimate	Horizontally	
STRU 386	Null	GEN-32 Stack	32	0.25	Null	Null	50	150	Estimate	Downward	
STRU 387	Null	Fire Pump 1 Stack	19	0.4	Null	Null	200	150	Estimate	Upwards with no cap on stack/vent	
STRU 388	Null	Fire Pump 2 Stack	19	0.4	Null	Null	200	150	Estimate	Upwards with no cap on stack/vent	
STRU 389	Null	APF1 Coating Applicator 1 Stack	1.67	1.3	Null	Null	500	70	Estimate	Upwards with no cap on stack/vent	
STRU 390	Null	APF1 Coating Applicator 2 Stack	1.67	1.3	Null	Null	500	70	Estimate	Upwards with no cap on stack/vent	
STRU 391	Null	APF2 Coating Applicator 1 Stack	1.67	1.3	Null	Null	500	70	Estimate	Upwards with no cap on stack/vent	
STRU 392	Null	APF2 Coating Applicator 2 Stack	1.67	1.3	Null	Null	500	70	Estimate	Upwards with no cap on stack/vent	
STRU 394	Null	Masking Systems Line 1 and 2 Stack	10	1.3	Null	Null	2,000	85	Estimate	Upwards with no cap on stack/vent	
STRU 397	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Stat...	9	0.7	Null	Null	250	70	Estimate	Horizontally	
STRU 398	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Stat...	9	0.7	Null	Null	250	70	Estimate	Horizontally	
STRU 399	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Stat...	9	0.7	Null	Null	250	70	Estimate	Horizontally	
STRU 400	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Stat...	9	0.7	Null	Null	250	70	Estimate	Horizontally	
STRU 401	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Stat...	9	0.7	Null	Null	250	70	Estimate	Horizontally	
STRU 402	Null	Excalibur Ink Printer/LAB Coater & Electric Dryer Stat...	9	0.7	Null	Null	250	70	Estimate	Horizontally	
STRU 408	Null	Voyager Compounding Room Transfer Rack Stack	45	1.66	Null	Null	1,600	70	Estimate	Upwards with no cap on stack/vent	
STRU 409	Null	22-28 Compounding Transfer Rack 1 Stack	52.4	4.58	Null	Null	26,500	70	Estimate	Upwards with no cap on stack/vent	
STRU 410	Null	22-28 Compounding Transfer Rack 2 Stack	52.5	3.6	Null	Null	12,000	70	Estimate	Upwards with no cap on stack/vent	
STRU 411	Null	Compounding Room 1 Transfer Rack Stack	36.9	2	Null	Null	7,200	70	Estimate	Upwards with no cap on stack/vent	
STRU 412	Null	Compounding Room 4 Transfer Rack Stack	39.8	2	Null	Null	6,700	70	Estimate	Upwards with no cap on stack/vent	
STRU 413	Null	North Plant Emergency Generator Stack	18	1.3	Null	Null	100	150	Estimate	Upwards with a cap on stack/vent	
STRU 414	Null	Acrylic Acid Bulk Storage Exhaust	25	0.5	Null	Null	1	70	Estimate	Horizontally	
STRU 415	Null	South Tank 2 Exhaust	33	0.33	Null	Null	1	70	Estimate	Upwards with no cap on stack/vent	
STRU 416	Null	South Tank 4 Exhaust	33	0.33	Null	Null	1	70	Estimate	Upwards with no cap on stack/vent	
STRU 417	Null	South Tank 5 Exhaust	33	0.33	Null	Null	1	70	Estimate	Upwards with no cap on stack/vent	
STRU 418	Null	South Tank 6 Exhaust	33	0.33	Null	Null	1	70	Estimate	Upwards with no cap on stack/vent	
STRU 419	Null	South Tank 13 Exhaust	20	0.33	Null	Null	1	70	Estimate	Upwards with no cap on stack/vent	
STRU 420	Null	Solvent Tank 44	33	0.33	Null	Null	1	70	Estimate	Upwards with no cap on stack/vent	
STRU 421	Null	South Tank 1 Exhaust	33	0.33	Null	Null	1	70	Estimate	Upwards with no cap on stack/vent	
STRU 422	Null	South Tank 3 Exhaust	33	0.33	Null	Null	1	70	Estimate	Upwards with no cap on stack/vent	

Stack/Vents

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Stack Height (feet)	Stack Diameter (feet)	Stack Length (feet)	Stack Width (feet)	Stack Flow Rate (cubic ft/min)	Discharge Temperature (°F)	Flow Rate/Temp Information Source	Discharge Direction	
STRU 423	Null	LT3 Printer Oven Stack	39	1.2	Null	Null	150	70	Estimate	Upwards with a cap on stack/vent	
STRU 424	Null	GEN-14 (NG, 469 HP)	12	0.5	Null	Null	100	150	Estimate	Upwards with a cap on stack/vent	
STRU 425	Null	SFS109	6	0.5	Null	Null	100	70	Estimate	Downward	
STRU 426	Null	APF1 Printer	7	Null	6	7	100	70	Estimate	Horizontally	
STRU 427	Null	APF2 Printer	7	Null	6	7	100	70	Estimate	Horizontally	
STRU 428	Null	4Y Extruder	74	Null	2.3	2.3	8,000	100	Estimate	Upwards with no cap on stack/vent	
STRU 429	Null	27 Corona Treater	9	0.58	Null	Null	800	70	Test data	Upwards with no cap on stack/vent	
STRU 430	Null	9J Corona Treater	58.3	Null	0.8	1.25	1,800	70	Estimate	Upwards with no cap on stack/vent	
STRU 431	Null	ST7 Corona Treater	52	1.5	Null	Null	1,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 432	Null	16J Corona Treater	39	1	Null	Null	3,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 433	Null	Microabrasives Compounding	47	Null	1	1.5	600	75	Estimate	Upwards with no cap on stack/vent	
STRU 434	Null	HazWaste Transfer Rack	43.4	4	Null	Null	7,200	70	Estimate	Upwards with no cap on stack/vent	
STRU 435	Null	ST6 Oven Exhaust 1	52	1.2	Null	Null	2,500	75	Estimate	Upwards with no cap on stack/vent	
STRU 436	Null	ST6 Oven Exhaust 2	52	1.5	Null	Null	4,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 437	Null	ST6 Oven Exhaust 3	60	2	Null	Null	2,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 438	Null	ST6 Oven Exhaust 4	60	1.5	Null	Null	3,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 439	Null	ST7 Oven Exhaust 1	52	1.2	Null	Null	2,500	75	Estimate	Upwards with no cap on stack/vent	
STRU 440	Null	ST7 Oven Exhaust 2	52	1.5	Null	Null	3,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 441	Null	ST7 Oven Exhaust 3	56	0.5	Null	Null	1,000	75	Estimate	Downward	
STRU 442	Null	ST7 Oven Exhaust 4	52	1.5	Null	Null	4,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 443	Null	NCC Compounding 2nd Floor Wash Tank and Equi..	52	Null	1	1.33	1,500	70	Estimate	Upwards with no cap on stack/vent	
STRU 444	Null	NCC Compounding Tunnel Wash Tank and Equipment ..	45	Null	2.33	2.66	3,100	70	Estimate	Horizontally	
STRU 445	Null	Enterprise Solution Delivery Wash Tank and Equipment ..	38	1.16	Null	Null	1,500	70	Estimate	Upwards with no cap on stack/vent	
STRU 446	Null	ST5 Equipment Leaks Stack	44	1.16	Null	Null	2,200	70	Estimate	Upwards with no cap on stack/vent	
STRU 447	Null	22 Coater Solution Delivery Wash Tank	46	Null	2.33	2.67	1,700	70	Estimate	Upwards with no cap on stack/vent	
STRU 448	Null	3L Coater Wash Tank	57	1	Null	Null	2,000	6,700	Estimate	Upwards with no cap on stack/vent	
STRU 449	Null	Bldg. 20 Compounding Wash Tanks	39.8	2	Null	Null	6,700	70	Estimate	Upwards with no cap on stack/vent	
STRU 450	Null	Tank 52 Barrier 1 (52-B-1) Exhaust	14	Null	12	14	100	80	Estimate	Horizontally	
STRU 451	Null	Tank 52 Primer 1 (52-P-1) Exhaust	14	Null	12	14	100	80	Estimate	Horizontally	
STRU 452	Null	Tank 52 Saturant 1 (52-S-1) Exhaust	14	Null	12	14	100	80	Estimate	Horizontally	
STRU 453	Null	Tank 52 Saturant 2 (52-S-2) Exhaust	14	Null	12	14	100	80	Estimate	Horizontally	
STRU 460	Null	5L Corona Treater	60	1.17	Null	Null	800	70	Manufacturer	Upwards with no cap on stack/vent	
STRU 485	Null	LM3 Corona Treater	58	0.66	Null	Null	1,000	75	Estimate	Horizontally	
STRU 486	Null	5L Primer Oven	60.4	Null	1	1	4,000	375	Estimate	Upwards with no cap on stack/vent	
STRU 487	Null	3L Corona Treater Exhaust	65.8	1.33	Null	Null	3,200	75	Estimate	Upwards with no cap on stack/vent	
STRU 489	Null	ST5 Coating Station	44	2.5	Null	Null	12,500	75	Estimate	Upwards with no cap on stack/vent	

Stack/Vents

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item ID	Delta Designation	Description	Stack Height (feet)	Stack Diameter (feet)	Stack Length (feet)	Stack Width (feet)	Stack Flow Rate (cubic ft/min)	Discharge Temperature (°F)	Flow Rate/Temp Information Source	Discharge Direction	
STRU 490	Null	ST5 Oven	44	0.5	Null	Null	500	75	Estimate	Upwards with no cap on stack/vent	
STRU 491	Null	ST6 Coating Oven Exhaust 1	52	1.5	Null	Null	3,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 494	Null	ST7 Coating Station Exhaust	52	1.5	Null	Null	3,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 495	SV239	LM3 Cleaning	53	Null	1.33	1.33	3,000	75	Estimate	Upwards with no cap on stack/vent	
STRU 496	SV244	ST6/ST7 Compounding A	52	0.67	Null	Null	500	75	Estimate	Upwards with no cap on stack/vent	
STRU 497	SV245	ST6/ST7 Compounding B	52	0.67	Null	Null	500	75	Estimate	Upwards with no cap on stack/vent	
STRU 498	SV246	ST6 Cleaning Exhaust	52	1.17	Null	Null	3,000	75	Estimate	Upwards with no cap on stack/vent	

Scrubbers

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item Type	Subject Item ID	Delta Designation	Description	Manufacturer (Model #)	Installation Start Date	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collect Efficiency (%)	Subject to CAM?	Large or Other PSEU?	Efficiency Basis	Other Basis Explanation	Min Pressure Drop (in. of water column)	Max Pressure Drop (in. of water column)	Min Liquid Flow Rate (gal/min)	
053-Venturi Scrubber	TREA 10	CE003	10J Venturi Scrubber		12/1/1990	Particulate Matter	80	90	No	Null	Other	10 year outside agency	32	40	80	
						PM < 10 micron	80	90	No	Null	Other	10 year outside agency	32	40	80	
	TREA 13	CE015	19J Venturi Scrubber	19J Venturi Scrubber	11/27/2002	Particulate Matter	80	90	No	Null	Other	10 year outside agency	32	40	80	
						PM < 10 micron	80	90	No	Null	Other	10 year outside agency	32	40	80	

Other Controls

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item Type	Subject Item ID	Delta Designation	Description	Manufacturer (Model #)	Installation Start Date	Pollutants Controlled	Capture Efficiency (%)	Destruction/ Collect Efficiency (%)	Subject to CAM?	Large or Other PSEU?	Efficiency Basis	Other Basis Explanation	Other operating parameters?	Other operating parameters description	
048-Activated Carbon Adsorption	TREA 11	CE008	5L Solvent Recovery Unit		1/1/1990	HAPs - Total	80	96	No	Null	Other	Mass Balance	No	Null	
						Volatile Organic Compounds	80	96	No	Null	Other	Mass Balance	No	Null	
074-Barometric Condenser	TREA 22	Null	Condenser	CMS (NA)	8/28/2020	Volatile Organic Compounds	100	90.7	No	Null	Test data	Null	Null	Null	

Direct Flame Afterburners

AI ID (Name): 4053 (3M Hutchinson)
Activity: IND20260001

Subject Item Type	Subject Item ID	Delta Designation	Description	Manufacturer (Model #)	Installation Start Date	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collect Efficiency (%)	Efficiency Basis	Other Basis Explanation	TO Burner Capacity (MMBTU/hr)	Inlet Temp/Outlet Temp (°F)	TO Min Combustion Temperature (°F)	TO Residence Time (secs)	
131-Thermal Oxidizer	TREA 6	CE018	Voyager Thermal Oxidizer	Durr Systems, Inc. (RL 40)	1/1/2009	HAPs - Volatile	99	98.7	Test data	Null	8.2	265/703	1,581	0.8	
						Volatile Organic Compounds	99	98.7	Test data	Null	8.2	265/703	1,581	0.8	
	TREA 8	CE020	1L/3L Thermal Oxidizer	Megtec (CS=600)	1/1/2011	HAPs - Volatile	99.7	97.1	Test data	Null	12.4	104/459	1,518	0.5	
						Volatile Organic Compounds	99.7	97.1	Test data	Null	12.4	104/459	1,518	0.5	
	TREA 12	CE014	Enterprise Thermal Oxidizer	Enterprise Thermal Oxidizer	1/1/2003	HAPs - Total	99.8	98.3	Test data	Null	4	185/260	1,584	0.8	
						Volatile Organic Compounds	99.8	98.3	Test data	Null	4	185/260	1,584	0.8	
	TREA 15	CE009	6L Thermal Oxidizer		1/1/1990	HAPs - Total	99.8	99.9	Test data	Null	10	125/100	1,298	1	
						Volatile Organic Compounds	99.8	99.9	Test data	Null	10	125/100	1,298	1	
	TREA 24	Null	26/27 Thermal Oxidizer	Durr Systems, Inc. (RL 60)	1/1/2007	HAPs - Volatile	99.9	97	Test data	Null	9.6	125/185	1,350	0.9	
						Volatile Organic Compounds	99.9	97	Test data	Null	9.6	125/185	1,350	0.9	

SI Id	Sequence	Requirement
TFAC 1	1245	The Permittee must comply with Minn. Stat. 116.385. The Permittee may not use trichloroethylene at its permitted facility including in any manufacturing, processing, or cleaning processes, except as described in Minn. Stat. 116.385, subd. 2(b) and 4. This is a state-only requirement and is not enforceable by the U.S. Environmental Protection Agency (EPA) Administrator and citizens under the Clean Air Act. [Minn. R. 7007.0100, subp. 7(X), Minn. Stat. 116.385]
	1260	PERMIT SHIELD: Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements. This permit shall not alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance. [Minn. R. 7007.1800(A)(2)]
	1290	Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee must comply with all requirements contained in; Appendix A. Insignificant Activities and general applicable requirements; Appendix B. Maximum Contents of Materials and Process Rate; Appendix C. 40 CFR Part 60, Subpart A – General Provisions; Appendix D. 40 CFR Part 63, Subpart A – General Provisions; and Appendix E. 40 CFR Part 63, Subpart UU – National Emission Standards for Equipment Leaks – Control Level 2 Standards. [Minn. R. 7007.0800, subp. 2(A) & (B)]
	1380	Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted. [Minn. R. 7011.0020]
	1390	The Permittee must at all times properly operate and maintain the facilities and systems of treatment and control and the appurtenances related to them that are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. [Minn. R. 7007.0800, subp. 16(J)]
	1400	Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 16(J)]
	1410	Operation Changes: In any shutdown, breakdown, or deviation the Permittee must immediately or as soon as possible considering plant and personnel safety take all practical steps to modify operations to reduce the emission of any regulated air pollutant. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment are permitted to operate. [Minn. R. 7019.1000, subp. 4]
	1420	Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150. [Minn. R. 7011.0150]
	1440	Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A). [Minn. R. 7007.0800, subp. 9(A)]
	1450	The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16. [Minn. R. 7007.0800, subp. 16]
	1460	Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in this permit. [Minn. R. ch. 7017]

SI Id	Sequence	Requirement
	1470	Performance Test Notifications and Submittals: Performance Test Notification and Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due seven days before each Performance Test Performance Test Report: due 45 days after each Performance Test The Notification, Test Plan, and Test Report must be submitted in a format specified by the commissioner. [Minn. R. 7017.2017, Minn. R. 7017.2030, subps. 1-4, Minn. R. 7017.2035, subps. 1-2]
	1490	Monitoring Equipment Calibration - The Permittee shall either: 1. Calibrate or replace required monitoring equipment every 12 months; or 2. Calibrate at the frequency stated in the manufacturer's specifications. For each monitor, the Permittee shall maintain a record of all calibrations, including the date conducted, and any corrective action that resulted. The Permittee shall include the calibration frequencies, procedures, and manufacturer's specifications (if applicable) in the Operations and Maintenance Plan. Any requirements applying to continuous emission monitors are listed separately in this permit. [Minn. R. 7007.0800, subp. 4(D)]
	1500	Operation of Monitoring Equipment: Unless noted elsewhere in this permit, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system. [Minn. R. 7007.0800, subp. 4(D)]
	1510	Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A). [Minn. R. 7007.0800, subp. 5(C)]
	1520	Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350, subp. 2), including records of the emissions resulting from those changes. [Minn. R. 7007.0800, subp. 5(B)]
	1540	If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format. [Minn. R. 7007.1200, subp. 4] These following 40 CFR 52.21(r)(6) requirements apply if a reasonable possibility (RP) as defined in 40 CFR 52.21(r)(6)(vi) exists that a proposed project, analyzed using the actual-to-projected-actual (ATPA) test (either by itself or as part of the hybrid test at 40 CFR 52.21(a)(2)(iv)(f)) and found to not be part of a major modification, may result in a significant emissions increase (SEI). If the ATPA test is not used for the project, or if there is no RP that the proposed project could result in a SEI, these requirements do not apply to that project. The Permittee is only subject to the Preconstruction Documentation requirement for a project where a RP occurs only within the meaning of 40 CFR 52.21(r)(6)(vi)(b). Even though a particular modification is not subject to New Source Review (NSR), or where there isn't a RP that a proposed project could result in a SEI, a permit amendment, recordkeeping, or notification may still be required by Minn. R. 7007.1150 - 7007.1500. [Minn. R. 7007.0800, subp. 2(A), Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	1550	Preconstruction Documentation -- Before beginning actual construction on a project, the Permittee shall document the following: 1. Project description 2. Identification of any emission unit whose emissions of an NSR pollutant could be affected 3. Pre-change potential emissions of any affected existing emission unit, and the projected post-change potential emissions of any affected existing or new emission unit. 4. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded due to increases not associated with the modification and that the emission unit could have accommodated during the baseline period, an explanation of why the amounts were excluded, and any creditable contemporaneous increases and decreases that were considered in the determination. The Permittee shall maintain records of this documentation. [Minn. R. 7007.0800, subps. 4-5, Minn. R. 7007.1200, subp. 4, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]
	1610	Shutdown Notifications: Notify the commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the Permittee does not have advance knowledge of the shutdown, the Permittee must notify the commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in items A, B, and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator must inform the commissioner of the cause of the shutdown and the estimated duration. The owner or operator must notify the commissioner when the shutdown is over. [Minn. R. 7019.1000, subp. 3]
	1620	Breakdown Notifications: Notify the commissioner within 24 hours of a breakdown of more than one hour of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in items A, B, and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the Permittee must inform the commissioner of the cause of the breakdown and the estimated duration. The Permittee must notify the commissioner when the breakdown is over. [Minn. R. 7019.1000, subp. 2]
	1630	Notification of Deviations Endangering Human Health or the Environment: Immediately after discovery of the deviation or immediately after when the deviation reasonably should have been discovered, notify the commissioner either orally or by e-mail, or telephone the state duty officer at 800-422-0798 or 651-649-5451, of any deviation from permit conditions that could endanger human health or the environment. [Minn. R. 7019.1000, subp. 1]
	1640	Notification of Deviations Endangering Human Health or the Environment Report: Within two working days of discovery, notify the commissioner in writing of any deviation from permit conditions that could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation. [Minn. R. 7019.1000, subp. 1]
	1650	The Permittee must submit a semiannual deviations report : Due semiannually, by the 30th of January and July. The first semiannual report submitted by the Permittee must cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. Submit this on form DRF-2 (Deviation Reporting Form). If no deviations have occurred, submit the signed report certifying that there were no deviations. [Minn. R. 7007.0800, subp. 6(B)(2)]

SI Id	Sequence	Requirement
	1670	Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed. Upon adoption of a new or amended federal applicable requirement, and if there are three or more years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150 - 7007.1500]
	1680	Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H). [Minn. R. 7007.1400, subp. 1(H)]
	1700	The Permittee must submit a compliance certification : Due annually, by the 31st of January (for the previous calendar year). Submit this on form CR-04 (Annual Compliance Certification Report). This report covers all deviations experienced during the calendar year. If no deviations have occurred, submit the signed report certifying that there were no deviations. [Minn. R. 7007.0800, subp. 6(D)]
	1703	Within 15 days of a request from the Commissioner, the Permittee must provide a complete summary of all performance tests required at the facility including the subject item, pollutant, most recent test date (if applicable), and the date of the next test in an approved format. [Minn. R. 7007.0800, subp. 16(L)]
	1710	The Permittee shall submit an application for permit reissuance : Due 180 calendar days before Permit Expiration Date. [Minn. R. 7007.0400, subp. 2]
	1730	Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. Submit in a format specified by the Commissioner. [Minn. R. 7019.3000-7019.3100]
	1740	Emission Fees: due 30 days after receipt of an MPCA bill. [Minn. R. 7002.0005-7002.0085]
	7450	The Permittee must comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0090. Compliance must be demonstrated upon written request by the MPCA. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
	7590	Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the U.S. Environmental Protection Agency (EPA) Administrator and citizens under the Clean Air Act. [Minn. R. 7030.0010-7030.0080]
	7640	Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's follow up compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change. [Minn. R. 7017.2025, subp. 3]
	7720	Post-change Emissions - The Permittee shall monitor the actual emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using the ATPA test, and the potential emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using potential emissions in the hybrid test. The Permittee shall calculate and maintain a record of the sum of the actual and potential (if the hybrid test was used in the analysis) emissions of the regulated pollutant, in tons per year on a calendar year basis, for a period of five years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity of or potential to emit of any unit associated with the project. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	7730	The Permittee must submit a report to the Agency if the annual summed (actual, plus potential if used in hybrid test) emissions differ from the preconstruction projection and exceed the baseline actual emissions by a significant amount as listed at 40 CFR 52.21(b)(23). Such report shall be submitted to the Agency within 60 days after the end of the year in which the exceedances occur. The report shall contain: a. The name and ID number of the Facility, and the name and telephone number of the Facility contact person; b. The annual emissions identified in the Post-change Emissions requirement (above); and c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]
COMG 3	3640	The limits in COMG 3 apply to each individual unit. [Minn. R. 7011.0710, subp. 1]
	3650	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0710, subp. 1(B)]
	3651	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0710, subp. 1(A)]
COMG 4	2	The Permittee must limit Volatile Organic Compounds <= 0.14 kilograms per kilograms (lbs of VOC emitted/lb of coating solids applied) calculated on a weighted average basis for a calendar month. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	3855	The Permittee must limit emissions of Volatile Organic Compounds <= 85 tons per year 12-month rolling sum (total mass of VOC) to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 4. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 4. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used in COMG 4 units. This must be based on production records maintained in written form or as computer files. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC and solids contents of each material as determined by the Material Content requirement in COMG 4; 2) The VOC emissions for the previous month using the formulas specified in COMG 4; 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months; and 4) The weighted average VOC emissions for the previous month using the formulas specified in 40 CFR 60.443(a)(2). [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: - V = total VOC used in tons/month; - A# = amount of each VOC-containing material used, in tons/month; - B# = weight percent VOC in A#, as a fraction; - W = the amount of VOC shipped in waste, in tons/month; - C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and - D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	4060	Material Content. VOC and solids contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC and solids contents. The Commissioner reserves the right to require the Permittee to determine the VOC and solids contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6980	Waste Credit: If the Permittee elects to obtain credit for solids and/or VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the solids and VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC and/or solids. 2) The Permittee may use supplier data for raw materials to determine the VOC and solids contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC and solids content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6990	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 4. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	7000	The Permittee must limit Volatile Organic Compounds ≤ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560] The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
	7001	Monitoring: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24 or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2): $G = \frac{\sum(W_{oi} * M_{ci})}{\sum(W_{si} * M_{ci})}$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W _{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M _{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W _{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	7002	Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	7003	The VOC content per unit of coating solids applied and compliance with 40 CFR 60.442(a)(1) shall be determined by either Method 24 and the equations specified in 40 CFR 60.443 or by manufacturers' formulation data. In the event of any inconsistency between a Method 24 test and manufacturers' formulation data, the Method 24 test will govern. The Administrator may require the Permittee to perform Method 24 tests during such months as deemed appropriate. For Method 24, the coating sample must be a one liter sample taken into a one liter container at a point where the sample will be representative of the coating applied to the web substrate. [40 CFR 60.446(a), Minn. R. 7011.2560]
	7004	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(a)-(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
COMG 5	2	The Permittee must limit Volatile Organic Compounds ≤ 0.14 kilograms per kilograms (lbs of VOC emitted/lb of coating solids applied) calculated on a weighted average basis for a calendar month. [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
	3860	Daily Recordkeeping. On each day of operation, the Permittee shall calculate, record, and maintain a record of the total quantity of each coating and other VOC-containing material used in COMG 5. This shall be based on written or electronic production records. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of this permit; and 2) The VOC emissions for the previous month using the formula below: $G = (\text{sum of } W_o * M) / (\text{sum of } W_s * M)$ Where: G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month W_o = the weight fraction of organics applied of each coating applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. W_s = the weight fraction of solids applied of each coating applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data M = the total mass (kg) of each coating applied during the calendar month as determined from facility records. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	4060	Material Content. VOC contents in materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6990	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 5. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	7000	The Permittee must submit an annual report by the 31st of January. The report must document the VOC monthly calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
COMG 8	5	The Permittee must limit emissions of Volatile Organic Compounds ≤ 113 tons per year 12-month rolling average (total mass of VOC emitted) to be calculated by the 15th day of each month for the previous 12-month period as described later in COMG 8. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 8. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 8. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	6	The Permittee shall limit Volatile Organic Compounds $\leq 3,018$ pounds per hour calendar month average of VOC applied to be calculated by the 15th day of each month for the previous month based on records of the amount of VOC applied and hours of operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]
	8	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Volatile Organic Compounds ≥ 80 percent control efficiency when using coating solutions that are not low VOC as defined in this permit. The Permittee may operate COMG 8 emission units without operating TREA 11 when using low VOC coating solutions (as defined in COMG 8). See Subject Item TREA 11 for specific operating requirements. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	9	For purposes of COMG 8, coating solutions are considered to be "low VOC" when the VOC content is less than or equal to 10 percent by weight. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	3855	Maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or re-qualification of an existing product. Documentation of maximum VOC input rate is not required for experimental runs (actual VOC as applied and emitted are required in accordance with other requirements). The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as established in the product standard. Percent VOC shall be determined according to Reference Method 24, the coating manufacturer's formulation data, or an alternative method approved by the Commissioner. [Minn. R. 7007.0800, subps. 4-5]
	3860	The Permittee must vent emissions from EQUI 14 and EQUI 188 to control equipment meeting the requirements of TREA 11 whenever EQUI 14 or EQUI 188 operate and are not using low VOC coating solutions. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	4040	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each material and other VOC-containing material used at each emission unit (EQUIs 14, 184, and 188) listed under COMG 8. This shall be based on written or electronic usage logs. Daily records must include, but are not limited to, the VOC weight fraction of each material used, the total weight of material used, and the time periods during which coatings or solutions that are not "low VOC" coatings or solutions are in use. The VOC content shall be determined as specified under the Material Content condition listed in COMG 8. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	4050	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of COMG 8; 2) The VOC emissions for the previous month using the formulas specified in COMG 8; and 3) The 12-month rolling average VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months and dividing by 12. [Minn. R. 7007.0800, subps. 4-5]
	4060	Volatile Organic Compounds: Monthly Calculations. The Permittee shall calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1 \times (1-EF)) + (A2 \times B2 \times (1-EF)) + (A3 \times B3 \times (1-EF)) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; EF = control efficiency of TREA 11. If TREA 11 was not operated because a Low VOC or water based material was used, EF = 0 for that material. W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	6980	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6990	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	19650	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 8. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a] The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling average calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
COMG 9	3	The Permittee must limit emissions of Volatile Organic Compounds ≤ 0.037 kilograms per kilograms (lbs of VOC emitted/lb of coating solids applied) (total mass of VOC) as a calendar month average. This is a limit on emissions, not a usage limit, and is equivalent to 0.037 lbs of VOC emitted/lb of coating solids applied. When applying low-solvent coatings (coatings with less than 0.037 lb VOC/lb coating solids applied), this limit may be met without the operation of pollution control equipment (See Subject Item TREA 15). [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
	4	The Permittee must limit usage of Volatile Organic Compounds $\leq 3,725$ pounds per hour of VOC, as a calendar month average based on records of the amount of VOC applied and actual time in operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]
	6	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Volatile Organic Compounds ≥ 95 percent control efficiency when using coating solutions that are not low VOC when operating any emission unit in COMG 9. Low VOC coating solutions (as defined in COMG 9) may be used without operating control equipment. See Subject Item TREA 15 for specific operating requirements. [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
	8	Low VOC coating solutions are defined as coatings with VOC content less than 5% by weight for COMG 9. Low VOC coating solutions may be used without operation of control equipment when operating COMG 9 emission units. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	9	Maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or re-qualification of an existing product. Documentation of maximum VOC input rate is not required for experimental runs (actual VOC as applied and emitted are required in accordance with other requirements). The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as established in the product standard. Percent VOC shall be determined by Reference Method 24, the Material Content requirements of this permit, or an alternative method approved by the Commissioner. [Minn. R. 7007.0800, subps. 4-5]
	3855	Daily Recordkeeping. On each day of operation, the Permittee shall calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at COMG 9. The Permittee shall maintain records in written form or computer files. Daily records shall include the VOC weight fraction of each material used, the total weight of material used, and the time periods during which coatings or solutions that are not "low VOC" coatings or solutions are in use. The VOC content shall be determined as specified under the Material Content condition listed in COMG 9. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	3860	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. As part of the Annual Report, the Permittee must verify and certify that the Facility has maintained minor source status for New Source Review. [Minn. R. 7007.0800, subp. 2(A)]
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC and solids contents of each material as determined by the Material Content requirement of COMG 9; and 2) The weighted average VOC emissions for the previous month using the formulas specified in 40 CFR 60.443(a)(2). [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	4060	Material Content. VOC and solids contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC and solids contents. The Commissioner reserves the right to require the Permittee to determine the VOC and solids contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6530	Waste Credit: If the Permittee elects to obtain credit for solid and/or VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the solid and/or VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC and solids. 2) The Permittee may use supplier data for raw materials to determine the VOC and solids contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC and solids content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	6540	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 9. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	6550	40 CFR pt. 60, subp. RR Compliance Options: For each calendar month, the Permittee must be in compliance with Option A or B to meet the standards in 40 CFR 60.442(a) for the entire month. The Permittee may switch between Option A and B. The Permittee must keep records to show which option the Permittee is demonstrating compliance with for the calendar month and keep all applicable records for the chosen compliance option. Calculations required to show compliance must be completed by the 15th day after the end of each month. [40 CFR pt. 60, subp. RR, Minn. R. 7011.2560]
	6560	Option A: The Permittee must limit Volatile Organic Compounds $\geq$ 90 percent overall VOC emission reduction as calculated over a calendar month for each affected facility; or The Permittee must demonstrate the percent overall VOC emission reduction specified in 40 CFR 60.443(b) as calculated over a calendar month. [40 CFR 60.442(a)(2), Minn. R. 7011.2560]
	6580	Option A Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2); $G = \text{SUM}(W_{oi} * M_{ci}) / \text{SUM}(W_{si} * M_{ci})$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. [40 CFR 60.443(a), Minn. R. 7011.2560]
	6600	Option A Compliance: To determine compliance with 40 CFR 60.442(a)(2), the Permittee shall calculate the required overall VOC emission reduction, R_q, according to the equation in 40 CFR 60.443(b); $R_q = ((G - 0.20) / G) \times 100$ where R_q = the required overall VOC emission reduction (in percent). G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. If R_q is less than or equal to 90 percent, then the required overall VOC emission reduction is R_q. If R_q is greater than 90 percent, then the required overall VOC emission reduction is 90 percent. [40 CFR 60.443(b), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	6630	Option A Monitoring: The Permittee shall compare the monthly required overall VOC emission reduction specified in 40 CFR 60.443(b) to the overall VOC emission reduction demonstrated in the most recent performance test which complied with 40 CFR 60.442(a)(2). The monthly required overall VOC emission reduction must be less than or equal to the overall VOC reduction of the most recent performance test. [40 CFR 60.443(d), Minn. R. 7011.2560]
	6650	Option A Monthly Records: By the 15th day of each calendar month, the Permittee shall calculate and maintain a record of the VOC percentage reduction required for the previous calendar month for COMG 9, and the actual VOC percentage reduction achieved for COMG 9. [40 CFR 60.443(f), Minn. R. 7011.2560]
	6670	Option A: Startups and shutdowns are normal operation for this affected facility. Emissions from these operations are to be included when determining if the standard specified at 40 CFR 60.442(a)(2) is being attained. [40 CFR 60.443(j), Minn. R. 7011.2560]
	6681	Option A Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	6683	Option B: The Permittee must limit Volatile Organic Compounds ≤ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560]
	6684	Option B Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2): $G = \frac{\sum(W_{oi} * M_{ci})}{\sum(W_{si} * M_{ci})}$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]
	6980	Option B Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	6990	Option A and Option B: The VOC content per unit of coating solids applied and compliance with 40 CFR 60.442(a)(1) shall be determined by either Method 24 and the equations specified in 40 CFR 60.443 or by manufacturers' formulation data. In the event of any inconsistency between a Method 24 test and manufacturers' formulation data, the Method 24 test will govern. The Administrator may require the Permittee to perform Method 24 tests during such months as deemed appropriate. For Method 24, the coating sample must be a one liter sample taken into a one liter container at a point where the sample will be representative of the coating applied to the web substrate. [40 CFR 60.446(a), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	7000	Option A and Option B: The Permittee shall maintain and retain records of the measurements required in 40 CFR 60.443 and 60.445 for at least two years following the date of the measurements. Minn. R. 7007.0800, subp. 5(C) requires that all records be retained for an additional three years, for a total of five years from the date of generation. [40 CFR 60.445(h), Minn. R. 7007.0800, subp. 5(C), Minn. R. 7011.2560]
	35703	The Permittee shall install, calibrate, maintain, and operate a monitoring device which continuously indicates and records the temperature of the solvent destruction device's exhaust gases. The monitoring device shall have an accuracy of the greater of +/- 0.75 percent of the temperature being measured expressed in degrees Celsius or +/- 2.5 degrees C. [40 CFR 60.445(e), Minn. R. 7011.2560]
	35713	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.7(f); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
	35714	40 CFR pt. 60, subp. FFF: The Permittee shall use inks with a weighted average VOC content less than 1.0 kilogram VOC per kilogram ink solids. [40 CFR 60.582(a)(1), Minn. R. 7011.3150]

SI Id	Sequence	Requirement
	35716	To demonstrate compliance with 40 CFR 60.582(a)(1), the Permittee shall determine the weighted average VOC content of the inks according to the following procedures: (1) Determine and record the VOC content and amount of each ink used at the print head, including the VOC content and amount of diluent solvent, for any time periods when VOC emission control equipment is not used. (2) Compute the weighted average VOC content by the equation in 40 CFR 60.583(b)(2); $G = (\text{SUM}(\text{WoiMci}) + \text{SUM}(\text{WojMdj})) / \text{SUM}(\text{MciWsi})$ where G = the weighted average mass of VOC per mass of ink solids applied, in kilograms per kilogram Woi = the weight fraction of VOC in each ink (i) used in the time period as determined from Method 24, manufacturer's formulation data, or plant blending records, in kilograms per kilogram. Mci = the total mass of each ink (i) applied in the time period as determined from plant records, in kilograms. Woj = the weight fraction of VOC in each dilution solvent (j) added at the print line in the time period determined from Method 24, manufacturer's formulation data, or plant blending records, in kilograms per kilogram. Mdj = the total mass of each dilution solvent (j) added at the print line in the time period determined from plant records, in kilograms. Wsi = means the weight fraction of solids in each ink (i) used in the time period as determined from Method 24, manufacturer's formulation data, or plant blending records, in kilograms per kilogram. (3) The weighted average VOC content of the inks shall be calculated over a period that does not exceed one calendar month, or four consecutive weeks. A facility that uses an accounting system based on quarters consisting of two 28 calendar day periods and one 35 calendar day period may use an averaging period of 35 calendar days four times per year, provided the use of such an accounting system is documented in the initial performance test. (4) Each determination of the weighted average VOC content shall constitute a performance test for any period when VOC emission control equipment is not used. Results of the initial performance test must be reported to the Administrator. Method 24 or ink manufacturers' formulation data along with plant blending records (if plant blending is done) may be used to determine VOC content. The Administrator may require the use of Method 24 if there is a question concerning the accuracy of the ink manufacturer's data or plant blending records. (5) If, during the time periods when emission control equipment is not used, all inks used contain less than 1.0 kilogram VOC per kilogram ink solids, the Permittee is not required to calculate the weighted average VOC content, but must verify and record the VOC content of each ink (including any added dilution solvent) used as determined by Method 24, ink manufacturers' formulation data, or plant blending records. [40 CFR 60.583(b), Minn. R. 7011.3150]

SI Id	Sequence	Requirement
	35717	To demonstrate compliance with 40 CFR 60.582(a)(1), the Permittee may determine the weighted average VOC content using an inventory system. (1) The inventory system shall accurately account to the nearest kilogram for the VOC content of all inks and dilution solvent used, recycled, and discarded for each affected facility during the averaging period. Separate records must be kept for each affected facility. (2) To determine VOC content of inks and dilution solvent used or recycled, Method 24 or ink manufacturers' formulation data must be used in combination with plant blending records (if plant blending is done) or inventory records or purchase records for new inks or dilution solvent. (3) For inks to be discarded, only Method 24 shall be used to determine the VOC content. Inks to be discarded may be combined prior to measurement of volume or weight and testing by Method 24. (4) The Administrator may require the use of Method 24 if there is a question concerning the accuracy of the ink manufacturer's data or plant records. (5) The Administrator shall approve the inventory system of accounting for VOC content prior to the initial performance test. [40 CFR 60.583(c), Minn. R. 7011.3150]
	35718	The Permittee shall submit semiannual reports to the Administrator of occurrences of exceedances of the weighted average VOC content specified in 40 CFR 60.582(a)(1). The Permittee shall postmark the semiannual reports within 30 days following the end of the second and fourth calendar quarters. [40 CFR 60.585(b)(1), 40 CFR 60.585(c), Minn. R. 7011.3150]
	35719	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(a)-(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4).

SI Id	Sequence	Requirement
		A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. FFF, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.3150, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
	35720	The Permittee must submit an annual report by the 31st of January. The report must document the VOC monthly calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
	35721	Option A: The Permittee shall submit a report: Due by 30 days after end of each calendar half-year. The Permittee shall submit reports semiannually when the TREA 15 temperature drops as defined under 40 CFR 63.443(e). If no such periods occur, the Permittee shall state this in the report. The report shall be submitted with the Semiannual Deviations Report listed in this permit. [40 CFR 60.447(c), Minn. R. 7011.2560]
COMG 11	3830	The Permittee must limit Operating Hours $\leq$ 346 hours per month 12-month rolling average (EQUIs 124, 125, and 126 combined) to be calculated by the 15th day of each month for the previous 12-month period as described later in COMG 11. Hours of operation are defined as hours that at least one COMG 11 cleaning tank lid is open. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	3840	Hours: Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total hours of operation. This must be based on written or electronic logs and/or hour meter readings. The Permittee must maintain records in an electronic format. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	3850	Hours: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total hours of operation for the previous calendar month using the daily records; and 2) The 12-month rolling average hours of operation for the previous 12-month period by summing the monthly hours of operation for the previous 12 months and dividing by 12 months. [Minn. R. 7007.0800, subps. 4-5]
COMG 14	6	The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 195 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in COMG 14. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 14. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 14. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	7	The Permittee must limit usage of Volatile Organic Compounds $\leq$ 2,846 pounds per hour calendar month average based on records of the amount of VOC applied and the hours of operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]
	8	The Permittee must use coating solutions that have a VOC content less than or equal to 0.14 pounds of VOC per pound of solids applied. These coatings are considered "low VOC" coatings. [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
	9	The Permittee must operate and maintain control equipment that meets or exceeds a control efficiency of Volatile Organic Compounds $\geq$ 96 percent control efficiency before using coating solutions greater than 0.14 pounds of VOC per pound of solids applied in any emission unit in COMG 14 and must first apply for the appropriate amendment to incorporate such changes. [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
	11	Before using coating solutions greater than 0.14 pounds of VOC per pound of solids applied, the Permittee must test for capture efficiency using a temporary total enclosure around the LM3 coating operations. Under normal operation, captured VOC emissions must be directed to the control equipment. In the case where a coating station is using "low VOC" solutions or simply not applying material, emissions may be vented to atmosphere. [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	18	The Permittee shall demonstrate the temporary total enclosure is maintained by meeting the following criteria to determine the capture efficiency during testing: - Any natural draft opening (NDO) shall be at least four equivalent diameters from each VOC emitting point. - The total area of all NDOs shall not exceed five percent of the surface area of the enclosure's four walls, floor, & ceiling. - The average face velocity of air through all NDOs shall be at least 200 ft/min. The direction of air through all NDOs shall be into the enclosure. - All access doors & windows not included as NDOs & not included in the calculation of face velocities shall be closed during normal operation of the process. [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at the facility. This must be based on written or electronic usage logs. Daily records shall include the VOC weight fraction of each material used, and the total weight of material used. The VOC content shall be determined as specified under the Material Content condition listed in COMG 14. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: - The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of this permit; - The VOC emissions for the previous month using the formulas specified in this permit; and - The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	4050	Maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or requalification of an existing product. Documentation of maximum VOC input rate is not required for experimental runs (actual VOC as applied and emitted are required in accordance with other requirements). The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as established in the product standard. Percent VOC shall be determined by Reference Method 24, the coating manufacturer's formulation data, or an alternative method approved by the Commissioner. [Minn. R. 7007.0800, subps. 4-5]
	4060	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
		Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6980	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6990	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 14. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	7000	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
COMG 16	5	Volatile Organic Compounds $\geq$ 96 percent control efficiency when running VOC-based (as opposed to water or low VOC based) coatings on the line. Water or low VOC based coatings (as defined in COMG 16) may be run without control. See also Subject Item: TREA 12. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	3855	The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 92.6 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in COMG 16. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 16. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 16. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC material used at the facility. This must be based on written or electronic usage logs. Daily records shall include the VOC weight fraction of each material used, the total weight of material used, and the time periods during which the thermal oxidizer (TREA 12) and coatings or solutions that are not "low VOC" or "water-based" coatings or solutions are in use. The VOC content shall be determined as specified under the Material Content condition listed below. The Permittee must maintain records in written form or as computer files. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC and solids contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
		Low VOC or water based coating solutions are defined as coatings with VOC content less than 4% by weight for COMG 16. [Minn. R. 7007.0800, subp. 2(A)]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1 \times (1 - EF)) + (A2 \times B2 \times (1 - EF)) + (A3 \times B3 \times (1 - EF)) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; EF = the control efficiency of TREA 12. If TREA 12 was not operated because a "low VOC" or "water based" coating or material was used, then EF = 0. W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	4060	Material Content. VOC and solids contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC and solids contents. The Commissioner reserves the right to require the Permittee to determine the VOC and solids contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6540	Waste Credit: If the Permittee elects to obtain credit for solids and/or VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC and/or solids content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC and solids. 2) The Permittee may use supplier data for raw materials to determine the VOC and solids contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC and solids content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6550	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 16. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	6551	40 CFR pt. 60, subp. RR Compliance Options: For each calendar month, the Permittee must be in compliance with Option A or B to meet the standards in 40 CFR 60.442(a) for the entire month. The Permittee may switch between Option A and B. The Permittee must keep records to show which option the Permittee is demonstrating compliance with for the calendar month and keep all applicable records for the chosen compliance option. Calculations required to show compliance must be completed by the 15th day after the end of each month. [40 CFR pt. 60, subp. RR, Minn. R. 7011.2560]
	6560	Option A: The Permittee must limit Volatile Organic Compounds $\geq$ 90 percent overall VOC emission reduction as calculated over a calendar month for each affected facility; or The Permittee shall demonstrate the percent overall VOC emission reduction specified in 40 CFR 60.443(b) as calculated over a calendar month. [40 CFR 60.442(a)(2), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	6580	Option A Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the following equation, as listed in 40 CFR 60.443(a)(2); $G = \text{SUM}(W_{oi} * M_{ci}) / \text{SUM}(W_{si} * M_{ci})$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. [40 CFR 60.443(a), Minn. R. 7011.2560]
	6590	Option A Compliance: To determine compliance with 40 CFR 60.442(a)(2), the Permittee shall calculate the required overall VOC emission reduction, R_q, according to the equation in 40 CFR 60.443(b); $R_q = ((G - 0.20) / G) \times 100$ where R_q = the required overall VOC emission reduction (in percent). G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. If R_q is less than or equal to 90 percent, then the required overall VOC emission reduction is R_q. If R_q is greater than 90 percent, then the required overall VOC emission reduction is 90 percent. [40 CFR 60.443(b), Minn. R. 7011.2560] Option A Monitoring: The Permittee shall compare the monthly required overall VOC emission reduction specified in 40 CFR 60.443(b) to the overall VOC emission reduction demonstrated in the most recent performance test which complied with 40 CFR 60.442(a)(2). The monthly required overall VOC emission reduction must be less than or equal to the overall VOC reduction of the most recent performance test. [40 CFR 60.443(d), Minn. R. 7011.2560]
	6600	Option A: Startups and shutdowns are normal operation for this affected facility. Emissions from these operations are to be included when determining if the standard specified at 40 CFR 60.442(a)(2) is being attained. [40 CFR 60.443(j), Minn. R. 7011.2560]
	6610	Option A Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	6640	Option A Monthly Records: By the 15th day of each calendar month, the Permittee shall calculate and maintain a record of the VOC percentage reduction required for the previous calendar month for COMG 16, and the actual VOC percentage reduction achieved for COMG 16. [40 CFR 60.443(f), Minn. R. 7011.2560]
	35700	Option B: The Permittee must limit Volatile Organic Compounds ≤ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	35710	Option B Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2): $G = \text{SUM}(W_{oi} * M_{ci}) / \text{SUM}(W_{si} * M_{ci})$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]
	35711	Option B Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	35713	Option A and B: The Permittee shall maintain and retain records of the measurements required in 40 CFR 60.443 and 60.445 for at least two years following the date of the measurements. Minn. R. 7007.0800, subp. 5(C) requires that all records be retained for an additional three years, for a total of five years from the date of generation. [40 CFR 60.445(h), Minn. R. 7007.0800, subp. 5(C), Minn. R. 7011.2560]
	35714	Option A and Option B: The VOC content per unit of coating solids applied and compliance with 40 CFR 60.442(a)(1) shall be determined by either Method 24 and the equations specified in 40 CFR 60.443 or by manufacturers' formulation data. In the event of any inconsistency between a Method 24 test and manufacturers' formulation data, the Method 24 test will govern. The Administrator may require the Permittee to perform Method 24 tests during such months as deemed appropriate. For Method 24, the coating sample must be a one liter sample taken into a one liter container at a point where the sample will be representative of the coating applied to the web substrate. [40 CFR 60.446(a), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	35715	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.7(f); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(a)-(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
	35717	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
	35718	Option A: The Permittee shall submit a report: Due by 30 days after end of each calendar half-year. The Permittee shall submit reports semiannually when the TREA 12 temperature drops as defined under 40 CFR 63.443(e). If no such periods occur, the Permittee shall state this in the report. The report shall be submitted with the Semiannual Deviations Report listed in this permit. [40 CFR 60.447(c), Minn. R. 7011.2560]
COMG 17	6	The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 454.2 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 17. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 17. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	3855	Volatile Organic Compounds $\geq$ 96 percent control efficiency when running VOC-based (as opposed to low VOC or water-based) coatings on the line. Water based or low VOC based coatings (as defined in COMG 17) may be run without control. See also Subject Item: TREA 6. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000] Low VOC or water based coating solutions are defined as coatings with VOC content less than 4% by weight. [Minn. R. 7007.0800, subp. 2]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at the facility. This must be based on written or electronic usage logs. Daily records shall include the VOC weight fraction of each material used, the total weight of material used, and the time periods during which the thermal oxidizer (TREA 6) and coatings or solutions that are not "low VOC" or "water-based" coatings or solutions are in use. The VOC content shall be determined as specified under the Material Content condition listed in COMG 17. The Permittee shall maintain records in written form or as computer files. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1 \times (1 - EF)) + (A2 \times B2 \times (1 - EF)) + (A3 \times B3 \times (1 - EF)) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; EF = the control efficiency of TREA 6. If TREA 6 was not operated because a "low VOC" or "water based" coating or material was used, then EF = 0. W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	4060	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 17. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	6540	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	6550	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)] Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6560	40 CFR pt. 60, subp. RR Compliance Options: For each calendar month, the Permittee must be in compliance with Option A or B to meet the standards in 40 CFR 60.442(a) for the entire month. The Permittee may switch between Option A and B. The Permittee must keep records to show which option the Permittee is demonstrating compliance with for the calendar month and keep all applicable records for the chosen compliance option. Calculations required to show compliance must be completed by the 15th day after the end of each month. [40 CFR pt. 60, subp. RR, Minn. R. 7011.2560]
	6650	Option A: The Permittee must limit Volatile Organic Compounds $\geq$ 90 percent overall VOC emission reduction as calculated over a calendar month for each affected facility; or The Permittee shall demonstrate the percent overall VOC emission reduction specified in 40 CFR 60.443(b) as calculated over a calendar month. [40 CFR 60.442(a)(2), Minn. R. 7011.2560]
	6660	Option A Monitoring: The Permittee shall compare the monthly required overall VOC emission reduction specified in 40 CFR 60.443(b) to the overall VOC emission reduction demonstrated in the most recent performance test which complied with 40 CFR 60.442(a)(2). The monthly required overall VOC emission reduction must be less than or equal to the overall VOC reduction of the most recent performance test. [40 CFR 60.443(d), Minn. R. 7011.2560]
	6661	Option A Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the following equation, as listed in 40 CFR 60.443(a)(2); $G = \frac{\sum(W_{oi} * M_{ci})}{\sum(W_{si} * M_{ci})}$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. [40 CFR 60.443(a), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	6670	Option A Compliance: To determine compliance with 40 CFR 60.442(a)(2), the Permittee shall calculate the required overall VOC emission reduction, Rq, according to the equation in 40 CFR 60.443(b); $Rq = ((G - 0.20)/G) \times 100$ where Rq = the required overall VOC emission reduction (in percent). G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. If Rq is less than or equal to 90 percent, then the required overall VOC emission reduction is Rq. If Rq is greater than 90 percent, then the required overall VOC emission reduction is 90 percent. [40 CFR 60.443(b), Minn. R. 7011.2560]
	6980	Option A: Startups and shutdowns are normal operation for this affected facility. Emissions from these operations are to be included when determining if the standard specified at 40 CFR 60.442(a)(2) is being attained. [40 CFR 60.443(j), Minn. R. 7011.2560]
	35700	Option A Monthly Records: By the 15th day of each calendar month, the Permittee shall calculate and maintain a record of the VOC percentage reduction required for the previous calendar month for COMG 17, and the actual VOC percentage reduction achieved for COMG 17. [40 CFR 60.443(f), Minn. R. 7011.2560]
	35704	Option A Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	35706	Option B: The Permittee must limit Volatile Organic Compounds ≤ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560]
	35707	Option B Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2): $G = \text{SUM}(W_{oi} * M_{ci}) / \text{SUM}(W_{si} * M_{ci})$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]
	35708	Option B Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	35709	Option A and Option B: The Permittee shall maintain and retain records of the measurements required in 40 CFR 60.443 and 60.445 for at least two years following the date of the measurements. Minn. R. 7007.0800, subp. 5(C) requires that all records be retained for an additional three years, for a total of five years from the date of generation. [40 CFR 60.445(h), Minn. R. 7007.0800, subp. 5(C), Minn. R. 7011.2560]
	35711	Option A and Option B: The VOC content per unit of coating solids applied and compliance with 40 CFR 60.442(a)(1) shall be determined by either Method 24 and the equations specified in 40 CFR 60.443 or by manufacturers' formulation data. In the event of any inconsistency between a Method 24 test and manufacturers' formulation data, the Method 24 test will govern. The Administrator may require the Permittee to perform Method 24 tests during such months as deemed appropriate. For Method 24, the coating sample must be a one liter sample taken into a one liter container at a point where the sample will be representative of the coating applied to the web substrate. [40 CFR 60.446(a), Minn. R. 7011.2560]
	35712	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.6(b); 40 CFR 60.7(a)(1); 40 CFR 60.7(a)(3)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.7(f); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(a)-(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(f); 40 CFR 60.18(g)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R.

SI Id	Sequence	Requirement
		7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
	35714	Option A: The Permittee shall submit a report: Due by 30 days after end of each calendar half-year. The Permittee shall submit reports semiannually when the TREA 6 temperature drops as defined under 40 CFR 63.443(e). If no such periods occur, the Permittee shall state this in the report. The report shall be submitted with the Semiannual Deviations Report listed in this permit. [40 CFR 60.447(c), Minn. R. 7011.2560]
COMG 18	1	The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 40 tons per year 12-month rolling sum (total mass of VOC emitted) to be calculated by the 15th day of each month for the previous 12-month period. This is a limit on total combined VOC emissions from coating line ST5 (EQUI 38 and EQUI 271), coating line ST6 (EQUI 36 and EQUI 272), and all other emission units in COMG 18. VOC usage shall be recorded on a daily basis. VOC contents for each VOC-containing material must be determined as described under the Material Content requirement in COMG 18. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 18. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used. This must be based on production records maintained in written form or as computer files. These daily records shall include, but are not limited to the VOC weight of each coating used per batch, the total weight of coating used per batch. VOC emissions from any ancillary processes shall be included in the detailed recordkeeping. The VOC content of the coating shall be determined by Reference Method 24, the coating manufacturer's formulation data, or an alternative method approved by the Commissioner. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	4040	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee must calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record must also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]

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	4060	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6980	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6990	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 18. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	7000	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
COMG 20	2	The Permittee must limit usage of Volatile Organic Compounds $\leq 4,725$ pounds per hour calendar month average, based on records of the amount of VOC applied and hours of operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2]
	4	Recordkeeping of maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or requalification of an existing product. Documentation of maximum VOC input rate is not required for experimental runs (actual VOC as applied and emitted are required in accordance with other requirements). The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as established in the product standard. Percent VOC shall be determined by Reference Method 24, the coating manufacturer's formulation data, or an alternative method approved by the Commissioner. [Minn. R. 7007.0800, subps. 4-5]
COMG 22	5	The Permittee must limit emissions of Volatile Organic Compounds ≤ 300.0 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in COMG 22. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 22. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 22. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]
	3855	The Permittee must limit usage of Volatile Organic Compounds ≤ 206 pounds per hour calendar month average, based on records of the amount of VOC applied and hours of operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]

SI Id	Sequence	Requirement
		Recordkeeping of maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or requalification of an existing product. Documentation of maximum VOC input rate is not required for experimental runs (actual VOC as applied and emitted are required in accordance with other requirements). The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as established in the product standard. Percent VOC shall be determined according to Reference Method 24, the coating manufacturer's formulation data, or an alternative method approved by the Commissioner. [Minn. R. 7007.0800, subps. 4-5]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at the facility. This must be based on written or electronic usage logs. [Minn. R. 7007.0800, subps. 4-5]
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	4060	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6980	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	6990	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 22. These assumptions are listed in Appendix C of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	7000	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
COMG 25	1	The affected source of 40 CFR pt. 63, subp. DDDDD is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters within a subcategory as defined in 40 CFR 63.7575. The subcategory of boilers in COMG 25 as defined in 40 CFR 63.7575 are units designed to burn gas 1 fuels. [40 CFR 63.7485, 40 CFR 63.7490(a)(1), 40 CFR 63.7499(l), Minn. R. 7011.7050]
	2	This permit includes a fuel switch or physical change to the boilers that resulted in the applicability of a different subcategory after January 31, 2016, therefore the Permittee must be in compliance with the applicable existing source provisions of 40 CFR pt. 63, subp. DDDDD on the effective date of the fuel switch or physical change. [40 CFR 63.7495(b), 40 CFR 63.7495(h), 40 CFR 63.7510(e), Minn. R. 7011.7050]
	3	The Permittee must meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545 and in 40 CFR pt. 63, subp. A. Some of the notifications must be submitted before the Permittee is required to comply with the emission limits and work practice standards in 40 CFR pt. 63, subp. DDDDD. [40 CFR 63.7495(d), Minn. R. 7011.7050]
	4	The Permittee must meet each work practice standard in 40 CFR pt. 63, subp. DDDDD, Table 3 that applies to the Permittee's boilers, for each boiler at the source. The Permittee must conduct an annual tune-up of each boiler to demonstrate continuous compliance as specified in 40 CFR 63.7540(a)(10)(i) through (vi). Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13 months after the previous tune-up. The Permittee must conduct the tune-up while burning the type of fuel that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. This tune-up is conducted as a work practice for all regulated emissions under 40 CFR pt. 63, subp. DDDDD. If a boiler is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7500(a)(1), 40 CFR 63.7515(d), 40 CFR 63.7540(a)(10), 40 CFR 63.7540(a)(13), 40 CFR pt. 63, subp. DDDDD, Table 3, Minn. R. 7011.7050]
	5	The Permittee must conduct an annual tune-up of each boiler or process heater to demonstrate continuous compliance as specified in 40 CFR 63.7540(a)(10)(i) through (vi). The Permittee must conduct the tune-up while burning the type of fuel that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment; (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available; (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

SI Id	Sequence	Requirement
		(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject; (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and (vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in 40 CFR 63.7540(a)(10)(vi)(A) through (C), (A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater; (B) A description of any corrective actions taken as a part of the tune-up; and (C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. [40 CFR 63.7540(a)(10)(i) - (vi), Minn. R. 7011.7050]
8		At all times, the Permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3), Minn. R. 7011.7050]
9		The Permittee must be in compliance with the emission limits, work practice standards, and operating limits in 40 CFR pt. 63, subp. DDDDD. 40 CFR pt. 63, subp. DDDDD emission and operating limits apply at all times the affected units are operating, except during periods of startup and shutdown during which time the Permittee must comply only with items 5 and 6 of 40 CFR pt. 63, subp. DDDDD, Table 3. [40 CFR 63.7500(f), 40 CFR 63.7505(a), Minn. R. 7011.7050]
10		The Permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the dates specified. [40 CFR 63.7545(a), Minn. R. 7011.7050]
11		If the Permittee intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of 40 CFR pt. 63, 60, 61, or 65, or other gas 1 fuel to fire the affected units during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the Permittee must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in paragraphs (f)(1) through (5) of 40 CFR 63.7545 (listed below). (1) Company name and address. (2) Identification of the affected unit. (3) Reason the Permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began. (4) Type of alternative fuel that you intend to use. (5) Dates when the alternative fuel use is expected to begin and end. [40 CFR 63.7545(f), Minn. R. 7011.7050]

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	12	If the Permittee switched fuels or made a physical change to the boilers and the fuel switch or physical change resulted in the applicability of a different subcategory, the Permittee must provide notice of the date upon which they switched fuels or made the physical change within 30 days of the switch/change. The notification must identify: (1) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, the location of the source, the boiler(s) that have switched fuels, were physically changed, and the date of the notice. (2) The currently applicable subcategory under 40 CFR pt. 63, subp. DDDDD. (3) The date upon which the fuel switch or physical change occurred. [40 CFR 63.7545(h), Minn. R. 7011.7050]
	13	The Permittee must submit a compliance report annually. The report must contain the following: a. Information required in 40 CFR 63.7550(c)(1) through (5); and b. If there are no deviations from any emission limitation (emission limit and operating limit) that applies and there are no deviations from the requirements for work practice standards for periods of startup and shutdown in 40 CFR pt. 63, subp. DDDDD, Table 3 that apply, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and c. If there is a deviation from any emission limitation (emission limit and operating limit) where the Permittee is not using a CMS to comply with that emission limit or operating limit, or a deviation from a work practice standard for periods of startup and shutdown, during the reporting period, the report must contain the information in 40 CFR 63.7550(d); and d. If there were periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in 40 CFR 63.8(c)(7), or otherwise not operating, the report must contain the information in 40 CFR 63.7550(e). [40 CFR 63.7540(b), 40 CFR 63.7550(a), 40 CFR pt. 63, subp. DDDDD, Table 9, Minn. R. 7011.7050]
	14	Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the Permittee must submit each report, according to 40 CFR 63.7550(h), by the date in 40 CFR pt. 63, subp. DDDDD, Table 9 and according to the requirements in 40 CFR 63.7550(b)(1) through (4)(listed below). The Permittee may submit only an annual compliance report, as applicable, as specified in 40 CFR 63.7550(b)(1) through (4), instead of a semi-annual compliance report. (1) The first semi-annual compliance report must cover the period beginning on the compliance date that is specified for each boiler in 40 CFR 63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for the Permittee in 40 CFR 63.7495. If submitting an annual compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler in 40 CFR 63.7495 and ending on December 31 within 1 year after the compliance date that is specified for the Permittee in 40 CFR 63.7495. (2) The first semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler in 40 CFR 63.7495. The first annual compliance report must be postmarked or submitted no later than January 31. (3) Each subsequent semi-annual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual compliance reports must cover the applicable 1-year period from January 1 to December 31. (4) Each subsequent semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual compliance reports must be postmarked or submitted no later than January 31.

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		(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR pt. 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A), the Permittee may submit the first and subsequent compliance reports according to the dates the permitting authority has established in the permit instead of according to the dates in 40 CFR 63.7550(b)(1) through (4). [40 CFR 63.7550(b), Minn. R. 7011.7050]
	15	A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule: -Company and Facility name and address. -Process unit information, emissions limitations, and operating parameter limitations. -Date of report and beginning and ending dates of the reporting period. -Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10). Include the date of the most recent burner inspection if it was not done annually, and was delayed until the next scheduled or unscheduled unit shutdown. -Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [40 CFR 63.7550(c)(1), 40 CFR 63.7550(c)(5)(i)-(iii), (xiv), and (xvii), Minn. R. 7011.7050]
	16	The Permittee must submit all reports required by 40 CFR pt. 63, subp. DDDDD, Table 9 electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) The Permittee must use the appropriate electronic report in CEDRI for 40 CFR pt. 63, subp. DDDDD. Instead of using the electronic report in CEDRI for 40 CFR pt. 63, subp. DDDDD, the Permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (http://www.epa.gov/ttn/chief/cedri/index.html), once the XML schema is available. If the reporting form specific to 40 CFR pt. 63, subp. DDDDD is not available in CEDRI at the time that the report is due, the Permittee must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. The Permittee must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3), 40 CFR pt. 63, subp. DDDDD, Table 9, Minn. R. 7011.7050]
	17	The Permittee must keep records of a copy each notification and report that was submitted to comply with 40 CFR pt. 63, subp. DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that was submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.7555(a)(1), Minn. R. 7011.7050]
	12250	If the Permittee uses an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under 40 CFR pt. 63, subp. DDDDD, other gas 1 fuel, or gaseous fuel subject to another subpart of 40 CFR pt. 63, 60, 61, or 65, the Permittee must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. [40 CFR 63.7555(h), Minn. R. 7011.7050]
	12251	Records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). As specified in 40 CFR 63.10(b)(1), the Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee must keep each record on site, or records must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The Permittee can keep the records off site for the remaining 3 years. [40 CFR 63.7560, Minn. R. 7011.7050]

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	12253	The Permittee must submit a Notification of Compliance Status within 60 days of the effective date of the fuel switch or physical change that resulted in the applicability of a different subcategory. The Notification of Compliance Status must only contain the information specified in 40 CFR 63.7545(e)(1) and (8) (listed below); - A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, description of the fuel(s) burned, and justification for the selection of fuel(s) burned during the compliance demonstration. - In addition to the information required in 40 CFR 63.9(h)(2), the Notification of Compliance Status must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility completed the required initial tune-up for all of the boilers covered by 40 CFR pt. 63 subp. DDDDD at this site according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi)." (ii) "This facility has had an energy assessment performed according to 40 CFR 63.7530(e)." The Permittee must include with the Notification of Compliance Status a signed certification that either the energy assessment was completed according to 40 CFR pt. 63, subp. DDDDD, Table 3, and that the assessment is an accurate depiction of the facility at the time of the assessment, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended. [40 CFR 63.7530(e), 40 CFR 63.7545(e), Minn. R. 7011.7050]
	35780	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1(a); 40 CFR 63.1(b)(1) and (3); 40 CFR 63.1(c)(1),(2), (5) and (6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4(a)-(c); 40 CFR 63.5(a), (b), and (d)-(f); 40 CFR 63.6(a); 40 CFR 63.6(b)(1)-(5) and (7); 40 CFR 63.6(c)(1), (2), and (5); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g); 40 CFR 63.6(i)(1)-(6), (8), (9), and (11); 40 CFR 63.6(j); 40 CFR 63.7(a)(2); 40 CFR 63.7(a)(2)(ix); 40 CFR 63.7(a)(3) and (4); 40 CFR 63.7(b)-(d); 40 CFR 63.7(e)(2)-(e)(9); 40 CFR 63.7(f)-(h); 40 CFR 63.8(a) and (b); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(c)(9); 40 CFR 63.8(d)(1)-(d)(3); 40 CFR 63.8(e)-(g); 40 CFR 63.9(b)(1), (2), (4), and (5); 40 CFR 63.9; 40 CFR 63.10(a); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(i);

SI Id	Sequence	Requirement
		40 CFR 63.10(b)(2)(iii); 40 CFR 63.10(b)(2)(vi); 40 CFR 63.10(b)(2)(vii)-(xiv); 40 CFR 63.10(c)(1)-(c)(9); 40 CFR 63.10(c)(12)-(c)(13); 40 CFR 63.10(d)(1), (2), and (4); 40 CFR 63.10(e) and (f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; 40 CFR 63.15(a) and (b); and 40 CFR 63.16. A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.7565, 40 CFR pt. 63, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.7050, Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
COMG 26	3	The Permittee must limit organic HAP emissions to the level specified in 40 CFR 63.3320(b)(1), (2), (3), or (4) (listed below) for all periods of operation, including startup, shutdown, and malfunction (SSM): (1) No more than 5 percent of the organic HAP applied for each month (95 percent reduction) at existing affected sources, and no more than 2 percent of the organic HAP applied for each month (98 percent reduction) at new affected sources; or (2) No more than 4 percent of the mass of coating materials applied for each month at existing affected sources, and no more than 1.6 percent of the mass of coating materials applied for each month at new affected sources; or (3) No more than 20 percent of the mass of coating solids applied for each month at existing affected sources, and no more than 8 percent of the coating solids applied for each month at new affected sources. (4) If the Permittee uses an oxidizer to control organic HAP emissions, operate the oxidizer such that an outlet organic HAP concentration of no greater than 20 parts per million by volume (ppmv) on a dry basis is achieved and the efficiency of the capture system is 100 percent. These limits apply to the collection of all web coating lines at the facility. [40 CFR 63.3300, 40 CFR 63.3320(b)(1)-(4), Minn. R. 7011.7385]
	8	The Permittee must demonstrate compliance each month with the emission limitations in 40 CFR 63.3320(b)(1) through (4). For each monthly demonstration, the Permittee may apply any combination of the emission limitations to each of your web coating lines individually, to each of one or more groupings of your lines (including a single grouping encompassing all lines of your affected source), or to any combination of individual and grouped lines, so long as each web coating line is included in the compliance demonstration for the month (i.e., the Permittee is not required to apply the same emission limitation to each of the individual lines or groups of lines). The Permittee may change the emission limitation that is applied each month to individual or grouped lines, and the Permittee may change line groupings for the monthly compliance demonstration. [40 CFR 63.3320(c), 40 CFR 63.3370, Minn. R. 7011.7385]

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	11	The Permittee must maintain the following records on a monthly basis: (1) Records specified in 40 CFR 63.10(b)(2) of all measurements needed to demonstrate compliance, including: -continuous emission monitor data in accordance with the requirements of 40 CFR 63.3350(d); -control device and capture system operating parameter data in accordance with the requirements of 40 CFR 63.3350(c), (e), and (f); -organic HAP content data used for demonstrating compliance in accordance with 40 CFR 63.3360(c); -volatile matter and coating solids content data used for demonstrating compliance with 40 CFR 63.3360(d); -overall control efficiency determination using capture efficiency and control device destruction or removal efficiency test results in accordance with the requirements of 40 CFR 63.3360(e) and (f); -material usage, organic HAP usage, volatile matter usage, and coating solids usage and compliance demonstrations using these data in accordance with 40 CFR 63.3370(b), (c), and (d). -emission factor development calculations and HAP content for coating materials used to develop the emission factor as needed for 40 CFR 63.3360(g). (2) Records specified in 40 CFR 63.10(c) for each CMS operated by the Permittee in accordance with the requirements of 40 CFR 63.3350(b), as indicated in 40 CFR pt. 63, subp. JJJJ, Table 2. [40 CFR 63.10(b)(1), 40 CFR 63.3410(a), Minn. R. 7011.7385]
	13	For any web coating line or group of web coating lines using add-on control devices to demonstrate compliance with the emission standards in 40 CFR 63.3320, the Permittee must meet the operating limits specified in 40 CFR pt. 63, subp. JJJJ, Table 1. These operating limits apply to emission capture systems and control devices used to demonstrate compliance with 40 CFR pt. 63, subp. JJJJ, and the Permittee must establish the operating limits during the performance test according to the requirements in 40 CFR 63.3360(e)(3). The Permittee must meet the operating limits at all times after the limits are established. [40 CFR 63.3321(a), Minn. R. 7011.7385]
	14	The Permittee must be in compliance with the emission limits and operating limits in 40 CFR pt. 63, subp. JJJJ at all times. [40 CFR 63.3340(a), Minn. R. 7011.7385]
	15	Representative emission capture system and add-on control device operating conditions. The Permittee must conduct the performance test when the emission capture system and add-on control device are operating at a representative flow rate, and the add-on control device is operating at a representative inlet concentration. Representative conditions exclude periods of startup and shutdown. The Permittee may not conduct performance tests during periods of malfunction. The Permittee must record information that is necessary to document emission capture system and add-on control device operating conditions during the test and explain why the conditions represent normal operation. The Permittee must conduct each performance test required by 40 CFR 63.3360 according to the requirements in 40 CFR 63.3360(e)(2) and under the conditions in 40 CFR 63.3340(c)(2) unless the Permittee obtains a waiver of the performance test according to the provisions in 40 CFR 63.7(h). [40 CFR 63.3340(c)(2), Minn. R. 7011.7385]

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	16	Bypass and coating use monitoring. For web coating lines with intermittently-controlled work stations, the Permittee must monitor bypasses of the control device and the mass of each coating material applied at the work station during any such bypass. If using a control device for complying with the requirements of 40 CFR pt. 63, subp. JJJJ, the Permittee must demonstrate that any coating material applied on a never-controlled work station or an intermittently-controlled work station operated in bypass mode is allowed in the compliance demonstration according to 40 CFR 63.3370(o) and (p). The bypass monitoring must be conducted using at least one of the procedures in 40 CFR 3350(c)(1) through (4) for each work station and associated dryer: (1) Flow control position indicator. Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow control position indicator that provides a record indicating whether the exhaust stream from the dryer was directed to the control device or was diverted from the control device. The time and flow control position must be recorded at least once per hour as well as every time the flow direction is changed. A flow control position indicator must be installed at the entrance to any bypass line that could divert the exhaust stream away from the control device to the atmosphere. (2) Car-seal or lock-and-key valve closures. Secure any bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve or damper is maintained in the closed position, and the exhaust stream is not diverted through the bypass line. (3) Valve closure continuous monitoring. Ensure that any bypass line valve or damper is in the closed position through continuous monitoring of valve position when the emission source is in operation and is using a control device for compliance with the requirements of this subpart. The monitoring system must be inspected at least once every month to verify that the monitor will indicate valve position. (4) Automatic shutdown system. Use an automatic shutdown system in which the web coating line is stopped when flow is diverted away from the control device to any bypass line when the control device is in operation. The automatic system must be inspected at least once every month to verify that it will detect diversions of flow and would shut down operations in the event of such a diversion. [40 CFR 63.3350(c), Minn. R. 7011.7385]
	17	Liquid-liquid material balance. If the Permittee uses a solvent recovery device to control emissions, the Permittee must perform a monthly liquid-liquid material balance as specified in 40 CFR 63.3370(j)(1)(i) through (v) and listed below: (i) Determine the mass of each coating material applied on the web coating line or group of web coating lines controlled by a common solvent recovery device during the month. (ii) 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). (iii) Determine the volatile organic content of each coating material as-applied during the month following the procedure in 40 CFR 63.3360(d). (iv) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied or emission 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). (v) Determine and monitor the amount of volatile organic matter recovered for the month according to the procedures in 40 CFR 63.3350(d). [40 CFR 63.3370(j)(1)(i)-(v), Minn. R. 7011.7385]

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	18	Recovery efficiency. If the Permittee uses a solvent recovery device to control emissions, the Permittee must calculate the volatile organic matter collection and recovery efficiency using Equation 11: $R_v = ((M_{vr} + M_{vret}) / (\sum p(C_{vi} * M_i) + \sum q(C_{vij} * M_{ij}))) * 100$ Where: R_v = Organic volatile matter collection and recovery efficiency, percent. M_{vr} = Mass of volatile matter recovered in a month, kg. M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where the Permittee chooses to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in 40 CFR pt. 63, subp. JJJJ. p = Number of different coating materials applied in a month. C_{vi} = Volatile organic content of coating material, i, expressed as a mass fraction, kg/kg. M_i = Mass of as-purchased coating material, i, applied in a month, kg. q = Number of different materials added to the coating material. C_{vij} = Volatile organic content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg. M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg. Organic HAP emitted. Calculate the organic HAP emitted during the month using Equation 12: $H_e = (1 - (R_v/100)) * (\sum p(C_{hi} * M_i) + \sum q(C_{hij} * M_{ij} - M_{vret}))$ Where: H_e = Total monthly organic HAP emitted, kg. R_v = Organic volatile matter collection and recovery efficiency, percent. p = Number of different coating materials applied in a month. C_{hi} = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg. M_i = Mass of as-purchased coating material, i, applied in a month, kg. q = Number of different materials added to the coating material. C_{hij} = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg. M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg. M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where the Permittee chooses to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in 40 CFR pt. 63, subp. JJJJ. [40 CFR 63.3370(j)(1)(vi)-(vii), Minn. R. 7011.7385]

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	19	Oxidizer compliance demonstration procedures. If using an oxidizer to control emissions to comply with 40 CFR pt. 63, subp. JJJJ, the Permittee must show compliance by following the procedures in 40 CFR 63.3370(l)(1). (1) Demonstrate 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 in 40 CFR 63.3370(l)(1)(i) through (vi): (i) Determine the oxidizer destruction efficiency using the procedure in 40 CFR 63.3360(e). (ii) Determine the capture system capture efficiency in accordance with 40 CFR 63.3360(f). (iii) Capture and control efficiency monitoring. Whenever a web coating line is operated, continuously monitor the operating parameters established in accordance with 40 CFR 63.3350(e) and (f) to ensure capture and control efficiency. (iv) 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 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. (v) 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). (vi) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied or emission 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). [40 CFR 63.3370(l)(1), Minn. R. 7011.7385]
	20	Solvent recovery system using liquid-liquid material balance compliance demonstration. To comply by means of a liquid-liquid material balance for each solvent recovery system used to control one or more web coating lines, the Permittee must determine the organic HAP emissions for those web coating lines controlled by that solvent recovery system either: (i) In accordance with 40 CFR 63.3370(j)(1)(i) through (iii) and (v) through (vii), if the web coating lines controlled by that solvent recovery system have only always-controlled work stations; or (ii) In accordance with 40 CFR 63.3370(j)(1)(ii), (iii), (v), and (vi) and (p), if the web coating lines controlled by that solvent recovery system have one or more never-controlled or intermittently-controlled work stations. [40 CFR 63.3370(o)(1), Minn. R. 7011.7385]

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	21	Oxidizer. To demonstrate compliance through performance tests of capture efficiency and control device efficiency, continuous monitoring of capture system, and CPMS for control device operating parameters for each oxidizer used to control emissions from one or more web coating lines, the Permittee must: (i) Monitor the operating parameter in accordance with 40 CFR 63.3350(e) to ensure control device efficiency; and (ii) For each capture system delivering emissions to that oxidizer, monitor the operating parameter established in accordance with 40 CFR 63.3350(f) to ensure capture efficiency; and (iii) Determine the organic HAP emissions for those web coating lines served by each capture system delivering emissions to that oxidizer either: (A) In accordance with 40 CFR 63.3370(l)(1)(i) through (vi), if the web coating lines served by that capture and control system have only always-controlled work stations; or (B) In accordance with 40 CFR 63.3370(l)(1)(i) through (iii), (v), and (p), if the web coating lines served by that capture and control system have one or more never-controlled or intermittently-controlled work stations. [40 CFR 63.3370(o)(3), Minn. R. 7011.7385]
	24	For calculation procedures to determine organic HAP emissions for intermittently-controlled and never-controlled work stations, the Permittee must: (1) Determine the sum of the mass of all coating materials as-applied on intermittently-controlled work stations operating in bypass mode and the mass of all coating materials as-applied on never-controlled work stations during the month. (2) Determine the sum of the mass of all coating materials as-applied on intermittently-controlled work stations operating in a controlled mode and the mass of all coating materials applied on always-controlled work stations during the month. (3) For each web coating line or group of web coating lines for which the Permittee uses the provisions of 40 CFR 63.3370(o)(1)(ii), the Permittee must calculate the organic HAP emitted during the month using Equation 19: $He = (\text{SUMp}(M_{ci} \cdot C_{ahi}) * (1 - (R_v/100)) + (\text{SUMp}(M_{Bi} \cdot C_{ahi}) - M_{vret})$ Where: He = Total monthly organic HAP emitted, kg. p = Number of different coating materials applied in a month. M_{ci} = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in controlled mode and the mass of coating material, i, as-applied on always-controlled work stations, in a month, kg. C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg. R_v = Organic volatile matter collection and recovery efficiency, percent. M_{Bi} = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in bypass mode and the mass of coating material, i, as-applied on never-controlled work stations, in a month, kg. C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg. M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where the Permittee chooses to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in 40 CFR pt. 63, subp. JJJJ. (4) For each web coating line or group of web coating lines for which the Permittee uses the provisions of 40 CFR 63.3370 (o)(2)(ii)(B) or (o)(3)(iii)(B), the Permittee must calculate the organic HAP emitted during the month using

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		Equation 20: $He = (\text{SUMp}(\text{Mci} \cdot \text{Cahi}) * (1 - (R/100)) + (\text{SUMp}(\text{MBi} \cdot \text{Cahi}) - \text{Mvret})$ Where: He = Total monthly organic HAP emitted, kg. p = Number of different coating materials applied in a month. Mci = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in controlled mode and the mass of coating material, i, as-applied on always-controlled work stations, in a month, kg. Cahi = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg. R = Overall organic HAP control efficiency, percent. MBi = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in bypass mode and the mass of coating material, i, as-applied on never-controlled work stations, in a month, kg. Cahi = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg. Mvret = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where the Permittee chooses to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in 40 CFR pt. 63, subp. JJJJ. [40 CFR 63.3370(p), Minn. R. 7011.7385]
	26	The Permittee must determine the organic HAP or volatile matter and coating solids content of the coating materials according to the procedures in 40 CFR 63.3360(c) and (d) if controlling organic HAP on any individual web coating line or any group of web coating lines to demonstrate compliance with the emission limits in 40 CFR 63.3320 by limiting organic HAP or volatile matter content of coatings. If applicable, determine the mass of volatile matter retained in the coated web or otherwise not emitted to the atmosphere according to 40 CFR 63.3360(g). [40 CFR 63.3360(a)(1), Minn. R. 7011.7385]
	27	If controlling organic HAP on any individual web coating line or any group of web coating lines to demonstrate compliance with the emission limits in 40 CFR 63.3320 by using a capture and control system, the Permittee must: (i) Initially, conduct a performance test for each capture and control system to determine: The destruction or removal efficiency of each control device other than solvent recovery according to 40 CFR 63.3360(e), and the capture efficiency of each capture system according to 40 CFR 63.3360(f). If applicable, determine the mass of volatile matter retained in the coated web or otherwise not emitted to the atmosphere according to 40 CFR 63.3360(g). (ii) Perform a periodic test once every 5 years for each thermal oxidizer to determine the destruction or removal efficiency according to 40 CFR 63.3360(e). If applicable, determine the mass of volatile matter retained in the coated web or otherwise not emitted to the atmosphere according to 40 CFR 63.3360(g). [40 CFR 63.3360(a)(2), Minn. R. 7011.7385]
	35780	If the Permittee determines compliance with the emission standards in 40 CFR 63.3320 by means other than determining the overall organic HAP control efficiency of a control device, the Permittee must determine the organic HAP mass fraction of each coating material "as-applied" by following the procedures in 40 CFR 63.3360(c)(4). The recovery efficiency of the test method must be determined for all of the target organic HAP and a correction factor, if necessary, must be determined and applied. [40 CFR 63.3360(c), Minn. R. 7011.7385]
	35781	As-applied organic HAP mass fraction - If the as-purchased coating material is applied to the web without any solvent or other material added, then the as-applied organic HAP mass fraction is equal to the as-purchased organic HAP mass fraction. Otherwise, the as-applied organic HAP mass fraction must be calculated using Equation 4 of 40 CFR 63.3370. [40 CFR 63.3360(c)(4), Minn. R. 7011.7385]

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	35782	If the Permittee complies by using coating materials that meet the emission standards in 40 CFR 63.3320(b)(2) as-applied, the Permittee must demonstrate that each coating material applied at an existing affected source during the month contains no more than 0.04 kg organic HAP per kg coating material applied, and each coating material applied at a new affected source contains no more than 0.016 kg organic HAP per kg coating material applied on an as-applied basis as determined in accordance with 40 CFR 63.3370(c)(1)(i) or (ii), listed below. The Permittee must calculate the as-applied organic HAP content of as-purchased coating materials which are reduced, thinned, or diluted prior to application. (i) The Permittee must determine the organic HAP content or volatile organic content of each coating material applied on an as-purchased basis in accordance with 40 CFR 63.3360(c). (ii) The Permittee must calculate the as-applied organic HAP content of each coating material using Equation 4: $C_{ahi} = (C_{hi} * M_i + \sum M_j (C_{hij} * M_{ij})) / M_i + \sum M_j (M_{ij})$ Where: C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg. C_{hi} = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg. M_i = Mass of as-purchased coating material, i, applied in a month, kg. q = number of different materials added to the coating material. C_{hij} = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg. M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg. Or calculate the as-applied volatile organic content of each coating material using Equation 5: Equation 5: $C_{avi} = (C_{vi} * M_i + \sum M_j (C_{vij} * M_{ij})) / M_i + \sum M_j (M_{ij})$ Where: C_{avi} = Monthly average, as-applied, volatile organic content of coating material, i, expressed as a mass fraction, kg/kg. C_{vi} = Volatile organic content of coating material, i, expressed as a mass fraction, kg/kg. M_i = Mass of as-purchased coating material, i, applied in a month, kg. q = Number of different materials added to the coating material. C_{vij} = Volatile organic content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg. M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg. [40 CFR 63.3370(c)(1)(ii), Minn. R. 7011.7385]
	35785	If determining compliance with the emission standards by means other than determining the overall organic HAP control efficiency of a control device and the Permittee chooses to use the volatile organic content as a surrogate for the organic HAP content of coatings, the Permittee must determine the as-applied volatile organic content and coating solids content of each coating material by following the procedures of 40 CFR 63.3360(d)(3). [40 CFR 63.3360(d), Minn. R. 7011.7385]
	35786	If the as-purchased coating material is applied to the web without any solvent or other material added, then the as-applied volatile organic content is equal to the as-purchased volatile content and the as-applied coating solids content is equal to the as-purchased coating solids content. Otherwise, the as-applied volatile organic content must be calculated using Equation 5 and the as-applied coating solids content must be calculated using Equation 6. [40 CFR 63.3360(d)(3), Minn. R. 7011.7385]

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	35787	If the Permittee complies by using coating materials that meet the emission standards in 40 CFR 63.3320(b)(3) as-applied, the Permittee must demonstrate that each coating material applied at an existing affected source contains no more than 0.20 kg of organic HAP per kg of coating solids applied and each coating material applied at a new affected source contains no more than 0.08 kg of organic HAP per kg of coating solids applied in accordance with 40 CFR 63.3370(c)(2)(i) and (ii). The Permittee must determine the as-applied coating solids content of each coating material following the procedure in 40 CFR 63.3360(d). The Permittee must calculate the as-applied coating solids content of coating materials which are reduced, thinned, or diluted prior to application, using Equation 6. Equation 6: $Casi = (Csi * Mi) + \sum q(Csij * Mij) / (Mi + \sum q(Mij))$ Where: Casi = Monthly average, as-applied, coating solids content of coating material, i, expressed as a mass fraction, kg/kg. Csi = Coating solids content of coating material, i, expressed as a mass fraction, kg/kg. Mi = Mass of as-purchased coating material, i, applied in a month, kg. q = Number of different materials added to the coating material. Csij = Coating solids content of material, j, added to as-purchased coating material, i, expressed as a mass-fraction, kg/kg. Mij = Mass of material, j, added to as-purchased coating material, i, in a month, kg. [40 CFR 63.3370(c)(2)(i), Minn. R. 7011.7385]
	35788	If the Permittee complies by using coating materials that meet the emission standards in 40 CFR 63.3320(b)(3) as-applied, the Permittee must demonstrate that each coating material applied at an existing affected source contains no more than 0.20 kg of organic HAP per kg of coating solids applied and each coating material applied at a new affected source contains no more than 0.08 kg of organic HAP per kg of coating solids applied in accordance with 40 CFR 63.3370(c)(2)(i) and (ii). To calculate the as-applied organic HAP to coating solids ratio, the Permittee must use Equation 7: $Hsi = Cahi / Casi$ Where: Hsi = As-applied, organic HAP to coating solids ratio of coating material, i. Cahi = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg. Casi = Monthly average, as-applied, coating solids content of coating material, i, expressed as a mass fraction, kg/kg. [40 CFR 63.3370(c)(2)(ii), Minn. R. 7011.7385]

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	35790	Volatile matter retained in the coated web or otherwise not emitted to the atmosphere. The Permittee may choose to take into account the mass of volatile matter retained in the coated web after curing or drying or otherwise not emitted to the atmosphere when determining compliance with the emission standards in 40 CFR 63.3320. If the Permittee chooses this option, the Permittee must develop a site- and product-specific emission factor (EF) and determine the amount of volatile matter retained in the coated web or otherwise not emitted using Equation 3 to 40 CFR 63.3360(g)(1). The EF must be developed by conducting a performance test using an approved EPA test method, or alternative approved by the Administrator by obtaining the average of a three-run test. The Permittee may additionally use manufacturer's emissions test data (as long as it replicates the facility's coating formulation and operating conditions), or a mass-balance type approach using a modified Method 24 (including ASTM D5403-93 for radiation-curable coatings). The EF should equal the proportion of the mass of volatile organics emitted to the mass of volatile organics in the coating materials evaluated. The Permittee may use the EF in the compliance calculations only for periods that the work station(s) was (were) used to make the product, or a similar product, corresponding to that produced during the performance test. The Permittee must develop a separate EF for each group of different products that the Permittee chooses to utilize an EF for calculating emissions by conducting a separate performance test for that group of products. The Permittee must conduct a periodic performance test to re-establish the EF if there is a change in coating formulation, operating conditions, or other change that could reasonably be expected to increase emissions since the time of the last test that was used to establish the EF. [40 CFR 63.3360(g), Minn. R. 7011.7385]
	35791	Calculate the mass of volatile organics retained in the coated web or otherwise not emitted for the month from each group of similar products using Equation 3: $Mvret = (Cvi \cdot Mi + \sum q(Cvij \cdot Mij)) \cdot (1 - Efi)$ Where: Mvret = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. Cvi = Volatile organic content of coating material, i, expressed as a mass fraction, kg/kg. Mi = Mass of as-purchased coating material, i, applied in a month, kg. q = Number of different materials added to the coating material. Cvij = Volatile organic content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg. Mij = Mass of material, j, added to as-purchased coating material, i, in a month, kg. Efi = Volatile organic matter site- and product-specific emission factor (three-run average determined from performance testing, evaluated as proportion of mass volatile organics emitted to mass of volatile organics in the coatings used during the performance test). [40 CFR 63.3360(g)(1), Minn. R. 7011.7385]
	35792	If the Permittee chooses to demonstrate compliance by use of "as-applied" compliant coating materials and to demonstrate that the monthly average of all coating materials used does not exceed 0.04 kg organic HAP per kg coating material as-applied, then the Permittee must follow the procedures set out in 40 CFR 63.3370(c)(3) and use Equation 8 of 40 CFR 63.3370 to determine compliance with 40 CFR 63.3320(b)(2) in accordance with 40 CFR 63.3370(c)(5)(ii). [40 CFR 63.3370(a)(2)(iii), Minn. R. 7011.7385]

SI Id	Sequence	Requirement
	35794	Equation 8: $HL = (\text{SUMp}(\text{Chi} * \text{Mi}) + \text{SUMq}(\text{Chij} * \text{Mij} - \text{Mvret})) / (\text{SUMp}(\text{Mi}) + \text{SUMq}(\text{Mij}))$ Where: HL = Monthly average, as-applied, organic HAP content of all coating materials applied, expressed as kg organic HAP per kg of coating material applied, kg/kg. p = Number of different coating materials applied in a month. Chi = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg. Mi = Mass of as-purchased coating material, i, applied in a month, kg. q = Number of different materials added to the coating material. Chij = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg. Mij = Mass of material, j, added to as-purchased coating material, i, in a month, kg. Mvret = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in 40 CFR 63.3370. [40 CFR 63.3370(c)(3), Minn. R. 7011.7385]
	35795	If the Permittee chooses to demonstrate compliance by use of "as-applied" compliant coating materials and to demonstrate that the monthly average of all coating materials used at an existing affected source does not exceed 0.2 kg organic HAP per kg coating solids, then the Permittee must follow the procedures set out in 40 CFR 63.3370(c)(4) and use Equation 9 of 40 CFR 63.3370 to determine compliance with 40 CFR 63.3320(b)(3) in accordance with 40 CFR 63.3370(c)(5)(ii). [40 CFR 63.3370(a)(2)(iv), Minn. R. 7011.7385]
	35797	Equation 9: $Hs = (\text{SUMp}(\text{Chi} * \text{Mi}) + \text{SUMq}(\text{Chij} * \text{Mij} - \text{Mvret})) / (\text{SUMp}(\text{Csi} * \text{Mi}) + \text{SUMq}(\text{Csij} * \text{Mij}))$ Where: Hs = Monthly average, as-applied, organic HAP to coating solids ratio, kg organic HAP/kg coating solids applied. p = Number of different coating materials applied in a month. Chi = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg. Mi = Mass of as-purchased coating material, i, applied in a month, kg. q = Number of different materials added to the coating material. Chij = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg. Mij = Mass of material, j, added to as-purchased coating material, i, in a month, kg. Mvret = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where the Permittee chooses to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in 40 CFR 63.3370. Csi = Coating solids content of coating material, i, expressed as a mass fraction, kg/kg. Csij = Coating solids content of material, j, added to as-purchased coating material, i, expressed as a mass-fraction, kg/kg. [40 CFR 63.3370(c)(4), Minn. R. 7011.7385]

SI Id	Sequence	Requirement
	35798	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1(a)(1)-(4), (6)-(8), and (10)-(14); 40 CFR 63.1(b)(2)-(3); 40 CFR 63.1(c)(1); 40 CFR 63.1(c)(4)-(6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3(a)-(c); 40 CFR 63.4(a)(1)-(3), and (5), 40 CFR 63.4(b); 40 CFR 63.4(c); 40 CFR 63.5(a)(1)-(2); 40 CFR 63.5(b)(1) and (3)-(6); 40 CFR 63.5(d); 40 CFR 63.5(e); 40 CFR 63.5(f); 40 CFR 63.6(a); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1); 40 CFR 63.6(c)(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(e)(1); 40 CFR 63.6(e)(3); 40 CFR 63.6(f); 40 CFR 63.6(g); 40 CFR 63.6(i)(1)-(14), and (16); 40 CFR 63.6(j); 40 CFR 63.7(a)-(d); 40 CFR 63.7(e)(2)-(3); 40 CFR 63.7(f)-(h); 40 CFR 63.8(a)(1)-(2); 40 CFR 63.8(b); 40 CFR 63.8(c)(1)-(3), and (6)-(8); 40 CFR 63.8(d)(1)-(2); 40 CFR 63.8(e); 40 CFR 63.8(f); 40 CFR 63.8(g); 40 CFR 63.9(a); 40 CFR 63.9(b)(1)-(5); 40 CFR 63.9(c); 40 CFR 63.9(d); 40 CFR 63.9(e); 40 CFR 63.9(g); 40 CFR 63.9(h)(1)-(3), and (5)-(6); 40 CFR 63.9(i); 40 CFR 63.9(j); 40 CFR 63.9(k); 40 CFR 63.10(a); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(i); 40 CFR 63.10(b)(2)(iii); 40 CFR 63.10(b)(2)(iv)-(v); 40 CFR 63.10(b)(2)(vi)-(xiv); 40 CFR 63.10(b)(3);

SI Id	Sequence	Requirement
		40 CFR 63.10(c)(1), (5)-(8), and (10)-(15); 40 CFR 63.10(d)(1); 40 CFR 63.10(d)(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(d)(5); 40 CFR 63.10(e)(1)-(2); 40 CFR 63.10(f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; 40 CFR 63.15; and 40 CFR 63.16. A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.3340(d), 40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. JJJJ, Table 2, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.7385, Minn. R. 7011.7385, Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
	35799	The Permittee must submit a semiannual compliance report: Due by 30 days after end of each calendar half-year. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Each subsequent compliance report must be submitted electronically no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. The compliance report must contain the following information: -Company name and address. -Statement by a responsible official with that official's name, title, and signature certifying the accuracy of the content of the report. -Date of report and beginning and ending dates of the reporting period. - If there are no deviations from any emission limitations (emission limit or operating limit) that apply, a statement that there were no deviations from the emission limitations during the reporting period. -For each deviation from an emission limitation (emission limit or operating limit) that applies and that occurs at an affected source where the Permittee is not using a CMS to comply with the emission limitations in 40 CFR pt. 63, subp. JJJJ, the compliance report must contain the following information: (A) The total operating time of the web coating line(s) during the reporting period. (B) Information on the number, duration, and cause of deviations (including unknown cause), if applicable, and the corrective action taken. (C) An estimate of the quantity of each regulated pollutant emitted over the emission limits in 40 CFR 63.3320 for each monthly period covered in the report if the source failed to meet an applicable emission limit of 40 CFR pt. 63, subp. JJJJ. - For each deviation from an emission limit occurring at an affected source where the Permittee is using a CEMS or CPMS to comply with the emission limit in 40 CFR pt. 63, subp. JJJJ, the Permittee must include the following information:

SI Id	Sequence	Requirement
		(A) The total operating time of the web coating line(s) during the reporting period. (B) The date and time that each CEMS and CPMS, if applicable, was inoperative except for zero (low-level) and high-level checks. (C) The date and time that each CEMS and CPMS, if applicable, was out-of-control, including the information in 40 CFR 63.8(c)(8). (D) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period. (E) A summary of the total duration (in hours) of each deviation during the reporting period and the total duration of each deviation as a percent of the total source operating time during that reporting period. (F) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes. (G) A summary of the total duration (in hours) of CEMS and/or CPMS downtime during the reporting period and the total duration of CEMS and/or CPMS downtime as a percent of the total source operating time during that reporting period. (H) A breakdown of the total duration of CEMS and/or CPMS downtime during the reporting period into periods that are due to monitoring equipment malfunctions, non-monitoring equipment malfunctions, quality assurance/quality control calibrations, other known causes, and other unknown causes. (I) The date of the latest CEMS and/or CPMS certification or audit. (J) A description of any changes in CEMS, CPMS, or controls since the last reporting period. (K) An estimate of the quantity of each regulated pollutant emitted over the emission limits in 40 CFR 63.3320 for each monthly period covered in the report if the source failed to meet an applicable emission limit of 40 CFR pt. 63, subp. JJJJ. [40 CFR 63.3400(c), Minn. R. 7011.7385]
COMG 27	3680	The limits in COMG 27 apply to each individual unit. [Minn. R. 7011.0715, subp. 1]
	3690	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
	3691	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
COMG 29	2	Volatile Organic Compounds <= 0.14 kilograms per kilograms (lbs of VOC emitted/lb of coating solids applied) calculated on a weighted average basis for a calendar month. [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
	3860	Volatile Organic Compounds: Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC content of each material as determined by the Material Content requirement in COMG 29; and 2) The weighted average VOC emissions for the previous month using the formulas specified in 40 CFR 60.443(a)(2). [Minn. R. 7007.0800, subps. 4-5] Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC-containing material used in units under COMG 29. This must be based on written production records or computer files. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	4060	Material Content. VOC contents in materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6980	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 29. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	6990	Volatile Organic Compounds ≤ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560]
	7000	Monitoring: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2). (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]
	7001	Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	7002	The Permittee must submit an annual report by the 31st of January. The report must document the VOC monthly calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	7003	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
COMG 30	3450	The limits in COMG 30 apply to each individual fossil-fuel burning unit. [Minn. R. 7007.0800, subp. 2(A)]
	3455	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0610, subp. 1(A)(1)]
	3512	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0610, subp. 1(A)(2)]
	3517	Fuel type: Natural gas, by design. [Minn. R. 7005.0100, subp. 35a]
	3518	The Permittee shall keep records of natural gas fuel purchases showing this fuel type. [Minn. R. 7007.0800, subp. 5]

SI Id	Sequence	Requirement
COMG 31	6	The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 95.0 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in COMG 31. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 31. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 31. This limit applies to the total non-combustion VOC emissions in COMG 31. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	8	The Permittee must limit usage of Volatile Organic Compounds $\leq$ 5,610 pounds per hour calendar month average based on records of the amount of VOC applied and hours of operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]
	15	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Volatile Organic Compounds $\geq$ 95 percent control efficiency when using coating solutions that are not low VOC in any unit in COMG 31. Low VOC coating solutions (as defined in COMG 31) may be used without control equipment. See Subject Item TREA 8 for specific operating requirements. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	3860	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum and monthly calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)] Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at COMG 31. This must be based on written or electronic usage logs. Daily records shall include the VOC weight fraction of each material used, the total weight of material used, and the time periods during which coatings or solutions that are not "low VOC" coatings or solutions are in use. The VOC content shall be determined as specified under the Material Content condition listed in COMG 31. The Permittee must maintain records in written form or as computer files. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	4050	Low VOC coatings are defined as coatings with VOC content less than 5% by weight. Low VOC coatings may be used without operation of control equipment when operating COMG 31 emission units. [Minn. R. 7007.0800, subps. 4-5]
	4060	Recordkeeping of maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or requalification of an existing product. Documentation of maximum VOC input rate is not required for experimental runs (actual VOC as applied and emitted are required in accordance with other requirements). The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as established in the product standard, reference method 24, or alternative method approved by the Commissioner. [Minn. R. 7007.0800, subps. 4-5] Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	4600	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1 \times (1 - EF)) + (A2 \times B2 \times (1 - EF)) + (A3 \times B3 \times (1 - EF)) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; EF = control efficiency of TREA 8. If TREA 8 was not operated because a low VOC or water based material was used, EF = 0 for that material; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	6540	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5] Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 31. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	6550	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6560	40 CFR pt. 60, subp. RR Compliance Options: For each calendar month, the Permittee must be in compliance with Option A or B to meet the standards in 40 CFR 60.442(a) for the entire month. The Permittee may switch between Option A and B. The Permittee must keep records to show which option the Permittee is demonstrating compliance with for the calendar month and keep all applicable records for the chosen compliance option. Calculations required to show compliance must be completed by the 15th day after the end of each month. [40 CFR pt. 60, subp. RR, Minn. R. 7011.2560]
	6660	Option A: The Permittee must limit Volatile Organic Compounds $\geq$ 90 percent overall VOC emission reduction as calculated over a calendar month for each affected facility; or The Permittee shall demonstrate the percent overall VOC emission reduction specified in 40 CFR 60.443(b) as calculated over a calendar month. [40 CFR 60.442(a)(2), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	6670	Option A Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2); $G = \text{SUM}(W_{oi} * M_{ci}) / \text{SUM}(W_{si} * M_{ci})$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. [40 CFR 60.443(a), Minn. R. 7011.2560]
	6980	Option A Compliance: To determine compliance with 40 CFR 60.442(a)(2), the Permittee shall calculate the required overall VOC emission reduction, R_q, according to the equation in 40 CFR 60.443(b); $R_q = ((G - 0.20) / G) \times 100$ where R_q = the required overall VOC emission reduction (in percent). G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. If R_q is less than or equal to 90 percent, then the required overall VOC emission reduction is R_q. If R_q is greater than 90 percent, then the required overall VOC emission reduction is 90 percent. [40 CFR 60.443(b), Minn. R. 7011.2560]
	6981	Option A Monitoring: The Permittee shall compare the monthly required overall VOC emission reduction specified in 40 CFR 60.443(b) to the overall VOC emission reduction demonstrated in the most recent performance test which complied with 40 CFR 60.442(a)(2). The monthly required overall VOC emission reduction must be less than or equal to the overall VOC reduction of the most recent performance test. [40 CFR 60.443(d), Minn. R. 7011.2560]
	7004	Option A Monthly Records: By the 15th day of each calendar month, the Permittee shall calculate and maintain a record of the VOC percentage reduction required for the previous calendar month for COMG 31, and the actual VOC percentage reduction achieved for COMG 31. [40 CFR 60.443(f), Minn. R. 7011.2560]
	7005	Option A: Startups and shutdowns are normal operation for this affected facility. Emissions from these operations are to be included when determining if the standard specified at 40 CFR 60.442(a)(2) is being attained. [40 CFR 60.443(j), Minn. R. 7011.2560]
	7006	Option A Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	7007	Option A and Option B: The Permittee shall maintain and retain records of the measurements required in 40 CFR 60.443 and 60.445 for at least two years following the date of the measurements. Minn. R. 7007.0800, subp. 5(C) requires that all records be retained for an additional three years, for a total of five years from the date of generation. [40 CFR 60.445(h), Minn. R. 7007.0800, subp. 5(C)]

SI Id	Sequence	Requirement
	35700	Option B: The Permittee must limit Volatile Organic Compounds ≤ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560] Option A and Option B: The VOC content per unit of coating solids applied and compliance with 40 CFR 60.442(a)(1) shall be determined by either Method 24 and the equations specified in 40 CFR 60.443 or by manufacturers' formulation data. In the event of any inconsistency between a Method 24 test and manufacturers' formulation data, the Method 24 test will govern. The Administrator may require the Permittee to perform Method 24 tests during such months as deemed appropriate. For Method 24, the coating sample must be a one liter sample taken into a one liter container at a point where the sample will be representative of the coating applied to the web substrate. [40 CFR 60.446(a), Minn. R. 7011.2560]
	35701	Option B Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2): $G = \frac{\sum(W_{oi} * M_{ci})}{\sum(W_{si} * M_{ci})}$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]
	35702	Option B Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	35703	The Permittee shall continuously record the destruction device combustion temperature during coating operations. The Permittee shall record all 3-hour periods (during actual coating operations) during which the average temperature of the device is more than 28 degrees C (50 degrees F) below the average temperature of the device during the most recent performance test complying with 40 CFR 60.442(a)(2). [40 CFR 60.443(e), Minn. R. 7011.2560]
	35707	The Permittee shall install, calibrate, maintain, and operate a monitoring device which continuously indicates and records the temperature of the solvent destruction device's exhaust gases. The monitoring device shall have an accuracy of the greater of +/- 0.75 percent of the temperature being measured expressed in degrees Celsius or +/- 2.5 degrees C. [40 CFR 60.445(e), Minn. R. 7011.2560]
	35708	Option A: The Permittee shall submit a report: Due by 30 days after end of each calendar half-year. The Permittee shall submit reports semiannually when the TREA 8 temperature drops as defined under 40 CFR 63.443(e). If no such periods occur, the Permittee shall state this in the report. The report shall be submitted with the Semiannual Deviations Report listed in this permit. [40 CFR 60.447(c), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	35709	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.7(f); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(a)-(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
	35711	On and after the date on which the performance test required by 40 CFR 60.8 to demonstrate compliance with 40 CFR pt. 60, subp. FFF has been completed, the Permittee shall reduce VOC emissions to the atmosphere by 85 percent from each affected facility. [40 CFR 60.582(a)(2), Minn. R. 7011.3150]
	35712	The Permittee shall use methods in 40 CFR pt. 60, appendix A, except as provided under 40 CFR 60.8(b), to determine compliance with 40 CFR 60.582(a) as follows: (1) Method 24 for analysis of inks. If nonphotochemically reactive solvents are used in the inks, standard gas chromatographic techniques may be used to identify and quantify these solvents. The results of Method 24 may be adjusted to subtract these solvents from the measured VOC content. (2) Method 25A for VOC concentration (the calibration gas shall be propane); (3) Method 1 for sample and velocity traverses; (4) Method 2 for velocity and volumetric flow rates; (5) Method 3 for gas analysis; (6) Method 4 for stack gas moisture. [40 CFR 60.583(a), Minn. R. 7011.3150]

SI Id	Sequence	Requirement
	35713	To demonstrate compliance with 40 CFR pt. 60, subp. FFF utilizing the emission reduction option, the Permittee shall conduct a performance test to determine overall VOC emission control efficiency according to the following procedures: (1) The performance test shall consist of three runs. Each test run must last a minimum of 30 minutes and shall continue until the printing operation is interrupted or until 180 minutes of continuous operation occurs. During each test run, the print line shall be printing continuously and operating normally. The VOC emission reduction efficiency achieved for each test run is averaged over the entire test run period. (2) VOC concentration values at each site shall be measured simultaneously. (3) The volumetric flow rate shall be determined from one Method 2 measurement for each test run conducted immediately prior to, during, or after that test run. Volumetric flow rates at each site do not need to be measured simultaneously. (4) In order to determine capture efficiency from an affected facility, all fugitive VOC emissions from the affected facility shall be captured and vented through stacks suitable for measurement. During a performance test, the Permittee shall isolate the affected facility from other sources of VOC. These two requirements shall be accomplished using one of the following methods: (i) Build a permanent enclosure around the affected facility; (ii) Build a temporary enclosure around the affected facility and duplicate, to an extent that is reasonably feasible, the ventilation conditions that are in effect when the affected facility is not enclosed (one way to do this is to divide the room exhaust rate by the volume of the room and then duplicate that quotient or 20 air changes per hour, whichever is smaller, in the temporary enclosure); or (iii) Shut down all other sources of VOC and continue to exhaust fugitive emissions from the affected facility through any building ventilation system and other room exhausts such as print line ovens and embossers. (5) For each affected facility, compliance with 40 CFR 60.582(a)(2) has been demonstrated if the average value of the overall control efficiency (EF) for the three runs is equal to or greater than 85 percent. An overall control efficiency is calculated for each run as provided in 40 CFR 60.583(d)(5)(i) and 40 CFR 60.583(d)(5)(ii). [40 CFR 60.583(d)(5)(i), 40 CFR 60.583(d)(5)(ii), Minn. R. 7011.3150]
	35714	To demonstrate compliance with 40 CFR pt 60, subp. FFF utilizing the emission reduction option, the Permittee shall calibrate, operate, and maintain a monitoring device that continuously measures and records the temperature of the control device exhaust gases and shall comply with the following requirements: (1) The continuous monitoring device shall be calibrated annually and have an accuracy within 0.75 percent of the temperature being measured, expressed in degrees Celsius, or within 2.5 degrees Celsius, whichever is greater. (2) During the performance test, the Permittee shall determine and record the average temperature of the control device exhaust gases. After the performance test, the Permittee shall determine and record, in addition to the record made by the continuous monitoring device, the average temperature for each 3-hour clock period of printing operation when the average temperature of the exhaust gases is more than 28 degrees Celsius (50 degrees Fahrenheit) below the average temperature demonstrated during the most recent performance test. [40 CFR 60.584(b), Minn. R. 7011.3150]
	35715	The Permittee shall record time periods of operation when an emission control device is not in use. [40 CFR 60.584(d), Minn. R. 7011.3015]
	35716	The Permittee shall submit the performance test data and results from the performance test to the Administrator as specified in 40 CFR 60.8(a). [40 CFR 60.585(a), Minn. R. 7011.3150]
	35717	The Permittee shall submit semiannual reports to the Administrator of occurrences of drops in the incinerator temperature as defined under 40 CFR 60.584(b)(2). The reports shall be postmarked within 30 days following the end of the second and fourth calendar quarters. [40 CFR 60.585(b)(3), 40 CFR 60.585(c), Minn. R. 7011.3150]

SI Id	Sequence	Requirement
	35718	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(a)-(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. FFF, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.3150, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
COMG 33	3855	The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 136.5 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. This is a total limit on emissions (not usage) for all three lines (7L, 8L, and LT3) combined. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 33. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 33. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC-containing material used at COMG 33. This must be based on written or electronic production records. [Minn. R. 7007.0800, subs. 4-5, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of COMG 33; 2) The VOC emissions for the previous month using the formulas specified in COMG 33; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	4060	Material Content. VOC contents in materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6980	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6990	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 33. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	7000	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
COMG 34	4	The Permittee must limit emissions of Volatile Organic Compounds ≤ 62.0 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described in COMG 34. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 34. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 34. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	6	The Permittee must limit usage of Volatile Organic Compounds $\leq 2,810$ pounds per hour calendar month average based on records of the amount of VOC applied and hours of operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]
	3860	Low VOC coatings are defined as coatings with VOC content less than 5% by weight. Low VOC coatings may be used without operation of control equipment when operating COMG 34 emission units. [Minn. R. 7007.0800, subps. 4-5] Emissions from the sources in COMG 34 may be controlled by TREA 24. Control is not required for any source listed in COMG 34 but may be accounted for when demonstrating compliance with the emission limits in COMG 34. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7011.3000] Recordkeeping of maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or requalification of an existing product. Documentation of maximum VOC input rate is not required for experimental runs (actual VOC as applied and emitted are required in accordance with other requirements). The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as established in the product standard, reference method 24, or alternative method approved by the Commissioner. [Minn. R. 7007.0800, subps. 4-5]
	4040	The Permittee must calculate coating emissions based on the following equation: $\text{VOC Emitted} = (\text{VOC Applied} - \text{VOC Collected}) \times (1 - \text{Overall Control Efficiency})$ Where: VOC Applied is based on the records from the coater control system and/or material usage data. VOC Collected is based on records of material recovered through process recovery and scrap. Overall Control Efficiency is equal to the product of the unit-specific capture efficiency and the pollution control efficiency determined during the most recent approved performance test for the applicable control device. During periods of deviation by the applicable control device, emissions shall be considered uncontrolled. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000] The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
	4050	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC material used at COMG 34. This must be based on written or electronic usage logs. Daily records shall include the VOC weight fraction of each material used, the total weight of material used. The VOC content shall be determined as specified under the Material Content condition listed in COMG 34. The Permittee must maintain records in written form or as computer files. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	4060	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	4600	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1 \times (1 - EF)) + (A2 \times B2 \times (1 - EF)) + (A3 \times B3 \times (1 - EF)) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; EF = control efficiency of TREA 24. If TREA 24 was not operated because a low VOC or water based material was used, EF = 0 for that material; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	6540	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5] Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6550	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 34. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	6560	40 CFR pt. 60, subp. RR Compliance Options: For each calendar month, the Permittee must be in compliance with Option A or B to meet the standards in 40 CFR 60.442(a) for the entire month. The Permittee may switch between Option A and B. The Permittee must keep records to show which option the Permittee is demonstrating compliance with for the calendar month and keep all applicable records for the chosen compliance option. Calculations required to show compliance must be completed by the 15th day after the end of each month. [40 CFR pt. 60, subp. RR, Minn. R. 7011.2560]
	6650	Option A: The Permittee must limit Volatile Organic Compounds $\geq$ 90 percent overall VOC emission reduction as calculated over a calendar month for each affected facility; or The Permittee shall demonstrate the percent overall VOC emission reduction specified in 40 CFR 60.443(b) as calculated over a calendar month. [40 CFR 60.442(a)(2), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	6660	Option A Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2); $G = \text{SUM}(W_{oi} * M_{ci}) / \text{SUM}(W_{si} * M_{ci})$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. [40 CFR 60.443(a), Minn. R. 7011.2560] Option A Compliance: To determine compliance with 40 CFR 60.442(a)(2), the Permittee shall calculate the required overall VOC emission reduction, R_q, according to the equation in 40 CFR 60.443(b); $R_q = ((G - 0.20) / G) \times 100$ where R_q = the required overall VOC emission reduction (in percent). G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. If R_q is less than or equal to 90 percent, then the required overall VOC emission reduction is R_q. If R_q is greater than 90 percent, then the required overall VOC emission reduction is 90 percent. [40 CFR 60.443(b), Minn. R. 7011.2560]
	6670	Option A Monitoring: The Permittee shall compare the monthly required overall VOC emission reduction specified in 40 CFR 60.443(b) to the overall VOC emission reduction demonstrated in the most recent performance test which complied with 40 CFR 60.442(a)(2). The monthly required overall VOC emission reduction must be less than or equal to the overall VOC reduction of the most recent performance test. [40 CFR 60.443(d), Minn. R. 7011.2560]
	6980	Option A Monthly Records: By the 15th day of each calendar month, the Permittee shall calculate and maintain a record of the VOC percentage reduction required for the previous calendar month for COMG 34, and the actual VOC percentage reduction achieved for COMG 34. [40 CFR 60.443(f), Minn. R. 7011.2560]
	35700	Option A: Startups and shutdowns are normal operation for this affected facility. Emissions from these operations are to be included when determining if the standard specified at 40 CFR 60.442(a)(2) is being attained. [40 CFR 60.443(j), Minn. R. 7011.2560]
	35704	Option A Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	35705	Option B: The Permittee must limit Volatile Organic Compounds ≤ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	35706	Option B Calculations: The Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the equation in 40 CFR 60.443(a)(2): $G = \text{SUM}(W_{oi} * M_{ci}) / \text{SUM}(W_{si} * M_{ci})$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]
	35707	Option B Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	35708	Option A and Option B: The Permittee shall maintain and retain records of the measurements required in 40 CFR 60.443 and 60.445 for at least two years following the date of the measurements. Minn. R. 7007.0800, subp. 5(C) requires that all records be retained for an additional three years, for a total of five years from the date of generation. [40 CFR 60.445(h), Minn. R. 7007.0800, subp. 5(C), Minn. R. 7011.2560]
	35709	Option A and Option B: The VOC content per unit of coating solids applied and compliance with 40 CFR 60.442(a)(1) shall be determined by either Method 24 and the equations specified in 40 CFR 60.443 or by manufacturers' formulation data. In the event of any inconsistency between a Method 24 test and manufacturers' formulation data, the Method 24 test will govern. The Administrator may require the Permittee to perform Method 24 tests during such months as deemed appropriate. For Method 24, the coating sample must be a one liter sample taken into a one liter container at a point where the sample will be representative of the coating applied to the web substrate. [40 CFR 60.446(a), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	35711	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.7(f); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(a)-(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
	35713	Option A: The Permittee shall submit a report: Due by 30 days after end of each calendar half-year. The Permittee shall submit reports semiannually when the TREA 24 temperature drops as defined under 40 CFR 63.443(e). If no such periods occur, the Permittee shall state this in the report. The report shall be submitted with the Semiannual Deviations Report listed in this permit. [40 CFR 60.447(c), Minn. R. 7011.2560]
COMG 35	5	The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 26.0 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in COMG 35. VOC contents for each VOC-containing material shall be determined as described under the Material Content requirement in COMG 35. The calculation of VOCs used may take into account recovered/recycled VOCs as described under the Waste Credit requirement in COMG 35. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	7	The Permittee must limit usage of Volatile Organic Compounds $\leq$ 1,484 pounds per hour, as a calendar month average based on records of the amount of VOC applied and hours of operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]

SI Id	Sequence	Requirement
	14	Emissions from the sources in COMG 35 may be controlled by TREA 24. Control is not required for any source listed in COMG 35 but may be accounted for when demonstrating compliance with the emission limits in COMG 35. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	3855	Recordkeeping of maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or requalification of an existing product. Documentation of maximum VOC input rate is not required for experimental runs (actual VOC as applied and emitted are required in accordance with other requirements). The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as established in the product standard, reference method 24, or alternative method approved by the Commissioner. [Minn. R. 7007.0800, subps. 4-5]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at the facility. This must be based on written or electronic usage logs. Daily records shall include the VOC weight fraction of each material used, the total weight of material used. The VOC content shall be determined as specified under the Material Content condition listed in COMG 35. The Permittee must maintain records in written form or as computer files. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record shall also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	4060	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	6980	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6990	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 35. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	7000	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
COMG 37	2	The Permittee must limit usage of Volatile Organic Compounds $\leq$ 1,852 pounds per hour calendar month average based on records of the amount of VOC applied and hours of operation. [Minn. R. 4410.4300, subp. 15(A) (limit to avoid threshold), Minn. R. 7007.0800, subp. 2(B)]
	4	Recordkeeping of maximum VOC usage in lb/hr shall be determined in the following manner: The Permittee shall maintain records of the maximum VOC input rate in lb/hr for all products. The Permittee shall calculate and record the maximum VOC input rate in lb/hr within 30 days of the start of production of a new saleable product or requalification of an existing product. The maximum VOC input shall be calculated by using the maximum range of parameters such as coat weight, line speed, web width, and percent VOC as required in the material content requirement in COMG 37. [Minn. R. 7007.0800, subps. 4-5]
	5	Material Content. VOC contents in coating materials shall be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range shall be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained shall supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
COMG 38	3535	For each emergency stationary CI RICE, the Permittee must meet the following requirements except during periods of startup; a. Change oil and filter every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary. [40 CFR 63.6602, 40 CFR pt. 63, subp. ZZZZ, Table 2c, Minn. R. 7011.8150] The Permittee must operate and maintain each stationary RICE and after-treatment control device (if any) in COMG 38 according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)(2), Minn. R. 7011.8150]

SI Id	Sequence	Requirement
	3540	The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in 40 CFR pt. 63, subp. ZZZZ, Table 2c apply. [40 CFR 63.6625(h), Minn. R. 7011.8150] The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil and filter change requirement in 40 CFR pt. 63, subp. ZZZZ, Table 2c. The oil analysis must be performed at the same frequency specified for changing the oil and filter in 40 CFR pt. 63, subp. ZZZZ, Table 2c. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil and filter. If any of the limits are exceeded, the Permittee must change the oil and filter within 2 business 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 and filter within 2 business 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 and filter changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(i), Minn. R. 7011.8150]
		The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in 40 CFR pt. 63, subp. ZZZZ that apply at all times. [40 CFR 63.6605(a), Minn. R. 7011.8150]
	3550	At all times the Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b), Minn. R. 7011.8150] The Permittee must demonstrate compliance by; i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The Permittee must keep the records required in 40 CFR pt. 63, subp. ZZZZ, Table 6 to show continuous compliance with each operating limitation that applies. [40 CFR 63.6640(a), 40 CFR 63.6655(d), 40 CFR pt. 63, subp. ZZZZ, Table 6, Minn. R. 7011.8150] The Permittee must report each instance in which each applicable operating limitation in 40 CFR pt. 63, subp. ZZZZ, Table 2c was not met. These instances are deviations from the operating limitations in 40 CFR pt. 63, subp. ZZZZ. These deviations must be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b), Minn. R. 7011.8150]
	3560	The Permittee must also report each instance in which they did not meet the requirements in 40 CFR pt. 63, subp. ZZZZ, Table 8 that apply. [40 CFR 63.6640(e), Minn. R. 7011.8150]

SI Id	Sequence	Requirement
		The Permittee must operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (3) and listed below. In order for the engine to be considered an emergency stationary RICE under 40 CFR pt. 63, subp. ZZZZ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (3), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (3), the engine will not be considered an emergency engine under 40 CFR pt. 63, subp. ZZZZ and must meet all requirements for non-emergency engines. (1) There is no time limit on the use of emergency stationary RICE in emergency situations. (2) The Permittee may operate the emergency stationary RICE for the purpose specified in 40 CFR 63.6640(f)(2)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 63.6640(f)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR 63.6640(f)(2). (i) Emergency stationary RICE may be operated for 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 Permittee 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 Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. (3) Emergency stationary RICE located at major sources of HAP 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 provided in 40 CFR 63.6640(f)(2). 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. [40 CFR 63.6640(f)(1)-(3), Minn. R. 7011.8150] The Permittee must keep the following records; - A copy of each notification and report submitted to comply with 40 CFR pt. 63, subp. ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv). - Records of the occurrence and duration (in hours) of each malfunction of operation (i.e., process equipment). - Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.6655(a)(1), 40 CFR 63.6655(a)(2), 40 CFR 63.6655(a)(5), Minn. R. 7011.8150]
	3565	If the Permittee has their own maintenance plan, the Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. [40 CFR 63.6655(e), Minn. R. 7011.8150]
	35780	The Permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purpose specified in 40 CFR 63.6640(f)(4)(ii), the Permittee must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [40 CFR 63.6655(f), 40 CFR 63.6655(f)(1), Minn. R. 7011.8150]

SI Id	Sequence	Requirement
	35781	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1; 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4; 40 CFR 63.5; 40 CFR 63.6(a); 40 CFR 63.6(b)(1)-(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1); 40 CFR 63.6(c)(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i); 40 CFR 63.6(j); 40 CFR 63.7(a)(1)-(3); 40 CFR 63.7(d); 40 CFR 63.7(e)(2)-(4); 40 CFR 63.7(f); 40 CFR 63.7(g); 40 CFR 63.7(h); 40 CFR 63.8(a)(1)-(2); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(4); 40 CFR 63.8(c)(6)-(8); 40 CFR 63.8(d); 40 CFR 63.8(f)(1)-(3) and (5); 40 CFR 63.8(g); 40 CFR 63.9(a); 40 CFR 63.9(i); 40 CFR 63.9(j); 40 CFR 63.9(k); 40 CFR 63.10(a); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(vi)-(xi); 40 CFR 63.10(b)(2)(xii); 40 CFR 63.10(b)(2)(xiii); 40 CFR 63.10(b)(2)(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(c); 40 CFR 63.10(d)(1); 40 CFR 63.10(d)(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)(1) and (2)(i); 40 CFR 63.10(f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15. A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable

SI Id	Sequence	Requirement
		requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.6665, 40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. ZZZZ, Table 8, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8150, Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
COMG 39	11	For each non-Emergency, non-black start stationary SI RICE <100 HP that are not 2SLB stationary RICE, the Permittee must meet the following requirements except during periods of startup; a. Change oil and filter every 1,440 hours of operation or within 1 year + 30 days of the previous change, whichever comes first; b. Inspect spark plugs every 1,440 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 1,440 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary. [40 CFR 63.6602, 40 CFR pt. 63, subp. ZZZZ, Table 2c, Minn. R. 7011.8150]
	12	The Permittee must operate and maintain each stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)(1), Minn. R. 7011.8150]
	3520	The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in 40 CFR pt. 63, subp. ZZZZ, Table 2c apply. [40 CFR 63.6625(h), Minn. R. 7011.8150] The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil and filter change requirement in 40 CFR pt. 63, subp. ZZZZ, Table 2c. The oil analysis must be performed at the same frequency specified for changing the oil and filter in 40 CFR pt. 63, subp. ZZZZ, Table 2c. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil and filter. If any of the limits are exceeded, the Permittee must change the oil and filter within 2 business 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 and filter within 2 business 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 and filter changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(j), Minn. R. 7011.8150]
	3535	The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in 40 CFR pt. 63, subp. ZZZZ that apply at all times. [40 CFR 63.6605(a), Minn. R. 7011.8150] At all times the Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b), Minn. R. 7011.8150]

SI Id	Sequence	Requirement
	3540	The Permittee must demonstrate compliance by; i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The Permittee must keep the records required in 40 CFR pt. 63, subp. ZZZZ, Table 6 to show continuous compliance with each operating limitation that applies. [40 CFR 63.6640(a), 40 CFR 63.6655(d), 40 CFR pt. 63, subp. ZZZZ, Table 6, Minn. R. 7011.8150] The Permittee must also report each instance in which they did not meet the requirements in 40 CFR pt. 63, subp. ZZZZ, Table 8 that apply. [40 CFR 63.6640(e), Minn. R. 7011.8150]
	3550	The Permittee must report each instance in which each applicable operating limitation in 40 CFR pt. 63, subp. ZZZZ, Table 2c was not met. These instances are deviations from the operating limitations in 40 CFR pt. 63, subp. ZZZZ. These deviations must be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b), Minn. R. 7011.8150]
	3560	The Permittee must keep the following records; - A copy of each notification and report submitted to comply with 40 CFR pt. 63, subp. ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv). - Records of the occurrence and duration (in hours) of each malfunction of operation (i.e., process equipment). - Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.6655(a)(1), 40 CFR 63.6655(a)(2), 40 CFR 63.6655(a)(5), Minn. R. 7011.8150] The Permittee must keep records of the maintenance conducted on each stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. [40 CFR 63.6655(e), Minn. R. 7011.8150]
	35781	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1; 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4; 40 CFR 63.5; 40 CFR 63.6(a); 40 CFR 63.6(b)(1)-(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1); 40 CFR 63.6(c)(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i); 40 CFR 63.6(j); 40 CFR 63.7(a)(1)-(3); 40 CFR 63.7(d); 40 CFR 63.7(e)(2)-(4); 40 CFR 63.7(f); 40 CFR 63.7(g); 40 CFR 63.7(h); 40 CFR 63.8(a)(1)-(2); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1);

SI Id	Sequence	Requirement
		40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(4); 40 CFR 63.8(c)(6)-(8); 40 CFR 63.8(d); 40 CFR 63.8(f)(1)-(3), and (5); 40 CFR 63.8(g); 40 CFR 63.9(a); 40 CFR 63.9(i); 40 CFR 63.9(j); 40 CFR 63.9(k); 40 CFR 63.10(a); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(vi)-(xi); 40 CFR 63.10(b)(2)(xii); 40 CFR 63.10(b)(2)(xiii); 40 CFR 63.10(b)(2)(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(c); 40 CFR 63.10(d)(1); 40 CFR 63.10(d)(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)(1) and (2)(i); 40 CFR 63.10(f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15. A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.6665, 40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. ZZZZ, Table 8, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8150, Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
COMG 40	1	The Permittee must meet each requirement in 40 CFR pt. 63, subp. FFFF, Table 6 that applies to equipment leaks, except as specified in 40 CFR 63.2480(b) through (f). [40 CFR 63.2480(a), Minn. R. 7011.8050]
	2	As required in 40 CFR 63.2480, the Permittee must meet each requirement in 40 CFR pt. 63, subp. FFFF, Table 6 that applies to equipment leaks: For all equipment that is in organic HAP service and that is part of any MCPU the Permittee must comply with the requirements of 40 CFR pt. 63, subp. UU and the requirements referenced therein, except as specified in 40 CFR 63.2480(b) and (d) through (f). [40 CFR pt. 63, subp. FFFF(Table 6), Minn. R. 7011.8050]

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	3	Except as specified in 40 CFR 63.2480(b)(6) and (7), if the Permittee complies with 40 CFR pt. 63, subp. UU, the Permittee may elect to comply with the provisions in 40 CFR 63.2480(b)(1) through (5) as an alternative to the referenced provisions in 40 CFR pt. 63, subp. UU. (1) The requirements for pressure testing in 40 CFR 63.1036(b) may be applied to all processes, not just batch processes. (2) For the purposes of 40 CFR pt. 63, subp. FFFF, pressure testing for leaks in accordance with 40 CFR 63.1036(b) is not required after reconfiguration of an equipment train if flexible hose connections are the only disturbed equipment. (3) For an existing source, the Permittee is not required to develop an initial list of identification numbers for connectors as would otherwise be required under 40 CFR 63.1022(b)(1). [40 CFR 63.2480(b), 40 CFR 63.2480(b)(1)-(3), Minn. R. 7011.8050]
	4	For each piece of equipment that is subject to 40 CFR pt. 63, subp. FFFF, Table 6 and is also subject to periodic monitoring with EPA Method 21 of 40 CFR pt. 60, appendix A–7, and is added to an affected source after December 17, 2019, or replaces equipment at an affected source after December 17, 2019, the Permittee must initially monitor for leaks upon initial startup of the equipment, whichever is later. Equipment that is designated as unsafe- or difficult-to-monitor is not subject to 40 CFR 63.2480(b)(7). [40 CFR 63.2480(b)(7), Minn. R. 7011.8050]
	9	Pressure relief devices routed to a control device, process, fuel gas system, or drain system. (i) If all releases and potential leaks from a pressure relief device are routed through a closed vent system to a control device, back into the process, to the fuel gas system, or to a drain system, then the Permittee is not required to comply with 40 CFR 63.2480(e)(1), (2), or (3). [40 CFR 63.2445(g)(4), 40 CFR 63.2480(e)(4), Minn. R. 7011.8050]
	13	Flowing pilot-operated pressure relief devices. For affected sources that commenced construction or reconstruction on or before December 17, 2019, the Permittee is prohibited from installing a flowing pilot-operated pressure relief device or replacing any pressure relief device with a flowing pilot-operated pressure relief device after August 12, 2023. For affected sources that commenced construction or reconstruction after December 17, 2019, the Permittee is prohibited from installing and operating flowing pilot-operated pressure relief devices. For purpose of compliance with 40 CFR 63.2480(e)(8), a flowing pilot-operated pressure relief device means the type of pilot-operated pressure relief device where the pilot discharge vent continuously releases emissions to the atmosphere when the pressure relief device is actuated. [40 CFR 63.2445(g)(4), 40 CFR 63.2480(e)(8), Minn. R. 7011.8050]
	14	The referenced provisions specified below do not apply when demonstrating compliance with 40 CFR 63.2480; - The phrase "may be included as part of the startup, shutdown, and malfunction plan, as required by the referencing subpart for the source, or" from 40 CFR 63.1024(f)(4)(i) of 40 CFR pt. 63, subp. UU. - 40 CFR 63.1026(b)(3) of 40 CFR pt. 63, subp. UU. - The phrase "(except periods of startup, shutdown, or malfunction)" from 40 CFR 63.1026(e)(1)(ii)(A) of 40 CFR pt. 63, subp. UU. - The phrase "(except during periods of startup, shutdown, or malfunction)" from 40 CFR 63.1028(e)(1)(i)(A) of 40 CFR pt. 63, subp. UU. - The phrase "(except during periods of startup, shutdown, or malfunction)" from 40 CFR 63.1031(b)(1) of 40 CFR pt. 63, subp. UU. [40 CFR 63.2445(g)(4), 40 CFR 63.2480(f)(18)(vii)-(xiii), 40 CFR 63.2480(f)(4)-(8), Minn. R. 7011.8050]

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	15	Unless the Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the Permittee must submit each report by the date in 40 CFR pt. 63, subp. FFFF, Table 11 and according to the following: -Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. -Each subsequent compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the semiannual reporting period. -For each affected source that is subject to permitting regulations pursuant to 40 CFR pt. 70 or 40 CFR pt. 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), the Permittee may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in 40 CFR 63.2520(b)(1) through (4). [40 CFR 63.2520(b)(1)-(5), Minn. R. 7011.8050]
	18	The Permittee must submit a compliance report semiannually according to the requirements in 40 CFR 63.2520(b). On and after August 12, 2023 or once the reporting template for 40 CFR pt. 63, subp. FFFF has been available on the CEDRI website for 1 year, whichever date is later, the Permittee must submit all subsequent reports following the procedure specified in 40 CFR 63.9(k), except any medium submitted through mail must be sent to the attention of the Miscellaneous Organic Chemical Manufacturing Sector Lead. The Permittee must use the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/cedri) for 40 CFR pt. 63, subp. FFFF. The date report templates become available will be listed on the CEDRI website. Unless the Administrator or delegated state agency or other authority has approved a different schedule for submission of reports under 40 CFR 63.9(i) and 40 CFR 63.10(a), the report must be submitted by the deadline specified in this subpart, regardless of the method in which the report is submitted. The compliance report must contain the information specified below: -Company name and address. -Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report. If the report is submitted via CEDRI, the certifier's electronic signature during the submission process replaces this requirement in 40 CFR 2520(e)(2). -Date of report and beginning and ending dates of the reporting period. The Permittee is no longer required to provide the date of report when the report is submitted via CEDRI. -Except as specified in 63.2480(f), applicable records and information for periodic reports as specified in referenced 40 CFR pt. 63, subp. UU. [40 CFR 63.2520(a), 40 CFR 63.2520(e), 40 CFR 63.2520(e)(1)-(3), 40 CFR 63.2520(e)(9), 40 CFR pt. 63, FFFF(Table 11), Minn. R. 7011.8050]

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	19	The Permittee must submit all subsequent compliance reports to the EPA via the CEDRI, which can be accessed through the EPA's CDX (https://cdx.epa.gov/). The EPA will make all the information submitted through CEDRI available to the public without further notice to the Permittee. Do not use CEDRI to submit information claimed as CBI. Anything submitted using CEDRI cannot later be claimed to be CBI. The Permittee must use the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri) for 40 CFR pt. 63, subp. FFFF. The date report templates become available will be listed on the CEDRI website. Unless the Administrator or delegated state agency or other authority has approved a different schedule for submission of reports under 40 CFR 63.9(i) and 63.10(a), the report must be submitted by the deadline specified in 40 CFR pt. 63, subp. FFFF, regardless of the method in which the report is submitted. Although we do not expect persons to assert a claim of CBI, if the Permittee wishes to assert a CBI claim, submit a complete report, including information claimed to be CBI, to the EPA. The report must be generated using the appropriate form on the CEDRI website or an alternate electronic file consistent with the extensible markup language (XML) schema listed on the CEDRI website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, CORE CBI Office, U.S. EPA Mailroom (C404-02), Attention: Miscellaneous Organic Chemical Manufacturing Sector Lead, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described in 40 CFR 63.2520(e). All CBI claims must be asserted at the time of submission. Furthermore under CAA section 114(c) emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. [40 CFR 63.2520(a), 40 CFR 63.2520(e), 40 CFR pt. 63, subp. FFFF(Table 11), Minn. R. 7011.8050]
	22	For an affected source complying with the requirements in 40 CFR pt. 63, subp. UU, the terms used in 40 CFR pt. 63, subp. FFFF and in 40 CFR pt. 63, subp. UU have the meaning given them in 40 CFR 63.1020. [40 CFR 63.2250(c), Minn. R. 7011.8050]
	23	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. UU as follows: 40 CFR 63.1019; 40 CFR 63.1020; 40 CFR 63.1022(a); 40 CFR 63.1022(b)(1)-(2); 40 CFR 63.1022(b)(4)-(5); 40 CFR 63.1022(c)-(f); 40 CFR 63.1023; 40 CFR 63.1024; 40 CFR 63.1025; 40 CFR 63.1026; 40 CFR 63.1027; 40 CFR 63.1028(a)-(d); 40 CFR 63.1028(e)(1)(i)(A)-(B); 40 CFR 63.1028(e)(1)(ii)-(vi); 40 CFR 63.1028(e)(2)-(7); 40 CFR 63.1029; 40 CFR 63.1031; 40 CFR 63.1032; 40 CFR 63.1033; 40 CFR 63.1034; 40 CFR 63.1035; 40 CFR 63.1036; 40 CFR 63.1037; 40 CFR 63.1038; 40 CFR 63.1039; and 40 CFR pt. 63, subp. UU, Table 1

SI Id	Sequence	Requirement
		A copy of 40 CFR pt. 63, subp. UU is included in Appendix E. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. UU, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8200]
	12250	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1; 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4; 40 CFR 63.5; 40 CFR 63.6(a); 40 CFR 63.6(b)(1)-(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1)-(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(e)(1)(iii); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i)(1)-(14); 40 CFR 63.6(i)(16); 40 CFR 63.6(j); 40 CFR 63.7(a)(1)-(2), except substitute 150 days for 180 days; 40 CFR 63.7(a)(3); 40 CFR 63.7(a)(4); 40 CFR 63.7(b)(1)-(2); 40 CFR 63.7(c), except the test plan must be submitted with the notification of the performance test if the control device controls batch process vents; 40 CFR 63.7(d); 40 CFR 63.7(e)(2)-(4); 40 CFR 63.7(f); 40 CFR 63.7(g), except this subpart specifies how and when the performance test and performance evaluation results are reported; 40 CFR 63.7(h); 40 CFR 63.8(a)(1)-(2); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(3); 40 CFR 63.8(f)(1)-(5), except the Permittee may also request approval using the precompliance report.; 40 CFR 63.9(a); 40 CFR 63.9(b)(1)-(5); 40 CFR 63.9(c); 40 CFR 63.9(d); 40 CFR 63.9(e); 40 CFR 63.9(h)(1)-(6), except 40 CFR 63.9(h)(2)(i)(A)-(G) and (h)(2)(ii) do not apply because 40 CFR 63.2520(d) specifies the required contents and due date of the notification of compliance status report; 40 CFR 63.9(i); 40 CFR 63.9(j), for change in major source status, otherwise 40 CFR 63.2520(e) specifies reporting requirements for process changes; 40 CFR 63.9(k); 40 CFR 63.10(a); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(iii);

SI Id	Sequence	Requirement
		40 CFR 63.10(b)(2)(vii)-(ix); 40 CFR 63.10(b)(2)(xii); 40 CFR 63.10(b)(2)(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(d)(1); 40 CFR 63.10(d)(4); 40 CFR 63.10(f); 40 CFR 63.11; 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15 A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.2540, 40 CFR pt. 63, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8050, Minn. R. 7011.8050, Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
COMG 41	1	Storage tanks and transfer racks not required to be controlled are not subject to any other notification, recordkeeping, or reporting sections in 40 CFR pt. 63, subp. EEEE including 40 CFR 63.2350(c), except as indicated in 40 CFR 63.2343(a) through (d). [40 CFR 63.2343, Minn. R. 7011.8110]
	2	For each transfer rack subject to 40 CFR pt. 63, subp. EEEE that only unloads organic liquids (i.e., no organic liquids are loaded at any of the transfer racks), the Permittee must keep documentation that verifies that each transfer rack identified in 40 CFR 63.2343(a) is not required to be controlled. The documentation must be kept up-to-date (i.e., all such emission sources at a facility are identified in the documentation regardless of when the documentation was last compiled) and must be in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. The documentation may consist of identification of the transfer racks identified in 40 CFR 63.2343(a) on a plant site plan or process and instrumentation diagram (P&ID). [40 CFR 63.2343(a), Minn. R. 7011.8110]
	3	For each storage tank with a capacity of 18.9 cubic meters (5,000 gallons) or more that is not subject to control based on the criteria specified in 40 CFR pt. 63, subp. EEEE, Table 2, items 1 through 6, the Permittee must comply with the requirements specified in 63.2343(b)(1) through (3). (1)(i) The Permittee must submit the information in 40 CFR 63.2386(c)(1), (2), (3), and (10)(i) in either the Notification of Compliance Status, according to the schedule specified in 40 CFR pt. 63, subp. EEEE, Table 12, or in the first Compliance report, according to the schedule specified in 40 CFR 63.2386(b), whichever occurs first. (ii) (A) If the Permittee submits the first Compliance report before the Notification of Compliance Status, the Notification of Compliance Status must contain the information specified in 40 CFR 63.2386(d)(3) and (4) if any of the changes identified in 40 CFR 63.2343(d) have occurred since the filing of the first Compliance report. If none of the changes identified in 40 CFR 63.2343(d) have occurred since the filing of the first Compliance report, the Permittee does not need to report the information specified in 40 CFR 63.2386(c)(10)(i) when the Permittee submits the Notification of Compliance Status. (B) If the Permittee submits the Notification of Compliance Status before the first Compliance report, the first Compliance report must contain the information specified in 40 CFR 63.2386(d)(3) and (4) if any of the changes specified in 40 CFR 63.2343(d) have occurred since the filing of the Notification of Compliance Status. (iii) If the Permittee is already submitting a Notification of Compliance Status or a first Compliance report under 40 CFR 63.2386(c), the Permittee does not need to submit a separate Notification of Compliance Status or first Compliance report for each storage tank that meets the conditions identified in 40 CFR 63.2343(b) (i.e., a single Notification of Compliance Status or first Compliance report should be submitted).

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		(2)(i) The Permittee must submit a subsequent Compliance report according to the schedule in 40 CFR 63.2386(b) whenever any of the events in 40 CFR 63.2343(d) occur, as applicable. (ii) Subsequent Compliance reports must contain the information in 40 CFR 63.2386(c)(1), (2), (3) and, as applicable, in 40 CFR 63.2386(d)(3) and (4). If the Permittee is already submitting a subsequent Compliance report under 40 CFR 63.2386(d), the Permittee does not need to submit a separate subsequent Compliance report for each storage tank that meets the conditions identified in 40 CFR 63.2343(b) (i.e., a single subsequent Compliance report should be submitted). (3) For each storage tank that meets the conditions identified 40 CFR 63.2342(b), the Permittee must keep documentation, including a record of the annual average true vapor pressure of the total Table 1 organic HAP in the stored organic liquid, that verifies the storage tank is not required to be controlled under 40 CFR pt. 63, subp. EEEE. The documentation must be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. [40 CFR 63.2343(b)(1)-(3), Minn. R. 7011.8110]
4		The requirements specified in 40 CFR 63.2343 (b)(1) through (3) apply to the following storage tanks: (i) Storage tanks at an existing affected source subject to this subpart having a capacity of 18.9 cubic meters (5,000 gallons) or more that are not subject to control based on the criteria specified in Table 2b to this subpart, items 1 through 3. (ii) Storage tanks at a reconstructed or new affected source subject to this subpart having a capacity of 18.9 cubic meters (5,000 gallons) or more that are not subject to control based on the criteria specified in Table 2 to this subpart, items 3 through 6. [40 CFR 63.2343(b)(1)-(4), Minn. R. 7011.8110]
5		For each transfer rack that loads organic liquids but is not subject to control based on criteria specified in 40 CFR pt. 63, subp. EEEE, Table 2, items 7 through 10 (EQUIs 251 - 255), the Permittee must comply with the requirements specified in 40 CFR 63.2343(c)(1) through (3). (1) (i) The Permittee must submit the information in 40 CFR 63.2386(c)(1), (2), (3), and (10)(i) in either the Notification of Compliance Status, according to the schedule specified in 40 CFR pt. 63, subp. EEEE, Table 12, or a first Compliance report, according to the schedule specified in 40 CFR 63.2386(b), whichever occurs first. (ii) (A) If the Permittee submits the first Compliance report before the Notification of Compliance Status, the Notification of Compliance Status must contain the information specified in 40 CFR 63.2386(d)(3) and (4) if any of the changes identified in 40 CFR 63.2343(d) have occurred since the filing of the first Compliance report. If none of the changes identified in 40 CFR 63.2343(d) have occurred since the filing of the first Compliance report, the Permittee does not need to report the information specified in 40 CFR 63.2386(c)(10)(i) when submitting the Notification of Compliance Status. (B) If the Permittee submits the Notification of Compliance Status before the first Compliance report, the first Compliance report must contain the information specified in 40 CFR 63.2386(d)(3) and (4) if any of the changes specified in 40 CFR 63.2343(d) have occurred since the filing of the Notification of Compliance Status. (iii) If the Permittee is already submitting a Notification of Compliance Status or a first Compliance report under 40 CFR 63.2386(c), the Permittee does not need to submit a separate Notification of Compliance Status or first Compliance report for each transfer rack that meets the conditions identified in 40 CFR 63.2343(c) (i.e., a single Notification of Compliance Status or first Compliance report should be submitted). (2) (i) The Permittee must submit a subsequent Compliance report according to the schedule in 40 CFR 63.2386(b) whenever any of the events in 40 CFR 63.2343(d) occur, as applicable. (ii) The subsequent Compliance reports must contain the information in 40 CFR 63.2386(c)(1), (2), (3) and, as

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		applicable, in 40 CFR 63.2386(d)(3) and (4). If the Permittee is already submitting a subsequent Compliance report under 40 CFR 63.2386(d), the Permittee does not need to submit a separate subsequent Compliance report for each transfer rack that meets the conditions identified in paragraph (c) of this section (i.e., a single subsequent Compliance report should be submitted). (3) For each transfer rack that meets the conditions identified in 40 CFR 63.2343(c), the Permittee must keep documentation, including the records specified in 40 CFR 63.2390(d), that verifies the transfer rack is not required to be controlled under this subpart. The documentation must be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form in a separate location. [40 CFR 63.2343(c), Minn. R. 7011.8110]
6		If one or more of the events identified in 40 CFR 63.2343(d)(1) through (4) occur since the filing of the Notification of Compliance Status or the last Compliance report, the Permittee must submit a subsequent Compliance report as specified in 40 CFR 63.2343(b)(2) and (c)(2). (1) Any storage tank or transfer rack became subject to control under 40 CFR pt. 63, subp. EEEE; or (2) Any storage tank equal to or greater than 18.9 cubic meters (5,000 gallons) became part of the affected source but is not subject to any of the emission limitations, operating limits, or work practice standards of 40 CFR pt. 63, subp. EEEE; or (3) Any transfer rack (except those racks at which only unloading of organic liquids occurs) became part of the affected source; or (4) Any of the information required in 40 CFR 63.2386(c)(1), 40 CFR 63.2386(c)(2), or 40 CFR 63.2386(c)(3) has changed. [40 CFR 63.2343(d), Minn. R. 7011.8110]
7		The Permittee must submit each report according to 40 CFR pt. 63, subp. EEEE, Table 11 by the dates listed below: -Each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. -Each subsequent Compliance report must be postmarked no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. -For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), the Permittee may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in 40 CFR 63.2386(b)(1) and (2). [40 CFR 63.2386(b)(2)-(3), Minn. R. 7011.8110]
8		Subsequent Compliance reports must contain the following applicable information: (1) Company name and address. (2) Statement by a responsible official, including the official's name, title, and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete. If the compliance report is submitted via CEDRI, the certifier's electronic signature during the submission process replaces this requirement. (3) Date of report and beginning and ending dates of the reporting period. The Permittee is no longer required to provide the date of report when the report is submitted via CEDRI. (10)(i) A listing of all transfer racks (except those racks at which only unloading of organic liquids occurs) and of tanks greater than or equal to 18.9 cubic meters (5,000 gallons) that are part of the affected source but are not subject to any of the emission limitations, operating limits, or work practice standards of 40 CFR pt. 63, subp. EEEE. [40 CFR 63.2386(c)(1)-(3),(10)(i), 40 CFR 63.2386(d), Minn. R. 7011.8110]

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	9	The Permittee must keep records of the total actual annual facility-level organic liquid loading volume as defined in 40 CFR 63.2406 through transfer racks to document the applicability, or lack thereof, of the emission limitations in 40 CFR pt. 63, subp. EEEE, Table 2, items 7 through 10. Total actual annual facility-level organic liquid loading volume means the total facility-level actual volume of organic liquid loaded for transport within or out of the facility through transfer racks that are part of the affected source into transport vehicles (for existing affected sources) based on a 3-year rolling average, calculated annually. For existing affected sources, each 3-year rolling average is based on actual facility-level loading volume during each calendar year (January 1 through December 31) in the 3-year period. [40 CFR 63.2390(d), 40 CFR 63.2406, Minn. R. 7011.8110]
	10	(a) The records must be in a form suitable and readily available for expeditious inspection and review according to 40 CFR 63.10(b)(1), including records stored in electronic form at a separate location. (b) As specified in 40 CFR 63.10(b)(1), the Permittee must keep files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. (c) The Permittee must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The Permittee may keep the records off site for the remaining 3 years. [40 CFR 63.2394, Minn. R. 7011.8110]
	11	The Permittee must submit a compliance report or periodic report semiannually. The report must contain the information specified in 40 CFR 63.2386(c) and (d). The report must be postmarked or electronically submitted by January 31 or July 31, in accordance with 40 CFR 63.2386. For each affected source that is subject to permitting regulations pursuant to 40 CFR pt. 70 or 40 CFR pt. 71, if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), the Permittee may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in 40 CFR 63.2386(b)(1) and (2). [40 CFR 63.2386(b)(3), 40 CFR pt. 63, subp. EEEE(Table 11)(item 1a), Minn. R. 7011.8110]
	12250	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1; 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4; 40 CFR 63.5; 40 CFR 63.6(a); 40 CFR 63.6(b)(1)-(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1)-(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(e)(1)(iii); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i)(1)-(14); 40 CFR 63.6(j); 40 CFR 63.7(a)(2); 40 CFR 63.7(a)(3); 40 CFR 63.7(a)(4); 40 CFR 63.7(b)(1)-(2); 40 CFR 63.7(c); 40 CFR 63.7(d); 40 CFR 63.7(e)(2);

SI Id	Sequence	Requirement
		40 CFR 63.7(e)(3), however, for transfer racks per 40 CFR 63.987(b)(3)(i)(A)-(B) and 40 CFR 63.997(e)(1)(v)(A)-(B) provide exceptions to the requirement for test runs to be at least 1 hour each; 40 CFR 63.7(e)(4); 40 CFR 63.7(f); 40 CFR 63.7(g), except 40 CFR pt. 63, subp. EEEE specifies how and when the performance test and performance evaluation results are reported; 40 CFR 63.7(h); 40 CFR 63.8(a)(1)-(2); 40 CFR 63.8(b)(1); 40 CFR 63.8(b)(2)-(3); 40 CFR 63.8(c)(1); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(3); 40 CFR 63.8(f)(1)-(5), but 40 CFR pt. 63, subp. SS also provides procedures for approval of CPMS; 40 CFR 63.8(f)(6); 40 CFR 63.9(a); 40 CFR 63.9(b)(1)-(2); 40 CFR 63.9(b)(4)-(5); 40 CFR 63.9(c); 40 CFR 63.9(d); 40 CFR 63.9(e); 40 CFR 63.9(h)(1)-(6), however, (1) there are no opacity standards and (2) all initial Notification of Compliance Status, including all performance test data, are to be submitted at the same time, either within 240 days after the compliance date or within 60 days after the last performance test demonstrating compliance has been completed, whichever occurs first; 40 CFR 63.9(i); 40 CFR 63.9(j), for change to major source status, other changes are reported in the first and subsequent compliance reports; 40 CFR 63.9(k); 40 CFR 63.10(a); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(iii); 40 CFR 63.10(b)(2)(vi)-(xi); 40 CFR 63.10(b)(2)(xii); 40 CFR 63.10(b)(2)(xiii); 40 CFR 63.10(b)(2)(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(c)(1)-(14); 40 CFR 63.10(d)(1); 40 CFR 63.10(d)(3); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)(1)-(2), except 40 CFR pt. 63, subp. EEEE specifies how and when the performance evaluation results are reported; however, COMS are not applicable; 40 CFR 63.10(e)(3)(i)-(iii), however, note that the title of the report is the compliance report; deviations include excess emissions and parameter exceedances; 40 CFR 63.10(e)(3)(iv)-(v); 40 CFR 63.10(f); 40 CFR 63.11(c); 40 CFR 63.11(d); 40 CFR 63.11(e); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15.

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		A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.2398, 40 CFR pt. 63, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8110, Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
COMG 42	1	The Permittee shall limit applications of HAPs - Organic <= 400 kilograms per month for every month, on product and packaging rotogravure or wide-web flexographic printing presses. [40 CFR 63.821(b)(2), Minn. R. 7011.7380]
	2	Each product and packaging rotogravure or wide-web flexographic printing affected source, as defined in 40 CFR 63.2, that does not comply with 40 CFR 63.821(b)(2) in any month after start-up of the affected source, starting with that month, is subject to all relevant requirements of 40 CFR pt. 63, subp. KK and is no longer eligible to use the provisions of 40 CFR 63.821(b), even if in subsequent months the affected source does comply with the criteria of 40 CFR 63.821(b)(2). [40 CFR 63.821(c), Minn. R. 7011.7380]
	3	The Permittee shall maintain records as required in 40 CFR 63.829(e)(2). The Permittee shall maintain these records for five years, and upon request, submit them to the Administrator. The Permittee shall maintain records of the total mass and organic HAP content of each material applied on product and packaging rotogravure or wide-web flexographic printing presses during each month. [40 CFR 63.829(e)(2), Minn. R. 7011.7380]
	35780	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1(a); 40 CFR 63.1(b)(1); 40 CFR 63.1(b)(3); 40 CFR 63.1(c)(1)-(2); 40 CFR 63.1(c)(5)-(6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4; 40 CFR 63.5; 40 CFR 63.6(a)(1)-(2); 40 CFR 63.6(b)(1)-(5), (7); 40 CFR 63.6(c)(1)-(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(e)(1); 40 CFR 63.6(e)(3); 40 CFR 63.6(f); 40 CFR 63.6(g); 40 CFR 63.6(h)(1)-(9); 40 CFR 63.6(i)(1)-(9), (11); 40 CFR 63.6(j); 40 CFR 63.7(a)(2); 40 CFR 63.7(a)(2)(ix); 40 CFR 63.7(a)(3)-(4); 40 CFR 63.7(b)-(h); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)-(g); 40 CFR 63.9(b)(1)-(2); 40 CFR 63.9(b)(4)-(5); 40 CFR 63.9(c)-(k); 40 CFR 63.10(a)(5)-(7); 40 CFR 63.10(b)(1)-(3);

SI Id	Sequence	Requirement
		40 CFR 63.10(c); 40 CFR 63.10(d)(1)-(5); 40 CFR 63.10(e); 40 CFR 63.10(f); 40 CFR 63.11; 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; 40 CFR 63.15;and 40 CFR 63.16. A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
COMG 43	3860	The Permittee must limit emissions of Volatile Organic Compounds <= 50 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. COMG 43 is an affected facility under 40 CFR pt. 60, subp. RR and is not subject to the emission limits of 40 CFR 60.442(a) if the inputs to the coating process are 45 Mg (50 tons) of VOC or less per 12 month period. If the amount of VOC input exceeds 45 Mg (50 tons) per 12 month period, the coating line will become subject to 40 CFR 60.442(a) and all other sections of 40 CFR pt. 60, subp. RR. VOC contents for each VOC-containing material must be determined as described under the Material Content requirement in COMG 43. [40 CFR 60.440(b), Minn. R. 7011.2560]
	4040	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at COMG 43. This must be based on written or electronic usage logs. [Minn. R. 7007.0800, subps. 4-5] Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee must calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record must also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]

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	4060	Material Content. VOC contents in materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6683	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6980	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 43. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]
	6990	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. [Minn. R. 7007.0800, subp. 2(A)]
	7000	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i);

SI Id	Sequence	Requirement
		40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
COMG 44	1	The Permittee must limit Volatile Organic Compounds ≤ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR Section 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560]
	2	Monitoring: To determine compliance with 40 CFR 60.442, the Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the following equation, as listed in 40 CFR 60.443(a)(2); $G = \frac{\sum(W_{oi} * M_{ci})}{\sum(W_{si} * M_{ci})}$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with the limit in this permit and 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]
	3	Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	4	Test methods and procedures. The VOC content per unit of coating solids applied and compliance with 40 CFR 60.442(a)(1) shall be determined by either Method 24 and the equations specified in 40 CFR 60.443 or by manufacturers' formulation data. In the event of any inconsistency between a Method 24 test and manufacturers' formulation data, the Method 24 test will govern. The Administrator may require the Permittee to perform Method 24 tests during such months as appropriate. For Method 24, the coating sample must be a one liter sample taken into a one liter container at a point where the sample will be representative of the coating applied to the web substrate. [40 CFR 60.446(a), Minn. R. 7011.2560]

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	6683	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
COMG 45	1	The Permittee must limit Volatile Organic Compounds $\leq$ 0.20 kilograms per kilograms (kg VOC emitted per kg coating solids applied) calculated as a weighted average for each calendar month. The requirement applies individually to each affected facility (coating line), as defined at 40 CFR Section 60.440(a). [40 CFR 60.442(a)(1), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	2	Monitoring: To determine compliance with 40 CFR 60.442, the Permittee shall calculate a weighted average of the mass of solvent used per mass of coating solids applied for a one calendar month period according to the following procedures: (1) Determine the weight fraction of organics and the weight fraction of solids of each coating applied by using Reference Method 24, or by the coating manufacturer's formulation data. (2) Compute the weighted average (G) by the following equation, as listed in 40 CFR 60.443(a)(2); $G = \frac{\sum(W_{oi} * M_{ci})}{\sum(W_{si} * M_{ci})}$ where G = the calculated weighted average mass (kg) of VOC per mass (kg) of coating solids applied each calendar month. W_{oi} = the weight fraction of organics applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. M_{ci} = the total mass (kg) of each coating (i) applied during the calendar month as determined from facility records. W_{si} = the weight fraction of solids applied of each coating (i) applied during a calendar month as determined from Method 24 or coating manufacturer's formulation data. (3) For each affected facility where the value of G is less than or equal to 0.20 kg VOC per kg of coating solids applied, the affected facility is in compliance with the limit in this permit and 40 CFR 60.442(a)(1). [40 CFR 60.443(a), Minn. R. 7011.2560]
	3	Recordkeeping: The Permittee shall maintain a calendar month record of all coatings used and the results of the reference test method specified in 40 CFR 60.446(a) or the manufacturer's formulation data used for determining the VOC content of those coatings. [40 CFR 60.445(a), Minn. R. 7011.2560]
	4	Test methods and procedures. The VOC content per unit of coating solids applied and compliance with 40 CFR 60.442(a)(1) shall be determined by either Method 24 and the equations specified in 40 CFR 60.443 or by manufacturers' formulation data. In the event of any inconsistency between a Method 24 test and manufacturers' formulation data, the Method 24 test will govern. The Administrator may require the Permittee to perform Method 24 tests during such months as appropriate. For Method 24, the coating sample must be a one liter sample taken into a one liter container at a point where the sample will be representative of the coating applied to the web substrate. [40 CFR 60.446(a), Minn. R. 7011.2560]

SI Id	Sequence	Requirement
	6683	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
COMG 46	3855	The Permittee must limit emissions of Volatile Organic Compounds <= 50 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. COMG 46 is an affected facility under 40 CFR pt. 60, subp. RR and is not subject to the emission limits of 40 CFR 60.442(a) if the inputs to the coating process are 45 Mg (50 tons) of VOC or less per 12 month period. If the amount of VOC input exceeds 45 Mg (50 tons) per 12 month period, the coating line will become subject to 40 CFR 60.442(a) and all other sections of 40 CFR pt. 60, subp. RR. VOC contents for each VOC-containing material must be determined as described under the Material Content requirement in COMG 46. [40 CFR 60.440(b), Minn. R. 7011.2560]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at COMG 46. This must be based on written or electronic usage logs. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee must calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record must also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	4060	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. As part of the Annual Report, the Permittee must verify and certify that COMG 46 has maintained compliance with 40 CFR 60.440(b). [Minn. R. 7007.0800, subp. 2(A)]
	6683	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6980	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	6990	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 46. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]

SI Id	Sequence	Requirement
	7000	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
COMG 47	3855	The Permittee must limit emissions of Volatile Organic Compounds <= 50 tons per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. COMG 46 is an affected facility under 40 CFR pt. 60, subp. RR and is not subject to the emission limits of 40 CFR 60.442(a) if the inputs to the coating process are 45 Mg (50 tons) of VOC or less per 12 month period. If the amount of VOC input exceeds 45 Mg (50 tons) per 12 month period, the coating line will become subject to 40 CFR 60.442(a) and all other sections of 40 CFR pt. 60, subp. RR. VOC contents for each VOC-containing material must be determined as described under the Material Content requirement in COMG 47. [40 CFR 60.440(b), Minn. R. 7011.2560]
	3860	Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total quantity of each coating and other VOC containing material used at COMG 47. This must be based on written or electronic usage logs. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	4040	Volatile Organic Compounds: Monthly Recordkeeping. By the 15th of the month, the Permittee must calculate and record the following: 1) The total usage of each VOC-containing material for the previous calendar month using the daily usage records. This record must also include the VOC contents of each material as determined by the Material Content requirement of this permit; 2) The VOC emissions for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC emissions for the previous 12-month period by summing the monthly VOC emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4050	Volatile Organic Compounds: Monthly Calculations. The Permittee must calculate VOC emissions using the following equations: $\text{VOC (tons/month)} = V - W$ $V = (A1 \times B1) + (A2 \times B2) + (A3 \times B3) + \dots$ $W = (C1 \times D1) + (C2 \times D2) + (C3 \times D3) + \dots$ where: V = total VOC used in tons/month; A# = amount of each VOC-containing material used, in tons/month; B# = weight percent VOC in A#, as a fraction; W = the amount of VOC shipped in waste, in tons/month; C# = amount, in tons/month, of each VOC-containing waste material shipped. If the Permittee chooses to not take credit for waste shipments, this parameter would be zero; and D# = weight percent of VOC in C#, as a fraction. [Minn. R. 7007.0800, subps. 4-5]
	4060	The Permittee must submit an annual report by the 31st of January. The report must document the VOC 12-month rolling sum calculations for the previous calendar year. The report must be submitted with the annual Compliance Certification required by this permit. As part of the Annual Report, the Permittee must verify and certify that COMG 47 has maintained compliance with 40 CFR 60.440(b). [Minn. R. 7007.0800, subp. 2(A)]
	6980	Material Content. VOC contents in coating materials must be determined by the Safety Data Sheet (SDS) or the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the SDS or the MSDS, the highest number in the range must be used in all compliance calculations. If information is provided in the Regulatory Section of the SDS, the highest number in the range of that section may be used. Other alternative methods approved by the MPCA may be used to determine the VOC contents. The Commissioner reserves the right to require the Permittee to determine the VOC contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained must supersede the SDS or the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	6990	Waste Credit: If the Permittee elects to obtain credit for VOC shipped in waste materials, the Permittee must either use item 1 or 2 to determine the VOC content for each credited shipment. 1) The Permittee must analyze a composite sample of each waste shipment to determine the weight content of VOC. 2) The Permittee may use supplier data for raw materials to determine the VOC contents of each waste shipment, using the same content data used to determine the content of raw materials. If the waste contains several materials, the content of mixed waste must be assumed to be the lowest VOC content of any of the materials. [Minn. R. 7007.0800, subps. 4-5]
	7000	Maximum Contents of Materials and Process Rate: The Permittee assumed certain worst-case contents of materials and process rates when determining the short term potential to emit of units in COMG 47. These assumptions are listed in Appendix B of this permit. Increasing the process rate or changing to a material that has a higher content of any of the given pollutants is considered a change in method of operation that must be evaluated under Minn. R. 7007.1200, subp. 3 to determine if a permit amendment or notification is required under Minn. R. 7007.1150. [Minn. R. 7005.0100, subp. 35a]

SI Id	Sequence	Requirement
		The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5(a)-(b); 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1), (3), and (4)-(7); 40 CFR 60.7(b)-(d); 40 CFR 60.8(a)-(i); 40 CFR 60.9; 40 CFR 60.11(d); 40 CFR 60.11(e)(1)-(8); 40 CFR 60.11(f); 40 CFR 60.11(g); 40 CFR 60.12; 40 CFR 60.13(a)-(c); 40 CFR 60.13(d)(1)-(2); 40 CFR 60.13(e)(1)-(2); 40 CFR 60.13(f); 40 CFR 60.13(g); 40 CFR 60.13(h)(1)-(3); 40 CFR 60.13(i)(1)-(9); 40 CFR 60.13(j)(1)-(2); 40 CFR 60.14(a)-(l); 40 CFR 60.15(a)-(g); 40 CFR 60.17; 40 CFR 60.18(b)-(i); 40 CFR 60.19(a)-(e); and 40 CFR 60.19(f)(1)-(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. RR, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2560, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
COMG 48	1	The Permittee shall limit the usage of Volatile Organic Compounds <= 95 megagrams 12-month rolling sum. If the amount of VOC used is 95 Mg or greater per 12-month period, the affected facility is subject to all the requirements of 40 CFR pt. 60, subp. VVV and the Permittee must apply for and obtain the appropriate permit amendment to add those requirements to the permit. Once an affected facility has become subject to the requirements 40 CFR pt. 60, subp. VVV, it will remain subject to those requirements regardless of changes in annual VOC use. [40 CFR 60.740(b), Minn. R. 7011.3100]
	2	Volatile Organic Compounds: Daily Recordkeeping. On each day of operation, the Permittee shall calculate, record, and maintain the total quantity of each coating and other VOC containing material used at COMG 48. This shall be based on written or electronic usage logs records. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	3	Volatile Organic Compounds: Monthly Recordkeeping - VOC Applied. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total tons of each coating used in the previous month using the records and formulation specifications required by this permit; 2) The VOC applied in coatings for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC applied in coatings for the previous 12-month period by summing the monthly VOC application data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4	Volatile Organic Compounds: Monthly Calculations - VOC Applied. The Permittee shall calculate the VOC applied in coatings, in tons/month, by the 15th of the month for the previous month using the following method: $\text{VOC} = (B1 \times M1) + (B2 \times M2) + (B3 \times M3) + \dots$ where: M# = the total mass, in tons, of each coating (#) applied during the calendar month; and B# = the weight fraction of volatile organics in coating M#. The value of B# shall be obtained from either a U.S. EPA Reference Method 24 test or manufacturer's formulation data. [Minn. R. 7007.0800, subps. 4-5]
	5	The Permittee must: (1) Make semiannual estimates of the projected annual amount of VOC to be used for the manufacture of polymeric coated substrate at the affected coating operation in that year; and (2) Maintain records of actual VOC use. [40 CFR 60.744(b), Minn. R. 7011.3100]
	6	The Permittee must: (1) Record semiannual estimates of projected VOC use and actual 12-month VOC use; (2) Report the first semiannual estimate in which projected annual VOC use exceeds the applicable cutoff; and (3) Report the first 12-month period in which the actual VOC use exceeds the applicable cutoff. [40 CFR 60.747(c), Minn. R. 7011.3100]
	35700	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1); 40 CFR 60.7(a)(3)-(7); 40 CFR 60.7(b); 40 CFR 60.7(c); 40 CFR 60.7(d); 40 CFR 60.9; 40 CFR 60.11; 40 CFR 60.12; 40 CFR 60.14; 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19. A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. VVV, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.3100, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]

SI Id	Sequence	Requirement
COMG 49	1	The Permittee shall limit the usage of Volatile Organic Compounds ≤ 95 megagrams 12-month rolling sum. If the amount of VOC used is 95 Mg or greater per 12-month period, the affected facility is subject to all the requirements of 40 CFR pt. 60, subp. VVV and the Permittee must apply for and obtain the appropriate permit amendment to add those requirements to the permit. Once an affected facility has become subject to the requirements 40 CFR pt. 60, subp. VVV, it will remain subject to those requirements regardless of changes in annual VOC use. [40 CFR 60.740(b), Minn. R. 7011.3100]
	2	Volatile Organic Compounds: Daily Recordkeeping. On each day of operation, the Permittee shall calculate, record, and maintain the total quantity of each coating and other VOC containing material used at COMG 49. This shall be based on written or electronic usage logs records. [Minn. R. 7007.0800, subps. 4-5]
	3	Volatile Organic Compounds: Monthly Recordkeeping - VOC Applied. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total tons of each coating used in the previous month using the records and formulation specifications required by this permit; 2) The VOC applied in coatings for the previous month using the formulas specified in this permit; and 3) The 12-month rolling sum VOC applied in coatings for the previous 12-month period by summing the monthly VOC application data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	4	Volatile Organic Compounds: Monthly Calculations - VOC Applied. The Permittee shall calculate the VOC applied in coatings, in tons/month, by the 15th of the month for the previous month using the following method: $\text{VOC} = (B1 \times M1) + (B2 \times M2) + (B3 \times M3) + \dots$ where: M# = the total mass, in tons, of each coating (#) applied during the calendar month; and B# = the weight fraction of volatile organics in coating M#. The value of B# shall be obtained from either a U.S. EPA Reference Method 24 test or manufacturer's formulation data. [Minn. R. 7007.0800, subps. 4-5]
	5	The Permittee must: (1) Make semiannual estimates of the projected annual amount of VOC to be used for the manufacture of polymeric coated substrate at the affected coating operation in that year; and (2) Maintain records of actual VOC use. [40 CFR 60.744(b), Minn. R. 7011.3100]
	6	The Permittee must: (1) Record semiannual estimates of projected VOC use and actual 12-month VOC use; (2) Report the first semiannual estimate in which projected annual VOC use exceeds the applicable cutoff; and (3) Report the first 12-month period in which the actual VOC use exceeds the applicable cutoff. [40 CFR 60.747(c), Minn. R. 7011.3100]

SI Id	Sequence	Requirement
	35700	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6(a)-(b); 40 CFR 60.7(a)(1); 40 CFR 60.7(a)(3)-(7); 40 CFR 60.7(b); 40 CFR 60.7(c); 40 CFR 60.7(d); 40 CFR 60.9; 40 CFR 60.11; 40 CFR 60.12; 40 CFR 60.14; 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19. A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. VVV, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.3100, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
EQUI 1	3610	Filterable Particulate Matter <= 0.60 pounds per million Btu heat input. The potential to emit from the unit is 0.00745 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.0510, subp. 1]
	3620	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0510, subp. 2]
	3630	Sulfur Dioxide <= 2.0 pounds per million Btu heat input. The potential to emit from the unit is 0.6 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.0510, subp. 1]
	3632	Fuel type: Natural gas only. [Minn. R. 7005.0100, subp. 35a]
	3637	The Permittee shall keep records of fuel purchases showing fuel types. [Minn. R. 7007.0800, subp. 5]
EQUI 2	3610	Filterable Particulate Matter <= 0.60 pounds per million Btu heat input. The potential to emit from the unit is 0.00745 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.0510, subp. 1]
	3620	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0510, subp. 2]
	3630	Sulfur Dioxide <= 2.0 pounds per million Btu heat input. The potential to emit from the unit is 0.6 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.0510, subp. 1]
	3632	Fuel type: Natural gas only. [Minn. R. 7005.0100, subp. 35a]
	3637	The Permittee shall keep records of fuel purchases showing fuel types. [Minn. R. 7007.0800, subp. 5]
EQUI 10	1	The Permittee owns or operates existing miscellaneous coating manufacturing operations in 40 CFR pt. 63, subp. HHHHH. This includes the facility-wide collection of process vessels that are used to manufacture coatings as defined in 40 CFR 63.8105. [40 CFR 63.7985, Minn. R. 7011.8070]

SI Id	Sequence	Requirement
	4	The requirements for miscellaneous coating manufacturing sources in 40 CFR pt. 63, subp. HHHHH do not apply to operations described in 40 CFR 63.7985(d)(1) through (5) listed below. (1) Research and development facilities, as defined in section 112(c)(7) of the CAA; (2) The affiliated operations located at an affected source under 40 CFR pt. 63, subps. GG (National Emission Standards for Aerospace Manufacturing and Rework Facilities), KK (National Emission Standards for the Printing and Publishing Industry), JJJ (NESHAP: Paper and Other Web Coating), MMMM (National Emission Standards for Miscellaneous Metal Parts and Products Surface Coating Operations) and SSSS (NESHAP: Surface Coating of Metal Coil) of this part. Affiliated operations include, but are not limited to, mixing or dissolving of coating ingredients; coating mixing for viscosity adjustment, color tint or additive blending, or pH adjustment; cleaning of coating lines and coating line parts; handling and storage of coatings and solvent; and conveyance and treatment of wastewater; (3) Ancillary equipment such as boilers and incinerators (only those not used to comply with the emission limits in 40 CFR pt. 63, subp. HHHHH, Tables 1 through 5), chillers and refrigeration systems, and other equipment that is not directly involved in the manufacturing of a coating (i.e., it operates as a closed system, and materials are not combined with materials used to manufacture the coating); (4) Quality assurance/quality control laboratories; or (5) Modifying a purchased coating in preparation for application at the purchasing facility. [40 CFR 63.7985(d), Minn. R. 7011.8070]
	5	The Permittee must be in compliance with the emission limits and work practice standards in 40 CFR pt. 63, subp. HHHHH Table 1 at all times. The Permittee must meet the requirements specified in 40 CFR 63.8000(b). The Permittee must meet the requirements specified in 40 CFR 63.8005 through 63.8030 (or the alternative means of compliance in 40 CFR 63.8050), except as specified in 40 CFR 63.8000(d). The Permittee must meet the notification, reporting, and recordkeeping requirements specified in 40 CFR 63.8070, 63.8075, and 63.8080. [40 CFR 63.8000(a)(2), Minn. R. 7011.8070]
	6	For each stationary process vessel, the Permittee must equip the vessel with a cover or lid that must be in place at all times when the vessel contains a HAP, except for material additions and sampling; or the Permittee must equip the vessel with a tightly fitting vented cover or lid that must be closed at all times when the vessel contains HAP, except for material additions and sampling The Permittee must reduce emissions of total organic HAP by venting emissions through a closed-vent system to a condenser that reduces the outlet gas temperature to less than 2 degrees Celsius if the process vessel contains HAP with a partial pressure greater than or equal to 0.6 kPa and less than 17.2 kPa. The Permittee will demonstrate compliance using the approved alternative monitoring method listed in this permit. [40 CFR pt. 63, subp. HHHHH, Table 1, Minn. R. 7011.8070]
	7	Opening of a safety device, as defined in 40 CFR 63.8105, is considered a deviation, as defined in 40 CFR 63.8105. [40 CFR 63.8000(b)(2), Minn. R. 7011.8070]
	8	Closed vent system equipment and operating requirements. (1) Collection of emissions. Each closed vent system shall be designed and operated to collect the regulated material vapors from the emission point, and to route the collected vapors to a control device. (2) Period of operation. Closed vent systems used to comply with 40 CFR pt. 63, subp. SS shall be operated at all times when emissions are vented to, or collected by, them. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.983(a), Minn. R. 7011.8070, Minn. R. 7011.8190]

SI Id	Sequence	Requirement
	10	Closed vent system inspection and monitoring requirements. Inspection records shall be generated as specified in 40 CFR 63.998(d)(1)(iii) and (iv). (1) Except for any closed vent systems that are designated as unsafe or difficult to inspect as provided in 40 CFR 63.983(b)(2) and (3), each closed vent system shall be inspected as specified in 40 CFR 63.983(b)(1)(i) or (ii), listed below: (i) If the closed vent system is constructed of hard-piping, the Permittee shall comply with the requirements specified in 40 CFR 63.983(b)(1)(i)(A) and (B):. (A) Conduct an initial inspection according to the procedures in 40 CFR 63.983(c); and (B) Conduct annual inspections for visible, audible, or olfactory indications of leaks. (ii) If the closed vent system is constructed of ductwork, the Permittee shall conduct an initial and annual inspection according to the procedures in 40 CFR 63.983(c). (2) Any parts of the closed vent system that are designated, as described in 40 CFR 63.998(d)(1)(i), as unsafe to inspect are exempt from the inspection requirements of 40 CFR 63.983(b)(1) if the conditions of 40 CFR 63.983(b)(2)(i) and (ii) are met: (i) The Permittee determines that the equipment is unsafe-to-inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with 40 CFR 63.983(b)(1); and (ii) The Permittee has a written plan that requires inspection of the equipment as frequently as practical during safe-to-inspect times. Inspection is not required more than once annually. (3) Any parts of the closed vent system that are designated, as described in 40 CFR 63.998(d)(1)(i), as difficult-to-inspect are exempt from the inspection requirements of 40 CFR 63.983(b)(1) if the provisions of 40 CFR 63.983(b)(3)(i) and (ii) apply: (i) The Permittee determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters (7 feet) above a support surface; and (ii) The Permittee has a written plan that requires inspection of the equipment at least once every 5 years. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.983(b), Minn. R. 7011.8070, Minn. R. 7011.8190]

SI Id	Sequence	Requirement
	11	Closed vent system inspection procedures. (1) Each closed vent system shall be inspected according to the procedures listed below: (i) Inspections shall be conducted in accordance with Method 21 of 40 CFR pt. 60, appendix A, except as specified in 40 CFR 63.983(c). (ii) Except as provided in 40 CFR 63.983(c)(1)(iii), the detection instrument shall meet the performance criteria of Method 21 of 40 CFR pt. 60, appendix A, except the instrument response factor criteria in section 3.1.2(a) of Method 21 must be for the representative composition of the process fluid and not of each individual VOC in the stream. For process streams that contain nitrogen, air, water, or other inerts that are not organic HAP or VOC, the representative stream response factor must be determined on an inert-free basis. The response factor may be determined at any concentration for which the monitoring for leaks will be conducted. (iii) If no instrument is available at the plant site that will meet the performance criteria of Method 21 specified in 40 CFR 63.983(c)(1)(ii), the instrument readings may be adjusted by multiplying by the representative response factor of the process fluid, calculated on an inert-free basis as described in 40 CFR 63.983(c)(1)(ii). (iv) The detection instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21 of 40 CFR pt. 60, appendix A. (v) Calibration gases shall be as specified in 40 CFR 63.983(c)(1)(v)(A) through (C): (A) Zero air (less than 10 parts per million hydrocarbon in air); and (B) Mixtures of methane in air at a concentration less than 10,000 parts per million. A calibration gas other than methane in air may be used if the instrument does not respond to methane or if the instrument does not meet the performance criteria specified in paragraph (c)(1)(ii) of this section. In such cases, the calibration gas may be a mixture of one or more of the compounds to be measured in air. (C) If the detection instrument's design allows for multiple calibration scales, then the lower scale shall be calibrated with a calibration gas that is no higher than 2,500 parts per million. (vi) The Permittee may elect to adjust or not adjust instrument readings for background. If the Permittee elects not to adjust readings for background, all such instrument readings shall be compared directly to 500 parts per million to determine whether there is a leak. If the Permittee elects to adjust instrument readings for background, the Permittee shall measure background concentration using the procedures in 40 CFR 63.983(c). The Permittee shall subtract the background reading from the maximum concentration indicated by the instrument. (vii) If the Permittee elects to adjust for background, the arithmetic difference between the maximum concentration indicated by the instrument and the background level shall be compared with 500 parts per million for determining whether there is a leak. (2) The instrument probe shall be traversed around all potential leak interfaces as described in Method 21 of 40 CFR pt. 60, appendix A. (3) Inspections shall be performed when the equipment is in regulated material service, or in use with any other detectable gas or vapor. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.983(c), Minn. R. 7011.8070, Minn. R. 7011.8190]

SI Id	Sequence	Requirement
	12	Closed vent system leak repair provisions. (1) If there are visible, audible, or olfactory indications of leaks at the time of the annual visual inspections required by 40 CFR 63.983(b)(1)(i)(B), the Permittee shall follow the procedure specified in either 40 CFR 63.983(d)(1)(i) or (ii): (i) The Permittee shall eliminate the leak. (ii) The Permittee shall monitor the equipment according to the procedures in 40 CFR 63.983(c). (2) Leaks, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practical, except as provided in 40 CFR 63.983(d)(3). Records shall be generated as specified in 40 CFR 63.998(d)(1)(iii) when a leak is detected. (i) A first attempt at repair shall be made no later than 5 days after the leak is detected. (ii) Except as provided in 40 CFR 63.983(d)(3), repairs shall be completed no later than 15 days after the leak is detected or at the beginning of the next introduction of vapors to the system, whichever is later. (3) Delay of repair of a closed vent system for which leaks have been detected is allowed if repair within 15 days after a leak is detected is technically infeasible or unsafe without a closed vent system shutdown, as defined in 40 CFR 63.981, or if the Permittee determines that emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed as soon as practical, but not later than the end of the next closed vent system shutdown. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.983(d), Minn. R. 7011.8070, Minn. R. 7011.8190]
	13	Continuous records. Where 40 CFR pt. 63, subp. SS requires a continuous record, the Permittee shall maintain a record as specified in 40 CFR 63.998(b)(1)(i) through (iv), as applicable: (i) A record of values measured at least once every 15 minutes or each measured value for systems which measure more frequently than once every 15 minutes; or (ii) A record of block average values for 15-minute or shorter periods calculated from all measured data values during each period or from at least one measured data value per minute if measured more frequently than once per minute. (iii) Where data is collected from an automated continuous parameter monitoring system, the Permittee may calculate and retain block hourly average values from each 15-minute block average period or from at least one measured value per minute if measured more frequently than once per minute, and discard all but the most recent three valid hours of continuous (15-minute or shorter) records, if the hourly averages do not exclude periods of CPMS breakdown or malfunction. An automated CPMS records the measured data and calculates the hourly averages through the use of a computerized data acquisition system. (iv) A record as required by an alternative approved under a referencing subpart. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.998(b)(1), Minn. R. 7011.8070, Minn. R. 7011.8190]
	14	Excluded data. Monitoring data recorded during periods identified below shall not be included in any average computed to determine compliance with an emission limit in a referencing subpart. (i) Monitoring system breakdowns, repairs, preventive maintenance, calibration checks, and zero (low-level) and high-level adjustments; and (ii) Periods of non-operation of the process unit (or portion thereof), resulting in cessation of the emissions to which the monitoring applies. [40 CFR 63.8000(c)(1), 40 CFR 63.8000(d)(6), 40 CFR 63.982(c), 40 CFR 63.998(b)(2)(i) and (ii), Minn. R. 7011.8070, Minn. R. 7011.8190]

SI Id	Sequence	Requirement
	15	Records of daily averages. The Permittee shall keep records as specified in 40 CFR 63.998(b)(3)(i) and (ii) and submit reports as specified in 40 CFR 63.999(c), unless an alternative recordkeeping system has been requested and approved under a referencing subpart. (i) Except as specified in 40 CFR 63.998(b)(3)(ii), daily average values of each continuously monitored parameter shall be calculated from data meeting the specifications of 40 CFR 63.998(b)(2) for each operating day and retained for 5 years. (A) The daily average shall be calculated as the average of all values for a monitored parameter recorded during the operating day. The average shall cover a 24-hour period if operation is continuous, or the period of operation per operating day if operation is not continuous (e.g., for transfer racks the average shall cover periods of loading). If values are measured more frequently than once per minute, a single value for each minute may be used to calculate the daily average instead of all measured values. (B) The operating day shall be the period defined in the operating permit or in the Notification of Compliance Status. It may be from midnight to midnight or another daily period. (ii) If all recorded values for a monitored parameter during an operating day are within the range established in the Notification of Compliance Status or in the operating permit, the Permittee may record that all values were within the range and retain this record for 5 years rather than calculating and recording a daily average for that operating day. In such cases, the Permittee may not discard the recorded values as allowed in 40 CFR 63.998(b)(1)(iii). [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.998(b)(3), Minn. R. 7011.8070, Minn. R. 7011.8190]
	16	For closed vent systems collecting regulated material from a regulated source, the Permittee shall record the identification of all parts of the closed vent system, that are designated as unsafe or difficult to inspect, an explanation of why the equipment is unsafe or difficult to inspect, and the plan for inspecting the equipment required by 40 CFR 63.983(b)(2)(ii) or (iii). [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.998(d)(1)(i), Minn. R. 7011.8070, Minn. R. 7011.8190]
	17	For a closed vent system collecting regulated material from a regulated source, when a leak is detected as specified in 40 CFR 63.983(d)(2), the information specified in 40 CFR 63.998(d)(1)(iii)(A) through (F) shall be recorded and kept for 5 years. (A) The instrument and the equipment identification number and the operator name, initials, or identification number. (B) The date the leak was detected and the date of the first attempt to repair the leak. (C) The date of successful repair of the leak. (D) The maximum instrument reading measured by the procedures in § 63.983(c) after the leak is successfully repaired or determined to be nonrepairable. (E) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 days after discovery of the leak. The owner or operator may develop a written procedure that identifies the conditions that justify a delay of repair. In such cases, reasons for delay of repair may be documented by citing the relevant sections of the written procedure. (F) Copies of the Periodic Reports as specified in 40 CFR 63.999(c), if records are not maintained on a computerized database capable of generating summary reports from the records. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.998(d)(1)(iii), Minn. R. 7011.8070, Minn. R. 7011.8190]
	19	For each instrumental or visual inspection conducted in accordance with 40 CFR 63.983(b)(1) for closed vent systems collecting regulated material from a regulated source during which no leaks are detected, the Permittee shall record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.998(d)(1)(iv), Minn. R. 7011.8070, Minn. R. 7011.8190]

SI Id	Sequence	Requirement
	22	For closed vent systems subject to the requirements of 40 CFR 63.983, the Permittee shall submit as part of the periodic report the information specified in 40 CFR 63.999(c)(2)(i) through (iii) , as applicable. (i) The information recorded in 40 CFR 63.998(d)(1)(iii)(B) through (E); (ii) Reports of the times of all periods recorded under 40 CFR 63.998(d)(1)(ii)(A) when the vent stream is diverted from the control device through a bypass line; and (iii) Reports of all times recorded under 40 CFR 63.998(d)(1)(ii)(B) when maintenance is performed in car-sealed valves, when the seal is broken, when the bypass line valve position is changed, or the key for a lock-and-key type configuration has been checked out. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.999(c)(2), Minn. R. 7011.8070, Minn. R. 7011.8190]
	24	Continuous parameter monitoring. The provisions below apply in addition to the requirements for continuous parameter monitoring system (CPMS) in 40 CFR pt. 63, subp. SS. (i) The Permittee must record the results of each calibration check and all maintenance performed on the CPMS as specified in 40 CFR 63.998(c)(1)(ii)(A). (ii) When 40 CFR pt. 63, subp. SS uses the term a range or operating range of a monitored parameter, it means an operating limit for a monitored parameter for the purposes of 40 CFR pt. 63, subp. SS. [40 CFR 63.8000(d)(5)(i) and (ii), Minn. R. 7011.8070]
	25	Reporting. (i) When 40 CFR 63.8005 through 63.8025 reference other subparts in 40 CFR pt. 63, subp. HHHHH that use the term periodic report, it means compliance report for the purposes of 40 CFR pt. 63, subp. HHHHH. (ii) When there are conflicts between 40 CFR pt. 63, subp. HHHHH and referenced subparts for the due dates of reports required by 40 CFR pt.63, subp. HHHHH, reports must be submitted according to the due dates presented in 40 CFR pt. 63, subp. HHHHH. (iii) Excused excursions, as defined in 40 CFR pt. 63, subp. SS, are not allowed. [40 CFR 63.8000(d)(7), Minn. R. 7011.8070]
	26	The Permittee must meet each emission limit and work practice standard in 40 CFR pt. 63, subp. HHHHH, Table 1 that applies, and the Permittee must meet each applicable requirement specified in 40 CFR 63.8000(b), except as specified in 40 CFR 63.8005(a)(1)(i) and (iii) (listed below). (i) Except as provided in 40 CFR 63.8005(a)(1)(iii), the Permittee is not required to meet the emission limits and work practice standards in 40 FCR pt. 63, subp. HHHHH, Table 1 if the Permittee complies with 40 CFR 63.8050 or 63.8055. (ii) The Permittee must meet the emission limits and work practice standards in 40 CFR pt. 63, subp. HHHHH, Table 1 for emissions from automatic cleaning operations. The Permittee is not required to meet the emission limits and work practice standards in 40 CFR pt. 63, subp. HHHHH, Table 1 for emissions from cleaning operations that are conducted manually. (iii) The Permittee must meet the inorganic HAP emissions limit in 40 CFR pt. 63, subp. HHHHH, Table 1 during the addition of material containing metal HAP to a process vessel. The Permittee is not required to meet this limit for the addition of pigments and other solids that are in paste, slurry, or liquid form. [40 CFR 63.8005(a)(1), Minn. R. 7011.8070]
	27	TREA 22 is used to comply with 40 CFR pt. 63, subp. HHHHH, Table 1 and the Permittee must comply with 40 CFR pt. 63, subp. SS as specified in 40 CFR 63.8000(c), except as specified in 40 CFR 63.8000(d) and (f) and 40 CFR 63.8005(b) through (g). [40 CFR 63.8005(a)(2), Minn. R. 7011.8070]
	28	When 40 CFR pt.63, subp. SS refers to process vents, it means process vessel vents for the purposes of 40 CFR pt. 63, subp. HHHHH. [40 CFR 63.8005(b), Minn. R. 7011.8070]

SI Id	Sequence	Requirement
	35782	If flow to a control device could be intermittent or bypassed, the Permittee must install, calibrate, and operate a flow indicator at the inlet or outlet of the control device to identify periods of no flow, or the Permittee must comply with the alternatives requirements of 40 CFR 63.8005(g)(1) or (2) (listed below). Periods of no flow may not be used in daily or block averages. The Permittee must perform a flow meter verification check annually for at least two points: One at the instrument's zero and the other at the instrument's span. (1) The Permittee must use a valve position or bypass damper position indicator that provides a continuous reading and record of the bypass valve or damper position when the control device is in operation. The Permittee must inspect the monitoring system semiannually to verify that the monitor will indicate valve position. (2) The Permittee must secure the bypass line valve or bypass damper in the non-diverting position with a car-seal or a lock-and-key type configuration. The Permittee must visually inspect the seal or closure mechanism at least once every month to ensure that the valve is maintained in the non-diverting position and that the vent stream is not diverted through the bypass line. The Permittee must also record the occurrence of all periods when the seal or closure mechanism is broken, or the key for a lock-and-key type lock has been checked out. [40 CFR 63.8005(g), Minn. R. 7011.8070]
	35783	As an alternative to complying with the requirements in 40 CFR pt. 63, subp. HHHHH, Table 1 for each individual stationary process vessel, the Permittee may elect to comply with a 5 weight percent HAP limit for process vessels that are used to manufacture coatings with a HAP content of less than 0.05 kg per kg product as specified in 40 CFR 63.8055(b). [40 CFR 63.8055(a), Minn. R. 7011.8070]
	35784	The Permittee may only comply with the alternative during the production of coatings that contain less than 5 weight percent HAP, as determined using any of the procedures specified in 40 CFR 63.8055 (b)(1) through (4). (1) Method 311 (40 CFR pt. 63, appendix A). As an alternative to Method 311, the Permittee may use California Air Resources Board Method 310, Determination of Volatile Organic Compounds (VOC) in Consumer Products and Reactive Organic Compounds (ROC) in Aerosol Coating Products (incorporated by reference, see 40 CFR 63.14) for use with aerosol cans. (2) Method 24 (40 CFR pt. 60, appendix A). The Permittee may use Method 24 to determine the mass fraction of volatile matter and use that value as a substitute for the mass fraction of HAP, or one of the alternatives in 40 CFR 63.8055(b)(2)(i) through (iii). (i) ASTM D2369-10 (Reapproved 2015)e1, (incorporated by reference, see 40 CFR 63.14); (ii) ASTM D2697-03 (Reapproved 2014) (incorporated by reference, see 40 CFR 63.14); or (iii) ASTM D3960-98 (incorporated by reference, see 40 CFR 63.14). (3) The Permittee may use an alternative test method for determining mass fraction of HAP if the Permittee obtains prior approval by the Administrator. The Permittee must follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval. (4) The Permittee may rely on formulation data from raw material suppliers if it represents each organic HAP that is present at 0.1 percent by mass or more for the HAP listed in 40 CFR pt. 63, subp. HHHHH, Table 11, and at 1.0 percent by mass or more for other compounds. If the HAP weight percent estimated based on formulation data conflicts with the results of a test conducted according to 40 CFR 63.8055(b)(1) through (3), then there is a rebuttal presumption that the test results are accurate unless, after consultation, the Permittee demonstrates to the satisfaction of the permitting authority that the test results are not accurate and that the formulation data are more appropriate. [40 CFR 63.8055(b), Minn. R. 7011.8070]
	35786	The Permittee must submit all of the notifications in 40 CFR 63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e), (f)(4) and (6), 63.9(b) through (h) that apply by the dates specified. [40 CFR 63.8070(a), Minn. R. 7011.8070]

SI Id	Sequence	Requirement
	35787	The Permittee must submit a compliance report: Due semiannually, by the 30th of January and July. If the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A), the Permittee may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in 40 CFR pt. HHHHH, Table 9. Each subsequent compliance report must cover the 6-month period following the preceding period. The compliance report must contain the information specified below: - Company name and address. - Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report. - Date of report and beginning and ending dates of the reporting period. - The compliance report must contain the information on deviations, as defined in 40 CFR 63.8105, according to the requirements listed below: - If there are no deviations from any emission limit, operating limit, or work practice standard specified in 40 CFR pt. 63, subp. HHHHH, include a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period. - For each deviation from an emission limit, operating limit, and work practice standard the Permittee must include the information listed below: (A) The total operating time of each affected source during the reporting period. (B) Report the number of failures to meet an applicable standard. For each instance, report the date, time, and duration of each failure. For each failure the report must include a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, a description of the method used to estimate the emissions, and the cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken. (C) Operating logs for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks. (D) Report the total bypass hours, as monitored according to the provisions of 40 CFR 63.8080(h). [40 CFR 63.8075(a), 40 CFR 63.8075(b), 40 CFR 63.8075(e), 40 CFR pt. 63, subp. HHHHH, Table 9, Minn. R. 7011.8070]
	35788	Except as specified in 40 CFR 63.8075(e)(8)(ii), whenever the Permittee changes any of the information submitted in either the notification of compliance status report or any previously reported change to the notification of compliance status report, the Permittee must document the change in the compliance report. The notification must include all of the information in 40 CFR 63.8075(e)(8)(i)(A) and (B) (listed below). (A) Revisions to any of the information reported in the original notification of compliance status report under 40 CFR 63.8075(d). (B) Information required by the notification of compliance status report under 40 CFR 63.8075(d) for changes involving the addition of processes or equipment at the affected source. [40 CFR 63.8075(a), 40 CFR 63.8075(e)(8), 40 CFR pt. 63, subp. HHHHH, Table 9, Minn. R. 7011.8070]
	35789	The Permittee must submit a report 60 days before the scheduled implementation date of any of the changes identified in 40 CFR 63.8075(e)(8)(ii) (listed below): - Any change to the information contained in either the precompliance report or any previously reported change to the precompliance report. - A change in compliance status. [40 CFR 63.8075(a), 40 CFR 63.8075(e)(8)(ii), 40 CFR pt. 63, subp. HHHHH, Table 9, Minn. R. 7011.8070]

SI Id	Sequence	Requirement
	35791	The Permittee must submit a notification of compliance status report according to the schedule in 40 CFR 63.8075(d)(1) (listed below), and the notification of compliance status report must include the information specified in 40 CFR 63.8075(d)(2) (listed below). (1) The Permittee must submit a notification of compliance status report. (2) The notification of compliance status report must include the information listed below: (i) The results of any applicability determinations (e.g., HAP content of coating products; halogenated vent stream determinations; group determinations for storage tanks, wastewater, and transfer operations; and equipment that is in organic HAP service). (ii) The results of performance tests, engineering analyses, design evaluations, flare compliance assessments, inspections and repairs, and calculations used to demonstrate compliance according to 40 CFR 63.8005 through 63.8030 and 40 CFR 63.8055. For performance tests, results must include descriptions of sampling and analysis procedures and quality assurance procedures. (iii) Descriptions of monitoring devices, monitoring frequencies, and the operating limits established during the initial compliance demonstrations, including data and calculations to support the levels the Permittee establishes. (iv) Identification of parts of the affected source that are subject to overlapping requirements described in 40 CFR 63.8090 and the authority under which the Permittee will comply. [40 CFR 63.8075(a), 40 CFR 63.8075(d), 40 CFR pt. 63, subp. HHHHH, Table 9, Minn. R. 7011.8070]
	35792	The Permittee must submit to the Administrator initial compliance reports, notification of compliance status reports, and compliance reports of the following information. The Permittee must submit all subsequent reports following the procedure specified in 40 CFR 63.8075(i). [40 CFR 63.8075(h), Minn. R. 7011.8070]
	35793	The Permittee must submit reports to the EPA via CEDRI, which can be accessed through the EPA's CDX (https://cdx.epa.gov). (1) Compliance reports. The requirements of 40 CFR 63.8075(i) do not affect the schedule for submitting the initial notification or the notification of compliance status reports. The Permittee must use the appropriate electronic compliance report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri) for this subpart. The date report templates become available will be listed on the CEDRI website. (2) Initial notification reports and notification of compliance status reports. The Permittee must upload to CEDRI a portable document format (PDF) file of each initial notification and of each notification of compliance status. (3) All reports. Reports must be submitted by the deadline specified in 40 CFR pt. 63, subp. HHHHH, regardless of the method in which the report is submitted. If the Permittee claims some of the information required to be submitted via CEDRI is CBI, submit a complete report, including information claimed to be CBI, to the EPA. The report must be generated using the appropriate form on the CEDRI website, where applicable. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted shall be submitted to the EPA via the EPA's CDX as described in this paragraph (i). [40 CFR 63.8075(i), Minn. R. 7011.8070]

SI Id	Sequence	Requirement
	35794	The Permittee may assert a claim of EPA system outage for failure to timely comply with the reporting requirement in 40 CFR pt. 63, subp. HHHHH. To assert a claim of EPA system outage, the Permittee must meet the requirements outlined in 40 CFR 63.8075(j)(1) through (7) (listed below). (1) The Permittee must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA's CEDRI or CDX systems. (2) The outage must have occurred within the period of time beginning 5 business days prior to the date that the submission is due. (3) The outage may be planned or unplanned. (4) The Permittee must submit notification to the Administrator in writing as soon as possible following the date the Permittee first knew, or through due diligence should have known, that the event may cause or caused a delay in reporting. (5) The Permittee must provide to the Administrator a written description identifying: (i) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable; (ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage; (iii) Measures taken or to be taken to minimize the delay in reporting; and (iv) The date by which the Permittee proposes to report, or if the Permittee has already met the reporting requirement at the time of the notification, the date the Permittee reported. (6) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator. (7) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved. [40 CFR 63.8075(j), Minn. R. 7011.8070]
	35795	The Permittee may assert a claim of force majeure for failure to timely comply with the reporting requirement in 40 CFR pt. 63, subp. HHHHH. To assert a claim of force majeure, the Permittee must meet the requirements outlined in 40 CFR 63.8075(k)(1) through (5). (1) The Permittee may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning five business days prior to the date the submission is due. For purposes of 40 CFR 63.8075, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents the Permittee from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (e.g., hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (e.g., large scale power outage). (2) The Permittee must submit notification to the Administrator in writing as soon as possible following the date the Permittee first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting. (3) The Permittee must provide to the Administrator: (i) A written description of the force majeure event; (ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event; (iii) Measures taken or to be taken to minimize the delay in reporting; and (iv) The date by which the Permittee proposes to report, or if the Permittee has already met the reporting requirement at the time of the notification, the date the Permittee reported. (4) The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator. (5) In any circumstance, the reporting must occur as soon as possible after the force majeure event occurs. [40 CFR 63.8075(k), Minn. R. 7011.8070]

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	35796	The Permittee must keep the records listed below: - Each applicable record required by 40 CFR pt. 63, subp. A. - If complying with emissions averaging, records of the monthly number of batches for each process vessel, the quarterly actual emissions for each process vessel, and comparison of the sums of the quarterly actual and estimated emissions as specified in 40 CFR 63.8050(d). - Each time a safety device is opened to avoid unsafe conditions, a record of the information listed below: (1) The source, nature, and cause of the opening. (2) The date, time, and duration of the opening. (3) An estimate of the quantity of total HAP emitted during the opening and the method used for determining this quantity. - Any records required to be maintained by 40 CFR pt. 63, subp. HHHHH that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation. [40 CFR 63.8080, Minn. R. 7011.8070]
	35800	As approved as an alternative monitoring method, the Permittee must monitor the condenser ethylene glycol chiller return temperature (condenser shell side outlet). A resistance temperature detector (RTD) must be used to measure temperature of the ethylene glycol at the chiller return. The Permittee must operate the condenser and RTD to ensure the chiller return is -12 deg. C or lower. [40 CFR 63.2, 40 CFR 63.8(f)(4)(i) and (ii)]
	35801	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1; 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4; 40 CFR 63.5; 40 CFR 63.6(a); 40 CFR 63.6(b)(1)-(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1); 40 CFR 63.6(c)(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(e)(1)(iii)-(2); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i)(1)-(14); 40 CFR 63.6(j); 40 CFR 63.7(a)(1)-(2)), except substitute 150 days for 180 days; 40 CFR 63.7(a)(3)-(4); 40 CFR 63.7(b)(1)-(2); 40 CFR 63.7(c); 40 CFR 63.7(d); 40 CFR 63.7(e)(2)-(3); 40 CFR 63.7(f); 40 CFR 63.7(g); 40 CFR 63.7(h); 40 CFR 63.8(a)(1)-(2), (4); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1)(ii)-(3);

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		40 CFR 63.8(c)(4)(ii); 40 CFR 63.8(c)(6)-(8); 40 CFR 63.8(d)(1)-(2); 40 CFR 63.8(e), except 40 CFR 63.8(e)(6)(ii); 40 CFR 63.8(f); 40 CFR 63.8(g)(1)-(4); 40 CFR 63.9(a); 40 CFR 63.9(b)(1)-(5); 40 CFR 63.9(c); 40 CFR 63.9(d); 40 CFR 63.9(e); 40 CFR 63.9(g); 40 CFR 63.9(h)(1), (3)-(6); 40 CFR 63.9(i); 40 CFR 63.9(j); 40 CFR 63.9(k); 40 CFR 63.10(a); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(iii); 40 CFR 63.10(b)(2)(vi); 40 CFR 63.10(b)(2)(x); 40 CFR 63.10(b)(2)(xi); 40 CFR 63.10(b)(2)(xii); 40 CFR 63.10(b)(2)(xiii); 40 CFR 63.10(b)(2)(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(c)(1)-(6),(9)-(14); 40 CFR 63.10(d)(1); 40 CFR 63.10(d)(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)(1)-(2); 40 CFR 63.10(f); 40 CFR 63.11; 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15. A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.8095, 40 CFR pt. 63, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8070, Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
EQUI 44	3580	The Permittee must limit usage of Natural Gas <= 331 million cubic feet per year 12-month rolling sum to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. This limit applies to all natural gas used in EQUI 44. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	3590	Natural Gas: Daily Recordkeeping. On each day of operation, the Permittee must calculate, record, and maintain a record of the total cubic feet of natural gas used. This must be based on fuel usage meter readings. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	3600	Fuel type: Natural gas only, by design. [Minn. R. 7005.0100, subp. 35a]

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EQUI 105	3632	Natural Gas: Monthly Recordkeeping. By the 15th of the month, the Permittee must calculate and record the following: 1) The total cubic feet of natural gas used for the previous calendar month using the daily records; and 2) The 12-month rolling sum of total cubic feet of natural gas used for the previous 12-month period by summing the monthly total cubic feet of natural gas used for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	3637	Filterable Particulate Matter $\leq$ 0.40 pounds per million Btu heat input. The potential to emit from the unit is 0.00745 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.0515, subp. 1]
	3750	Opacity $\leq$ 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0515, subp. 2]
	3770	The Permittee shall keep records of fuel purchases showing fuel types. [Minn. R. 7007.0800, subp. 5]
	5	The Permittee must limit the Process Throughput $\leq$ 3,000 pounds per hour calendar month average. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	11	Daily Recordkeeping: Each operating day, the Permittee shall keep complete and detailed records of all raw material extruded to demonstrate that the maximum operating rate of the extruder does not exceed the applicable limit. Records shall also include the VOC and solids content of raw materials as determined using the Material Content provision below. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	19650	Process Throughput: Monthly Recordkeeping. By the 15th day of the month, the Permittee shall calculate and record the following: 1) The total process throughput for the previous calendar month using the daily records; and 2) The calendar month average process throughput for the previous calendar month. [Minn. R. 7007.0800, subps. 4-5] The Permittee must limit emissions of Particulate Matter $\leq$ 3.31 pounds per hour, 3-run average (run duration specified in test method). [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000] The Permittee must limit of emissions of PM < 10 micron $\leq$ 3.31 pounds per hour, 3-run average (run duration specified in test method). [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000] The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 3.31 pounds per hour 3-run average (run duration specified in test method). [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	20020	Material Content: VOC and solids contents in materials used shall be determined by the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the MSDS, the highest number in the range shall be used in all compliance calculations. Other alternative methods approved by the MPCA may be used to determine the VOC and solids contents. The Commissioner reserves the right to require the Permittee to determine the VOC and solids contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained shall supersede the MSDS. [Minn. R. 7007.0800, subps. 4-5] The Permittee must vent emissions from EQUI 105 to control equipment meeting the requirements of TREA 13 whenever EQUI 105 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	20040	PM < 10 micron: The Permittee shall conduct a performance test due before 07/26/2027 and every 60 months thereafter to measure emissions. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
		Particulate Matter: The Permittee shall conduct a performance test due before 07/26/2027 and every 60 months thereafter to measure emissions. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 5 and 202, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	20080	Volatile Organic Compounds: The Permittee shall conduct a performance test due before 07/26/2027 and every 60 months thereafter to measure emissions. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 25A, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
EQUI 195	5	The Permittee must limit emissions of Particulate Matter <= 1.39 pounds per hour, 3-run average (run duration specified in test method). [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	11	The Permittee must limit emissions of PM < 10 micron <= 1.39 pounds per hour, 3-run average (run duration specified in test method). [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

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	20	The Permittee must limit emissions of Volatile Organic Compounds $\leq$ 1.39 pounds per hour, 3-run average (run duration specified in test method). [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	19650	The Permittee must limit the Process Throughput $\leq$ 110 percent of the maximum demonstrated process throughput recorded during the most recent MPCA-approved performance test where compliance was demonstrated with the PM, PM10, and VOC limits that apply to EQUI 195. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000] Daily Recordkeeping: Each operating day, the Permittee shall keep complete and detailed records of all raw material extruded to demonstrate that the maximum operating rate of the extruder does not exceed the applicable limit. Records shall also include the VOC and solids content of raw materials as determined using the Material Content provision below. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	19651	Material Content: VOC and solids contents in materials used shall be determined by the Material Safety Data Sheet (MSDS) provided by the supplier for each material used. If a material content range is given on the MSDS, the highest number in the range shall be used in all compliance calculations. Other alternative methods approved by the MPCA may be used to determine the VOC and solids contents. The Commissioner reserves the right to require the Permittee to determine the VOC and solids contents of any material, according to EPA or ASTM reference methods. If an EPA or ASTM reference method is used for material content determination, the data obtained shall supersede the MSDS. [Minn. R. 7007.0800, subps. 4-5]
	19653	Process Throughput: Monthly Recordkeeping. By the 15th day of the month, the Permittee shall calculate and record the following: 1) The total process throughput for the previous calendar month using the daily records; and 2) The calendar month average process throughput for the previous calendar month. [Minn. R. 7007.0800, subps. 4-5]
	19654	The Permittee must vent emissions from EQUI 195 to control equipment meeting the requirements of TREA 10 whenever EQUI 195 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	20020	PM < 10 micron: The Permittee shall conduct a performance test due before 07/26/2027 and every 60 months thereafter to measure emissions. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	20040	Particulate Matter: The Permittee shall conduct a performance test due before 07/26/2027 and every 60 months thereafter to measure emissions. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 5 and 202, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	20080	Volatile Organic Compounds: The Permittee shall conduct a performance test due before 07/26/2027 and every 60 months thereafter to measure emissions. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 25A, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
EQUI 230	3520	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	3535	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. The potential to emit from the unit is 0.000588 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.2300, subp. 2(B)]
	3540	Fuel type: Natural gas only, by design. [Minn. R. 7005.0100, subp. 35a]
	3550	Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5]
	3560	The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
EQUI 232	1	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	2	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. The potential to emit from the unit is 0.000588 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.2300, subp. 2(B)]
	3	Fuel type: Natural gas only, by design. [Minn. R. 7005.0100, subp. 35a]
	4	Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5]
	5	The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]

SI Id	Sequence	Requirement
	6	For each emergency SI RICE, the Permittee must meet the following requirements except during periods of startup; a. Change oil and filter every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first; b. Inspect spark plugs every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary. [40 CFR 63.6602, 40 CFR pt. 63, subp. ZZZZ, Table 2c, Minn. R. 7011.8150]
	7	The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)(2), Minn. R. 7011.8150]
	8	The Permittee must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f), Minn. R. 7011.8150]
	9	The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in 40 CFR pt. 63, subp. ZZZZ, Table 2c apply. [40 CFR 63.6625(h), Minn. R. 7011.8150]
	10	The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil and filter change requirement in 40 CFR pt. 63, subp. ZZZZ, Table 2c. The oil analysis must be performed at the same frequency specified for changing the oil and filter in 40 CFR pt. 63, subp. ZZZZ, Table 2c. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil and filter. If any of the limits are exceeded, the Permittee must change the oil and filter within 2 business 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 and filter within 2 business 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 and filter changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(j), Minn. R. 7011.8150]
	11	The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in 40 CFR pt. 63, subp. ZZZZ that apply at all times. [40 CFR 63.6605(a), Minn. R. 7011.8150]
	12	At all times the Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b), Minn. R. 7011.8150]
	13	The Permittee must demonstrate compliance by; i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The Permittee must keep the records required in 40 CFR pt. 63, subp. ZZZZ, Table 6 to show continuous compliance with each operating limitation that applies. [40 CFR 63.6640(a), 40 CFR 63.6655(d), 40 CFR pt. 63, subp. ZZZZ, Table 6, Minn. R. 7011.8150]

SI Id	Sequence	Requirement
	3520	The Permittee must report each instance in which each applicable operating limitation in 40 CFR pt. 63, subp. ZZZZ, Table 2c was not met. These instances are deviations from the operating limitations in 40 CFR pt. 63, subp. ZZZZ. These deviations must be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b), Minn. R. 7011.8150]
	3535	The Permittee must also report each instance in which they did not meet the requirements in 40 CFR pt. 63, subp. ZZZZ, Table 8 that apply. [40 CFR 63.6640(e), Minn. R. 7011.8150]
	3540	The Permittee must operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (3) and listed below. In order for the engine to be considered an emergency stationary RICE under 40 CFR pt. 63, subp. ZZZZ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (3), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (3), the engine will not be considered an emergency engine under 40 CFR pt. 63, subp. ZZZZ and must meet all requirements for non-emergency engines. (1) There is no time limit on the use of emergency stationary RICE in emergency situations. (2) The Permittee may operate the emergency stationary RICE for the purpose specified in 40 CFR 63.6640(f)(2)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 63.6640(f)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR 63.6640(f)(2). (i) Emergency stationary RICE may be operated for 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 Permittee 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 Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. (3) Emergency stationary RICE located at major sources of HAP 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 provided in 40 CFR 63.6640(f)(2). 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. [40 CFR 63.6640(f)(1)-(3), Minn. R. 7011.8150]
	3550	The Permittee must keep the following records; - A copy of each notification and report submitted to comply with 40 CFR pt. 63, subp. ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv). - Records of the occurrence and duration (in hours) of each malfunction of operation (i.e., process equipment). - Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63.6655(a)(1), 40 CFR 63.6655(a)(2), 40 CFR 63.6655(a)(5), Minn. R. 7011.8150]
	3560	If the Permittee has their own maintenance plan, the Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. [40 CFR 63.6655(e), Minn. R. 7011.8150]

SI Id	Sequence	Requirement
	35780	The Permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purpose specified in 40 CFR 63.6640(f)(4)(ii), the Permittee must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [40 CFR 63.6655(f), 40 CFR 63.6655(f)(1), Minn. R. 7011.8150]
	35781	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1; 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4; 40 CFR 63.5; 40 CFR 63.6(a); 40 CFR 63.6(b)(1)-(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1); 40 CFR 63.6(c)(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i); 40 CFR 63.6(j); 40 CFR 63.7(a)(1)-(3); 40 CFR 63.7(d); 40 CFR 63.7(e)(2)-(4); 40 CFR 63.7(f); 40 CFR 63.7(g); 40 CFR 63.7(h); 40 CFR 63.8(a)(1)-(2); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(4); 40 CFR 63.8(c)(6)-(8); 40 CFR 63.8(d); 40 CFR 63.8(f)(1)-(3) and (5); 40 CFR 63.8(g); 40 CFR 63.9(a); 40 CFR 63.9(i); 40 CFR 63.9(j); 40 CFR 63.9(k); 40 CFR 63.10(a); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(vi)-(xi); 40 CFR 63.10(b)(2)(xii); 40 CFR 63.10(b)(2)(xiii); 40 CFR 63.10(b)(2)(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(c); 40 CFR 63.10(d)(1); 40 CFR 63.10(d)(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)(1) and (2)(i); 40 CFR 63.10(f);

SI Id	Sequence	Requirement
		40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15. A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.6665, 40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. ZZZZ, Table 8, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8150, Minn. R. 7017.1010 & 7017.2015, subp. 3, Minn. R. 7019.0100]
EQUI 233	6	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	7	Fuel type: Natural gas only, by design. [Minn. R. 7005.0100, subp. 35a]
	8	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. The potential to emit from the unit is 0.000588 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.2300, subp. 2(B)]
	10	The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
EQUI 234	6	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	7	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. The potential to emit from the unit is 0.000588 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.2300, subp. 2(B)]
	8	Fuel type: Natural gas only, by design. [Minn. R. 7005.0100, subp. 35a]
	10	The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
EQUI 235	11	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	12	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. [Minn. R. 7011.2300, subp. 2(B)]
	13	Fuel type: Diesel only, by design. [Minn. R. 7005.0100, subp. 35a]
	3520	Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of diesel fuel oil, certifying that the sulfur content does not exceed 0.0015 percent by weight. [Minn. R. 7007.0800, subps. 4-5]
		Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5] The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
EQUI 236	6	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	7	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. The potential to emit from the unit is 0.000588 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.2300, subp. 2(B)]
	8	Fuel type: Natural gas only, by design. [Minn. R. 7005.0100, subp. 35a]
	10	The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
EQUI 237	6	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	7	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. The potential to emit from the unit is 0.000588 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.2300, subp. 2(B)]
	8	Fuel type: Natural gas only, by design. [Minn. R. 7005.0100, subp. 35a]
	10	The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
EQUI 238	11	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	12	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. [Minn. R. 7011.2300, subp. 2(B)]

SI Id	Sequence	Requirement
	13	Fuel type: Diesel only, by design. [Minn. R. 7005.0100, subp. 35a]
	3520	Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of diesel fuel oil, certifying that the sulfur content does not exceed 0.0015 percent by weight. [Minn. R. 7007.0800, subps. 4-5]
		Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency engine by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5]
		The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
EQUI 239	11	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	12	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. [Minn. R. 7011.2300, subp. 2(B)]
	13	Fuel type: Diesel only, by design. [Minn. R. 7005.0100, subp. 35a]
	3520	Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of diesel fuel oil, certifying that the sulfur content does not exceed 0.0015 percent by weight. [Minn. R. 7007.0800, subps. 4-5]
		Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency engine by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5]
EQUI 256		The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
	3050	The Permittee shall limit Nitrogen Oxides <= 2.0 grams per horsepower-hour. [40 CFR 60.4233(e), 40 CFR pt. 60, subp. JJJJ, Table 1, Minn. R. 7011.2310]
	3520	The Permittee shall limit Carbon Monoxide <= 4.0 grams per horsepower-hour. [40 CFR 60.4233(e), 40 CFR pt. 60, subp. JJJJ, Table 1, Minn. R. 7011.2310]
	3535	The Permittee shall limit Volatile Organic Compounds <= 1.0 grams per horsepower-hour. [40 CFR 60.4233(e), 40 CFR pt. 60, subp. JJJJ, Table 1, Minn. R. 7011.2310]
		Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. The potential to emit from the unit is 0.000588 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.2300, subp. 2(B)]
	3540	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
		Fuel type: Natural gas only. [Minn. R. 7005.0100, subp. 35a]
	3550	Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5]
	21020	The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
	21030	The Permittee shall submit an initial notification: Due 120 days after Initial Startup Date of EQUI 256. The initial notification must include the information in 40 CFR 63.9(b)(2)(i) through (v) and a statement that the stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions). [40 CFR 63.6645(f), Minn. R. 7011.8150]
		At the time of permit issuance, EQUI 256 is considered a new affected source under 40 CFR pt. 63, subp. ZZZZ as defined at 40 CFR 63.6590(a)(2)(i). However, this unit meets the criteria in 40 CFR 63.6590(b)(1)(i) so no requirements of 40 CFR pt. 63, subps. A and ZZZZ, except the initial notification requirements of 40 CFR 63.6645(f), apply. [40 CFR 63.6590(a)(2)(i) and (b)(1)(i), Minn. R. 7011.8150]
	21031	The Permittee must operate and maintain stationary SI ICE that achieves the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [40 CFR 60.4234, Minn. R. 7011.2310]
	21032	The Permittee must install a non-resettable hour meter. [40 CFR 60.4237(a), Minn. R. 7011.2310]
		The Permittee may not install engines that do not meet the applicable requirements in 40 CFR 60.4233. [40 CFR 60.4236(c), Minn. R. 7011.2310]

SI Id	Sequence	Requirement
	21033	The Permittee must demonstrate compliance by purchasing an engine certified according to procedures specified in 40 CFR pt. 60, subp. JJJ, for the same model year and demonstrating compliance according to one of the methods specified in 40 CFR 60.4243(a) (listed below). The Permittee must operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, and keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. The Permittee must also meet the requirements as specified in 40 CFR pt. 1068, subp. A through D, as they apply. If the Permittee adjusts engine settings according to and consistent with the manufacturer's instructions, EQUI 256 will not be considered out of compliance. [40 CFR 60.4243(a)(1), 40 CFR 60.4243(b)(1), Minn. R. 7011.2310]
	21034	The Permittee must operate EQUI 256 according to 40 CFR 60.4243(d)(1) through (3) (listed below). In order for the engine to be considered an emergency stationary ICE under 40 CFR pt. 60, subp. JJJ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 60.4243(d)(1) through (3), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR 60.4243(d)(1) through (3), the engine will not be considered an emergency engine under 40 CFR pt. 60, subp. JJJ and must meet all requirements for non-emergency engines. (1) There is no time limit on the use of emergency stationary ICE in emergency situations. (2) The Permittee may operate EQUI 256 for the purpose specified in 40 CFR 60.4243(d)(2)(i) (listed below) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4243(d)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR 60.4243(d)(2). (i) Emergency stationary ICE may be operated for 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 Permittee 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 Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (3) Emergency stationary ICE 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 40 CFR 60.4243(d)(2). Except as provided in 40 CFR 60.4243(d)(3)(i), 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 an electric grid or otherwise supply power as part of a financial arrangement with another entity. (i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator; (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region. (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines. (D) The power is provided only to the facility itself or to support the local transmission and distribution system. (E) The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the Permittee. [40 CFR 60.4243(d), Minn. R. 7011.2310]

SI Id	Sequence	Requirement
	21035	The Permittee may operate EQUI 256 using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the Permittee is required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. [40 CFR 60.4243(e), Minn. R. 7011.2310]
	21038	The Permittee must keep records of the information in 40 CFR 60.4245(a)(1) through (3) (listed below). (1) All notifications submitted to comply with 40 CFR pt. 60, subp. JJJJ and all documentation supporting any notification. (2) Maintenance conducted on EQUI 256. (3) Documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR pt. 90, 1048, 1054, and 1060, as applicable. [40 CFR 60.4245(a)(1), (2), and (3), Minn. R. 7011.2310]
	21039	The Permittee must keep records of the hours of operation of EQUI 256 that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 60.4245(b), Minn. R. 7011.2310]
	21040	If EQUI 256 operates for the purposes specified in 40 CFR 60.4243(d)(3)(i), the Permittee must submit an annual report according to the requirements in 40 CFR 60.4245(e)(1) through (3). The report must contain the following information: - Company name and address where the engine is located. - Date of the report and beginning and ending dates of the reporting period. - Engine site rating and model year. - Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place. - Hours spent for operation for the purposes specified in 40 CFR 60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine. [40 CFR 60.4245(e)(1), Minn. R. 7011.2310]

SI Id	Sequence	Requirement
	35700	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1; 40 CFR 60.2, additional terms defined in 40 CFR 60.4248; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7, only as specified in 40 CFR 60.4245; 40 CFR 60.9; 40 CFR 60.10; 40 CFR 60.11; 40 CFR 60.12; 40 CFR 60.14; 40 CFR 60.15; 40 CFR 60.16; 40 CFR 60.17; and 40 CFR 60.19. A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 60.4246, 40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. JJJJ, Table 3, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2310, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
	35710	The Permittee shall submit a notification of date construction began: Due 30 calendar days after Date of Construction Start (or reconstruction). Submit the name and number of the Subject Item and the date construction began. The notification shall be submitted electronically on Form CS-02. [40 CFR 60.7(a)(1), Minn. R. 7019.0100, subp. 1]
	35720	The Permittee shall submit a notification of the actual date of initial startup: Due 15 calendar days after Initial Startup Date. The notification shall be submitted electronically on Form CS-02. [40 CFR 60.7(a)(3), Minn. R. 7019.0100, subp. 1]
EQUI 274	3050	The Permittee shall limit Nitrogen Oxides <= 2.0 grams per horsepower-hour. [40 CFR 60.4233(e), 40 CFR pt. 60, subp. JJJJ, Table 1, Minn. R. 7011.2310]
	3520	The Permittee shall limit Carbon Monoxide <= 4.0 grams per horsepower-hour. [40 CFR 60.4233(e), 40 CFR pt. 60, subp. JJJJ, Table 1, Minn. R. 7011.2310] The Permittee shall limit Volatile Organic Compounds <= 1.0 grams per horsepower-hour. [40 CFR 60.4233(e), 40 CFR pt. 60, subp. JJJJ, Table 1, Minn. R. 7011.2310]
	3535	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1] Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. The potential to emit from the unit is 0.000588 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.2300, subp. 2(B)]
	3540	Fuel type: Natural gas only, by design. [Minn. R. 7005.0100, subp. 35a]
	3550	Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subs. 4-5]
	3560	The Permittee shall keep records of fuel type and hours of usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]

SI Id	Sequence	Requirement
	21020	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1; 40 CFR 60.2, additional terms defined in 40 CFR 60.4248; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7, only as specified in 40 CFR 60.4245; 40 CFR 60.9; 40 CFR 60.10; 40 CFR 60.11; 40 CFR 60.12; 40 CFR 60.14; 40 CFR 60.15; 40 CFR 60.16; 40 CFR 60.17; and 40 CFR 60.19. A copy of 40 CFR pt. 60, subp. A is included in Appendix C. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 60.4246, 40 CFR pt. 60, subp. A, 40 CFR pt. 60, subp. JJJJ, Table 3, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(A), Minn. R. 7011.2310, Minn. R. 7017.1010 & 7017.2015, subp. 2, Minn. R. 7019.0100]
	21031	At the time of permit issuance, EQUI 274 is considered a new affected source under 40 CFR pt. 63, subp. ZZZZ as defined at 40 CFR 63.6590(a)(2)(i). However, this unit meets the criteria in 40 CFR 63.6590(b)(1)(i) so no requirements of 40 CFR pt. 63, subps. A and ZZZZ, except the initial notification requirements of 40 CFR 63.6645(f), apply. [40 CFR 63.6590(a)(2)(i) and (b)(1)(i), Minn. R. 7011.8150]
	21032	The Permittee must operate and maintain stationary SI ICE that achieves the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [40 CFR 60.4234, Minn. R. 7011.2310]
	21033	The Permittee must install a non-resettable hour meter. [40 CFR 60.4237(b), Minn. R. 7011.2310]
	21035	The Permittee must demonstrate compliance by purchasing an engine certified according to procedures specified in 40 CFR pt. 60, subp. JJJJ, for the same model year and demonstrating compliance according to one of the methods specified in 40 CFR 60.4243(a) (listed below). The Permittee must operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, and keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. The Permittee must also meet the requirements as specified in 40 CFR pt. 1068, subp. A through D, as they apply. If the Permittee adjusts engine settings according to and consistent with the manufacturer's instructions, EQUI 274 will not be considered out of compliance. [40 CFR 60.4243(a)(1), 40 CFR 60.4243(b)(1), Minn. R. 7011.2310]

SI Id	Sequence	Requirement
	21038	The Permittee must operate EQUI 274 according to 40 CFR 60.4243(d)(1) through (3) (listed below). In order for the engine to be considered an emergency stationary ICE under 40 CFR pt. 60, subp. JJJJ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 60.4243(d)(1) through (3), is prohibited. If the Permittee does not operate the engine according to the requirements in 40 CFR 60.4243(d)(1) through (3), the engine will not be considered an emergency engine under 40 CFR pt. 60, subp. JJJJ and must meet all requirements for non-emergency engines. (1) There is no time limit on the use of emergency stationary ICE in emergency situations. (2) The Permittee may operate EQUI 256 for the purpose specified in 40 CFR 60.4243(d)(2)(i) (listed below) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4243(d)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR 60.4243(d)(2). (i) Emergency stationary ICE may be operated for 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 Permittee 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 Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. (3) Emergency stationary ICE 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 40 CFR 60.4243(d)(2). Except as provided in 40 CFR 60.4243(d)(3)(i), 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 an electric grid or otherwise supply power as part of a financial arrangement with another entity. (i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator; (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region. (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines. (D) The power is provided only to the facility itself or to support the local transmission and distribution system. (E) The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the Permittee. [40 CFR 60.4243(d), Minn. R. 7011.2310]
	21039	The Permittee may operate EQUI 274 using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the Permittee is required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. [40 CFR 60.4243(e), Minn. R. 7011.2310]

SI Id	Sequence	Requirement
	21040	The Permittee must keep records of the information in 40 CFR 60.4245(a)(1) through (3) (listed below). (1) All notifications submitted to comply with 40 CFR pt. 60, subp. JJJJ and all documentation supporting any notification. (2) Maintenance conducted on EQUI 256. (3) Documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR pt. 90, 1048, 1054, and 1060, as applicable. [40 CFR 60.4245(a)(1), (2), and (3), Minn. R. 7011.2310]
	35700	The Permittee must keep records of the hours of operation of EQUI 274 that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 60.4245(b), Minn. R. 7011.2310] If EQUI 274 operates for the purposes specified in 40 CFR 60.4243(d)(3)(i), the Permittee must submit an annual report according to the requirements in 40 CFR 60.4245(e)(1) through (3). The report must contain the following information: - Company name and address where the engine is located. - Date of the report and beginning and ending dates of the reporting period. - Engine site rating and model year. - Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place. - Hours spent for operation for the purposes specified in 40 CFR 60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine. [40 CFR 60.4245(e)(1), Minn. R. 7011.2310]
TREA 6	6990	Temperature $\geq$ 1,581 degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet, unless a new limit is required to be set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum is required to be set it will be based on the values recorded during the most recent MPCA-approved performance test where compliance for VOC emissions was demonstrated. The new limit must be implemented upon receipt of the follow up compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. If the 3-hour rolling average temperature is below the minimum temperature limit, the VOC emitted during that time must be considered uncontrolled until the average temperature is above the minimum temperature limit. This must be reported as a deviation. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	16440	The Permittee shall continuously record the destruction device combustion temperature during coating operations. The Permittee shall record all 3-hour periods (during actual coating operations) during which the average temperature of the device is more than 28 degrees C (50 degrees F) below the average temperature of the device during the most recent performance test complying with 40 CFR 60.442(a)(2). [40 CFR 60.443(e), Minn. R. 7011.2560]
	16445	The Permittee shall install, calibrate, maintain, and operate a monitoring device which continuously indicates and records the temperature of the solvent destruction device's exhaust gases. The monitoring device shall have an accuracy of the greater of +/- 0.75 percent of the temperature being measured expressed in degrees Celsius or +/- 2.5 degrees C. [40 CFR 60.445(e), Minn. R. 7011.2560]
	16450	Oven Pressure Differential $\leq$ -0.0070 inches of water column, 3-hour rolling average, measured in the first oven zone. [40 CFR 64.3(a), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16990	The Permittee must operate and maintain control equipment when applying VOC (as opposed to "low VOC" as defined at COMG 17) based on solvent coatings at COMG 17, such that it achieves a control efficiency for Volatile Organic Compounds $\geq$ 96 percent control efficiency. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	16995	The Permittee must vent emissions from EQUIs 46, 47, 48, 49, 50, and 51 to TREA 6 whenever EQUI 46, 47, 48, 49, 50, or 51 operates applying VOC solvent coatings (as opposed to low VOC), and operate and maintain TREA 6 at all times that any emissions are vented to TREA 6. The Permittee must document periods of non-operation of the control equipment TREA 6 whenever EQUI 46, 47, 48, 49, 50, or 51 is operating. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
		For periods when the thermal oxidizer is operated above the minimum combustion chamber temperature, the Permittee must use either one of the following when completing calculations as required elsewhere in this permit: a. The control efficiency limit specified in this permit for this equipment (96%); or b. The control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	17005	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing temperature limit, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	17010	If the Permittee replaces TREA 6, the replacement control must meet or exceed the control efficiency requirements of TREA 6 as well as comply with all other requirements of TREA 6. Prior to making such a change, the Permittee must apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee must submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]
	17030	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200] As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	17040	The Permittee must operate and maintain the thermal oxidizer in accordance with the Operation and Maintenance (O & M) Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]
	17050	Temperature Monitoring: The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the combustion chamber temperature of the thermal oxidizer. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 1 degree Celsius. The recording device shall also calculate the three-hour rolling average combustion chamber temperature. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. The Permittee shall record all 3-hour periods (during actual coating operations) when the average temperature is more than 50 degrees F below the average temperature of the most recent performance test. [40 CFR 60.443(e), 40 CFR 60.445(e), 40 CFR 63.3350(e)(9), 40 CFR 64.3(b)(4)(ii) and Minn. R. 7017.0200, Minn. R. 7007.0800, subp. 4, Minn. R. 7011.2560, Minn. R. 7011.7385]
	17060	Annual Calibration: The Permittee shall calibrate the temperature monitor at least once every 12 months and shall maintain a written record of the calibration and any action resulting from the calibration. [40 CFR 64.3, Minn. R. 7017.0200]

SI Id	Sequence	Requirement
		Daily Monitoring: The Permittee shall comply with one of the following options: 1) The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written or electronic record of the daily verifications; or 2) Interlock equipment with the temperature monitor and recording device so that the equipment will shut down if the temperature monitor and/or recording device is not operating. [40 CFR 64.3(b), Minn. R. 7017.0200] Oven Pressure Differential Monitoring: The Permittee shall maintain and operate a pressure differential monitoring device that continuously indicates and records the oven pressure differential in the first zone for each oven venting to TREA 6. The monitoring device shall have an accuracy +/- 0.75 percent of the span. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. The Permittee shall record all 3-hour periods (during actual coating operations) when the average pressure differential is greater than -0.007 inches of water column. [40 CFR 64.3(b)(4)(ii), Minn. R. 7007.0800, subp. 4, Minn. R. 7017.0200]
17080		Quarterly Inspections: At least once per calendar quarter, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200] The Permittee shall maintain a continuous hard copy readout, electronic, or computer disk file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber. [40 CFR 60.445(e), 40 CFR 64.9(b), Minn. R. 7007.0800, subp. 4 and 5, , Minn. R. 7011.2560, Minn. R. 7017.0200, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000] Monitoring Equipment: The Permittee shall install and maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required. [40 CFR 63.3350(e)(10)(i), 40 CFR 64.7(b), Minn. R. 7011.7385, Minn. R. 7017.0200]
17090		Annual Calibration or Replacement: The Permittee shall calibrate or replace the temperature monitor at least once every 12 months and shall maintain a written record of the calibration or replacement and any resulting action. [40 CFR 64.3, Minn. R. 7017.0200] Quarterly Inspections: At least once per calendar quarter or more frequently as required by the manufacturing specification, the Permittee must inspect components that are not subject to wear including structural components, housings, ducts, and hoods. [40 CFR 64.3, Minn. R. 7017.0200]
17100		Annual Inspection: At least once per calendar year, the Permittee shall conduct an internal inspection of the control device that includes all operating systems of the control device. The Permittee shall maintain a written record of the inspection and any action resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200]
17105		Semiannual Inspections: At least once each calendar half-year or more frequently as required by the manufacturer specification, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written or electronic record of the inspection and any corrective actions taken resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200]
20080		Corrective Actions: If the temperature is below the minimum specified by this permit or if the thermal oxidizer or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the thermal oxidizer. The Permittee shall keep a record of the type and date of any corrective action taken. [40 CFR 64.7(d), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
		When TREA 6 is used to comply with 40 CFR pt. 63, subp. JJJJ, the Permittee must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in 40 CFR 63.3350(e)(10)(iv)(A), (B), (C), (D), (E), or (F) (listed below). The Permittee shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR pt. 63, subp. JJJJ, to be made available for inspection, upon request, by the Administrator: (A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater. (B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual. (C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple. (D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation. (E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers. (F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure. [40 CFR 63.3350(e)(10)(iv), Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4-5, Minn. R. 7011.7385]
20081		If TREA 6 is used to comply with the emission standards in 40 CFR 63.3320, the Permittee must establish the applicable operating limits required by 40 CFR 63.3321. These operating limits apply to each add-on emission control device, and the Permittee must establish the operating limits during the performance test required by 40 CFR 63.3360(e) according to the requirements in 40 CFR 63.3360(e)(3)(i) (listed below): (i) Thermal oxidizer: Establish the operating limits according to 40 CFR 63.3360(e)(3)(i)(A) and (B), listed below: (A) During the performance test, the Permittee must monitor and record the combustion temperature at least once every 15 minutes during each of the three test runs. The Permittee must monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. (B) Use the data collected during the performance test to calculate and record the average combustion temperature maintained during the performance test. Maintain the 3-hour average combustion temperature no more than 50 degrees Fahrenheit lower than this average combustion temperature. [40 CFR 63.3360(e)(3)(i), Minn. R. 7011.7385]
20082		If TREA 6 is used to comply with the emission limits required by 40 CFR pt. 63, subp. JJJJ, the Permittee must maintain the 3-hour average combustion temperature no more than 50 degrees Fahrenheit lower than the combustion temperature limit established according to 40 CFR 63.3360(e)(3)(i). [40 CFR 63.3321(a), 40 CFR 63.3360(e)(3)(i)(B), Minn. R. 7011.7385]

SI Id	Sequence	Requirement
	35750	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing [pressure drop range], the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
		If TREA 6 is used to comply with emission standards of 40 CFR pt. 63, subp. JJJJ, the Permittee must conduct a performance test to establish the destruction or removal efficiency of the control device according to the methods and procedures in 40 CFR 63.3360(e)(1) and (2). During the test, operating limits required by 40 CFR 63.3321 must be established according to 40 CFR 63.3360(e)(3). [40 CFR 63.3360(e), Minn. R. 7011.7385]
	35760	If TREA 6 is used to demonstrate compliance with 40 CFR pt. 63, subp. JJJJ, using the requirements of 40 CFR 63.3370(f), (g), (h), (i), (j)(2), (l), (o)(2) or (3), or (q), capture efficiency must be determined using the procedures in 40 CFR 63.3360(f)(1), (2), or (3), listed below: (1) The Permittee may assume the capture efficiency equals 100 percent if the capture system is a permanent total enclosure (PTE). The Permittee must 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 pt. 51, appendix M, and that all exhaust gases from the enclosure are delivered to a control device. (2) The Permittee may determine 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 pt. 51, appendix M. The Permittee may exclude never-controlled work stations from such capture efficiency determinations. (3) 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 pt. 63, subp. KK. The Permittee may exclude never-controlled work stations from such capture efficiency determinations. [40 CFR 63.3360(f), Minn. R. 7011.7385]
	35763	Volatile Organic Compounds: The Permittee shall conduct a performance test due before 07/11/2027 and every 60 months thereafter to measure VOC destruction efficiency. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 25A, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
TREA 8	8	The Permittee is required to operate TREA 8 when applying VOC (as opposed to "low VOC" as defined at COMG 31) based solvent coatings at COMG 31. When required to operate, the Permittee must operate and maintain control equipment such that it achieves a control efficiency for Volatile Organic Compounds $\geq$ 95 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	25	Temperature $\geq$ 1,518 degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet, unless a new limit is required to be set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum is required to be set it will be based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new limit must be implemented upon receipt of the follow up compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. If the 3-hour rolling average temperature is below the minimum temperature limit, the VOC emitted during that time must be considered uncontrolled until the average temperature is above the minimum temperature limit. This must be reported as a deviation. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	40	Oven Pressure Differential $\leq$ -0.0070 inches of water column, 3-hour rolling average, measured in the first oven zone. [40 CFR pt. 64, 3(a), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16440	Temperature Monitoring: The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the combustion chamber temperature of the thermal oxidizer. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 1 degrees Celsius. The recording device shall also calculate the three-hour rolling average combustion chamber temperature. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. The Permittee shall separately record all 3-hour periods (during actual coating operations) when the average temperature is more than 50 degrees F below the average temperature of the most recent performance test. [40 CFR 60.443(e), 40 CFR 60.445(e), 40 CFR 63.3350(e)(9), 40 CFR 64.3(b)(4)(ii) and Minn. R. 7017.0200, Minn. R. 7011.2560, Minn. R. 7011.7385, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000] Monitoring of Operation of Temperature Recorder: The Permittee shall maintain and operate an alarm to indicate when the temperature measurement and recording system is not operating. [40 CFR 64.3(b), Minn. R. 7017.0200, Minn. R. 7019.3020(G), Minn. R. 7019.3050, Minn. Stat. 116.07, subd. 4a, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000] The Permittee must vent emissions from EQUIs 196-201 and 130-143 to TREA 8 whenever EQUI 196-201 or 130-143 operates applying VOC solvent coatings (as opposed to low VOC), and operate and maintain TREA 8 at all times that any emissions are vented to TREA 8. The Permittee must document periods of non-operation of the control equipment TREA 8 whenever EQUI 196-201 or 130-143 is operating. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	16445	Monitoring Equipment: The Permittee shall maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required. [40 CFR 63.3350(e)(10)(i), 40 CFR 64.7(b), Minn. R. 7011.7385, Minn. R. 7017.0200]
	16450	Oven Pressure Differential Monitoring: The Permittee shall maintain and operate a pressure differential monitoring device that continuously indicates and records the oven pressure differential in the first zone for each oven venting to TREA 8. The monitoring device shall have an accuracy +/- 0.75 percent of the span. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. The Permittee shall record all 3-hour periods (during actual coating operations) when the average pressure differential is greater than -0.007 inches of water column. [40 CFR 64.3(b)(4)(ii), Minn. R. 7007.0800, subp. 4, Minn. R. 7017.0200]
	16990	Daily Monitoring: The Permittee shall comply with one of the following options: 1) The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written or electronic record of the daily verifications; or 2) Interlock equipment with the temperature monitor and recording device so that the equipment will shut down if the temperature monitor and/or recording device is not operating. [40 CFR 64.3(b), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
		Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing temperature range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
16995		As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200] If the Permittee replaces TREA 8, the replacement control must meet or exceed the control efficiency requirements of TREA 8 as well as comply with all other requirements of TREA 8. Prior to making such a change, the Permittee must apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee must submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
17005		The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
17020		The Permittee must operate and maintain the thermal oxidizer in accordance with the Operation and Maintenance (O & M) Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]
17030		The Permittee shall maintain a continuous hard copy readout, electronic, or computer disk file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber. [40 CFR 60.445(e), 40 CFR 64.9(b), Minn. R. 7011.2560, Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
17040		Annual Inspection: At least once per calendar year, the Permittee shall conduct an internal inspection of the control device that includes all operating systems of the control device. The Permittee shall maintain a written record of the inspection and any action resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200] Annual Calibration or Replacement: The Permittee shall calibrate or replace the temperature monitor at least once every 12 months and shall maintain a written record of the calibration or replacement and any resulting action. [40 CFR 64.3, Minn. R. 7017.0200]
17050		Quarterly Inspections: At least once per calendar quarter or more frequently as required by the manufacturing specification, the Permittee must inspect components that are not subject to wear including structural components, housings, ducts, and hoods. [40 CFR 64.3, Minn. R. 7017.0200]
17060		Semiannual Inspections: At least once each calendar half-year or more frequently as required by the manufacturer specification, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written or electronic record of the inspection and any corrective actions taken resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200]
17070		For periods when the thermal oxidizer is operated above the minimum combustion chamber temperature, the Permittee must use either one of the following when completing calculations as required elsewhere in this permit: a. The control efficiency limit specified in this permit for this equipment (95%); or b. The control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	17080	Corrective Actions: If the temperature is below the minimum specified by this permit or if the thermal oxidizer or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the thermal oxidizer. The Permittee shall keep a record of the type and date of any corrective action taken. [40 CFR 64.7(d), Minn. R. 7017.0200]
	17085	When TREA 8 is used to comply with 40 CFR pt. 63, subp. JJJJ, the Permittee must comply with the following: - Install, maintain, and operate temperature monitoring equipment according to the manufacturer's specifications. - Install, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature with an accuracy of + or - 1 percent of the temperature being monitored in degrees Fahrenheit or + or - 1.8 degrees Fahrenheit, whichever is greater. The temperature sensor must be installed in the combustion chamber at a location in the combustion zone. - For temperature sensors, the Permittee must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in 40 CFR 63.3350(e)(10)(iv)(A), (B), (C), (D), (E), or (F) (listed below). The Permittee shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR pt. 63, subp. JJJJ, to be made available for inspection, upon request, by the Administrator: (A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater. (B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual. (C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple. (D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation. (E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers. (F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure. - Conduct the validation checks in 40 CFR 63.3350(e)(10)(iv)(A), (B), or (C) any time the temperature sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor. -At least quarterly, inspect temperature sensor components for proper connection and integrity or continuously operate an electronic monitoring system designed to notify personnel if the signal from the temperature sensor is interrupted. [40 CFR 63.3350(e), Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4-5, Minn. R. 7011.7385]

SI Id	Sequence	Requirement
	17090	If TREA 8 is used to comply with the emission standards in 40 CFR 63.3320, the Permittee must establish the applicable operating limits required by 40 CFR 63.3321. These operating limits apply to each add-on emission control device, and the Permittee must establish the operating limits during the performance test required by 40 CFR 63.3360(e) according to the requirements in 40 CFR 63.3360(e)(3)(i) listed below: (i) Thermal oxidizer: Establish the operating limits according to 40 CFR 63.3360(e)(3)(i)(A) and (B), listed below: (A) During the performance test, the Permittee must monitor and record the combustion temperature at least once every 15 minutes during each of the three test runs. The Permittee must monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. (B) Use the data collected during the performance test to calculate and record the average combustion temperature maintained during the performance test. Maintain the 3-hour average combustion temperature no more than 50 degrees Fahrenheit lower than this average combustion temperature. [40 CFR 63.3360(e)(3)(i), Minn. R. 7011.7385]
	17105	If TREA 8 is used to comply with the emission limits required by 40 CFR pt. 63, subp. JJJJ, the average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3360(e)(3)(i). [40 CFR 63.3321(a), Minn. R. 7011.7385]
	20080	If TREA 8 is used to comply with emission standards of 40 CFR pt. 63, subp. JJJJ, the Permittee must conduct a performance test to establish the destruction or removal efficiency of the control device according to the methods and procedures in 40 CFR 63.3360(e)(1) and (2). During the test, operating limits required by 40 CFR 63.3321 must be established according to 40 CFR 63.3360(e)(3). [40 CFR 63.3360(e), Minn. R. 7011.7385] If TREA 8 is used to demonstrate compliance with 40 CFR pt. 63, subp. JJJJ, using the requirements of 40 CFR 63.3370(f), (g), (h), (i), (j)(2), (l), (o)(2) or (3), or (q), capture efficiency must be determined using the procedures in 40 CFR 63.3360(f)(1), (2), or (3), listed below: (1) The Permittee may assume the capture efficiency equals 100 percent if the capture system is a permanent total enclosure (PTE). The Permittee must 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 pt. 51, appendix M, and that all exhaust gases from the enclosure are delivered to a control device. (2) The Permittee may determine 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 pt. 51, appendix M. The Permittee may exclude never-controlled work stations from such capture efficiency determinations. (3) 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 pt. 63, subp. KK. The Permittee may exclude never-controlled work stations from such capture efficiency determinations. [40 CFR 63.3360(f), Minn. R. 7011.7385]

SI Id	Sequence	Requirement
	165500	Volatile Organic Compounds: The Permittee shall conduct a performance test due before 05/11/2030 and every 60 months thereafter to measure VOC control efficiency. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 25A, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
TREA 10	17610	The Permittee must vent emissions from EQUI 195 to TREA 10 whenever EQUI 195 operates, and operate and maintain TREA 10 at all times that any emissions are vented to TREA 10. The Permittee must document periods of non-operation of the control equipment TREA 10 whenever EQUI 195 is operating. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	17615	If the Permittee replaces TREA 10, the replacement control must meet or exceed the control efficiency requirements of TREA 10 as well as comply with all other requirements of TREA 10. Prior to making such a change, the Permittee must apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee must submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27320	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for Particulate Matter ≥ 72 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27330	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for PM < 10 micron ≥ 72 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27340	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for PM < 2.5 micron ≥ 68 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27350	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for Volatile Organic Compounds ≥ 72 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	27360	Liquid Flow Rate ≥ 80 and ≤ 110 gallons per minute, unless a new limit is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new limit shall be implemented upon receipt of the follow up compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. The Permittee must record the liquid flow rate at least once every 24 hours when in operation. If the recorded flow rate is below the minimum flow rate limit, the emissions during that time must be considered uncontrolled until the flow rate is once again above the minimum flow rate limit. The period of time for which the flow rate is below the minimum limit must be reported as a deviation, as defined by Minn. R. 7007.0100, subp. 8a. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27370	Pressure Drop ≥ 32 and ≤ 40 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the follow up compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee must record the pressure drop at least once every 24 hours when in operation. If the recorded pressure drop is outside the required range, the emissions during that time must be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range must be reported as a deviation, as defined by Minn. R. 7007.0100, subp. 8a. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27530	Recordkeeping of Pressure Drop and Liquid Flow Rate: The Permittee must record the time and date of each pressure drop reading and liquid flow rate reading, and whether or not the recorded values were within the ranges specified in this permit. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27540	Corrective Actions: The Permittee must take corrective action as soon as possible if any of the following occur: - the recorded flow rate is below the required rate; - the recorded pressure drop is outside the required operating range; or - the scrubber or any of its components are found during the inspections to need repair. Corrective actions must return the pressure drop and/or water flow rate to within the permitted range(s), and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the Operation and Maintenance (O & M) Plan for the scrubber. The Permittee must keep a record of the type and date of any corrective action taken for each scrubber. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]
	27550	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee must inspect the control equipment components. The Permittee must maintain a written or electronic record of these inspections. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
	27560	Monitoring Equipment: The Permittee must install and maintain the necessary monitoring equipment for measuring and recording pressure drop and liquid flow rate as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored scrubber is in operation. [Minn. R. 7007.0800, subp. 4]
	27565	The Permittee must calibrate or replace the pressure drop and flow rate monitors at least once every 12 months and must maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	27570	The Permittee must operate and maintain the scrubber in accordance with the O & M Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]

SI Id	Sequence	Requirement
	27580	Hood Certification and Evaluation: The Permittee must maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3. The hood certification must address how cross-drafts are accommodated in the design (e.g., higher face velocity, oversized hood, etc.) and the Permittee must certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27590	Annual Hood Evaluation: The Permittee must measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee must maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
TREA 11	2	The Permittee is required to operate TREA 11 when applying VOC (as opposed to "low VOC" as defined at COMG 8) based solvent coatings at COMG 8. When required to operate the Permittee must operate and maintain control equipment such that it achieves a control efficiency for Volatile Organic Compounds $\geq$ 80 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	3	The Permittee must limit the recovered volatile matter $\leq$ 100 pounds differential between meters. [Minn. R. 7007.0800, subp. 2(A)]
	5	The Permittee must limit the hydrocarbon vapor concentration $<$ 1000 parts per million of heptane. [Minn. R. 7007.0800, subp. 2(A)]
	6	The Permittee shall vent emissions from EQUIs 14 and 188 to TREA 11 whenever EQUI 14 or 188 operates applying VOC solvent coatings (as opposed to low VOC), and operate and maintain TREA 11 at all times that any emissions are vented to TREA 11. The Permittee shall document periods of non-operation of the control equipment TREA 11 whenever EQUI 14 or 188 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	8	The Permittee must operate and maintain TREA 11 in accordance with the Operation and Maintenance (O & M) Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]
	9	The Permittee must calibrate, maintain, and operate according to the manufacturer's specifications a device that indicates the cumulative amount of volatile matter recovered by each solvent recovery device on a monthly basis. The device must be certified by the manufacturer to be accurate to within $\pm$ 2.0 percent by mass. [40 CFR 63.3350(d)(2), Minn. R. 7011.7835]
	10	The Permittee must calibrate, maintain, and operate according to the manufacturer's specifications a device that indicates and records the hydrocarbon vapor concentration. [40 CFR 64.3(a), Minn. R. 7007.0800, subp. 4, Minn. R. 7017.0200]
	11	Daily Monitoring: The Permittee shall comply with one of the following options: 1) The Permittee shall physically verify the operation of the monitoring recording devices at least once each operating day to verify that each device is working and recording properly. The Permittee shall maintain a written or electronic record of the daily verifications; or 2) Interlock equipment with each monitoring recording device so that the equipment will shut down if any of the recording devices are not operating. [40 CFR 64.3(b), Minn. R. 7017.0200]
	12	Quarterly Inspections: At least once per calendar quarter, the Permittee must inspect the control equipment components. The Permittee must maintain a written or electronic record of the inspection and any corrective actions taken resulting from the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
	13	Annual Inspection: At least once per calendar year, the Permittee must conduct an internal inspection of the control device that includes all operating systems of the control device. The Permittee shall maintain a written record of the inspection and any action resulting from the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4-5]

SI Id	Sequence	Requirement
	14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - any recorded operating parameter is outside the required operating range; or - TREA11 or any of its components are found during the inspections to need repair. Corrective actions shall return operation to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the ESP. The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
	15	If the Permittee replaces TREA 11, the replacement control must meet or exceed the control efficiency requirements of TREA 11 as well as comply with all other requirements of TREA 11. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	16	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing temperature range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	17	As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	18	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	19	Monitoring Equipment: The Permittee shall install and maintain a device that indicates and records the cumulative amount of volatile matter recovered as required by this permit, and install and maintain a device that indicates and records the hydrocarbon vapor concentration. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required. [40 CFR 64.7(b), Minn. R. 7017.0200]
	20	The Permittee shall maintain a continuous hard copy readout, electronic, or computer disk file of the readings of the cumulative amount of volatile matter recovered and hydrocarbon vapor concentration. [40 CFR 64.9(b), Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	21	Annual Calibration: The Permittee shall calibrate the monitor that indicates the cumulative amount of volatile matter recovered at least once every 12 months and shall maintain a written record of the calibration and any action resulting from the calibration. [40 CFR 64.3, Minn. R. 7017.0200]
TREA 12	13	The Permittee is required to operate TREA 12 when applying VOC (as opposed to "low VOC" as defined at COMG 16) based solvent coatings at COMG 16. When required to operate, the Permittee must operate and maintain control equipment such that it achieves a control efficiency for Volatile Organic Compounds $\geq$ 96 percent control efficiency. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	16440	Oven Pressure Differential $\leq$ -0.007 inches of water column, 3-hour rolling average, measured in the first oven zone. [40 CFR pt. 64, 3(a), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
		Temperature $\geq$ 1,584 degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet, unless a new limit is required to be set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum is required to be set it will be based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new limit must be implemented upon receipt of the follow up compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. If the 3-hour rolling average temperature is below the minimum temperature limit, the VOC emitted during that time must be considered uncontrolled until the average temperature is above the minimum temperature limit. This must be reported as a deviation. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	16450	The Permittee must vent emissions from EQUIs 101, 102, and 103 to TREA 12 whenever EQUI 101, 102, and 103 operates applying VOC solvent coatings (as opposed to low VOC), and operate and maintain TREA 12 at all times that any emissions are vented to TREA 12. The Permittee must document periods of non-operation of the control equipment TREA 12 whenever EQUI 101, 102, or 103 is operating. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	16460	If the Permittee replaces TREA 12, the replacement control must meet or exceed the control efficiency requirements of TREA 12 as well as comply with all other requirements of TREA 12. Prior to making such a change, the Permittee must apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee must submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	16990	Temperature Monitoring: The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the combustion chamber temperature of the thermal oxidizer. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 1 degree Celsius. The recording device shall also calculate the three-hour rolling average combustion chamber temperature. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. The Permittee shall separately record all 3-hour periods (during actual coating operations) when the average temperature is more than 50 degrees F below the average temperature of the most recent performance test. [40 CFR 60.443(e), 40 CFR 60.445(e), 40 CFR 63.3350(e)(10), 40 CFR 64.3(b)(4)(ii) and Minn. R. 7017.0200, Minn. R. 7011.2560, Minn. R. 7011.7385, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000] Daily Monitoring: The Permittee shall comply with one of the following options: 1) The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written or electronic record of the daily verifications; or 2) Interlock equipment with the temperature monitor and recording device so that the equipment will shut down if the temperature monitor and/or recording device is not operating. [40 CFR 64.3(b), Minn. R. 7017.0200] For periods when the thermal oxidizer is operated above the minimum combustion chamber temperature, the Permittee must use either one of the following when completing calculations as required elsewhere in this permit: a. The control efficiency limit specified in this permit for this equipment (96%); or b. The control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	17000	The Permittee shall maintain a continuous hard copy readout, electronic, or computer disk file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber. [40 CFR 64.9(b), Minn. R. 7017.0200, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	17005	Purge bypass dampers shall be electrically interlocked with the coating line such that dampers will not open to the atmosphere when web is being coated or dried during solvent-base coating operations. A manual override of this interlock may be used to "exercise" dampers during solvent-base coating operations for safety purposes when a continuous coating run exceeds 8 hours. The dampers shall not be open to atmosphere (for excising purposes) during solvent-base coating operations for more than three minutes per set of sources and stack dampers in any one calendar day. During damper exercising periods, emissions are considered to be uncontrolled for the purposes of demonstrating compliance with permit limitations and calculating emissions. During emergency situations, the Permittee may use the existing automatic electronic override to open the dampers. Emergency situations are described as: 1. High percent LFL detected in any of the oven zones (requires an immediate bypass to atmosphere, simultaneous shutdown of applying solvent, and maximum dilution into the oven zone); 2. Loss of damper proximity switches showing that the coater is properly routed to the oxidizer and not to atmosphere; 3. Loss of PLC communication which ensures safety checks between coater and oxidizer are satisfied; 4. Static pressure transmitters within the oven and/or at the exhaust of the oven may direct exhaust to atmosphere; 5. High temperature alarm within the ductwork; 6. Loss of proof of dilution. For some coaters this may just disable group drive; for others it may take the coater off-line; 7. Miscellaneous interlocks. Logic also exists to drop coaters on a fire alarm, or CO2 discharge in the area where the coater is located; and 8. Faults generated by the oxidizer which direct the coater to go to atmosphere. Examples include oxidizer fan failure, combustion blower failure, oxidizer combustion chamber over temperature, gas train interlock trip, oxidizer valve out of position alarm, oxidizer high cold face temperature, oxidizer high stack temperature, excessive negative inlet pressure, high inlet pressure, high flow across the oxidizer. Records shall be kept on site of the date, time, and duration of all times that uncontrolled emissions are directed to atmosphere due to damper exercising activities. These activities are included as part of the process in the BACT determination and do not violate the proposed BACT control standards. [Title I Condition: 40 CFR 52.21(j)(BACT) & Minn. R. 7007.3000]
	17010	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing temperature range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200] As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	17020	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	17040	The Permittee must operate and maintain the thermal oxidizer in accordance with the Operation and Maintenance (O & M) Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]

SI Id	Sequence	Requirement
	17050	Monitoring Equipment: The Permittee shall install and maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required. [40 CFR 64.7(b), Minn. R. 7017.0200]
		Annual Calibration or Replacement: The Permittee shall calibrate or replace the temperature monitor at least once every 12 months and shall maintain a written record of the calibration or replacement and any resulting action. [40 CFR 64.3, Minn. R. 7017.0200]
	17060	Oven Pressure Differential Monitoring: The Permittee shall maintain and operate a pressure differential monitoring device that continuously indicates and records the oven pressure differential in the first zone for each oven venting to TREA 12. The monitoring device shall have an accuracy +/- 0.75 percent of the span. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. The Permittee shall record all 3-hour periods (during actual coating operations) when the average pressure differential is greater than -0.007 inches of water column. [40 CFR 64.3(b)(4)(ii), Minn. R. 7007.0800, subp. 4, Minn. R. 7017.0200]
	17080	Annual Inspection: At least once per calendar year, the Permittee shall conduct an internal inspection of the control device that includes all operating systems of the control device. The Permittee shall maintain a written record of the inspection and any action resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200] Semiannual Inspections: At least once each calendar half-year or more frequently as required by the manufacturer specification, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written or electronic record of the inspection and any corrective actions taken resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200] Quarterly Inspections: At least once per calendar quarter or more frequently as required by the manufacturing specification, the Permittee must inspect components that are not subject to wear including structural components, housings, ducts, and hoods. [40 CFR 64.3, Minn. R. 7017.0200]
	17090	Corrective Actions: If the temperature is below the minimum specified by this permit or if the thermal oxidizer or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the thermal oxidizer. The Permittee shall keep a record of the type and date of any corrective action taken. [40 CFR 64.7(d), Minn. R. 7017.0200]
	17100	Monitoring of Operation of Temperature Recorder: The Permittee shall install, maintain and operate an alarm to indicate when the temperature measurement and recording system is not operating. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	19540	When TREA 12 is used to comply with 40 CFR pt. 63, subp. JJJJ, the Permittee must comply with the following: - Install, maintain, and operate temperature monitoring equipment according to the manufacturer's specifications. - Install, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature with an accuracy of + or - 1 percent of the temperature being monitored in degrees Fahrenheit or + or - 1.8 degrees Fahrenheit, whichever is greater. The temperature sensor must be installed in the combustion chamber at a location in the combustion zone. - For temperature sensors, the Permittee must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in 40 CFR 63.3350(e)(10)(iv)(A), (B), (C), (D), (E), or (F) (listed below). The Permittee shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR pt. 63, subp. JJJJ, to be made available for inspection, upon request, by the Administrator: (A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater. (B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual. (C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple. (D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation. (E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers. (F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure. - Conduct the validation checks in 40 CFR 63.3350(e)(10)(iv)(A), (B), or (C) any time the temperature sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor. -At least quarterly, inspect temperature sensor components for proper connection and integrity or continuously operate an electronic monitoring system designed to notify personnel if the signal from the temperature sensor is interrupted. [40 CFR 63.3350(e), Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4-5, Minn. R. 7011.7385]
TREA 13	17610	The Permittee must vent emissions from EQUI 105 to TREA 13 whenever EQUI 105 operates, and operate and maintain TREA 13 at all times that any emissions are vented to TREA 13. The Permittee must document periods of non-operation of the control equipment TREA 13 whenever EQUI 105 is operating. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	17615	If the Permittee replaces TREA 13, the replacement control must meet or exceed the control efficiency requirements of TREA 13 as well as comply with all other requirements of TREA 13. Prior to making such a change, the Permittee must apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee must submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	27320	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for Particulate Matter ≥ 72 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27330	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for PM < 10 micron ≥ 72 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27340	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for PM < 2.5 micron ≥ 68 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27350	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for Volatile Organic Compounds ≥ 72 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27360	Liquid Flow Rate ≥ 80 and ≤ 100 gallons per minute, unless a new limit is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new limit shall be implemented upon receipt of the follow up compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. The Permittee must record the liquid flow rate at least once every 24 hours when in operation. If the recorded flow rate is below the minimum flow rate limit or above the maximum flow rate limit, the emissions during that time must be considered uncontrolled until the flow rate is once again within the flow rate limit range. The period of time for which the flow rate is below the minimum limit or above the maximum limit must be reported as a deviation, as defined by Minn. R. 7007.0100, subp. 8a. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27370	Pressure Drop ≥ 32 and ≤ 40 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the follow up compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee must record the pressure drop at least once every 24 hours when in operation. If the recorded pressure drop is outside the required range, the emissions during that time must be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range must be reported as a deviation, as defined by Minn. R. 7007.0100, subp. 8a. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27530	Recordkeeping of Pressure Drop and Liquid Flow Rate: The Permittee must record the time and date of each pressure drop reading and liquid flow rate reading, and whether or not the recorded values were within the ranges specified in this permit. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	27540	Corrective Actions: The Permittee must take corrective action as soon as possible if any of the following occur: - the recorded flow rate is below the required rate; - the recorded pressure drop is outside the required operating range; or - the scrubber or any of its components are found during the inspections to need repair. Corrective actions must return the pressure drop and/or water flow rate to within the permitted range(s), and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the Operation and Maintenance (O & M) Plan for the scrubber. The Permittee must keep a record of the type and date of any corrective action taken for each scrubber. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]
	27550	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee must inspect the control equipment components. The Permittee must maintain a written or electronic record of these inspections. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
	27560	Monitoring Equipment: The Permittee must install and maintain the necessary monitoring equipment for measuring and recording pressure drop and liquid flow rate as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored scrubber is in operation. [Minn. R. 7007.0800, subp. 4]
	27565	The Permittee must calibrate or replace the pressure drop and flow rate monitors at least once every 12 months and must maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	27570	The Permittee must operate and maintain the scrubber in accordance with the O & M Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]
	27580	Hood Certification and Evaluation: The Permittee must maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3. The hood certification must address how cross-drafts are accommodated in the design (e.g., higher face velocity, oversized hood, etc.) and the Permittee must certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	27590	Annual Hood Evaluation: The Permittee must measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee must maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A), Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
TREA 15	6670	The Permittee is required to operate this control equipment when applying VOC (as opposed to "low VOC" as defined at COMG 9) based solvent coatings at COMG 9. When required to operate, the Permittee must operate and maintain control equipment such that it achieves a control efficiency for Volatile Organic Compounds $\geq$ 95 percent control efficiency. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
	16440	Oven Pressure Differential $\leq$ -0.007 inches of water column, 3-hour rolling average, measured in the first oven zone. [40 CFR pt. 64, 3(a), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
		Temperature $\geq$ 1,298 degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet, unless a new limit is required to be set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum is required to be set it will be based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new limit must be implemented upon receipt of the follow up compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. If the 3-hour rolling average temperature is below the minimum temperature limit, the VOC emitted during that time must be considered uncontrolled until the average temperature is above the minimum temperature limit. This must be reported as a deviation. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
16445		The Permittee must vent emissions from EQUIs 15, 16, 17, and 26 to TREA 15 whenever EQUI 15, 16, 17, or 26 operates applying VOC solvent coatings (as opposed to low VOC), and operate and maintain TREA 15 at all times that any emissions are vented to TREA 15. The Permittee must document periods of non-operation of the control equipment TREA 15 whenever EQUI 15, 16, 17 or 26 is operating. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
16460		If the Permittee replaces TREA 15, the replacement control must meet or exceed the control efficiency requirements of TREA 15 as well as comply with all other requirements of TREA 15. Prior to making such a change, the Permittee must apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee must submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000] The Permittee shall continuously record the destruction device combustion temperature during coating operations. The Permittee shall record all 3-hour periods (during actual coating operations) during which the average temperature of the device is more than 28 degrees C (50 degrees F) below the average temperature of the device during the most recent performance test complying with 40 CFR 60.442(a)(2). [40 CFR 60.443(e), Minn. R. 7011.2560]
16990		Temperature Monitoring: The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the combustion chamber temperature of the thermal oxidizer. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 1 degree Celsius. The recording device shall also calculate the three-hour rolling average combustion chamber temperature. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. [40 CFR 60.443(e), 40 CFR 60.445(e), 40 CFR 63.3350(e)(9), 40 CFR 64.3(b)(4)(ii) and Minn. R. 7017.0200, Minn. R. 7011.2560, Minn. R. 7011.7385, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000] The Permittee shall maintain a continuous hard copy readout, electronic, or computer disk file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber. [40 CFR 60.445(e), 40 CFR 64.9(b), Minn. R. 7011.2560, Minn. R. 7017.0200, Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]
16995		Daily Monitoring: The Permittee shall comply with one of the following options: 1) The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written or electronic record of the daily verifications; or 2) Interlock equipment with the temperature monitor and recording device so that the equipment will shut down if the temperature monitor and/or recording device is not operating. [40 CFR 64.3(b), Minn. R. 7017.0200]
17000		For periods when the thermal oxidizer is operated above the minimum combustion chamber temperature, the Permittee must use either one of the following when completing calculations as required elsewhere in this permit: a. The control efficiency limit specified in this permit for this equipment (95%); or b. The control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test. [Title I Condition: 40 CFR 52.21(j)(BACT) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	17005	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing temperature limit, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	17010	As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	17040	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200] The Permittee must operate and maintain the thermal oxidizer in accordance with the Operation and Maintenance (O & M) Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]
	17050	Monitoring Equipment: The Permittee shall install and maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required. [40 CFR 64.7(b), Minn. R. 7017.0200] Oven Pressure Differential Monitoring: The Permittee shall maintain and operate a pressure differential monitoring device that continuously indicates and records the oven pressure differential in the first zone for each oven venting to TREA 15. The monitoring device shall have an accuracy +/- 0.75 percent of the span. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. The Permittee shall record all 3-hour periods (during actual coating operations) when the average pressure differential is greater than -0.007 inches of water column. [40 CFR 64.3(b)(4)(ii), Minn. R. 7007.0800, subp. 4, Minn. R. 7017.0200] Annual Calibration or Replacement: The Permittee shall calibrate or replace the temperature monitor at least once every 12 months and shall maintain a written record of the calibration or replacement and any resulting action. [40 CFR 64.3, Minn. R. 7017.0200]
	17060	Monitoring of Operation of Temperature Recorder: The Permittee shall install, maintain and operate an alarm to indicate when the temperature measurement and recording system is not operating. [Minn. R. 7007.0800, subps. 4-5]
	17070	Quarterly Inspections: At least once per calendar quarter or more frequently as required by the manufacturing specification, the Permittee must inspect components that are not subject to wear including structural components, housings, ducts, and hoods. [40 CFR 64.3, Minn. R. 7017.0200]
	17080	Annual Inspection: At least once per calendar year, the Permittee shall conduct an internal inspection of the control device that includes all operating systems of the control device. The Permittee shall maintain a written record of the inspection and any action resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200] Semiannual Inspections: At least once each calendar half-year or more frequently as required by the manufacturer specification, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written or electronic record of the inspection and any corrective actions taken resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200]

SI Id	Sequence	Requirement
	17100	Corrective Actions: If the temperature is below the minimum specified by this permit or if the thermal oxidizer or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the thermal oxidizer. The Permittee shall keep a record of the type and date of any corrective action taken. [40 CFR 64.7(d), Minn. R. 7017.0200]
	17200	When TREA 15 is used to comply with 40 CFR pt. 63, subp. JJJJ, the Permittee must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in 40 CFR 63.3350(e)(10)(iv)(A), (B), (C), (D), (E), or (F) (listed below). The Permittee shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR pt. 63, subp. JJJJ, to be made available for inspection, upon request, by the Administrator: (A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater. (B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual. (C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple. (D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation. (E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers. (F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure. [40 CFR 63.3350(e)(10)(iv), Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4-5, Minn. R. 7011.7385]
TREA 22	17610	The Permittee must operate and maintain control equipment such that it achieves a control efficiency for Volatile Organic Compounds $\geq$ 90 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	17615	Temperature $\leq$ -12 degrees Celsius daily average of the ethylene glycol chiller return, unless a new limit is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated, or an alternative monitoring request is submitted for a new limit as allowed under 40 CFR pt. 63, subps. HHHHH and SS and is MPCA-approved. The new limit shall be implemented upon receipt of the follow up compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. If the temperature is above the maximum temperature limit, the VOC used during that time shall be considered uncontrolled until the temperature is below the maximum temperature limit. This shall be reported as a deviation. [40 CFR 63.2, 40 CFR 63.8(f)(4)(i) and (ii), 40 CFR pt. 63, subp. HHHHH, Minn. R. 7007.0800, subp. 2((A)), Minn. R. 7011.8070]

SI Id	Sequence	Requirement
	17970	Pressure Drop $\geq$ 0.10 inches of water, across EQUI 10 to indicate emissions are routed to the condenser, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the follow up compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. If the recorded pressure drop is outside the required range, this shall be reported as a deviation. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18010	The Permittee must vent emissions from EQUI 10 to TREA 22 whenever EQUI 10 operates unless EQUI 10 is operated as an affiliated operation as described in 40 CFR 63.7985(d)(2), and operate and maintain TREA 22 at all times that any emissions are vented to TREA 22. The Permittee must document periods of non-operation of the control equipment TREA 22 whenever EQUI 10 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	18020	If the Permittee replaces TREA 22, the replacement control must meet or exceed the control efficiency requirements of TREA 22 as well as comply with all other requirements of TREA 22. Prior to making such a change, the Permittee must apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee must submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]
	18030	The Permittee must operate and maintain the condenser in accordance with the Operation and Maintenance (O & M) Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]
	18040	The Permittee must maintain and operate a thermocouple monitoring device that continuously indicates and records the ethylene glycol chiller return temperature. The monitoring device must have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 2.5 degrees Celsius. [Minn. R. 7007.0800, subps. 4-5]
	18050	Daily Monitoring: The Permittee must comply with one of the following options: 1) The Permittee must physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee must maintain a written or electronic record of the daily verifications; or 2) Interlock equipment with the temperature monitor and recording device so that the equipment will shut down if the temperature monitor and/or recording device is not operating. [Minn. R. 7007.0800, subps. 4-5]
	18060	Weekly Monitoring: The Permittee must record EQUI 10 pressure drop at least once each calendar week. The record must include the time and date of the reading and whether or not it was within the range specified by this permit. [Minn. R. 7007.0800, subps. 4-5]
	18070	Monitoring Equipment: The Permittee must install and maintain the necessary monitoring equipment for measuring and recording the temperature and pressure drops, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored condenser is in operation. [Minn. R. 7007.0800, subps. 4-5]
	18080	The Permittee must maintain either a continuous copy readout of the ethylene glycol chiller return temperature, or maintain a copy of manual readings taken at least every 15 minutes. [Minn. R. 7007.0800, subps. 4-5]
	18090	Annual Calibration: The Permittee must calibrate the temperature monitor and pressure drop gauges at least once every 12 months and must maintain a written record of the calibration and any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18110	Quarterly Inspections: At least once per calendar quarter, the Permittee must inspect the control equipment components. The Permittee shall maintain a written or electronic record of the inspection and any corrective actions taken resulting from the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]

SI Id	Sequence	Requirement
	18120	Annual Inspection: At least once per calendar year, the Permittee must conduct an internal inspection of the control device that includes all operating systems of the control device. The Permittee must maintain a written record of the inspection and any action resulting from the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5] For periods when the condenser is operated within the parameters specified by this permit, the Permittee must use either one of the following when completing calculations as required elsewhere in this permit: a. The control efficiency limit specified in this permit for this equipment; or b. The control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test. [Minn. R. 7007.0800, subps. 4-5]
	18122	Corrective Actions: If the temperature is above the maximum, the pressure drops are outside the specified ranges, or if the condenser or any of its components are found during the inspections to need repair, the Permittee must take corrective action as soon as possible. Corrective actions must return the temperature and/or pressure drops to the specified limits/ranges and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the condenser. The Permittee must keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]
	18130	Nonflare control and recovery device regulated source monitoring records. (1) Monitoring system records. For process vents and high throughput transfer racks, the Permittee shall keep the records specified in 40 CFR 63.998(c), as well as records specified elsewhere in this 40 CFR pt. 63, subp. SS. (i) For a CPMS used to comply with 40 CFR pt. 63, subp. SS, a record of the procedure used for calibrating the CPMS. (ii) For a CPMS used to comply with 40 CFR pt. 63, subp. SS, records of the information specified in 40 CFR 63.998(c)(ii)(A) through (H), as indicated in a referencing subpart: (A) The date and time of completion of calibration and preventive maintenance of the CPMS. (B) The "as found" and "as left" CPMS readings, whenever an adjustment is made that affects the CPMS reading and a "no adjustment" statement otherwise. (C) The start time and duration or start and stop times of any periods when the CPMS is inoperative. (D) Records of the occurrence and duration of each start-up, shutdown, and malfunction of CPMS used to comply with this subpart during which excess emissions (as defined in a referencing subpart) occur. (E) For each start-up, shutdown, and malfunction during which excess emissions as defined in a referencing subpart occur, records whether the procedures specified in the source's start-up, shutdown, and malfunction plan were followed, and documentation of actions taken that are not consistent with the plan. These records may take the form of a "checklist," or other form of recordkeeping that confirms conformance with the start-up, shutdown, and malfunction plan for the event. (F) Records documenting each start-up, shutdown, and malfunction event.

SI Id	Sequence	Requirement
		(G) Records of CPMS start-up, shutdown, and malfunction event that specify that there were no excess emissions during the event, as applicable. (H) Records of the total duration of operating time. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.998(c), Minn. R. 7011.8070, Minn. R. 7011.8190] The Permittee must operate and maintain TREA 22 so that the monitored parameters defined as required in 40 CFR 63.985(c) remain within the ranges specified in the Notification of Compliance Status whenever emissions of regulated material are routed to the control device. [40 CFR 63.8000(c)(1), 40 CFR 63.982(c), 40 CFR 63.985(a), Minn. R. 7011.8070, Minn. R. 7011.8190]
35797		An Omega Resistance Temperature Detector (RTD) probe (part # PR-14L-3-100-1/4-9, or similar) will be the component used to measure temperature at the chiller return location. The temperature data will be recorded using a data acquisition and historian system. The RTDs and data acquisition and historian system is the continuous parametric monitoring system (CPMS) that will obtain and record temperature (i.e., the monitoring parameter) data at least once every 15 minutes. For the chiller return location, ethylene glycol temperature will be measured in line between the outlet of the shell side of the condenser and the chiller return. Preventative maintenance (PM) will be performed on the RTDs quarterly. At each PM, the RTD calibration will be verified. If the RTD is outside of 2.5 deg. C accuracy, the RTD will be replaced. The general monitoring system requirements defined in 40 CFR 63.981 and 63.996(c) will be followed, as applicable, including: -The monitors will be installed, calibrated, maintained, and operated in accordance with the manufacturer's specifications or other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately. -Maintain and operate the monitoring system in a manner with good air pollution control practices. -The site will repair/replace monitors to correct "routine" or otherwise predictable malfunctions. As needed, parts for routine repairs will be maintained on-site. -The monitoring system will be in continuous operation when emissions are being routed to the condenser except for system breakdowns, repairs, maintenance periods, instrument adjustments, or checks to maintain precision and accuracy, and calibration checks. [40 CFR 63.2, 40 CFR 63.8(f)(4)(i) and (ii), 40 CFR 63.981, 40 CFR 63.996(c), Minn. R. 7011.8070, Minn. R. 7011.8190]

SI Id	Sequence	Requirement
	35798	Continuous parametric (i.e., temperature) monitoring will be performed in accordance with applicable 40 CFR pt. 63, subp. HHHHH and 40 CFR pt. 63, subp. SS requirements. As defined in 40 CFR 63.981, continuous record means documentation, either in hard copy or computer readable form, of data values measured at least once every 15 minutes and recorded at the frequency specified in 40 CFR 63.998(b). Data handling requirements defined in 40 CFR 63.998(b) will be followed, as applicable, including: -Maintain a record of values measured at least once every 15 minutes or maintain each measured value for systems which collect data more frequently than once every 15 minutes. -Maintain a record of block average values for 15-minute or shorter periods calculated from all measured data values during each period or from at least one measured data value per minute if measured more frequently than once per minute. For automated monitoring systems, block hourly average values may be calculated from each 15-minute block average period or from at least one measured value per minute if measured more frequently than once per minute, and discard all but the most recent three valid hours of continuous (15-minute or shorter) records, if the hourly averages do not exclude periods of monitoring system breakdown or malfunction. Monitoring data recorded during the following periods must be excluded: -Monitoring system breakdowns, repairs, preventive maintenance, calibration checks, and zero (low-level) and high-level adjustments. -Periods of non-operation of the process unit (or portion thereof), resulting in cessation of the emissions to which the monitoring applies Data from startup, shutdown, and malfunction is not excluded from monitoring system daily averages for 40 CFR pt. 63, subp. HHHHH sources per 40 CFR 63.8000(d)(6). [40 CFR 63.2, 40 CFR 63.8(f)(4)(i) and (ii), 40 CFR 63.981, 40 CFR 63.998(b), Minn. R. 7011.8070, Minn. R. 7011.8190]
	35799	The site will calculate daily average temperature(s), in units of deg. C, which is consistent with the 40 CFR pt. 63, subp. HHHHH required averaging period. Records of daily averages for each operating day will be maintained for a minimum of five (5) years. The daily average must be calculated as the average of all values for the monitored parameter recorded during the operating day (40 CFR 63.998(b)). Recordkeeping requirements defined in 40 CFR 63.998(c) will followed, as applicable, including: -Maintain a record of the procedure used for calibrating the monitoring system (required to calibrate in accordance with manufacturer's specifications or other adequate, written procedures). -Record the date and time of completion of calibration and preventative maintenance of the monitoring system. Furthermore, record the results of each calibration check and all maintenance performed on the monitoring system. (40 CFR 63.8000(d)(5)(i)) -The "as found" and "as left" monitoring system readings, whenever an adjustment is made that affects the monitoring system reading and a "no adjustment" statement otherwise. -The start time and duration or start and stop times of any periods when the monitoring system is inoperative. -Records of the occurrence and duration of each start-up, shutdown, and malfunction of monitoring system used to comply with 40 CFR pt. 63, subp. HHHHH during which excess emissions occur. -Records of the total duration of CPMS operating time. [40 CFR 63.2, 40 CFR 63.8(f)(4)(i) and (ii), 40 CFR 63.8000(d)(5)(i), 40 CFR 63.998(b), Minn. R. 7011.8070, Minn. R. 7011.8190]
TREA 24	4	The Permittee must operate and maintain control equipment such that it achieves a control efficiency (the product of the capture efficiency and collection efficiency or the product of capture efficiency and destruction efficiency) for Volatile Organic Compounds $\geq$ 96 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	8	Temperature $\geq$ 1,350 degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet, unless a new limit is required to be set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum is required to be set it will be based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new limit must be implemented upon receipt of the follow up compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. If the 3-hour rolling average temperature is below the minimum temperature limit, the VOC emitted during that time must be considered uncontrolled until the average temperature is above the minimum temperature limit. This must be reported as a deviation. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	7000	Oven Pressure Differential $\leq$ -0.007 inches of water column, 3-hour rolling average, measured in the first oven zone. [40 CFR 64.3(a), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16440	The Permittee shall continuously record the destruction device combustion temperature during coating operations. The Permittee shall record all 3-hour periods (during actual coating operations) during which the average temperature of the device is more than 28 degrees C (50 degrees F) below the average temperature of the device during the most recent performance test complying with 40 CFR 60.442(a)(2). [40 CFR 60.443(e), Minn. R. 7011.2560] The Permittee shall install, calibrate, maintain, and operate a monitoring device which continuously indicates and records the temperature of the solvent destruction device's exhaust gases. The monitoring device shall have an accuracy of the greater of +/- 0.75 percent of the temperature being measured expressed in degrees Celsius or +/- 2.5 degrees C. [40 CFR 60.445(e), Minn. R. 7011.2560]
	16445	Capture system monitoring. The Permittee must develop and maintain a site-specific monitoring plan containing the information specified below for the capture system. If the Permittee wishes to take credit for operation of TREA 24 or is complying with the emission standards in 40 CFR 63.3320 through the use of a capture system and control device for one or more web coating lines, the Permittee must monitor the capture system in accordance with 40 CFR 63.3350(f)(3). The Permittee must make the monitoring plan available for inspection by the permitting authority upon request. (1) The monitoring plan must: (i) Identify the operating parameter to be monitored to ensure that the capture efficiency determined during the initial compliance test is maintained; and (ii) Explain why this parameter is appropriate for demonstrating ongoing compliance; and (iii) Identify the specific monitoring procedures. (2) The monitoring plan must specify the operating parameter value or range of values that demonstrate compliance with the emission standards in 40 CFR 63.3320. The specified operating parameter value or range of values must represent the conditions present when the capture system is being properly operated and maintained. (3) The Permittee must conduct all capture system monitoring in accordance with the plan. (4) 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, and the control efficiency of TREA 24. (5) The Permittee must review and update the capture system monitoring plan at least annually. [40 CFR 63.3350(f), Minn. R. 7011.7385, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) & Minn. R. 7007.3000]
	16450	The Permittee is required to operate this control equipment when applying VOC based solvent coatings at COMG 34. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000] Low VOC based or water based coatings (as defined herein) may be run without control. Coating solutions are considered low VOC or water based when the VOC content is less than 4% by weight. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	16470	The Permittee shall record all three-hour periods (during actual coating operations) during which the average temporary total enclosure monitoring device readings vary by five percent or more from the average value measured during the most recent performance test that demonstrated compliance. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	16990	Monitoring of Operation of Temperature Recorder: The Permittee shall install, maintain and operate an alarm to indicate when the temperature measurement and recording system is not operating. [Minn. R. 7007.0800, subps. 4-5]
	16995	When TREA 24 is used to comply with 40 CFR pt. 63, subp. JJJJ, the Permittee must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in 40 CFR 63.3350(e)(10)(iv)(A), (B), (C), (D), (E), or (F) (listed below). The Permittee shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR pt. 63, subp. JJJJ, to be made available for inspection, upon request, by the Administrator: (A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater. (B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual. (C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple. (D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation. (E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers. (F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure. [40 CFR 63.3350(e)(10)(iv), Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4-5, Minn. R. 7011.7385] The Permittee must vent emissions from EQUIs 202, 203, 208, and 209 to TREA 24 whenever EQUI 202, 203, 208, or 209 operates, and operate and maintain TREA 24 at all times that any emissions are vented to TREA 24. The Permittee must document periods of non-operation of the control equipment TREA 24 whenever EQUI 202, 203, 208, or 209 is operating. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	17000	If the Permittee replaces TREA 24, the replacement control must meet or exceed the control efficiency requirements of TREA 24 as well as comply with all other requirements of TREA 24. Prior to making such a change, the Permittee must apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee must submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	17020	The Permittee must operate and maintain the thermal oxidizer in accordance with the Operation and Maintenance (O & M) Plan. The Permittee must keep copies of the O & M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]

SI Id	Sequence	Requirement
	17030	For periods when the thermal oxidizer is operated above the minimum combustion chamber temperature, the Permittee must use either one of the following when completing calculations as required elsewhere in this permit: a. The control efficiency limit specified in this permit for this equipment (96%); or b. The control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]
	17050	Monitoring Equipment: The Permittee shall install and maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required. [40 CFR 64.7(b), Minn. R. 7017.0200] Daily Monitoring: The Permittee shall comply with one of the following options: 1) The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written or electronic record of the daily verifications; or 2) Interlock equipment with the temperature monitor and recording device so that the equipment will shut down if the temperature monitor and/or recording device is not operating. [40 CFR 64.3(b), Minn. R. 7017.0200] Temperature Monitoring: The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the combustion chamber temperature of the thermal oxidizer. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 1 degrees Celsius. The recording device shall also calculate the three-hour rolling average combustion chamber temperature. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. [40 CFR 60.443(e), 40 CFR 60.445(e), 40 CFR 63.3350(e)(9), 40 CFR 64.3(b)(4)(ii) and Minn. R. 7017.0200, Minn. R. 7007.0800, subp. 4 and 5, Minn. R. 7011.2560]
	17060	The Permittee shall maintain a continuous hard copy readout, electronic, or computer disk file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber. [40 CFR 60.445(e), 40 CFR 64.9(b), Minn. R. 7011.2560, Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000] Annual Calibration or Replacement: The Permittee shall calibrate or replace the temperature monitor at least once every 12 months and shall maintain a written record of the calibration or replacement and any resulting action. [40 CFR 64.3, Minn. R. 7017.0200]
	17070	Oven Pressure Differential Monitoring: The Permittee shall maintain and operate a pressure differential monitoring device that continuously indicates and records the oven pressure differential in the first zone for each oven venting to TREA 24. The monitoring device shall have an accuracy +/- 0.75 percent of the span. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. The Permittee shall record all 3-hour periods (during actual coating operations) when the average pressure differential is greater than -0.007 inches of water column. [40 CFR 64.3(b)(4)(ii), Minn. R. 7007.0800, subp. 4, Minn. R. 7017.0200]
	17080	Quarterly Inspections: At least once per calendar quarter or more frequently as required by the manufacturing specification, the Permittee must inspect components that are not subject to wear including structural components, housings, ducts, and hoods. [40 CFR 64.3, Minn. R. 7017.0200]
	17100	Semiannual Inspections: At least once each calendar half-year or more frequently as required by the manufacturer specification, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written or electronic record of the inspection and any corrective actions taken resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200]

SI Id	Sequence	Requirement
	17105	Annual Inspection: At least once per calendar year, the Permittee shall conduct an internal inspection of the control device that includes all operating systems of the control device. The Permittee shall maintain a written record of the inspection and any action resulting from the inspection. [40 CFR 64.3, Minn. R. 7017.0200]
	20080	Corrective Actions: If the temperature is below the minimum specified by this permit or if the thermal oxidizer or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the thermal oxidizer. The Permittee shall keep a record of the type and date of any corrective action taken. [40 CFR 64.7(d), Minn. R. 7017.0200]
	35750	As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200] Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing temperature limit, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	35760	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	35771	Volatile Organic Compounds: The Permittee shall conduct a performance test due before 04/23/2029 and every 60 months thereafter to measure VOC control efficiency. The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 25A, or other method approved by MPCA in the performance test plan approval. Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a follow up compliance letter. Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. The Permittee must maintain a temporary total enclosure meeting the following criteria to determine the capture efficiency during testing: - Any natural draft opening (NDO) shall be at least four equivalent diameters from each VOC emitting point. - The total area of all NDOs shall not exceed five percent of the surface area of the enclosure's four walls, floor, & ceiling. - The average face velocity of air through all NDOs shall be at least 200 ft/min. The direction of air through all NDOs shall be into the enclosure. - All access doors & windows not included as NDOs & not included in the calculation of face velocities shall be closed during normal operation of the process. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]

Attachment 2 – 3M February 4, 2026 email to the MPCA

From: [Tara Oberg](#)
To: [Provow, Ross \(MPCA\)](#)
Cc: [Behrendt, Andrea \(MPCA\)](#)
Subject: RE: AI 4053, 3M Hutchinson, Notice of Compliance, February 3, 2026
Date: Wednesday, February 4, 2026 6:53:59 AM
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image008.png](#)
[image009.png](#)

This message may be from an external email source.

Do not select links or open attachments unless verified. Report all suspicious emails to Minnesota IT Services Security Operations Center.

Thank you for the information, Ross.

Andrea, I reviewed our most recent performance test reports submitted to the MPCA. The temperatures below are the average temps from those tests.

TREA 6 5.53.1 Temperature $\geq$ ~~1,576~~ **1,581** degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet

TREA 8 5.54.2 Temperature $\geq$ ~~1,641~~ **1,518** degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet

TREA 12 5.57.2 Temperature $\geq$ ~~1,561~~ **1,584** degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet

TREA 15 5.59.4 Temperature $\geq$ ~~1,561~~ **1,298** degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet

TREA 24 5.61.2 Temperature $\geq$ ~~1,349~~ **1,350** degrees Fahrenheit 3-hour rolling average at the combustion chamber outlet



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tloberg@mmm.com

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From: Provow, Ross (MPCA) <Ross.Provow@state.mn.us>

Sent: Tuesday, February 3, 2026 12:58 PM

To: Tara Oberg <tloberg@mmm.com>

Cc: Behrendt, Andrea (MPCA) <Andrea.Behrendt@state.mn.us>

Subject: [EXTERNAL] FW: AI 4053, 3M Hutchinson, Notice of Compliance, February 3, 2026

Hello Tara,

Attached is the updated NOC. When reviewing the conflicting RTO set points, we determined that the setpoints needed to be the average temperature conducted during the test. Let me know if you have any questions.

Ross Provow

Environmental Specialist | Industrial Division

Minnesota Pollution Control Agency

520 Lafayette Road N.

Saint Paul, MN, 55155-4194

O: 651-757-2700

Our mission is to protect and improve the environment and human health. |

pca.state.mn.us



From: Clarke, Roselyn K (MPCA) <roselyn.k.clarke@state.mn.us>

Sent: Tuesday, February 3, 2026 9:52 AM

To: Provow, Ross (MPCA) <Ross.Provow@state.mn.us>

Cc: Severin, Marc (MPCA) <marc.severin@state.mn.us>

Subject: AI 4053, 3M Hutchinson, Notice of Compliance, February 3, 2026

Hello,

You are listed as the originator or as a cc on the attached document, which will be emailed by the case lead.

Thank you,

Roselyn K. Clarke

Office & Administrative Specialist | Industrial Division

Pronouns: she/her/hers

Minnesota Pollution Control Agency

520 Lafayette Road N.
Saint Paul, MN 55155-4194
O: 651-757-2236

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Attachment 3 – MPCA Notices of Compliance

February 3, 2026

Sent via email

Tara Oberg, Environmental Engineer
3M Hutchinson
3M Center
Saint Paul, MN 55144-1001

RE: Notice of Compliance for the May 14, 2025, Volatile Organic Compounds Destruction Efficiency Performance Test of the Thermal Oxidizer (TREA 8) Pursuant to Air Emission Permit Number 08500049-003

Dear Tara Oberg:

The Minnesota Pollution Control Agency (MPCA) performance test staff reviewed the final test report for the performance test conducted at 3M Hutchinson located in Hutchinson, Minnesota. The test report was submitted on June 4, 2025.

Summary of performance test results

Emission unit tested	Limitation basis Pollutant and emission limit	Test result	Compliance status
TREA 8 (CE020)	Control efficiency for Volatile Organic Compounds: $\geq 95\%$ destruction efficiency (VOC DE) [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]	VOC DE: 98.7%	Compliant

The test was conducted while applying solvent at a rate of 214 pounds per hour and with TREA 8 operating at an average combustion chamber temperature of 1,518 degrees Fahrenheit. These parameters are within the ranges defined in the approved test plan.

In addition, please be advised of the following:

1. The following operating limit applies pursuant to Minn. R. 7017.2025, subp. 3. This limit supersedes any previous operating limit in the permit and does not serve to relax any other limit or requirement. This letter grants preliminary instruction to operate at the new rate. The limit is final upon issuance of a permit amendment incorporating the change.

Emission unit	Operating limit	Averaging method
TREA 8	Temperature: $\leq 1,518$ degrees Fahrenheit based on the average unit temperature achieved during test.	3-hour Rolling Average at the Combustion Chamber

The Regulated Party may not operate an emission unit at a less stringent rate than that listed in the table above unless it conducts a performance test at an alternate rate, MPCA performance test staff determines compliance at that rate for the emission unit, and a Notice of Compliance with approval to operate at the new rate is received.

Ongoing compliance with the operating limit will be determined using the same data acquisition and reduction as was used during the performance test. If an operating limit is exceeded, it must be reported in accordance with the deviation reporting requirements of Minn. R. 7007.0800, subp. 6(A).

2. The Emission Inventory rule, Minn. R. 7019.3000 to 7019.3100, requires the calculation of emissions based on an established hierarchy. In the absence of Continuous Emission Monitor data meeting the requirements of Minn. R. 7019.3040, a performance test must be used. When a performance test for particulate matter, carbon monoxide, nitrogen oxides, sulfur oxides, volatile organic compounds or lead is conducted and meets the requirements of Minn. R. 7017.2001 to 7017.2060, the results must be used to calculate emissions, unless specified otherwise by Minn. R. 7019.3000 to 7019.3100. It is the Regulated Party's responsibility to ensure the results of performance tests are accounted for in their annual emission inventory submittal. Note that the final decision to approve the emission factor for any given inventory year will be made by the MPCA Emission Inventory Coordinator.

If you have questions or comments regarding the content of this letter, please contact me at 651-757-2700.

Sincerely,

Ross Provow

This document has been electronically signed.

Ross Provow
Environmental Specialist
Industrial Division

RP:vs

cc: Andrea Walkush, MPCA
Marc Severin, MPCA
Activity ID REP20250001 @ 4053

July 1, 2024

Stephanie James, Environmental Engineering Specialist
3M Hutchinson
3m Center B224 5w 03
Saint Paul, MN 55144

RE: Notice of Compliance for the April 23, 2024 Volatile Organic Compounds Performance Test of the Thermal Oxidizer Pursuant to Air Emission Permit Number 08500049

Dear Stephanie James:

The Minnesota Pollution Control Agency (MPCA) performance test staff reviewed the final test report for the performance test conducted at 3M Hutchinson located in Hutchinson, Minnesota. The test report was submitted May 21, 2024.

Summary of performance test results

Emission unit tested	Limitation basis Pollutant and emission limit	Test result	Compliance status
Thermal Oxidizer TREA 7	Volatile Organic Compounds (VOC): Destruction Efficiency	VOC DE: 98.1%	Verified
26 Coater	VOC Capture Efficiency (Verified June 27, 2017)	CE: 99.99%	Verified
27 Coater	VOC Capture Efficiency (Verified June 28, 2017)	CE: 99.99%	Verified
Thermal Oxidizer TREA 7 CE019	VOC: $\geq 96\%$ control efficiency [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2) and Minn. R. 7007.3000]	VOC: 98.1%	Compliant

The test was conducted while operating 26 Coater at an average rate of 25 pounds per hour (lb/hr) and 27 Coater at an average rate of 107 (lb/hr). The Thermal Oxidizer operating at an average temperature of 1,350 degrees Fahrenheit. These parameters are within the ranges defined in the approved test plan.

In addition, please be advised of the following:

The Emission Inventory rule, Minn. R. 7019.3000 to 7019.3100, requires the calculation of emissions based on an established hierarchy. In the absence of Continuous Emission Monitor data meeting the requirements of Minn. R. 7019.3040, a performance test must be used. When a performance test for particulate matter, carbon monoxide, nitrogen oxides, sulfur oxides, volatile organic compounds or lead is conducted and meets the requirements of Minn. R. 7017.2001 to 7017.2060, the results must be used to calculate emissions, unless specified otherwise by Minn. R. 7019.3000 to 7019.3100. It is the Regulated Party's responsibility to ensure the results of performance tests are accounted for in their annual emission inventory submittal. Note that the final decision to approve the emission factor for any given inventory year will be made by the MPCA Emission Inventory Coordinator.

Stephanie James

Page 2

July 1, 2024

If you have questions or comments regarding the content of this letter, please contact me at 651-763-2716.

Sincerely,

Marc Severin

This document has been electronically signed.

Marc Severin
Environmental Specialist
Industrial Division

MAS:tw

Activity ID REP20240001 @ 4053