

SC DEPARTMENT of ENVIRONMENTAL SERVICES

Bureau of Air Quality Title V Operating Permit

Alpek Polyester USA, LLC 570 K Avenue Gaston, South Carolina 29053-8256 Calhoun County

In accordance with the provisions of the Pollution Control Act, Sections 48-1-50(5), 48-1-100(A), and 48-1-110(a), the 1976 Code of Laws of South Carolina, as amended, and South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards, the Bureau of Air Quality authorizes the operation of this facility and the equipment specified herein in accordance with valid construction permits, and the plans, specifications, and other information submitted in the Title V permit application received on December 13, 2016, as amended. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

The operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Permit Number: Agency Air Number:	TV-0460-0029 v1.2 0460-0029
Issue Date: Effective Date: Expiration Date:	December 6, 2021 January 1, 2022 December 31, 2026
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Steve McCaslin, P. E., Dir	ector
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	RECORD OF REVISIONS			
Date	Туре	Description of Changes		
10-11-2023	AA	Administrative Amendment to change the company name from DAK Americas, LLC to Alpek Polyester USA, LLC.		
	MM	Minor Modification to update the Standard No. 4 maximum process weight rate in permit condition C.14 for ID 27 -Solid Stating IV (Building 17L11) from 20.2 tons/hr to 23.0 tons/hr. This modification is also a re-submittal of the form 2940 which was submitted in the 2020 Title V application, with updated process weight rates for Solid Stating IV (Equipment ID's 3202 and 3203, 3206 and 3207 – equipment information) to specify a maximum design capacity of 403.0 million Ib/yr. Previously the forms specified 385.4 million Ib/yr. No change in emissions will occur. Update permit cover page to reflect Agency name change to South Carolina Department of Environmental Services.		
AA	Administ	rative Amendment		

MM Minor Modification

SM Significant Modification

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A. EMISSION UNIT DESCRIPTION

Emission Unit ID	Emission Unit Description	
01	VOID - 270.8 million BTU/hr Boiler #1	
02	VOID - 386 million BTU/hr Boiler #3	
03	VOID - 386 million BTU/hr Boiler #4	
04	VOID - 386 million BTU/hr Boiler #5	
05	VOID - Boilers #3 - #5 Ash Handling System	
06	VOID - 18 million BTU/hr Heat Transfer Medium (HTM) Heater #1	
07	VOID - 18 million BTU/hr Heat Transfer Medium (HTM) Heater #2	
08	VOID - 88.2 million BTU/hr Heat Transfer Medium (HTM) Heater #3	
09	VOID - 88.2 million BTU/hr Heat Transfer Medium (HTM) Heater #4	
10	VOID - 88.2 million BTU/hr Heat Transfer Medium (HTM) Heater #5	
11	VOID - 17.5 million BTU/hr Heat Transfer Medium (HTM) Heater #6	
12	VOID - 17.5 million BTU/hr Heat Transfer Medium (HTM) Heater #7	
13	VOID - 17.5 million BTU/hr Heat Transfer Medium (HTM) Heater #8	
14	VOID - 33.3 million BTU/hr Heat Transfer Medium (HTM) Heater #9	
15	VOID - 28 million BTU/hr Combustor (17N06) w/ Staged Combustion for NOx	
16	VOID - 11.8 million BTU/hr Stand by Generator (16M05) and Diesel Driven River Water Pump (8001)	
17	VOID - Lime Feed System (18M03)	
18	CTA/PTA (17M03)	
19	VOID - DMT (17M01) Production Process	
20	Filtrate Purge Process (18M04)	
21	VOID - Polymer I Production Process	
22	VOID - Polymer II (15L07)	
23	Polymer II (17K01)	
24	Solid Stating I (17L06)	
25	Solid Stating II (17K02)	
26	Solid Stating (17L09)	
27	Solid Stating IV (17L11)	
28	VOID - Specialty Plastics Department (13L04)	
29	Raw Material Unloading Station (18LYRD)	
30	Plant Miscellaneous	
31	VOID - HTM Heater System (Heaters #10 and #11)	
32	IntegRex® (18K02) Process	
33	Combustion Sources	

B. EQUIPMENT AND CONTROL DEVICE(S)

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B.1 EQUIPMENT FOR EMISSION UNIT 18 – CTA/PTA (17M03)

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
	PTA Vacuum System/Seal Pot MP80 includes			
26A	SCR26A- Seal Pot Scrubber MP-71 (Recovery Device)	10/21/86	SCR26A	17M03A
26A2	PTA Vacuum System/Seal Pot UP-C-80 includes SCR26A2- Seal Pot Scrubber UP-C-71 (Recovery Device)	2007	SCR26A2	17M03A2
26B	CTA Material Recovery Distillation System. Columns GB01, GA01, GC01 includes SCR26B - GG-01 Low Boiler Vent Scrubber (Recovery Device)	9/74;10/8/96	None	17M03B
26C1	Filtrate Storage Tank (JA50), NSPS Tank includes SCR26C- Scrubber JA-70 for Tanks (Recovery Device) (1986)	9/74;2000	None	17M03C
26C2	Filtrate Storage Tank (JA51, JA52), NSPS tanks includes SCR26C- Scrubber JA-70 for Tanks (Recovery Device) (1986)	9/74;1998	None	17M03C
26C3	Filtrate Storage Tank (JA64), NSPS tank includes SCR26C- Scrubber JA-70 for Tanks (Recovery Device) (1988)	1997	None	17M03C
26C4	Acetic Acid Storage Tank (JA53, JA54, JA57, JA58) includes SCR26C- Scrubber JA-70 for Tanks (Recovery Device) (1988)	9/74	None	17M03C
26C5	Acetic Acid Storage Tank (IP50) includes SCR26C- Scrubber JA-70 for Tanks (Recovery Device) (1988)	9/74	None	17M03C
26C6	Catalyst Makeup Storage Tank (JA63) includes SCR26C- Scrubber JA-70 for Tanks (Recovery Device) (1988)	9/74; 1994	None	17M03C
26D	Methyl Acetate Storage Tank (JA56)	9/74	None	17M03D
26E	Azeo Decanter JA55	9/74	None	17M03E
26F	CTA/PTA Product Storage Silos #1, #3 thru #6, each is equipped w/ a Dust Collector Convey Gas Exhaust Point (Silos DA-01, 03, 04, 05, and 06)	9/74; 2012	DC26F	17M03F
26G	CTA/PTA Vacuum Cooler/Filter/Dryer Lines - Convey Gas Exhaust Point includes Cooler/Filter/Dryer Scrubber FJ-80 (Recovery Device) and Cooler/Filter/Dryer Scrubber FI-80 (Recovery Device)	9/74	None	17M03G
26H	p-Xylene Storage Tanks (JB50, JB51, JB52)	9/74	None	17M03H
261	Propyl Acetate Storage Tank (JD50)	9/74	None	17M03I
26K	Main Vent for CTA Oxidation & Recovery Systems; Maintenance for Vents S, U and Z; and Convey Gas	9/74	None	17M03K

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B.1 EQUIPMENT FOR EMISSION UNIT 18 – CTA/PTA (17M03)

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
	Main Header for all CTA Oxidation & Recovery			
	Systems. Oxidizers FA-01, FB-01, FC-01, FD-01, FE-			
	01, FF-01, Water removal columns FA-02, FB-02,			
	Absorbers FG-02, FG-01, FH-01, Post oxidizer PX-C-			
	01, Digesters MP-01, 02, 03, UP-C-01, 02, 03			
26L	Methyl Acetate Loading Tank (LD51)	9/74; 1982	None	17M03L
260	Piping Equipment (Fugitives from Equipment Leaks)	9/74	None	17M03O
26P	CTA/PTA Filter/Dryer Lines -Maintenance Vent, includes SCR26P Filter/Dryer Lines Scrubber (Recovery Device) -(CTA/PTA)-Maintenance Vent (FJ-81)	11/91	None	17M03P
26R	Unloading Station (Rail Car)	5/17/93	None	17M03R
265	CTA Oxidation & Recovery System (Absorber FG02)	1986; 2006	PCO26S	17M03S
26U	CTA Oxidation & Recovery Systems (Absorber FG01, MP70, UP-C-70)	9/74; 1988; 2007	PCO26U	17M03U
26Z	CTA Oxidation & Recovery Systems (Absorber FH01)	9/74; 2006	PCO26Z	17M03Z
	Candle Filter System Filter IP-Y-09A, IP-Y-10B –			
26AA	includes Candle Filter Scrubber IP-C-32 (SCR26AA	2007	SCR26A	17M03A
	(Recovery Device))			
26AC	Off-Class Loading	2007	DC26AC	17M03AC

B.2 CONTROL DEVICE(S) FOR EMISSION UNIT 18 – CTA/PTA (17M03)

Control Device ID	Control Device Description	Installation/ Modification Date	Pollutant(s) Controlled
DC26F	5 Silo Dust Collectors	1974	PM/PM ₁₀ /PM _{2.5}
PCO26S	Regenerative Thermal Oxidizer LA35 (CTA/PTA), Adwest Retox 30.0 RTO95	2003	CO/VOCs
PCO26U	Regenerative Thermal Oxidizer FG35 (CTA/PTA), Adwest Retox 30.0 RTO95	2003	CO/VOCs
PCO26Z	Regenerative Thermal Oxidizer FH35 (CTA/PTA), Adwest Retox 30.0 RTO95	2001	CO/VOCs
SCR26A	Relief Vent Scrubber MP-90	2007	VOCs
SCR26A2	Relief Vent Scrubber UP-90	2007	VOCs
DC26AC	Silo Dust Collector DA-Y50	2007	PM/PM ₁₀ /PM _{2.5}

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B.3 EQUIPMENT FOR EMISSION UNIT 20 – Filtrate Purge Process (18M04)

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
30A1	Acetic Acid Storage Tank PA51	12/89; 2001	SCR30A	18M04A
30A2	Acetic Acid Storage Tank PA52	12/89; 2014	SCR30A	18M04A
30B	Filtrate Purge Recovery System: Vent Scrubber for Condenser PG-21. Feed to PG-21: Tanks PE-51, PB-01, PB-51 & PC-50; Condensers PB-23, PA-21, PC-21, Pf-21, PD-21; New Vent Condenser IP-E-23. Feed to IP-E-23: New Condenser IP-E-22, New Evaporator IP-C-01, New Reboiler IP-E-21 & New Seal Pot IP-C-80 including SCR30B- Process Vent Scrubber ABS30B, PG-01	12/89; 2007	None	18M04B
30C	Piping & Equipment (Fugitive Emissions)	12/89	None	18M04C

B.4 CONTROL DEVICE(S) FOR EMISSION UNIT 20 – Filtrate Purge Process (18M04)

Control	Control Device Description	Installation/	Pollutant(s)	
Device ID		Modification Date	Controlled	
SCR30A	Acetic Acid Storage Tank Scrubber PG-02	12/89	VOC	

B.5 EQUIPMENT FOR EMISSION UNIT 23 – Polymer II (17K01)

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
0501	Mix Storage Tank System (7P51)	11/86	None	17K0101
0502	Mixing Vessel 7P-52	11/86	CTX0527/ SCR0513	17K0127/ 17K0113
0503	Mix & Feed Storage Tanks (7K50, 7K51)	11/86	None	17K0103
0504	Mix & Feed Storage Tanks (7S50, 7S51)	11/86	None	17K0104
0505	Mix & Feed Storage Tanks (7W50, 7W51)	11/86	None	17K0105
0506	Mix & Feed Storage Tanks (7Z50, 7Z51)	11/86	None	17K0106
0507A	Immersion Vessel 7D50 (Seal Pot)	11/86	None	17K0107A
0507B	Immersion Vessel 7D51 (Seal Pot)	11/86	None	17K0107A
0508	Spent EG Tank 7D-53	11/86	CTX0527/ SCR0513	17K0127/ 17K0113
0509	Immersion Vessel 7E50A (Seal Pot)	11/86	None	17K0109
0510	Immersion Vessel 7E51A (Seal Pot)	11/86	None	17K0110
0511	Immersion Vessel 7E50C (Seal Pot)	11/86	None	17K0111
0512	Immersion Vessel 7E51C (Seal Pot)	11/86	None	17K0112
0513	Vent Scrubber (2VG-31) Back-Up Control Device	1989	None	17K0113

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B.5 EQUIPMENT FOR EMISSION UNIT 23 – Polymer II (17K01)

Equipment	Equipment Description	Installation/	Control	Emission Point ID
0514	Feed Storage Tank 7406	11/86	None	17K0114
05154	Volatile Organic Liquid Feed Tank 7405	11/86	None	17K01154
0515A	Storage Tank IC51	12/2020	None	17K0115R
05156	Feed Storage Tank 7402	11/86	None	17K0115B
0510	Storage Tanks 7A03 & 7A04, Condenser 7A20	11/00	None	47/0447
0517	(Recovery Device)	11/86	None	17K0117
0519	Pellet Dryer 7F03A (Water Only)	11/86	None	17K0119
0520	Pellet Dryer 7F03B (Water Only)	11/86	None	17K0120
0521	Pellet Dryer 7F03C (Water Only)	11/86	None	17K0121
0522	Pellet Dryer 7F03D (Water Only)	11/86	None	17K0122
0523	Collection Storage Tank 7H51	11/86	None	17K0123
0524	Piping and Equipment (Fugitive Emission)	11/86	None	17K0124
0525	Additive Mixing	11/86	None	17K0125
0526	Additive Mixing	11/86	None	17K0126
0527	Boactor System	11/06	CTX0527/	17K0127/
0527		11/00	SCR0513	17K0113
	Water Column & Primary Condenser	11/86	CTX0527/	17K0127/
7101,7121		11700	SCR0513	17K0113
71.20	Process Column Condenser	11/86	CTX0527/	17K0127/
, 220		11700	SCR0513	17K0113
71.50	Process Column Reflux Drum	11/86	CTX0527/	17K0127/
, 230			SCR0513	17K0113
7M03	Refining Column	11/86	CTX0527/	17K0127/
			SCR0513	17K0113
7M21	LB Column Condenser	11/86	CTX0527/	17K0127/
			SCR0513	17K0113
7M50	LB Column Reflux Drum	11/86	CTX0527/	17K0127/
			SCR0513	1/K0113
7M55	LB Column Decanter	11/86	C1X05277	1/K012//
			SCR0513	17K0113
7D60 A/B	Pre-Polymer Vacuum System	11/86	CIX052//	1/K012//
				17/(0113
7E61 A/B	Polymer Vacuum System	11/86		17K012//
				17K0113
7E61 C/D	Pre-Polymer Vacuum System	11/86		17KU12//
	,,		SCRU313	1/10113

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B.6 CONTROL DEVICE(S) FOR EMISSION UNIT 23 – Polymer II (17K01)

Control Device ID	Control Device Description	Installation/ Modification Date	Pollutant(s) Controlled
SCR0513	Vent Scrubber 2VG31	1989	Acetaldehyde, Methanol
CTX0527	Catalytic Oxidizer 7L-35	7/23/97	Acetaldehyde, Ethylene Glycol, Methanol (Including B-17K02 SS II stream)

B.7 EQUIPMENT FOR EMISSION UNIT 24 – Solid Stating I (17L06)

Equipment	Equipment Description	Installation/	Control	Emission
ID	Equipment Description	Modification Date	Device ID	Point ID
2203	Product Collection Bin System	9/15/81	None	17L0603C
2205	Product Bin Elutriator	9/15/81	DC2205	17L0605B
2206	Product Bin Dust Box	9/15/81	None	17L0606H
2208	Precursor Silo Vent Collection System (12 vents, 6	9/15/81	DC2208	17L0608A
	dust collection boxes, 6 dust collector vents)			

B.8 CONTROL DEVICE(S) FOR EMISSION UNIT 24 – Solid Stating I (17L06)

Control Device ID	Control Device Description	Installation/ Modification Date	Pollutant(s) Controlled
DC2205	Dust Collector (Solid Stating I)	9/15/81	PM/PM ₁₀ /PM _{2.5}
DC2208	6 Dust Collectors	9/15/81	PM/PM ₁₀ /PM _{2.5}

B.9 EQUIPMENT FOR EMISSION UNIT 25 – Solid Stating II (17K02)

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
200A	Railcar Unloading System 39G50/DC200A	07/12/16	None	18LYRD-02
201A	Raw Material Storage 14G30	12/01/86	DC201A	17K021A
201C	Raw Material Storage 16G30	12/01/86	DC201C	17K021C
202A	Steam Cycle LN29, Vent 2A	12/01/86; 5/14/08	SCR202A	17K022A
202B	Heat Cycle LN36, Vent 2B	12/01/86	SCR202B	17K022B
20227	Scrubber LN35 or CATOX 7L-35, Vent 27	12/01/86; 5/14/08	CTX0527 or SCR202A	17K0227 17K022A
203B	Final Product Storage Silo DG03	12/01/86	DC203B	17K023B
203E	DG-06 Elutriator	12/01/86	DC203E	17K023E
203F	DG-06 Deduster	07/12/16	DC203F	17K023F
2004	Polymer Dust Collection Boxes	12/01/86	None	17K0204

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B.9 EQUIPMENT FOR EMISSION UNIT 25 – Solid Stating II (17K02)

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
	(Total of 13 vents, vents 4A-4H, 4J-4N)			
2005	Product Bins (Total of 10 vents, vents 5A, 5B, 5E- 5L)	12/01/86	None	17K0205
2006	Piping and Equipment	12/01/86	None	17K0206

B.10 CONTROL DEVICE(S) FOR EMISSION UNIT 25 – Solid Stating II (17K02)

Control Device ID	Control Device Description	Installation/ Modification Date	Pollutant(s) Controlled
CTX0527	Catalytic Oxidizer 7L-35- (Solid Stating II), CSM Environmental Systems	7/23/97	Acetaldehyde
DC201A	Storage Silo Dust Collector (14G30)	12/01/86	PM/PM ₁₀ /PM _{2.5}
DC201C	Feed Bin Dust Collector (16G30)	12/01/86	PM/PM ₁₀ /PM _{2.5}
SCR202A	LN-29 Steam Cycle Scrubber	12/01/86	VOCs
SCR202B	LN-36 Heat Cycle Scrubber	12/01/86	VOCs
DC203B	DG-03 Dust Collector (20G30)	12/01/86	PM/PM ₁₀ /PM _{2.5}
DC203E	DG-06 Elutriator Dust Collector (DG-37)	12/01/86	PM/PM ₁₀ /PM _{2.5}
DC203F	DG-06 Deduster Dust Collector (DG-39)	07/12/16	PM/PM ₁₀ /PM _{2.5}

B.11 EQUIPMENT FOR EMISSION UNIT 26 – Solid Stating (17L09)

Equipment	Equipment Description	Installation/	Control	Emission
ID	Equipment Description	Modification Date	Device ID	Point ID
2428	No. 28 Product Transfer System	E/10/90	DC2428	17L0928
2459	No. 28 Product fransfer System	5/19/69	None	17L0959
2450	No. 29 Product Transfer System		DC2450	17L0950
2453		2001	DC2453	17L0953
2456		2001	DC2456	17L0956
2460			None	17L0960
2451			DC2451	17L0951
2454	No. 24 Product Transfer System	2001	DC2454	17L0954
2457	No. 34 Froduct fransfer System		DC2457	17L0957
2461			None	17L0961
2452			DC2452	17L0952
2455	No. 25 Droduct Transfer System	2001	DC2455	17L0955
2458	NO. 35 Product Transfer System	2001	DC2458	17L0958
2462			None	17L0962

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B.12 CONTROL DEVICE(S) FOR EMISSION UNIT 26 – Solid Stating (17L09)

Control Device ID	Control Device Description	Installation/ Modification Date	Pollutant(s) Controlled
DC2428	2428 Dust Collectors (21G33)	5/19/89	PM/PM ₁₀ /PM _{2.5}
DC2450	2450 Dust Collector (29G30)		
DC2453	2453 Dust Collector (29G32)	2001	PM/PM ₁₀ /PM _{2.5}
DC2456	2456 Dust Collector (DG08)		
DC2451	2451 Dust Collector (34G30)		
DC2454	2454 Dust Collector (34G32)	2001	PM/PM ₁₀ /PM _{2.5}
DC2457	2457 Dust Collector (DL5)		
DC2452	2452 Dust Collector (35G30)		
DC2455	2450 Dust Collector (35G30)	2001	PM/PM ₁₀ /PM _{2.5}
DC2458	2450 Dust Collector (DL6)		

B.13 EQUIPMENT FOR EMISSION UNIT 27 – Solid Stating IV (17L11)

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
3201	Two Raw Material Transfer Systems	7/5/95	DC3201	17L1101
3206	Two Product Collection Systems	7/5/05	Nono	17L1106
3207		775755	None	17L1107
3208				17L1108
3209	Four Product Collection Bin Systems	7/5/95	Nono	17L1109
3210			None	17L1110
3211				17L1111
3212	Six Product Storage Silos [each w/dust collector (Vents 12C-12H)]	7/5/95	DC3212	17L1112
3214	Dust Collection Boxes (Total of 13 vents, vents 14- 26)	7/5/95	None	17L1114
3229	Two Systems (2 attached duct collectors)	7/5/05	DC3229	17L1129
3230	Two systems (2 attached dust collectors)	66/6/1	DC3230	17L1130
3231	Piping and Equipment	7/5/95	None	17L1131

B.14 CONTROL DEVICE(S) FOR EMISSION UNIT 27 – Solid Stating IV (17L11)

Control Device ID	Control Device Description	Installation/ Modification Date	Pollutant(s) Controlled
DC3201	Dust Collectors	7/5/95	PM/PM ₁₀ /PM _{2.5}
DC3212	6 attached Dust Collectors	7/5/95	PM/PM ₁₀ /PM _{2.5}
DC3229	2 attached Dust Collectors	7/5/05	PM/PM ₁₀ /PM _{2.5}
DC3230	2 attached Dust Collectors		

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B.15 EQUIPMENT FOR EMISSION UNIT 29 – Raw Materials Unloading Station (18LYRD)

Equipment	Equipment Description	Installation/	Control	Emission
ID		Modification Date	Device ID	Point ID
3301	3 Raw Material Unloading Stations w/two or more unloading racks	1974	None	18LYRD01

B.16 EQUIPMENT FOR EMISSION UNIT 30 – Plant Miscellaneous

Equipment	Equipment Description	Installation/	Control	Emission
ID	Equipment Description	Modification Date	Device ID	Point ID
3401	Heat Transfer Fluid System	1967	None	Plant1
3403	Paved Roads	N/A	None	Plant3
3404	Unpaved Roads	N/A	None	Plant4
3406	Ash Landfill	1975	None	Plant6
3407	Industrial Wastewater Treatment Plant	1976	None	Plant7

B.17 EQUIPMENT FOR EMISSION UNIT 32 - IntegRex®

Equipment	Equipment Description	Installation/	Control	Emission	
ID	Equipment Description	Modification Date	Device ID	Point ID	
2242	Scrubber on Ethylene Glycol	6/1074.2009	SCR32A2/	18K02A2/	
3ZAZ	Condensate Tank EA-01	0/19/4, 2008	V1H-F-01	18K02K	
220	V1 Paste Mix Tank (V1B-C-33/V1B-C-54) includes	2005, 2008		191020	
520	V1B-C-33 (Scrubber-Recovery Device)	2005, 2008	DCVID-1-//	TORUZD	
220	V2 Paste Mix Tank (V2B-C-33/V2B-C-54) includes	2005, 2009		191020	
520	V2B-C-33 (Scrubber-Recovery Device)	2005, 2008	2005; 2008	DCV2D-1-77	TORUZC
חרכ	Catalyst Mix and Feed System (V1A-C-54/55, V1A-	2005, 2008	Nono	191020	
320	V-54, V1A-V-55)	2005, 2008	None	TORUZD	
32E	Toner Mix and Feed Tanks (V1A-C-50/51)	2005; 2008	None	18K02E	
32F	Toner Mix and Feed Tanks (V1A-C-52/53)	2005; 2008	None	18K02F	
32G	Catalyst Dispersion Tank System	2005; 2008	None	18K02G	
32H	Additive Dispersion Tank System	2005; 2008	None	18K02H	
321	V1 Immersion Tanks	2005; 2008	None	18K02I	
32J	V2 Immersion Tanks	2005; 2008	None	18K02J	
32K1	125.6 Million Btu/hr HTM Heater #12 (V1H-F-01)	2005; 2008	None	18K02K	
22/2	Dollat Draw (V1M C 01)	2005, 2009	V1H-F-01/	18K02K/	
32KZ	Pellet Dryer (VTM-C-01)	2005; 2008	PCO32U	18K02U	
22/2	Dellet Driver (V2M C 01)	2005, 2009	V1H-F-01/	18K02K/	
32K3	Pellet Dryer (V2IVI-C-UT)	2005; 2008	PCO32U	18K02U	
32L	V1 System (VIN-Y-31/B/C, V1N-Y-32/B/C, V1M-Y-	2005; 2008	None	18K02L	

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B.17 EQUIPMENT FOR EMISSION UNIT 32 – IntegRex®

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
	33/55/31) (Vents 1-2)			
32M	V2 System (V2N-Y-31/B/C, V2N-Y-32/B/C, V2M-Y- 33/55/31) (Vents 1-2)	2005; 2008	None	18K02M
32N	5 Product Silos (V1M-D-50/52/53/54 & 203D) (Vents 1-5)	2005; 2008	None	18K02N
320	3 Loading Cyclones	2005; 2008	None	18K02O
32P	Bulk Rail Loading Stations (Vents 1-3)	2005; 2008	None	18K02P
32Q	HTM Storage	2005; 2008	None	18K02Q
32R	Fugitives	2005; 2008	None	18K02R
325	PTA Railcar Unloading Station	2005; 2008	None	18K02S
32U1	EG Condensate Tank V1T-D-50	2005; 2008	PCO32U/ V1H-F-01	18K02U/ 18K02K
32U2	Water Column (V1L-C-01)	2005; 2008	PCO32U/ V1H-F-01	18K02U/ 18K02K
32U3	Water Column (V2L-C-01)	2005; 2008	PCO32U/ V1H-F-01	18K02U/ 18K02K
32U4	Separator Pot (V1E-C-51)	2005; 2008	PCO32U/ V1H-F-01	18K02U/ 18K02K
32U5	Separator Pot (V1E-C-52)	2005; 2008	PCO32U/ V1H-F-01	18K02U/ 18K02K
32U6	Separator Pot (V2E-C-51)	2005; 2008	PCO32U/ V1H-F-01	18K02U/ 18K02K
32U7	Separator Pot (V2E-C-52)	2005; 2008	PCO32U/ V1H-F-01	18K02U/ 18K02K
32U8	Common Spare Pot (V1E-C-53)	2005; 2008	PCO32U/ V1H-F-01	18K02U/ 18K02K

B.18 CONTROL DEVICE(S) FOR EMISSION UNIT 32 – IntegRex®

Control Device ID	Control Device Description	Installation/ Modification Date	Pollutant(s) Controlled
V1H-F-01	125.6 Million Btu/hr HTM Heater #12; Natural Gas Fired (Vent K)	2005; 2008	HAP, VOC
PCO32U	Regenerative Thermal Oxidizer (Vent U)	2008	HAP, VOC
SCR32A2	Scrubber	2008	HAP, VOC
DCV1B-Y-77	Dust Collector V1B-Y-77	2019	PM/PM ₁₀ /PM _{2.5}
DCV2B-Y-77	Dust Collector V2B-Y-77	2019	PM/PM ₁₀ /PM _{2.5}

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B.19 EQUIPMENT FOR EMISSION UNIT 33 – Combustion Sources

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
1101	88.2 million Btu/hr Heater #3, fired on Natural Gas only	8/74	None	16M1201
1201	88.2 million Btu/hr Heater #4, fired on Natural Gas only	8/74	None	16M1202
1001	88.2 million Btu/hr Heater #5, fired on Natural Gas only	8/74	None	16M1203
3101	33.3 million Btu/hr Heater #9, fired on Natural Gas or No. 2 Fuel Oil	08/94	None	16M2004
2801	Fluidized Bed Incinerator	6/14/89	SCR28A	17N06A
2802	Clay Storage Silo	6/14/89	DC28B	17N06B
2803	Lime Storage Silo	6/14/89	DC28C	17N06C
2804	Sand Storage Silo	6/14/89	DC28D	17N06D

B.20 CONTROL DEVICE(S) FOR EMISSION UNIT 33 – Combustion Sources

Control Device ID	Control Device Description	Installation/ Modification Date	Pollutant(s) Controlled
SCR28A	Caustic Scrubber System, Dorr-Oliver	6/14/89	PM, SO ₂ , Hydrogen
			Bromide
DC28B	Clay Silo Dust Collector	6/14/89	PM/PM ₁₀ /PM _{2.5}
DC28C	Lime Silo Dust Collector	6/14/89	PM/PM ₁₀ /PM _{2.5}
DC28D	Sand Silo Dust Collector	6/14/89	PM/PM ₁₀ /PM _{2.5}

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	Emission Unit ID: All
	Equipment ID: All
	Control Device ID: All
C.1	Equipment capacities provided under the Equipment Description column of the Equipment Tables
	above are not intended to be permit limits unless otherwise specified within the Table of Conditions
	for the particular equipment. However, this condition does not exempt the facility from the
	construction permitting process, from PSD review, nor from any other applicable requirements that
	must be addressed prior to increasing production rates.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	Emission Unit ID: All Equipment ID: All Control Device ID: All
C.2	(S.C. Regulation 61-62.1, Section II(J)(1)(g)) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least 5 years from the date the record was generated and shall be made available to a Department representative upon request.
C.3	Emission Unit ID: 18, 20, 23, 24, 25, 26, 27, 32, 33 Equipment ID: 26F, 26S, 26U, 26Z, 26AA, 26AC; 30A1, 30A2; 0527, 7L01, 7L21, 7L20, 0502, 0508, 7L50, 7M03, 7M21, 7M50, 7M55, 7D60 A/B, 7E61 A/B, 7E61 C/D; 2205, 2208; 200A, 201A, 201C, 202A, 20227, 202B, 203B, 203E, 203F; 2428. 2450, 2453, 2456, 2451, 2454, 2457, 2452, 2455, 2458; 3201, 3212, 3229, 3230; 32A2, 32K2, 32K3, 32U1 – 32U8; 2801, 2802, 2803, 2804 Control Device ID: DC26F, PCO26S, PCO26U, PCO26Z, SCR26A, SCR26A2, DC26AC; SCR30A; SCR0513, CTX0527; DC2205, DC2208; CTX0527, DC201A, DC201C, SCR202A, SCR202B, DC203B, DC203E, DC203F; DC2450, DC2453, DC2456, DC2451, DC2454, DC2457, DC2452, DC2455, DC2458; DC3201, DC3212, DC3229, DC3230; V1H-F-01, PCO32U, SCR32A2; SCR28A, DC28B, DC28C, DC28D The owner/operator shall inspect, calibrate, adjust, and maintain continuous monitoring systems, monitoring devices, and gauges in accordance with manufacturer's specifications or good engineering practices. The owner/operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel.
	(S.C. Regulation 61-62.1, Section II(J)(1)(d)) Sources required to have continuous emission monitors shall submit reports as specified in applicable parts of the permit, law, regulations, or standards.
C.4	Emission Unit ID: 18, 20, 23, 24, 25, 26, 27, 32, 33 Equipment ID: 26F, 26S, 26U, 26Z, 26AA, 26AC; 30A1, 30A2; 0527, 7L01, 7L21, 7L20, 0502, 0508, 7L50, 7M03, 7M21, 7M50, 7M55, 7D60 A/B, 7E61 A/B, 7E61 C/D; 2205, 2208; 200A, 201A, 201C, 202A, 20227, 202B, 203B, 203E, 203F; 2428. 2450, 2453, 2456, 2451, 2454, 2457, 2452, 2455, 2458; 3201, 3212, 3229, 3230; 32A2, 32K2, 32K3, 32U1 – 32U8; 2801, 2802, 2803, 2804 Control Device ID: DC26F, PC026S, PC026U, PC026Z, SCR26A, SCR26A2, DC26AC; SCR30A; SCR0513,

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	DC203F; DC2428, DC2450, DC2453, DC2456, DC2451, DC2454, DC2457, DC2452, DC2455, DC2458; DC3201, DC3212, DC3229, DC3230; V1H-F-01, PCO32U, SCR32A2; SCR28A, DC28B, DC28C, DC28D
	All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a letter shall be submitted to indicate such.
	Any alternative method for monitoring control device performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.
	Emission Unit ID: 33 Equipment ID: 1101, 1201, 1001, 3101
	(S.C. Regulation 61-62.5, Standard No. 5.2) Any existing source where a burner assembly is replaced with another burner assembly after June 25, 2004, regardless of size or age of the burner assembly to be replaced shall be replaced with a low NO _x burner assembly or equivalent technology, and shall achieve a 30 percent reduction from uncontrolled NO _x emission levels based upon manufacturer's specifications. An exemption from this requirement shall be granted when a single burner assembly is being replaced in an existing source with multiple burners due to non-routine maintenance. The replacement of individual components such as burner heads, nozzles, or windboxes does not trigger this requirement.
C.5	The owner or operator shall notify and register the burner assembly replacement with the Department, in writing, within 7 days of replacing the existing burner assembly. Notification will be provided on the Department's Low NO_x Burner Assembly Replacement Notification Form. Those affected sources that wish to receive an emission reduction credit for the control device will be required to submit a construction permit application. Those affected sources requesting an alternative control methodology must receive written approval prior to burner replacement.
	If the burner assembly is replaced as detailed above, the owner or operator shall perform tune-ups every twenty-four (24) months in accordance with manufacturer's specifications or with good engineering practices. The first tune-up shall be conducted no more than twenty-four (24) months from replacement of a burner assembly for affected existing sources. Each subsequent tune-up shall be conducted no more than twenty-four (24) months after the previous tune-up.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	All tune-up records are required to be maintained on site and available for inspection by the Department for a period of five (5) years from the date generated.
	The owner or operator shall develop and retain a tune-up plan on file.
	Emission Unit ID: 20, 25, 32, 33 Equipment ID: 202A, 203F; 32K1-K3, 23U1-U8 Control Device ID: SCR30A; PCO32U; SCR28A
	For any source test required under an applicable standard or permit condition, the owner, operator, or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests.
	Unless approved otherwise by the Department, the owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rate less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary.
C.6	 When conducting source tests subject to this section, the owner, operator, or representative shall provide the following: Department access to the facility to observe source tests; Sampling ports adequate for test methods; Safe sampling site(s); Safe access to sampling site(s); Utilities for sampling and testing equipment; and Equipment and supplies necessary for safe testing of a source.
	The owner or operator shall comply with any limits that result from conducting a source test at less than rated capacity. A copy of the most recent Department issued source test summary letter, whether it imposes a limit or not, shall be maintained with the operating permit, for each source that is required to conduct a source test.
	Site-specific test plans and amendments, notifications, and source test reports shall be submitted to the Manager of the Source Evaluation Section, Bureau of Air Quality.
C.7	Emission Unit ID: Facility-Wide Equipment ID: Facility-Wide Control Device ID: Facility-Wide

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions	
	(S.C. Regulation 61-62.5, Standard No. 4, Section X) All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter becomes airborne. In no case shall established ambient air quality standards be exceeded at or beyond the property line. The owner/operator of all such operations shall maintain dust control on the premises and any roadway owned or controlled by the owner/operator by paving or other suitable measures. Oil treatment is prohibited.	
	Emission Unit ID: 18, 20	
	Equipment ID: 26C1, 26C2, 26C3; 30A1, 30A2	
	Control Device ID: SCR26C; SCR30A	
	These sources are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Provisions and Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, and S.C. Regulation 61-62.60 Subparts A and Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, and S.C. Regulation 61-62.60 Subparts A and Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, as applicable. These sources shall comply with all applicable requirements of Subparts A and Kb.	
	Subpart Kb	
	40 CFR 60.112b - Standard For volatile organic compounds (VOC)	
C.8	(a) The owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m3 containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa but less than 76.6 kPa or with a design capacity greater than or equal to 75 m3 but less than 151 m3 containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 27.6 kPa but less than 76.6 kPa, shall equip each storage vessel with one of the following:	
	(1) - (2)	
	(3) A closed vent system and control device meeting the following specifications:	
	(i) The closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined in part 60, subpart VV, §60.485(b).	
	(ii) The control device shall be designed and operated to reduce inlet VOC emissions	

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	by 95 percent or greater. If a flare is used as the control device, it shall meet the specifications described in the general control device requirements (§60.18) of the General Provisions.
	(b) The owner or operator of each storage vessel with a design capacity greater than or equal to 75 m3 which contains a VOL that, as stored, has a maximum true vapor pressure greater than or equal to 76.6 kPa shall equip each storage vessel with one of the following:
	(1) A closed vent system and control device as specified in §60.112b(a)(3).
	(2) A system equivalent to that described in paragraph (b)(1) as provided in §60.114b of this subpart.
	(c)
	40 CFR 60.113b – Testing and procedures.
	The owner or operator of each storage vessel as specified in §60.112b(a) shall meet the requirements of paragraph (a), (b), or (c) of this section. The applicable paragraph for a particular storage vessel depends on the control equipment installed to meet the requirements of §60.112b.
	(a) – (b)
	(c) The owner or operator of each source that is equipped with a closed vent system and control device as required in §60.112b (a)(3) or (b)(2) (other than a flare) is exempt from §60.8 of the General Provisions and shall meet the following requirements.
	(1) Submit for approval by the Administrator as an attachment to the notification required by §60.7(a)(1) or, if the facility is exempt from §60.7(a)(1), as an attachment to the notification required by §60.7(a)(2), an operating plan containing the information listed below.
	(i) Documentation demonstrating that the control device will achieve the required control efficiency during maximum loading conditions. This documentation is to include a description of the gas stream which enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapors, gases, or liquids other than fuels from sources that are not designated sources under this subpart, the efficiency demonstration is to include consideration of all vapors, gases, and liquids received by the closed vent capture system

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	0.75 seconds and a minimum temperature of 816 °C is used to meet the 95 percent requirement, documentation that those conditions will exist is sufficient to meet the requirements of this paragraph.
	(ii) A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used for selection of that parameter (or parameters).
	(2) Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph (c)(1) of this section, unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies.
	(d)
	40 CFR 60.115b – Reporting and recordkeeping requirements.
	The owner or operator of each storage vessel as specified in §60.112b(a) shall keep records and furnish reports as required by paragraphs (a), (b), or (c) of this section depending upon the control equipment installed to meet the requirements of §60.112b. The owner or operator shall keep copies of all reports and records required by this section, except for the record required by (c)(1), for at least 2 years. The record required by (c)(1) will be kept for the life of the control equipment.
	(a) – (b)
	(c) After installing control equipment in accordance with §60.112b (a)(3) or (b)(1) (closed vent system and control device other than a flare), the owner or operator shall keep the following records.
	(1) A copy of the operating plan.
	(2) A record of the measured values of the parameters monitored in accordance with §60.113b(c)(2).
	(d)
	40 CFR 60.116b – Monitoring of operations.
	(a) The owner or operator shall keep copies of all records required by this section, except for

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.
	(b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
	(c) – (f)
	(g) The owner or operator of each vessel equipped with a closed vent system and control device meeting the specification of §60.112b or with emissions reductions equipment as specified in 40 CFR 65.42(b)(4), (b)(5), (b)(6), or (c) is exempt from the requirements of paragraphs (c) and (d) of this section.
	Emission Unit ID: 18, 20
	Equipment ID: LDAR Equipment
	These sources are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Provisions and Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006, and S.C. Regulation 61-62.60 Subparts A and VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006, and S.C. Regulation 61-62.60 Subparts A and VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006, as applicable. These sources shall comply with all applicable requirements of Subparts A and VV.
6.0	Subpart VV
C.9	40 CFR 60.480 – Applicability and designation of affected facility.
	(a)(1) The provisions of this subpart apply to affected facilities in the synthetic organic chemicals manufacturing industry.
	(2) The group of all equipment (defined in §60.481) within a process unit is an affected facility.
	(b) Any affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after January 5, 1981, and on or before November 7, 2006, shall be subject to the requirements of this subpart.
	(c) Addition or replacement of equipment for the purpose of process improvement which is accomplished without a capital expenditure shall not by itself be considered a modification

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	under this subpart.
	(d)
	(e) Alternative means of compliance—(1)
	(2) Subpart VVa. Owners or operators may choose to comply with the provisions of subpart VVa of this part 60 to satisfy the requirements of this subpart VV for an affected facility.
	(f) Stay of standards. Owners or operators are not required to comply with the definition of "process unit" in §60.481 and the requirements in §60.482-1(g) of this subpart until the EPA takes final action to require compliance and publishes a document in the Federal Register. While the definition of "process unit" is stayed, owners or operators should use the following definition:
	Process unit means components assembled to produce, as intermediate or final products, one or more of the chemicals listed in §60.489 of this part. A process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.
	Emission Unit ID: 18, 20
	Equipment ID: LDAR Equipment
C.10	These sources are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Provisions and Subpart VVa, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006, and S.C. Regulation 61-62.60 Subparts A and VVa, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, or Modification Commenced After November 7, 2006, Reconstruction, or Modification Commenced After November 7, 2006, Reconstruction, or Modification Commenced After November 7, 2006, Reconstruction, or Modification Commenced After November 7, 2006, as applicable. These sources shall comply with all applicable requirements of Subparts A and VVa.
	The owner/operator shall comply with standards §60.482-1 through §60.482-10 to include standards for Pumps in light liquid service, Compressors, Pressure relief devices in gas/vapor service, Sampling Connection Systems, Open-ended valves or lines, Valves in gas/vapor service and in light liquid service, Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors, except as provided in the alternative monitoring approved by EPA Region IV. In accordance with the approved alternative monitoring request, the permittee may monitor leaks using sensory techniques (i.e., visual, audible, or olfactory) from equipment that

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	is in acetic acid service.
	Subpart VVa
	40 CFR 60.480 – Applicability and designation of affected facility.
	(a)(1) The provisions of this subpart apply to affected facilities in the synthetic organic chemicals manufacturing industry.
	(2) The group of all equipment (defined in §60.481a) within a process unit is an affected facility.
	(b) Any affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after November 7, 2006, shall be subject to the requirements of this subpart.
	(c) Addition or replacement of equipment for the purpose of process improvement which is accomplished without a capital expenditure shall not by itself be considered a modification under this subpart.
	(d)(1) If an owner or operator applies for one or more of the exemptions in this paragraph, then the owner or operator shall maintain records as required in §60.486a(i).
	(2) Any affected facility that has the design capacity to produce less than 1,000 Mg/yr (1,102 ton/yr) of a chemical listed in §60.489 is exempt from §§60.482-1a through 60.482-11a.
	(3) If an affected facility produces heavy liquid chemicals only from heavy liquid feed or raw materials, then it is exempt from §§60.482-1a through 60.482-11a.
	(4) Any affected facility that produces beverage alcohol is exempt from §§60.482-1a through 60.482-11a.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	(5) Any affected facility that has no equipment in volatile organic compounds (VOC) service is exempt from §§60.482-1a through 60.482-11a.
	(e) Alternative means of compliance—(1) Option to comply with part 65. (i) Owners or operators may choose to comply with the provisions of 40 CFR part 65, subpart F, to satisfy the requirements of §§60.482-1a through 60.487a for an affected facility. When choosing to comply with 40 CFR part 65, subpart F, the requirements of §§60.485a(d), (e), and (f), and 60.486a(i) and (j) still apply. Other provisions applying to an owner or operator who chooses to comply with 40 CFR part 65 are provided in 40 CFR 65.1.
	(ii) Part 60, subpart A. Owners or operators who choose to comply with 40 CFR part 65, subpart F must also comply with §§60.1, 60.2, 60.5, 60.6, 60.7(a)(1) and (4), 60.14, 60.15, and 60.16 for that equipment. All sections and paragraphs of subpart A of this part that are not mentioned in this paragraph (e)(1)(ii) do not apply to owners or operators of equipment subject to this subpart complying with 40 CFR part 65, subpart F, except that provisions required to be met prior to implementing 40 CFR part 65 still apply. Owners and operators who choose to comply with 40 CFR part 65, subpart F, must comply with 40 CFR part 65, subpart A.
	(2) Part 63, subpart H. (i) Owners or operators may choose to comply with the provisions of 40 CFR part 63, subpart H, to satisfy the requirements of §§60.482-1a through 60.487a for an affected facility. When choosing to comply with 40 CFR part 63, subpart H, the requirements of §60.485a(d), (e), and (f), and §60.486a(i) and (j) still apply.
	(ii) Part 60, subpart A. Owners or operators who choose to comply with 40 CFR part 63, subpart H must also comply with §§60.1, 60.2, 60.5, 60.6, 60.7(a)(1) and (4), 60.14, 60.15, and 60.16 for that equipment. All sections and paragraphs of subpart A of this part that are not mentioned in this paragraph (e)(2)(ii) do not apply to owners or operators of equipment subject to this subpart complying with 40 CFR part 63, subpart H, except that provisions required to be met prior to implementing 40 CFR part 63 still apply. Owners and operators who choose to comply with 40 CFR part 63, subpart H, must comply with 40 CFR part 63, subpart A.
	(f) Stay of standards. (1) Owners or operators that start a new, reconstructed, or modified

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions		
	affected source prior to November 16, 2007 are not required to comply with the requirements in this paragraph until EPA takes final action to require compliance and publishes a document in the FEDERAL REGISTER.		
	(i) The definition of "capital expenditure" in §60.481a of this subpart. While the definition of "capital expenditure" is stayed, owners or operators should use the definition found in §60.481 of subpart VV of this part.		
	(ii) [Reserved]		
	(2) Owners or operators are not required to comply with the requirements in this paragraph until EPA takes final action to require compliance and publishes a document in the FEDERAL REGISTER.		
	(i) The definition of "process unit" in §60.481a of this subpart. While the definition of "process unit" is stayed, owners or operators should use the following definition:		
	<i>Process unit</i> means components assembled to produce, as intermediate or final products, one or more of the chemicals listed in §60.489 of this part. A process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.		
	(ii) The method of allocation of shared storage vessels in §60.482-1a(g) of this subpart.		
	(iii) The standards for connectors in gas/vapor service and in light liquid service in §60.482-11a of this subpart.		
	40 CFR 60.482-1a – Standards: General.		
	(a) Each owner or operator subject to the provisions of this subpart shall demonstrate compliance with the requirements of §§60.482-1a through 60.482-10a or §60.480a(e) for all equipment within 180 days of initial startup.		
	(b) Compliance with §§60.482-1a to 60.482-10a will be determined by review of records and		

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

(S.C. Regulation 61-62.1, Section II; S.C. Regulation 61-62.70.6(a)(3)(i)(B))

Condition Number	Conditions				
	reports, review of performance test res specified in §60.485a.	ults, and insp	ection using the m	ethods and proced	lures
(c)(1) An owner or operator may request a determination of equivalence of a means of e limitation to the requirements of §§60.482-2a, 60.482-3a, 60.482-5a, 60.482-6a, 60 60.482-8a, and 60.482-10a as provided in §60.484a.			of a means of emis , 60.482-6a, 60.48	ssion 2-7a,	
	 (2) If the Administrator makes a determination that a means of emission limitation is at leequivalent to the requirements of \$60.482-2a, \$60.482-3a, \$60.482-5a, \$60.482-6a, \$60.482-6a, \$60.482-7a, \$60.482-8a, or \$60.482-10a, an owner or operator shall comply with the requirement that determination. (d) Equipment that is in vacuum service is excluded from the requirements of \$\$60.482-10a if it is identified as required in \$60.486a(e)(5). 			least .482- nts of	
				32-2a	
	(e) Equipment that an owner or operator designates as being in VOC service less than 300 hr/y is excluded from the requirements of §§60.482-2a through 60.482-11a if it is identified a required in §60.486a(e)(6) and it meets any of the conditions specified in paragraphs (e)(1 through (3) of this section.			hr/yr ed as (e)(1)	
	(1) The equipment is in VOC service only during startup and shutdown, excluding star and shutdown between batches of the same campaign for a batch process.			artup	
	(2) The equipment is in VOC service only during process malfunctions or other emerger			ncies.	
(3) The equipment is backup equipment that is in VOC service only when the equipment is out of service.		only when the pri	mary		
	(f)(1) If a dedicated batch process unit operates less than 365 days during a year, an ow operator may monitor to detect leaks from pumps, valves, and open-ended valves or li the frequency specified in the following table instead of monitoring as specified in §§60.4 60.482-7a, and 60.483.2a:		ing a year, an own ended valves or lin pecified in §§60.48	er or es at 2-2a,	
	Operating time (percent of hours	Equivalent monitoring frequency time in use			
	during year)	Monthly	Quarterly	Semiannually	
	0 to <25	Quarterly	Annually	Annually.	
	25 to <50	Quarterly	Semiannually	Annually.	
	50 to <75	Bimonthly	Three quarters	Semiannually.	
	75 to 100	Monthly	Quarterly	Semiannually.	
	(2) Pumps and valves that are shared among two or more batch process units that a		t are		

subject to this subpart may be monitored at the frequencies specified in paragraph (f)(1) of

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Condition Number	Conditions		
	this section, provided the operating time of all such process units is considered.		
	(3) The monitoring frequencies specified in paragraph (f)(1) of this section are not requirements for monitoring at specific intervals and can be adjusted to accommodate process operations. An owner or operator may monitor at any time during the specified monitoring period (e.g., month, quarter, year), provided the monitoring is conducted at a reasonable interval after completion of the last monitoring campaign. Reasonable intervals are defined in paragraphs (f)(3)(i) through (iv) of this section.		
	(i) When monitoring is conducted quarterly, monitoring events must be separated by at least 30 calendar days.		
	(ii) When monitoring is conducted semiannually (<i>i.e.</i> , once every 2 quarters), monitoring events must be separated by at least 60 calendar days.		
	(iii) When monitoring is conducted in 3 quarters per year, monitoring events must be separated by at least 90 calendar days.		
	(iv) When monitoring is conducted annually, monitoring events must be separated by at least 120 calendar days.		
	(g) If the storage vessel is shared with multiple process units, the process unit with the greatest annual amount of stored materials (predominant use) is the process unit the storage vessel is assigned to. If the storage vessel is shared equally among process units, and one of the process units has equipment subject to this subpart, the storage vessel is assigned to that process unit. If the storage vessel is shared equally among process units, none of which have equipment subject to this subpart of this part, the storage vessel is assigned to any process unit subject to subpart VV of this part. If the predominant use of the storage vessel varies from year to year, then the owner or operator must estimate the predominant use initially and reassess every 3 years. The owner or operator must keep records of the information and supporting calculations that show how predominant use is determined. All equipment on the storage vessel must be monitored when in VOC service.		
	EFFECTIVE DATE NOTE: At 73 FR 31376, June 2, 2008, in §60.482-1a, paragraph (g) was stayed until further notice.		
	40 CFR 60.482-2a – Standards: Pumps in light liquid service.		
	(a)(1) Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in §60.485a(b), except as provided in §60.482-1a(c) and (f) and paragraphs (d), (e), and (f) of this section. A pump that begins operation in light liquid service after the initial startup date for the process unit must be monitored for the first time within 30 days after the end of its startup period, except for a pump that replaces a leaking pump and except as provided in §60.482-1a(c) and paragraphs (d), (e), and (f) of this section.		
	(2) Each pump in light liquid service shall be checked by visual inspection each calendar week		

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions		
	for indications of liquids dripping from the pump seal, except as provided in §60.482-1a(f).		
	(b)(1) The instrument reading that defines a leak is specified in paragraphs (b)(1)(i) and (ii) of this section.		
	(i) 5,000 parts per million (ppm) or greater for pumps handling polymerizing monomers;		
	(ii) 2,000 ppm or greater for all other pumps.		
	(2) If there are indications of liquids dripping from the pump seal, the owner or operator shall follow the procedure specified in either paragraph (b)(2)(i) or (ii) of this section. This requirement does not apply to a pump that was monitored after a previous weekly inspection and the instrument reading was less than the concentration specified in paragraph (b)(1)(i) or (ii) of this section, whichever is applicable.		
	(i) Monitor the pump within 5 days as specified in §60.485a(b). A leak is detected if the instrument reading measured during monitoring indicates a leak as specified in paragraph (b)(1)(i) or (ii) of this section, whichever is applicable. The leak shall be repaired using the procedures in paragraph (c) of this section.		
	(ii) Designate the visual indications of liquids dripping as a leak, and repair the leak using either the procedures in paragraph (c) of this section or by eliminating the visual indications of liquids dripping.		
	(c)(1) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9a.		
	(2) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. First attempts at repair include, but are not limited to, the practices described in paragraphs (c)(2)(i) and (ii) of this section, where practicable.		
	(i) Tightening the packing gland nuts;		
	(ii) Ensuring that the seal flush is operating at design pressure and temperature.		
	(d) Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph (a) of this section, provided the requirements specified in paragraphs (d)(1) through (6) of this section are met.		
	(1) Each dual mechanical seal system is:		
	(i) Operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or		
	(ii) Equipped with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of §60.482-10a; or		

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions		
	(iii) Equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.		
	(2) The barrier fluid system is in heavy liquid service or is not in VOC service.		
	(3) Each barrier fluid system is equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both.		
	(4)(i) Each pump is checked by visual inspection, each calendar week, for indications of liquids dripping from the pump seals.		
	(ii) If there are indications of liquids dripping from the pump seal at the time of the weekly inspection, the owner or operator shall follow the procedure specified in either paragraph (d)(4)(ii)(A) or (B) of this section prior to the next required inspection.		
	(A) Monitor the pump within 5 days as specified in §60.485a(b) to determine if there is a leak of VOC in the barrier fluid. If an instrument reading of 2,000 ppm or greater is measured, a leak is detected.		
	(B) Designate the visual indications of liquids dripping as a leak.		
	(5)(i) Each sensor as described in paragraph (d)(3) is checked daily or is equipped with an audible alarm.		
	(ii) The owner or operator determines, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.		
	(iii) If the sensor indicates failure of the seal system, the barrier fluid system, or both, based on the criterion established in paragraph (d)(5)(ii) of this section, a leak is detected.		
	(6)(i) When a leak is detected pursuant to paragraph (d)(4)(ii)(A) of this section, it shall be repaired as specified in paragraph (c) of this section.		
	(ii) A leak detected pursuant to paragraph (d)(5)(iii) of this section shall be repaired within 15 days of detection by eliminating the conditions that activated the sensor.		
	(iii) A designated leak pursuant to paragraph (d)(4)(ii)(B) of this section shall be repaired within 15 days of detection by eliminating visual indications of liquids dripping.		
	(e) Any pump that is designated, as described in §60.486a(e)(1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs (a), (c), and (d) of this section if the pump:		
	(1) Has no externally actuated shaft penetrating the pump housing;		
	(2) Is demonstrated to be operating with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods		

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Condition Number	Conditions		
	specified in §60.485a(c); and		
	(3) Is tested for compliance with paragraph (e)(2) of this section initially upon designation, annually, and at other times requested by the Administrator.		
	(f) If any pump is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a process or to a fuel gas system or to a control device that complies with the requirements of §60.482-10a, it is exempt from paragraphs (a) through (e) of this section.		
	(g) Any pump that is designated, as described in §60.486a(f)(1), as an unsafe-to-monitor pump is exempt from the monitoring and inspection requirements of paragraphs (a) and (d)(4) through (6) of this section if:		
	(1) The owner or operator of the pump demonstrates that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph (a) of this section; and		
	(2) The owner or operator of the pump has a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in paragraph (c) of this section if a leak is detected.		
	(h) Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of paragraphs (a)(2) and (d)(4) of this section, and the daily requirements of paragraph (d)(5) of this section, provided that each pump is visually inspected as often as practicable and at least monthly.		
	40 CFR 60.482-3a – Standards: Compressors.		
	(a) Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-1a(c) and paragraphs (h), (i), and (j) of this section.		
	(b) Each compressor seal system as required in paragraph (a) of this section shall be:		
	(1) Operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or		
	(2) Equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of §60.482-10a; or		
	(3) Equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.		
	(c) The barrier fluid system shall be in heavy liquid service or shall not be in VOC service.		

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions	
	(d) Each barrier fluid system as described in paragraph (a) shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.	
	(e)(1) Each sensor as required in paragraph (d) of this section shall be checked daily or shall be equipped with an audible alarm.	
	(2) The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.	
	(f) If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under paragraph (e)(2) of this section, a leak is detected.	
	(g)(1) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9a.	
	(2) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	
	(h) A compressor is exempt from the requirements of paragraphs (a) and (b) of this section, if it is equipped with a closed vent system to capture and transport leakage from the compressor drive shaft back to a process or fuel gas system or to a control device that complies with the requirements of §60.482-10a, except as provided in paragraph (i) of this section.	
	(i) Any compressor that is designated, as described in §60.486a(e)(1) and (2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs (a) through (h) of this section if the compressor:	
	(1) Is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the methods specified in §60.485a(c); and	
	(2) Is tested for compliance with paragraph (i)(1) of this section initially upon designation, annually, and at other times requested by the Administrator.	
	(j) Any existing reciprocating compressor in a process unit which becomes an affected facility under provisions of §60.14 or §60.15 is exempt from paragraphs (a) through (e) and (h) of this section, provided the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options available to bring the compressor into compliance with the provisions of paragraphs (a) through (e) and (h) of this section.	
	40 CFR 60.482-4a – Standards: Pressure relief devices in gas/vapor service.	
	(a) Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in §60.485a(c).	

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Condition Number	Conditions		
	(b)(1) After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in §60.482-9a.		
	(2) No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in §60.485a(c).		
	(c) Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device as described in §60.482-10a is exempted from the requirements of paragraphs (a) and (b) of this section.		
	(d)(1) Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from the requirements of paragraphs (a) and (b) of this section, provided the owner or operator complies with the requirements in paragraph (d)(2) of this section.		
	(2) After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in §60.482-9a.		
	40 CFR 60.482-5a – Standards: Sampling connection systems.		
	(a) Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1a(c) and paragraph (c) of this section.		
	(b) Each closed-purge, closed-loop, or closed-vent system as required in paragraph (a) of this section shall comply with the requirements specified in paragraphs (b)(1) through (4) of this section.		
	(1) Gases displaced during filling of the sample container are not required to be collected or captured.		
	(2) Containers that are part of a closed-purge system must be covered or closed when not being filled or emptied.		
	(3) Gases remaining in the tubing or piping between the closed-purge system valve(s) and sample container valve(s) after the valves are closed and the sample container is disconnected are not required to be collected or captured.		
	(4) Each closed-purge, closed-loop, or closed-vent system shall be designed and operated to meet requirements in either paragraph (b)(4)(i), (ii), (iii), or (iv) of this section.		
	(i) Return the purged process fluid directly to the process line.		

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions		
	(ii) Collect and recycle the purged process fluid to a process.		
	(iii) Capture and transport all the purged process fluid to a control device that complies with the requirements of §60.482-10a.		
	(iv) Collect, store, and transport the purged process fluid to any of the following systems or facilities:		
	(A) A waste management unit as defined in 40 CFR 63.111, if the waste management unit is subject to and operated in compliance with the provisions of 40 CFR part 63, subpart G, applicable to Group 1 wastewater streams;		
	(B) A treatment, storage, or disposal facility subject to regulation under 40 CFR part 262, 264, 265, or 266;		
	(C) A facility permitted, licensed, or registered by a state to manage municipal or industrial solid waste, if the process fluids are not hazardous waste as defined in 40 CFR part 261;		
	(D) A waste management unit subject to and operated in compliance with the treatment requirements of 40 CFR 61.348(a), provided all waste management units that collect, store, or transport the purged process fluid to the treatment unit are subject to and operated in compliance with the management requirements of 40 CFR 61.347; or		
	(E) A device used to burn off-specification used oil for energy recovery in accordance with 40 CFR part 279, subpart G, provided the purged process fluid is not hazardous waste as defined in 40 CFR part 261.		
	(c) In-situ sampling systems and sampling systems without purges are exempt from the requirements of paragraphs (a) and (b) of this section.		
	40 CFR 60.482-6a – Standards: Open-ended valves or lines.		
	(a)(1) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §60.482-1a(c) and paragraphs (d) and (e) of this section.		
	(2) The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.		
	(b) Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.		
	(c) When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (a) of this section at all other times.		

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions		
	(d) Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of paragraphs (a), (b), and (c) of this section.		
	(e) Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in paragraphs (a) through (c) of this section are exempt from the requirements of paragraphs (a) through (c) of this section.		
	40 CFR 60.482-7a – Standards: Valves in gas/vapor service and in light liquid service.		
	(a)(1) Each valve shall be monitored monthly to detect leaks by the methods specified in §60.485a(b) and shall comply with paragraphs (b) through (e) of this section, except as provided in paragraphs (f), (g), and (h) of this section, §60.482-1a(c) and (f), and §§60.483-1a and 60.483-2a.		
	(2) A valve that begins operation in gas/vapor service or light liquid service after the initial startup date for the process unit must be monitored according to paragraphs (a)(2)(i) or (ii), except for a valve that replaces a leaking valve and except as provided in paragraphs (f), (g), and \$\\$0.482-1a(c), and \$\\$0.483-1a and 60.483-2a.		
	(i) Monitor the valve as in paragraph (a)(1) of this section. The valve must be monitored for the first time within 30 days after the end of its startup period to ensure proper installation.		
	(ii) If the existing valves in the process unit are monitored in accordance with §60.483-1a or §60.483-2a, count the new valve as leaking when calculating the percentage of valves leaking as described in §60.483-2a(b)(5). If less than 2.0 percent of the valves are leaking for that process unit, the valve must be monitored for the first time during the next scheduled monitoring event for existing valves in the process unit or within 90 days, whichever comes first.		
	(b) If an instrument reading of 500 ppm or greater is measured, a leak is detected.		
	(c)(1)(i) Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.		
	(ii) As an alternative to monitoring all of the valves in the first month of a quarter, an owner or operator may elect to subdivide the process unit into two or three subgroups of valves and monitor each subgroup in a different month during the quarter, provided each subgroup is monitored every 3 months. The owner or operator must keep records of the valves assigned to each subgroup.		
	(2) If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.		

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Condition Number	Conditions
	(d)(1) When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in §60.482-9a.
	(2) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.
	(e) First attempts at repair include, but are not limited to, the following best practices where practicable:
	(1) Tightening of bonnet bolts;
	(2) Replacement of bonnet bolts;
	(3) Tightening of packing gland nuts;
	(4) Injection of lubricant into lubricated packing.
	(f) Any valve that is designated, as described in §60.486a(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraph (a) of this section if the valve:
	(1) Has no external actuating mechanism in contact with the process fluid,
	(2) Is operated with emissions less than 500 ppm above background as determined by the method specified in §60.485a(c), and
	(3) Is tested for compliance with paragraph (f)(2) of this section initially upon designation, annually, and at other times requested by the Administrator.
	(g) Any valve that is designated, as described in §60.486a(f)(1), as an unsafe-to-monitor valve is exempt from the requirements of paragraph (a) of this section if:
	(1) The owner or operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph (a) of this section, and
	(2) The owner or operator of the valve adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times.
	(h) Any valve that is designated, as described in §60.486a(f)(2), as a difficult-to-monitor valve is exempt from the requirements of paragraph (a) of this section if:
	(1) The owner or operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface.
	(2) The process unit within which the valve is located either:
	(i) Becomes an affected facility through §60.14 or §60.15 and was constructed on or before lanuary 5, 1981; or

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Condition Number	Conditions
	(ii) Has less than 3.0 percent of its total number of valves designated as difficult-to- monitor by the owner or operator.
	(3) The owner or operator of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.
	40 CFR 60.482-8a – Standards: Pumps, valves, and connectors in heavy liquid service and pressure relief devices in light liquid or heavy liquid service.
	(a) If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pumps, valves, and connectors in heavy liquid service and pressure relief devices in light liquid or heavy liquid service, the owner or operator shall follow either one of the following procedures:
	(1) The owner or operator shall monitor the equipment within 5 days by the method specified in §60.485a(b) and shall comply with the requirements of paragraphs (b) through (d) of this section.
	(2) The owner or operator shall eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection.
	(b) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.
	(c)(1) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9a.
	(2) The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.
	(d) First attempts at repair include, but are not limited to, the best practices described under §§60.482-2a(c)(2) and 60.482-7a(e).
	40 CFR 60.482-9a – Standards: Delay of repair.
	(a) Delay of repair of equipment for which leaks have been detected will be allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown. Monitoring to verify repair must occur within 15 days after startup of the process unit.
	(b) Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.
	(c) Delay of repair for valves and connectors will be allowed if:
	(1) The owner or operator demonstrates that emissions of purged material resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	(2) When repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with §60.482-10a.
	(d) Delay of repair for pumps will be allowed if:
	(1) Repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and
	(2) Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.
	(e) Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.
	(f) When delay of repair is allowed for a leaking pump, valve, or connector that remains in service, the pump, valve, or connector may be considered to be repaired and no longer subject to delay of repair requirements if two consecutive monthly monitoring instrument readings are below the leak definition.
	40 CFR 60.482-10a – Standards: Closed vent systems and control devices.
	(a) Owners or operators of closed vent systems and control devices used to comply with provisions of this subpart shall comply with the provisions of this section.
	(b) Vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume (ppmv), whichever is less stringent.
	(c) Enclosed combustion devices shall be designed and operated to reduce the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 ppmv, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C.
	(d) Flares used to comply with this subpart shall comply with the requirements of §60.18.
	(e) Owners or operators of control devices used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs.
	(f) Except as provided in paragraphs (i) through (k) of this section, each closed vent system shall be inspected according to the procedures and schedule specified in paragraphs (f)(1) and (2) of
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	this section.
	(1) If the vapor collection system or closed vent system is constructed of hard-piping, the owner or operator shall comply with the requirements specified in paragraphs (f)(1)(i) and (ii) of this section:
	(i) Conduct an initial inspection according to the procedures in §60.485a(b); and
	(ii) Conduct annual visual inspections for visible, audible, or olfactory indications of leaks.
	(2) If the vapor collection system or closed vent system is constructed of ductwork, the owner or operator shall:
	(i) Conduct an initial inspection according to the procedures in §60.485a(b); and
	(ii) Conduct annual inspections according to the procedures in §60.485a(b).
	(g) Leaks, as indicated by an instrument reading greater than 500 ppmv above background or by visual inspections, shall be repaired as soon as practicable except as provided in paragraph (h) of this section.
	(1) A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.
	(2) Repair shall be completed no later than 15 calendar days after the leak is detected.
	(h) Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown.
	(i) If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of paragraphs (f)(1)(i) and (f)(2) of this section.
	(j) Any parts of the closed vent system that are designated, as described in paragraph (l)(1) of this section, as unsafe to inspect are exempt from the inspection requirements of paragraphs (f)(1)(i) and (f)(2) of this section if they comply with the requirements specified in paragraphs (j)(1) and (2) of this section:
	(1) The owner or operator 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 paragraphs (f)(1)(i) or (f)(2) of this section; and
	(2) The owner or operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times.
	(k) Any parts of the closed vent system that are designated, as described in paragraph (l)(2) of

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	this section, as difficult to inspect are exempt from the inspection requirements of paragraphs (f)(1)(i) and (f)(2) of this section if they comply with the requirements specified in paragraphs (k)(1) through (3) of this section:
	(1) The owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and
	(2) The process unit within which the closed vent system is located becomes an affected facility through §§60.14 or 60.15, or the owner or operator designates less than 3.0 percent of the total number of closed vent system equipment as difficult to inspect; and
	(3) The owner or operator has a written plan that requires inspection of the equipment at least once every 5 years. A closed vent system is exempt from inspection if it is operated under a vacuum.
	(l) The owner or operator shall record the information specified in paragraphs (l)(1) through (5) of this section.
	(1) Identification of all parts of the closed vent system that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment.
	(2) Identification of all parts of the closed vent system that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment.
	(3) For each inspection during which a leak is detected, a record of the information specified in §60.486a(c).
	(4) For each inspection conducted in accordance with §60.485a(b) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.
	(5) For each visual inspection conducted in accordance with paragraph (f)(1)(ii) of this section during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.
	(m) Closed vent systems and control devices used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them.
	40 CFR 60.482-11a – Standards: Connectors in gas/vapor service and in light liquid service.
	(a) The owner or operator shall initially monitor all connectors in the process unit for leaks by the later of either 12 months after the compliance date or 12 months after initial startup. If all connectors in the process unit have been monitored for leaks prior to the compliance date, no initial monitoring is required provided either no process changes have been made since the monitoring or the owner or operator can determine that the results of the monitoring, with or

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	without adjustments, reliably demonstrate compliance despite process changes. If required to monitor because of a process change, the owner or operator is required to monitor only those connectors involved in the process change.
	(b) Except as allowed in §60.482-1a(c), §60.482-10a, or as specified in paragraph (e) of this section, the owner or operator shall monitor all connectors in gas and vapor and light liquid service as specified in paragraphs (a) and (b)(3) of this section.
	(1) The connectors shall be monitored to detect leaks by the method specified in §60.485a(b) and, as applicable, §60.485a(c).
	(2) If an instrument reading greater than or equal to 500 ppm is measured, a leak is detected.
	(3) The owner or operator shall perform monitoring, subsequent to the initial monitoring required in paragraph (a) of this section, as specified in paragraphs (b)(3)(i) through (iii) of this section, and shall comply with the requirements of paragraphs (b)(3)(iv) and (v) of this section. The required period in which monitoring must be conducted shall be determined from paragraphs (b)(3)(i) through (iii) of this section using the monitoring results from the preceding monitoring period. The percent leaking connectors shall be calculated as specified in paragraph (c) of this section.
	(i) If the percent leaking connectors in the process unit was greater than or equal to 0.5 percent, then monitor within 12 months (1 year).
	(ii) If the percent leaking connectors in the process unit was greater than or equal to 0.25 percent but less than 0.5 percent, then monitor within 4 years. An owner or operator may comply with the requirements of this paragraph by monitoring at least 40 percent of the connectors within 2 years of the start of the monitoring period, provided all connectors have been monitored by the end of the 4-year monitoring period.
	(iii) If the percent leaking connectors in the process unit was less than 0.25 percent, then monitor as provided in paragraph (b)(3)(iii)(A) of this section and either paragraph (b)(3)(iii)(B) or (b)(3)(iii)(C) of this section, as appropriate.
	(A) An owner or operator shall monitor at least 50 percent of the connectors within 4 years of the start of the monitoring period.
	(B) If the percent of leaking connectors calculated from the monitoring results in paragraph (b)(3)(iii)(A) of this section is greater than or equal to 0.35 percent of the monitored connectors, the owner or operator shall monitor as soon as practical, but within the next 6 months, all connectors that have not yet been monitored during the monitoring period. At the conclusion of monitoring, a new monitoring period shall be started pursuant to paragraph (b)(3) of this section, based on the percent of leaking connectors within the total monitored connectors.
	(C) If the percent of leaking connectors calculated from the monitoring results in

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	paragraph (b)(3)(iii)(A) of this section is less than 0.35 percent of the monitored connectors, the owner or operator shall monitor all connectors that have not yet been monitored within 8 years of the start of the monitoring period.
	(iv) If, during the monitoring conducted pursuant to paragraphs (b)(3)(i) through (iii) of this section, a connector is found to be leaking, it shall be re-monitored once within 90 days after repair to confirm that it is not leaking.
	(v) The owner or operator shall keep a record of the start date and end date of each monitoring period under this section for each process unit.
	(c) For use in determining the monitoring frequency, as specified in paragraphs (a) and (b)(3) of this section, the percent leaking connectors as used in paragraphs (a) and (b)(3) of this section shall be calculated by using the following equation:
	$%C_{L} = C_{L} / C_{t} * 100$
	Where:
	%C _L = Percent of leaking connectors as determined through periodic monitoring required in paragraphs (a) and (b)(3)(i) through (iii) of this section.
	C_L = Number of connectors measured at 500 ppm or greater, by the method specified in §60.485a(b).
	C _t = Total number of monitored connectors in the process unit or affected facility.
	(d) When a leak is detected pursuant to paragraphs (a) and (b) of this section, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9a. A first attempt at repair as defined in this subpart shall be made no later than 5 calendar days after the leak is detected.
	(e) Any connector that is designated, as described in §60.486a(f)(1), as an unsafe-to-monitor connector is exempt from the requirements of paragraphs (a) and (b) of this section if:
	(1) The owner or operator of the connector demonstrates that the connector is unsafe-to- monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraphs (a) and (b) of this section; and
	(2) The owner or operator of the connector has a written plan that requires monitoring of the connector as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in paragraph (d) of this section if a leak is detected.
	(f) <i>Inaccessible, ceramic, or ceramic-lined connectors.</i> (1) Any connector that is inaccessible or that is ceramic or ceramic-lined (e.g., porcelain, glass, or glass-lined), is exempt from the monitoring requirements of paragraphs (a) and (b) of this section, from the leak repair requirements of

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	paragraph (d) of this section, and from the recordkeeping and reporting requirements of §§63.1038 and 63.1039. An inaccessible connector is one that meets any of the provisions specified in paragraphs (f)(1)(i) through (vi) of this section, as applicable:
	(i) Buried;
	(ii) Insulated in a manner that prevents access to the connector by a monitor probe;
	(iii) Obstructed by equipment or piping that prevents access to the connector by a monitor probe;
	(iv) Unable to be reached from a wheeled scissor-lift or hydraulic-type scaffold that would allow access to connectors up to 7.6 meters (25 feet) above the ground;
	(v) Inaccessible because it would require elevating the monitoring personnel more than 2 meters (7 feet) above a permanent support surface or would require the erection of scaffold; or
	(vi) Not able to be accessed at any time in a safe manner to perform monitoring. Unsafe access includes, but is not limited to, the use of a wheeled scissor-lift on unstable or uneven terrain, the use of a motorized man-lift basket in areas where an ignition potential exists, or access would require near proximity to hazards such as electrical lines, or would risk damage to equipment.
	(2) If any inaccessible, ceramic, or ceramic-lined connector is observed by visual, audible, olfactory, or other means to be leaking, the visual, audible, olfactory, or other indications of a leak to the atmosphere shall be eliminated as soon as practical.
	(g) Except for instrumentation systems and inaccessible, ceramic, or ceramic-lined connectors meeting the provisions of paragraph (f) of this section, identify the connectors subject to the requirements of this subpart. Connectors need not be individually identified if all connectors in a designated area or length of pipe subject to the provisions of this subpart are identified as a group, and the number of connectors subject is indicated.
	EFFECTIVE DATE NOTE: At 73 FR 31376, June 2, 2008, §60.482-11a was stayed until further notice.
	40 CFR 60.483-1a – Alternative standards for valves – allowable percentage of valves leaking.
	(a) An owner or operator may elect to comply with an allowable percentage of valves leaking of equal to or less than 2.0 percent.
	(b) The following requirements shall be met if an owner or operator wishes to comply with an allowable percentage of valves leaking:
	(1) An owner or operator must notify the Administrator that the owner or operator has elected to comply with the allowable percentage of valves leaking before implementing this alternative standard, as specified in §60,487a(d).

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	(2) A performance test as specified in paragraph (c) of this section shall be conducted initially upon designation, annually, and at other times requested by the Administrator.
	(3) If a valve leak is detected, it shall be repaired in accordance with §60.482-7a(d) and (e).
	(c) Performance tests shall be conducted in the following manner:
	(1) All valves in gas/vapor and light liquid service within the affected facility shall be monitored within 1 week by the methods specified in §60.485a(b).
	(2) If an instrument reading of 500 ppm or greater is measured, a leak is detected.
	(3) The leak percentage shall be determined by dividing the number of valves for which leaks are detected by the number of valves in gas/vapor and light liquid service within the affected facility.
	(d) Owners and operators who elect to comply with this alternative standard shall not have an affected facility with a leak percentage greater than 2.0 percent, determined as described in §60.485a(h).
	40 CFR 60.483-2a – Alternative standards for valves – skip period leak detection and repair.
	(a)(1) An owner or operator may elect to comply with one of the alternative work practices specified in paragraphs (b)(2) and (3) of this section.
	(2) An owner or operator must notify the Administrator before implementing one of the alternative work practices, as specified in §60.487(d)a.
	(b)(1) An owner or operator shall comply initially with the requirements for valves in gas/vapor service and valves in light liquid service, as described in §60.482-7a.
	(2) After 2 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, an owner or operator may begin to skip 1 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.
	(3) After 5 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, an owner or operator may begin to skip 3 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service.
	(4) If the percent of valves leaking is greater than 2.0, the owner or operator shall comply with the requirements as described in §60.482-7a but can again elect to use this section.
	(5) The percent of valves leaking shall be determined as described in §60.485a(h).
	(6) An owner or operator must keep a record of the percent of valves found leaking during each leak detection period.
	(7) A valve that begins operation in gas/vapor service or light liquid service after the initial startup date for a process unit following one of the alternative standards in this section must

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	be monitored in accordance with §60.482-7a(a)(2)(i) or (ii) before the provisions of this section can be applied to that valve.
	40 CFR 60.484a – Equivalence of means of emission limitations.
	(a) Each owner or operator subject to the provisions of this subpart may apply to the Administrator for determination of equivalence for any means of emission limitation that achieves a reduction in emissions of VOC at least equivalent to the reduction in emissions of VOC achieved by the controls required in this subpart.
	(b) Determination of equivalence to the equipment, design, and operational requirements of this subpart will be evaluated by the following guidelines:
	(1) Each owner or operator applying for an equivalence determination shall be responsible for collecting and verifying test data to demonstrate equivalence of means of emission limitation.
	(2) The Administrator will compare test data for demonstrating equivalence of the means of emission limitation to test data for the equipment, design, and operational requirements.
	(3) The Administrator may condition the approval of equivalence on requirements that may be necessary to assure operation and maintenance to achieve the same emission reduction as the equipment, design, and operational requirements.
	(c) Determination of equivalence to the required work practices in this subpart will be evaluated by the following guidelines:
	(1) Each owner or operator applying for a determination of equivalence shall be responsible for collecting and verifying test data to demonstrate equivalence of an equivalent means of emission limitation.
	(2) For each affected facility for which a determination of equivalence is requested, the emission reduction achieved by the required work practice shall be demonstrated.
	(3) For each affected facility, for which a determination of equivalence is requested, the emission reduction achieved by the equivalent means of emission limitation shall be demonstrated.
	(4) Each owner or operator applying for a determination of equivalence shall commit in writing to work practice(s) that provide for emission reductions equal to or greater than the emission reductions achieved by the required work practice.
	(5) The Administrator will compare the demonstrated emission reduction for the equivalent means of emission limitation to the demonstrated emission reduction for the required work practices and will consider the commitment in paragraph (c)(4) of this section.
	(6) The Administrator may condition the approval of equivalence on requirements that may

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	be necessary to assure operation and maintenance to achieve the same emission reduction as the required work practice.
	(d) An owner or operator may offer a unique approach to demonstrate the equivalence of any equivalent means of emission limitation.
	(e)(1) After a request for determination of equivalence is received, the Administrator will publish a notice in the FEDERAL REGISTER and provide the opportunity for public hearing if the Administrator judges that the request may be approved.
	(2) After notice and opportunity for public hearing, the Administrator will determine the equivalence of a means of emission limitation and will publish the determination in the FEDERAL REGISTER.
	(3) Any equivalent means of emission limitations approved under this section shall constitute a required work practice, equipment, design, or operational standard within the meaning of section 111(h)(1) of the CAA.
	(f)(1) Manufacturers of equipment used to control equipment leaks of VOC may apply to the Administrator for determination of equivalence for any equivalent means of emission limitation that achieves a reduction in emissions of VOC achieved by the equipment, design, and operational requirements of this subpart.
	(2) The Administrator will make an equivalence determination according to the provisions of paragraphs (b), (c), (d), and (e) of this section.
	40 CFR 60.485a – Test methods and procedures.
	(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).
	(b) The owner or operator shall determine compliance with the standards in $\$60.482-1a$ through 60.482-11a, 60.483a, and 60.484a as follows:
	(1) Method 21 shall be used to determine the presence of leaking sources. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 of appendix A-7 of this part. The following calibration gases shall be used:
	(i) Zero air (less than 10 ppm of hydrocarbon in air); and
	(ii) A mixture of methane or n-hexane and air at a concentration no more than 2,000 ppm greater than the leak definition concentration of the equipment monitored. If the monitoring instrument's design allows for multiple calibration scales, then the lower scale shall be calibrated with a calibration gas that is no higher than 2,000 ppm above the concentration specified as a leak, and the highest scale shall be calibrated with a calibrately equal to 10,000 ppm. If only one scale on an

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	instrument will be used during monitoring, the owner or operator need not calibrate the scales that will not be used during that day's monitoring.
	(2) A calibration drift assessment shall be performed, at a minimum, at the end of each monitoring day. Check the instrument using the same calibration gas(es) that were used to calibrate the instrument before use. Follow the procedures specified in Method 21 of appendix A-7 of this part, Section 10.1, except do not adjust the meter readout to correspond to the calibration gas value. Record the instrument reading for each scale used as specified in \$60.486a(e)(7). Calculate the average algebraic difference between the three meter readings and the most recent calibration value. Divide this algebraic difference by the initial calibration value and multiply by 100 to express the calibration drift as a percentage. If any calibration value, then all equipment monitored since the last calibration multiplied by (100 minus the percent of negative drift/divided by 100) must be re-monitored. If any calibration value, then, at the owner/operator's discretion, all equipment since the last calibration and below the leak definition and below the leak definition and below the leak definition multiplied by (100 plus the percent of positive drift/divided by 100) may be re-monitored.
	(c) The owner or operator shall determine compliance with the no-detectable-emission standards in §§60.482-2a(e), 60.482-3a(i), 60.482-4a, 60.482-7a(f), and 60.482-10a(e) as follows:
	(1) The requirements of paragraph (b) shall apply.
	(2) Method 21 of appendix A-7 of this part shall be used to determine the background level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.
	(d) The owner or operator shall test each piece of equipment unless he demonstrates that a process unit is not in VOC service, i.e., that the VOC content would never be reasonably expected to exceed 10 percent by weight. For purposes of this demonstration, the following methods and procedures shall be used:
	(1) Procedures that conform to the general methods in ASTM E260-73, 91, or 96, E168-67, 77, or 92, E169-63, 77, or 93 (incorporated by reference—see §60.17) shall be used to determine the percent VOC content in the process fluid that is contained in or contacts a piece of equipment.
	(2) Organic compounds that are considered by the Administrator to have negligible photochemical reactivity may be excluded from the total quantity of organic compounds in determining the VOC content of the process fluid.

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	(3) Engineering judgment may be used to estimate the VOC content, if a piece of equipment had not been shown previously to be in service. If the Administrator disagrees with the judgment, paragraphs (d)(1) and (2) of this section shall be used to resolve the disagreement.
	(e) The owner or operator shall demonstrate that a piece of equipment is in light liquid service by showing that all the following conditions apply:
	(1) The vapor pressure of one or more of the organic components is greater than 0.3 kPa at 20 °C (1.2 in. H_2O at 68 °F). Standard reference texts or ASTM D2879-83, 96, or 97 (incorporated by reference—see §60.17) shall be used to determine the vapor pressures.
	(2) The total concentration of the pure organic components having a vapor pressure greater than 0.3 kPa at 20 °C (1.2 in. H_2O at 68 °F) is equal to or greater than 20 percent by weight.
	(3) The fluid is a liquid at operating conditions.
	(f) Samples used in conjunction with paragraphs (d), (e), and (g) of this section shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.
	(g) The owner or operator shall determine compliance with the standards of flares as follows:
	(1) Method 22 of appendix A-7 of this part shall be used to determine visible emissions.
	(2) A thermocouple or any other equivalent device shall be used to monitor the presence of a pilot flame in the flare.
	(3) The maximum permitted velocity for air assisted flares shall be computed using the following equation:
	$V_{max} = K_1 + K_2 H_T$
	Where:
	V _{max} = Maximum permitted velocity, m/sec (ft/sec).
	H_T = Net heating value of the gas being combusted, MJ/scm (Btu/scf).
	K_1 = 8.706 m/sec (metric units) = 28.56 ft/sec (English units).
	K ₂ = 0.7084 m4/(MJ-sec) (metric units) = 0.087 ft4/(Btu-sec) (English units).
	(4) The net heating value (HT) of the gas being combusted in a flare shall be computed using the following equation:
	$\mathbf{H}_{\mathbf{r}} = \mathbf{K} \sum_{i=1}^{n} \mathbf{C}_{i} \mathbf{H}_{i}$
	Where:

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	K = Conversion constant, 1.740 × 10 ⁻⁷ (g-mole)(MJ)/(ppm-scm-kcal) (metric units) = 4.674 × 10 ⁻⁶ [(g-mole)(Btu)/(ppm-scf-kcal)] (English units).
	C _i = Concentration of sample component "i," ppm
	$H_{\rm i}$ = net heat of combustion of sample component "i" at 25 °C and 760 mm Hg (77 °F and 14.7 psi), kcal/g-mole.
	(5) Method 18 of appendix A-6 of this part or ASTM D6420-99 (2004) (where the target compound(s) are those listed in Section 1.1 of ASTM D6420-99, and the target concentration is between 150 parts per billion by volume and 100 ppmv) and ASTM D2504-67, 77, or 88 (Reapproved 1993) (incorporated by reference-see §60.17) shall be used to determine the concentration of sample component "i."
	(6) ASTM D2382-76 or 88 or D4809-95 (incorporated by reference-see §60.17) shall be used to determine the net heat of combustion of component "i" if published values are not available or cannot be calculated.
	(7) Method 2, 2A, 2C, or 2D of appendix A-7 of this part, as appropriate, shall be used to determine the actual exit velocity of a flare. If needed, the unobstructed (free) cross-sectional area of the flare tip shall be used.
	(h) The owner or operator shall determine compliance with §60.483-1a or §60.483-2a as follows:
	(1) The percent of valves leaking shall be determined using the following equation:
	$%V_{L} = (V_{L} / V_{T}) * 100$
	Where:
	%V _L = Percent leaking valves.
	V_L = Number of valves found leaking.
	V_T = The sum of the total number of valves monitored.
	(2) The total number of valves monitored shall include difficult-to-monitor and unsafe-to- monitor valves only during the monitoring period in which those valves are monitored.
	(3) The number of valves leaking shall include valves for which repair has been delayed.
	(4) Any new valve that is not monitored within 30 days of being placed in service shall be included in the number of valves leaking and the total number of valves monitored for the monitoring period in which the valve is placed in service.
	(5) If the process unit has been subdivided in accordance with §60.482-7a(c)(1)(ii), the sum of valves found leaking during a monitoring period includes all subgroups.
	(6) The total number of valves monitored does not include a valve monitored to verify repair.

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	40 CFR 60.486a – Recordkeeping requirements.
	(a)(1) Each owner or operator subject to the provisions of this subpart shall comply with the recordkeeping requirements of this section.
	(2) An owner or operator of more than one affected facility subject to the provisions of this subpart may comply with the recordkeeping requirements for these facilities in one recordkeeping system if the system identifies each record by each facility.
	(3) The owner or operator shall record the information specified in paragraphs (a)(3)(i) through (v) of this section for each monitoring event required by §§60.482-2a, 60.482-3a, 60.482-3a, 60.482-7a, 60.482-8a, 60.482-11a, and 60.483-2a.
	(i) Monitoring instrument identification.
	(ii) Operator identification.
	(iii) Equipment identification.
	(iv) Date of monitoring.
	(v) Instrument reading.
	(b) When each leak is detected as specified in §§60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, 60.482-11a, and 60.483-2a, the following requirements apply:
	(1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.
	(2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in §60.482-7a(c) and no leak has been detected during those 2 months.
	(3) The identification on a connector may be removed after it has been monitored as specified in §60.482-11a(b)(3)(iv) and no leak has been detected during that monitoring.
	(4) The identification on equipment, except on a valve or connector, may be removed after it has been repaired.
	(c) When each leak is detected as specified in §§60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, 60.482-11a, and 60.483-2a, the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:
	(1) The instrument and operator identification numbers and the equipment identification number, except when indications of liquids dripping from a pump are designated as a leak.
	(2) The date the leak was detected and the dates of each attempt to repair the leak.
	(3) Repair methods applied in each attempt to repair the leak.
	(4) Maximum instrument reading measured by Method 21 of appendix A-7 of this part at the

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Condition Number	Conditions
	time the leak is successfully repaired or determined to be nonrepairable, except when a pump is repaired by eliminating indications of liquids dripping.
	(5) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
	(6) The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown.
	(7) The expected date of successful repair of the leak if a leak is not repaired within 15 days.
	(8) Dates of process unit shutdowns that occur while the equipment is unrepaired.
	(9) The date of successful repair of the leak.
	(d) The following information pertaining to the design requirements for closed vent systems and control devices described in §60.482-10a shall be recorded and kept in a readily accessible location:
	(1) Detailed schematics, design specifications, and piping and instrumentation diagrams.
	(2) The dates and descriptions of any changes in the design specifications.
	(3) A description of the parameter or parameters monitored, as required in §60.482-10a(e), to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring.
	(4) Periods when the closed vent systems and control devices required in §§60.482-2a, 60.482-3a, 60.482-4a, and 60.482-5a are not operated as designed, including periods when a flare pilot light does not have a flame.
	(5) Dates of startups and shutdowns of the closed vent systems and control devices required in §§60.482-2a, 60.482-3a, 60.482-4a, and 60.482-5a.
	(e) The following information pertaining to all equipment subject to the requirements in §§60.482-1a to 60.482-11a shall be recorded in a log that is kept in a readily accessible location:
	(1) A list of identification numbers for equipment subject to the requirements of this subpart.
	(2)(i) A list of identification numbers for equipment that are designated for no detectable emissions under the provisions of §§60.482-2a(e), 60.482-3a(i), and 60.482-7a(f).
	(ii) The designation of equipment as subject to the requirements of §60.482-2a(e), §60.482-3a(i), or §60.482-7a(f) shall be signed by the owner or operator. Alternatively, the owner or operator may establish a mechanism with their permitting authority that satisfies this requirement.
	(3) A list of equipment identification numbers for pressure relief devices required to comply

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Condition Number	Conditions
	with §60.482-4a.
	(4)(i) The dates of each compliance test as required in §§60.482-2a(e), 60.482-3a(i), 60.482- 4a, and 60.482-7a(f).
	(ii) The background level measured during each compliance test.
	(iii) The maximum instrument reading measured at the equipment during each compliance test.
	(5) A list of identification numbers for equipment in vacuum service.
	(6) A list of identification numbers for equipment that the owner or operator designates as operating in VOC service less than 300 hr/yr in accordance with §60.482-1a(e), a description of the conditions under which the equipment is in VOC service, and rationale supporting the designation that it is in VOC service less than 300 hr/yr.
	(7) The date and results of the weekly visual inspection for indications of liquids dripping from pumps in light liquid service.
	(8) Records of the information specified in paragraphs (e)(8)(i) through (vi) of this section for monitoring instrument calibrations conducted according to sections 8.1.2 and 10 of Method 21 of appendix A-7 of this part and §60.485a(b).
	(i) Date of calibration and initials of operator performing the calibration.
	(ii) Calibration gas cylinder identification, certification date, and certified concentration.
	(iii) Instrument scale(s) used.
	(iv) A description of any corrective action taken if the meter readout could not be adjusted to correspond to the calibration gas value in accordance with section 10.1 of Method 21 of appendix A-7 of this part.
	(v) Results of each calibration drift assessment required by §60.485a(b)(2) (i.e., instrument reading for calibration at end of monitoring day and the calculated percent difference from the initial calibration value).
	(vi) If an owner or operator makes their own calibration gas, a description of the procedure used.
	(9) The connector monitoring schedule for each process unit as specified in §60.482- 11a(b)(3)(v).
	(10) Records of each release from a pressure relief device subject to §60.482-4a.
	(f) The following information pertaining to all valves subject to the requirements of §60.482- 7a(g) and (h), all pumps subject to the requirements of §60.482-2a(g), and all connectors subject to the requirements of §60.482-11a(e) shall be recorded in a log that is kept in a readily

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Condition Number	Conditions
	accessible location:
	(1) A list of identification numbers for valves, pumps, and connectors that are designated as unsafe-to-monitor, an explanation for each valve, pump, or connector stating why the valve, pump, or connector is unsafe-to-monitor, and the plan for monitoring each valve, pump, or connector.
	(2) A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve.
	(g) The following information shall be recorded for valves complying with §60.483-2a:
	(1) A schedule of monitoring.
	(2) The percent of valves found leaking during each monitoring period.
	(h) The following information shall be recorded in a log that is kept in a readily accessible location:
	(1) Design criterion required in §§60.482-2a(d)(5) and 60.482-3a(e)(2) and explanation of the design criterion; and
	(2) Any changes to this criterion and the reasons for the changes.
	(i) The following information shall be recorded in a log that is kept in a readily accessible location for use in determining exemptions as provided in §60.480a(d):
	(1) An analysis demonstrating the design capacity of the affected facility,
	(2) A statement listing the feed or raw materials and products from the affected facilities and an analysis demonstrating whether these chemicals are heavy liquids or beverage alcohol, and
	(3) An analysis demonstrating that equipment is not in VOC service.
	(j) Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location.
	(k) The provisions of §60.7(b) and (d) do not apply to affected facilities subject to this subpart.
	40 CFR 60.487a – Reporting requirements.
	(a) Each owner or operator subject to the provisions of this subpart shall submit semiannual reports to the Administrator beginning 6 months after the initial startup date.
	(b) The initial semiannual report to the Administrator shall include the following information:
	(1) Process unit identification.
	(2) Number of valves subject to the requirements of §60.482-7a, excluding those valves

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Condition Number	Conditions
	designated for no detectable emissions under the provisions of §60.482-7a(f).
	(3) Number of pumps subject to the requirements of §60.482-2a, excluding those pumps designated for no detectable emissions under the provisions of §60.482-2a(e) and those pumps complying with §60.482-2a(f).
	(4) Number of compressors subject to the requirements of §60.482-3a, excluding those compressors designated for no detectable emissions under the provisions of §60.482-3a(i) and those compressors complying with §60.482-3a(h).
	(5) Number of connectors subject to the requirements of §60.482-11a.
	(c) All semiannual reports to the Administrator shall include the following information, summarized from the information in §60.486a:
	(1) Process unit identification.
	(2) For each month during the semiannual reporting period,
	(i) Number of valves for which leaks were detected as described in §60.482-7a(b) or §60.483-2a,
	(ii) Number of valves for which leaks were not repaired as required in §60.482-7a(d)(1),
	(iii) Number of pumps for which leaks were detected as described in §60.482-2a(b), (d)(4)(ii)(A) or (B), or (d)(5)(iii),
	(iv) Number of pumps for which leaks were not repaired as required in §60.482-2a(c)(1) and (d)(6),
	(v) Number of compressors for which leaks were detected as described in §60.482-3a(f),
	(vi) Number of compressors for which leaks were not repaired as required in §60.482- 3a(g)(1),
	(vii) Number of connectors for which leaks were detected as described in §60.482-11a(b)
	(viii) Number of connectors for which leaks were not repaired as required in §60.482- 11a(d), and
	(ix)-(x) [Reserved]
	(xi) The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.
	(3) Dates of process unit shutdowns which occurred within the semiannual reporting period.
	(4) Revisions to items reported according to paragraph (b) of this section if changes have occurred since the initial report or subsequent revisions to the initial report.
	(d) An owner or operator electing to comply with the provisions of §§60.483-1a or 60.483-2a

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Condition Number	Conditions
	shall notify the Administrator of the alternative standard selected 90 days before implementing either of the provisions.
	(e) An owner or operator shall report the results of all performance tests in accordance with §60.8 of the General Provisions. The provisions of §60.8(d) do not apply to affected facilities subject to the provisions of this subpart except that an owner or operator must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests.
	(f) The requirements of paragraphs (a) through (c) of this section remain in force until and unless EPA, in delegating enforcement authority to a state under section 111(c) of the CAA, approves reporting requirements or an alternative means of compliance surveillance adopted by such state. In that event, affected sources within the state will be relieved of the obligation to comply with the requirements of paragraphs (a) through (c) of this section, provided that they comply with the requirements established by the state.
	40 CFR 60.488a – Reconstruction.
	For the purposes of this subpart:
	(a) The cost of the following frequently replaced components of the facility shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital costs that would be required to construct a comparable new facility" under §60.15: Pump seals, nuts and bolts, rupture disks, and packings.
	(b) Under §60.15, the "fixed capital cost of new components" includes the fixed capital cost of all depreciable components (except components specified in §60.488a(a)) which are or will be replaced pursuant to all continuous programs of component replacement which are commenced within any 2-year period following the applicability date for the appropriate subpart. (See the "Applicability and designation of affected facility" section of the appropriate subpart.) For purposes of this paragraph, "commenced" means that an owner or operator has undertaken a continuous program of component replacement or that an owner or operator has entered into a contractual obligation to undertake and complete, within a reasonable time, a continuous program of component replacement.
	40 CFR 60.489a – List of chemicals produced by affected facilities.
	Process units that produce, as intermediates or final products, chemicals listed in §60.489 are covered under this subpart. The applicability date for process units producing one or more of these chemicals is November 8, 2006.
	Emission Unit ID: 18, 20 Equipment ID: 26B (GB01, GA01, GC01), 26K (EA-02, EB-02): 30B
C.11	These sources are subject to New Source Performance Standards (NSPS). 40 CFR 60 Subpart A.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	General Provisions and Subpart NNN, Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations, and S.C. Regulation 61-62.60 Subparts A and NNN, Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations, as applicable. These sources shall comply with all applicable requirements of Subparts A and NNN.
	Subpart NNN
	40 CFR 60.660 - Applicability and designation of affected facility.
	(a) The provisions of this subpart apply to each affected facility designated in paragraph (b) of this section that is part of a process unit that produces any of the chemicals listed in §60.667 as a product, co-product, by-product, or intermediate, except as provided in paragraph (c).
	(b) The affected facility is any of the following for which construction, modification, or reconstruction commenced after December 30, 1983:
	(1) Each distillation unit not discharging its vent stream into a recovery system.
	(2) Each combination of a distillation unit and the recovery system into which its vent stream is discharged.
	(3) Each combination of two or more distillation units and the common recovery system into which their vent streams are discharged.
	(c) Exemptions from the provisions of paragraph (a) of this section are as follows:
	(1) Any distillation unit operating as part of a process unit which produces coal tar or beverage alcohols, or which uses, contains, and produces no VOC is not an affected facility.
	(2) Any distillation unit that is subject to the provisions of subpart DDD is not an affected facility.
	(3) Any distillation unit that is designed and operated as a batch operation is not an affected facility.
	(4) Each affected facility that has a total resource effectiveness (TRE) index value greater than 8.0 is exempt from all provisions of this subpart except for §§60.662; 60.664 (e), (f), and (g); and 60.665 (h) and (l).

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Condition Number	Conditions
	(5) Each affected facility in a process unit with a total design capacity for all chemicals produced within that unit of less than one gigagram per year is exempt from all provisions of this subpart except for the recordkeeping and reporting requirements in paragraphs (j), (l)(6), and (n) of §60.665.
	(6) Each affected facility operated with a vent stream flow rate less than 0.008 scm/min is exempt from all provisions of this subpart except for the test method and procedure and the recordkeeping and reporting requirements in §60.664(h) and paragraphs (i), (l)(5), and (o) of §60.665.
	40 CFR 60.662 – Standards.
	Each owner or operator of any affected facility shall comply with paragraph (a), (b), or (c) of this section for each vent stream on and after the date on which the initial performance test required by §§60.8 and 60.664 is completed, but not later than 60 days after achieving the maximum production rate at which the affected facility will be operated, or 180 days after the initial start-up, whichever date comes first. Each owner or operator shall either:
	(a) Reduce emissions of TOC (less methane and ethane) by 98 weight-percent, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. If a boiler or process heater is used to comply with this paragraph, then the vent stream shall be introduced into the flame zone of the boiler or process heater; or
	(b) Combust the emissions in a flare that meets the requirements of §60.18; or
	(c) Maintain a TRE index value greater than 1.0 without use of VOC emission control devices.
	40 CFR 60.663 – Monitoring of emissions and operations.
	(a) – (d)
	(e) The owner or operator of an affected facility that seeks to comply with the TRE index value limit specified under §60.662(c) shall install, calibrate, maintain, and operate according to manufacturer's specifications the following equipment, unless alternative monitoring procedures or requirements are approved for that facility by the Administrator:
	(1) Where an absorber is the final recovery device in the recovery system: (i) A scrubbing liquid temperature monitoring device having an accuracy of ±1 percent of

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Condition Number	Conditions
	the temperature being monitored expressed in degrees Celsius or ± 0.5 °C, whichever is greater, and a specific gravity monitoring device having an accuracy of ± 0.02 specific gravity units, each equipped with a continuous recorder, or
	(ii) An organic monitoring device used to indicate the concentration level of organic compounds exiting the recovery device based on a detection principle such as infrared, photoionization, or thermal conductivity, each equipped with a continuous recorder.
	(2) Where a condenser is the final recovery device in the recovery system:
	(i) A condenser exit (product side) temperature monitoring device equipped with a continuous recorder and having an accuracy of ± 1 percent of the temperature being monitored expressed in degrees Celsius or ± 0.5 °C, whichever is greater, or
	(ii) An organic monitoring device used to monitor organic compounds exiting the recovery device based on a detection principle such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.
	(3) Where a carbon adsorber is the final recovery device unit in the recovery system:
	(i) An integrating steam flow monitoring device having an accuracy of ± 10 percent, and a carbon bed temperature monitoring device having an accuracy of ± 1 percent of the temperature being monitored expressed in degrees Celsius or ± 0.5 °C, whichever is greater, both equipped with a continuous recorder, or
	(ii) An organic monitoring device used to indicate the concentration level of organic compounds exiting the recovery device based on a detection principle such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.
	(f)
	40 CFR 60.664 – Test methods and procedures.
	(a) For the purpose of demonstrating compliance with §60.662, all affected facilities shall be run at full operating conditions and flow rates during any performance test.
	(b) – (d)
	(e) The following test methods in appendix A to this part, except as provided under §60.8(b), shall be used for determining the net heating value of the gas combusted to determine

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Condition Number	Conditions
	compliance under §60.662(b) and for determining the process vent stream TRE index value to determine compliance under §60.662(c).
	(1) (i) Method 1 or 1A, as appropriate, for selection of the sampling site. The sampling site for the vent stream flow rate and molar composition determination prescribed in §60.664(e)(2) and (3) shall be, except for the situations outlined in paragraph (e)(1)(ii) of this section, prior to the inlet of any control device, prior to any post-distillation dilution of the stream with air, and prior to any post-distillation introduction of halogenated compounds into the process vent stream. No transverse site selection method is needed for vents smaller than 10 centimeters (4 inches) in diameter.
	(ii)
	(2) The molar composition of the process vent stream shall be determined as follows:
	(i) Method 18 to measure the concentration of TOC including those containing halogens.
	(ii) ASTM D1946-77 or 90 (Reapproved 1994) (incorporation by reference as specified in §60.17 of this part) to measure the concentration of carbon monoxide and hydrogen.
	(iii) Method 4 to measure the content of water vapor.
	(3) The volumetric flow rate shall be determined using Method 2, 2A, 2C, or 2D, as appropriate.
	(4) The net heating value of the vent stream shall be calculated using the following equation:
	$H_T = K_1 \left(\sum_{j=1}^n C_j H_j \right)$
	where:
	$\rm H_T$ = Net heating value of the sample, MJ/scm (Btu/scf), where the net enthalpy per mole of vent stream is based on combustion at 25 °C and 760 mm Hg (77 °F and 30 in. Hg), but the standard temperature for determining the volume corresponding to one mole is 20 °C (68 °F).
	$K_1 = 1.74 \times 10^{-7}$ (1/ppm) (g-mole/scm) (MJ/kcal) (metric units), where standard temperature

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	for (g-mole/scm) is 20 °C.
	= 1.03×10^{-11} (1/ppm) (lb-mole/scf) (Btu/kcal) (English units) where standard temperature for (lb/mole/scf) is 68 °F.
	C_j = Concentration on a wet basis of compound j in ppm, as measured for organics by Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-77 or 90 (Reapproved 1994) (incorporation by reference as specified in §60.17 of this part) as indicated in §60.664(e)(2).
	H_j = Net heat of combustion of compound j, kcal/(g-mole) [kcal/(lb-mole)], based on combustion at 25 °C and 760 mm Hg (77 °F and 30 in. Hg).
	The heats of combustion of vent stream components would be required to be determined using ASTM D2382-76 (incorporation by reference as specified in §60.17 of this part) if published values are not available or cannot be calculated.
	(5) The emission rate of TOC in the vent stream shall be calculated using the following equation:
	$E_{TOC} = K_2 \left[\sum_{j=1}^{n} C_j M_j \right] Q_j$
	where:
	E _{TOC} = Measured emission rate of TOC, kg/hr (lb/hr).
	K_2 = 2.494 × 10 ⁻⁶ (1/ppm) (g-mole/scm) (kg/g) (min/hr) (metric units), where standard temperature for (g-mole/scm) is 20 °C.
	= 1.557 × 10 ⁻⁷ (1/ppm) (lb-mole/scf) (min/hr) (English units), where standard temperature for (lb-mole/scf) is 68 °F.
	C_j = Concentration on a wet basis of compound j in ppm, as measured by Method 18 as indicated in §60.664(e)(2).
	M _j = Molecular weight of sample j, g/g-mole (lb/lb-mole).
	Q _s = Vent stream flow rate, scm/min (scf/min), at a temperature of 20 °C (68 °F).

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Condition Number	Conditions
	(6) The total process vent stream concentration (by volume) of compounds containing halogens (ppmv, by compound) shall be summed from the individual concentrations of compounds containing halogens which were measured by Method 18.
	(f) For purposes of complying with §60.662(c) the owner or operator of a facility affected by this subpart shall calculate the TRE index value of the vent stream using the equation for incineration in paragraph (e)(1) of this section for halogenated vent streams. The owner or operator of an affected facility with a nonhalogenated vent stream shall determine the TRE index value by calculating values using both the incinerator equation in (e)(1) and the flare equation in (e)(2) of this section and selecting the lower of the two values.
	40 CFR 60.665 – Reporting and recordkeeping requirements.
	(a) Each owner or operator subject to §60.662 shall notify the Administrator of the specific provisions of §60.662 (§60.662 (a), (b), or (c)) with which the owner or operator has elected to comply. Notification shall be submitted with the notification of initial start-up required by §60.7(a)(3). If an owner or operator elects at a later date to use an alternative provision of §60.662 with which he or she will comply, then the Administrator shall be notified by the owner or operator 90 days before implementing a change and, upon implementing the change, a performance test shall be performed as specified by §60.664 within 180 days.
	(b) Each owner or operator subject to the provisions of this subpart shall keep an up-to-date, readily accessible record of the following data measured during each performance test, and also include the following data in the report of the initial performance test required under §60.8. Where a boiler or process heater with a design heat input capacity of 44 MW (150 million Btu/hour) or greater is used to comply with §60.662(a), a report containing performance test data need not be submitted, but a report containing the information in §60.665(b)(2)(i) is required. The same data specified in this section shall be submitted in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined.
	(1) – (3)
	(4) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with §60.662(c):
	(i) Where an absorber is the final recovery device in the recovery system, the exit specific gravity (or alternative parameter which is a measure of the degree of absorbing liquid

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Condition Number	Conditions
	saturation, if approved by the Administrator), and average exit temperature, of the absorbing liquid measured at least every 15 minutes and averaged over the same time period of the performance testing (both measured while the vent stream is normally routed and constituted), or
	(ii) Where a condenser is the final recovery device in the recovery system, the average exit (product side) temperature measured at least every 15 minutes and averaged over the same time period of the performance testing while the vent stream is routed and constituted normally, or
	(iii) Where a carbon adsorber is the final recovery device in the recovery system, the total steam mass flow measured at least every 15 minutes and averaged over the same time period of the performance test (full carbon bed cycle), temperature of the carbon bed after regeneration (and within 15 minutes of completion of any cooling cycle(s)), and duration of the carbon bed steaming cycle (all measured while the vent stream is routed and constituted normally), or
	(iv) As an alternative to §60.665(b)(4) ((i), (ii) or (iii), the concentration level or reading indicated by the organics monitoring device at the outlet of the absorber, condenser, or carbon adsorber, measured at least every 15 minutes and averaged over the same time period of the performance testing while the vent stream is normally routed and constituted.
	(v) All measurements and calculations performed to determine the TRE index value of the vent stream.
	(c) –(f)
	(g) Each owner or operator subject to the provisions of this subpart shall keep up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored under §60.663(e), as well as up-to-date, readily accessible records of periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. The Administrator may at any time require a report of these data. Where an owner or operator seeks to comply with §60.662(c), periods of operation during which the parameter boundaries established are exceeded are defined as follows:
	(1) Where an absorber is the final recovery device in a recovery system, and where an organic compound monitoring device is not used:

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Condition Number	Conditions
	(i) All 3-hour periods of operation during which the average absorbing liquid temperature was more than 11 °C (20 °F) above the average absorbing liquid temperature during the most recent performance test, or
	(ii) All 3-hour periods of operation during which the average absorbing liquid specific gravity was more than 0.1 unit above, or more than 0.1 unit below, the average absorbing liquid specific gravity during the most recent performance test (unless monitoring of an alternative parameter, which is a measure of the degree of absorbing liquid saturation, is approved by the Administrator, in which case he will define appropriate parameter boundaries and periods of operation during which they are exceeded).
	(2) Where a condenser is the final recovery device in a system, and where an organic compound monitoring device is not used, all 3-hour periods of operation during which the average exit (product side) condenser operating temperature was more than 6 °C (1 1 °F) above the average exit (product side) operating temperature during the most recent performance test.
	(3) Where a carbon adsorber is the final recovery device in a system, and where an organic compound monitoring device is not used:
	(i) All carbon bed regeneration cycles during which the total mass steam flow was more than 10 percent below the total mass steam flow during the most recent performance test, or
	(ii) All carbon bed regeneration cycles during which the temperature of the carbon bed after regeneration (and after completion of any cooling cycle(s)) was more than 10 percent greater than the carbon bed temperature (in degrees Celsius) during the most recent performance test.
	(4) Where an absorber, condenser, or carbon adsorber is the final recovery device in the recovery system and where an organic compound monitoring device is used, all 3-hour periods of operation during which the average organic compound concentration level or reading of organic compounds in the exhaust gases is more than 20 percent greater than the exhaust gas organic compound concentration level or reading device during the most recent performance test.
	(h) Each owner or operator of an affected facility subject to the provisions of this subpart and seeking to demonstrate compliance with §60.662(c) shall keep up-to-date, readily accessible records of:

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions					
	(1) Any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit;					
	(2) Any recalculation of the TRE index value performed pursuant to §60.664(g); and					
	(3) The results of any performance test performed pursuant to the methods and procedur required by §60.664(e).					
	(i) – (j)					
	(k) Each owner and operator subject to the provisions of this subpart is exempt from the quarterly reporting requirements contained in §60.7(c) of the General Provisions.					
	(l) – (p)					
	Emission Unit ID: 18 Equipment ID: 26A, 26A2, 26B, 26C1, 26C2, 26C3, 26P, 26R, 26S, 26Z, 26AA, 26AC Control Device ID: PCO26S, PCO26Z, SCR26A, SCR26A2, DC26AC					
C.12	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.					
C 12	Emission Unit ID: 18 Equipment ID: 26C4, 26C5, 26C6, 26D, 26E, 26F, 26G, 26H, 26I, 26K, 26L, 26O, 26U Control Device ID: DC26F, PCO26U					
C.13	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began on or before December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 40%, each.					
C.14	Emission Unit ID: 18, 23, 24, 26, 27, 32, 33 Equipment ID: 26F, 26O, 26R, 26AC, 26S, 26U, 26Z; 0501, 0519, 0520, 0521, 0522, 0524, 0527; 2203, 2205, 2206, 2208; 200A, 201A, 201C, 203B, 203E, 203F, 2004, 2005, 2006; 2428, 2459, 2450. 2453, 2456, 2460, 2451, 2454, 2457, 2461, 2452, 2455, 2458, 2462; 3201, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3214, 3229, 3230; 32B, 32C, 32D, 32K, 32L, 32M, 32N, 32O, 32P, 32S, 32U; 2802, 2803, 2804 Control Device ID: DC26F, PCO26S, PCO26U, PCO26Z; CTX0527/SCR0513; DC2205, DC2208; DC201A, DC201C, DC203B, DC203E, DC203F; DC2428, DC2450, DC2453, DC2456, DC2451, DC2454, DC2457, DC2452, DC2455, DC2458; DC3201, DC3212, DC3229, DC3230; V1H-F-01, PCO32U, DCV1B-Y-77, DCV2B-Y-77; DC28B, DC28C, DC28D					
	(S.C. Regulation 61-62.5, Standard No. 4, Section VIII) Particulate matter emissions shall be limited to the rate specified by use of the following equations:					

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions				
	For process weight rates less than or equal to 30 tons per hour				
	$E = (F) 4.10P^{0.67}$ and				
	For process weight rates greater than 30 tons per hour				
	$E = (F) 55.0P^{0.11} - 40$				
	Where E = the allowable emission rate in pounds per hour P = process weight rate in tons per hour F = offect factor from Table B in S.C. Degulation 61 62 5. Standard No. 4				
	F = effect factor from fable B in S.C. Regulation 61-62.5, Standard No. 4 For the purposes of compliance with this condition, the process boundaries are defined as follows:				
		Process/Equipment IDs	Max Process Weight Rate (ton/hr)		
		18 - 26F, 26O, 26R, 26AC, 26S, 26U, 26Z	97.89		
		Melt Phase Production - 23 (0501, 0519, 0520, 0521, 0522, 0524, 0527) 24 (2208): 25 (201A)	28.03		
		Solid Stating K Lines - 25 (200A, 201C, 203B, 203E, 203F, 2004, 2005, 2006)	18.4		
		Solid Stating L Lines - 24 (2203, 2205, 2206) 26 (2428, 2459, 2450. 2453, 2456, 2460, 2451, 2454, 2457, 2461, 2452, 2455, 2458, 2462) 27 (3201, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3214, 3229, 3230)	23.0		
		IntegRex - 32 (32B, 32C, 32D, 32K, 32L, 32M, 32N, 32O, 32P, 32S, 32U)	72.66		
		33/2802, 2803, 2804	18.00, each	_	
		33/2801	1,011		
C.15	Emission Unit ID Equipment ID: 20 26D, 26E, 26F, 260 Control Device II	: 18 5A, 26A2, 26B, 26C1, 26C2, 26C3, 26P, 26 G, 26H, 26I, 26L, 26U D: PCO26S, PCO26Z, SCR26A, SCR26A2,	5R, 26S, 26Z, 26AA, 26AC, DC26AC, DC26F, PCO26U	26C4, 26C5, 26C6,	
	operation. Logs sl light), cause, and during the requir	tor snall perform a visual inspection on a hall be kept to record all visual inspectio corrective action taken for any abnorr red visual inspection time frame, the lo	i scheduled basis listed be ns, noting color, duration mal emissions. If a sourc og shall indicate such. Th	elow during source , density (heavy or e did not operate e owner/operator	

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.
	 Daily: Emission Unit 18 – 26F/DC26F Weekly: Emission Unit 18 – 26AC/DC26AC
	 Quarterly: Emission Unit 18 – 26R
	 Semiannually: Emission Unit 18 - 26A & 26AA/SCR26A, 26A2/SCR26A2, 26B, 26C1, 26C2, 26C3, 26P, 26S/PCO26S, 26Z/PCO26Z, 26AA, 26C4, 26C5, 26C6, 26D, 26E, 26G, 26H, 26I, 26L, 26U/PCO26U
	Emission Unit ID: 18
C.16	Equipment ID: 26K (PX-C-01, MP-01, 02, 03, UP-C-01, 02, 03, FA-01, FB-01, FC-01, FD-01, FE-01, FF-01) These sources are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Provisions and Subpart III, Standards of Performance for Volatile Organic Compound (VOC) Emissions From the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation Unit Processes, and S.C. Regulation 61-62.60 Subparts A and III, Standards of Performance for Volatile Organic Compound (VOC) Emissions From the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation Unit Processes, as applicable. These sources shall comply with all applicable requirements of Subparts A and III.
	Subpart III
	40 CFR 60.110 - Applicability and designation of affected facility.
	(a) The provisions of this subpart apply to each affected facility designated in paragraph (b) of this section that produces any of the chemicals listed in § 60.617 as a product, co-product, by-product, or intermediate, except as provided in paragraph (c) of this section.
	(b) The affected facility is any of the following for which construction, modification, or

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	reconstruction commenced after October 21, 1983:
	(1) Each air oxidation reactor not discharging its vent stream into a recovery system.
	(2) Each combination of an air oxidation reactor and the recovery system into which its vent stream is discharged.
	(3) Each combination of two or more air oxidation reactors and the common recovery system into which their vent streams are discharged.
	(c) Each affected facility that has a total resource effectiveness (TRE) index value greater than 4.0 is exempt from all provisions of this subpart except for §§ 60.612, 60.614(f), 60.615(h), and 60.615(l).
	(d)
	40 CFR 60.612 - Standards.
	Each owner or operator of any affected facility shall comply with paragraph (a), (b), or (c) of this section for each vent stream on and after the date on which the initial performance test required by §§ 60.8 and 60.614 is completed, but not later than 60 days after achieving the maximum production rate at which the affected facility will be operated, or 180 days after the initial start-up, whichever date comes first. Each owner or operator shall either:
	(a) Reduce emissions of TOC (minus methane and ethane) by 98 weight-percent, or to a TOC (minus methane and ethane) concentration of 20 ppmv on a dry basis corrected to 3 percent oxygen, whichever is less stringent. If a boiler or process heater is used to comply with this paragraph, then the vent stream shall be introduced into the flame zone of the boiler or process heater; or
	(b) Combust the emissions in a flare that meets the requirements of § 60.18; or
	(c) Maintain a TRE index value greater than 1.0 without use of VOC emission control devices.
	40 CFR 60.614 - Test methods and procedures.
	(a) – (e)
	(f) For purposes of complying with § 60.612(c), the owner or operator of a facility affected by this subpart shall calculate the TRE index value of the vent stream using the equation for

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	incineration in paragraph (e)(1) of this section for halogenated vent streams. The owner or operator of an affected facility with a nonhalogenated vent stream shall determine the TRE index value by calculating values using both the incinerator equation in paragraph (e)(1) of this section and the flare equation in paragraph (e)(2) of this section and selecting the lower of the two values.
	(1) The TRE index value of the vent stream controlled by an incinerator shall be calculated using the following equation:
	$TRE = \frac{1}{E_{TOC}} \left[a + b \left(Q_s \right)^{0.88} + c \left(Q_s \right) + d \left(Q_s \right) (H_T) + e \left(Q_s \right)^{0.88} (H_T)^{0.88} + f \left(Y_s \right)^{0.5} \right]$
	(i) Where for a vent stream flow rate that is greater than or equal to 14.2 scm/min (501 scf/min) at a standard temperature of 20 °C (68 °F):
	TRE = TRE index value.
	Q_s = Vent stream flow rate, scm/min (scf/min), at a temperature of 20 °C (68 °F).
	$\rm H_T$ = Vent stream net heating value, MJ/scm (Btu/scf), where the net enthalpy per mole of vent stream is based on combustion at 25 °C and 760 mm Hg (68 °F and 30 in. Hg), but the standard temperature for determining the volume corresponding to one mole is 20 °C (68 °F) as in the definition of Q _s .
	$Y_s = Q_s$ for all vent stream categories listed in table 1 except for Category E vent streams where $Y_s = Q_s H_T/3.6$.
	E _{TOC} = Hourly emissions of TOC, kg/hr (lb/hr). a, b, c, d, e, and f are coefficients.
	The set of coefficients which apply to a vent stream shall be obtained from table 1.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions					
	TABLE 1. AIR OXIDATION NSPS TRE COEFFICIENTS FOR VENT STREAMS CONTROLLED BY AN INCINERATOR					
	DESIGN CATEGORY A1. FOR HALOGENATED PROCESS VENT STREAMS, IF 0 ≤ NET HEATING VALUE (MJ/scm) ≤ 3.5 OR IF 0 ≤ NET HEATING VALUE (Btu/scf) ≤ 94:					
	Q _g = Vent Stream Flow rate a b c d e f					
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	DESIGN CATEGORY A2. FOR HALOGENATED PROCESS VENT STREAMS, IF NET HEATING VALUE < 3.5 (MJ/scm) OR IF NET HEATING VALUE < 94 (Btu/scf):					
	Q ₈ = Vent Stream Flow rate scm/min(sct/min)					
	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

$\begin{tabular}{ c c c c } \hline DESIGN CATEGORY B. \\ \hline Q_g = Vent Stream Flow rate $$scm/min(scf/min)$$ $$14.2 \le Q_g \le 1340$$ (501 \le Q_g \le 47,300)$$ $$140 \le Q_g \le 2690$$ $$(47,300 < Q_g \le 47,300)$$ $$2690 < Q_g \le 95,000$$$ $$2690 < Q_g \le 4040$$ $$(95,000 < Q_g \le 143,000)$$ $$DESIGN CATEGORY C. $$$DESIGN CATEGORY C. $$$$$$Q_g$ $$$$ $$$$$$$Update $$$scm/min(scf/min)$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	FOR NONH VALUE (MJ 8.54245 (18.83258) 16.94386 (37.35443) 25.34528 (55.87620) FOR NONH VALUE (MJ a 9.25233 (20.39769)	ALOGENATEI /scm) < 0.48 C 0.10555 (0.0065901) 0.11470 (0.0071614) 0.12042 (0.0075185) ALOGENTED /scm) ≤ 1.9 OF b 0.06105 (0.003512)	C 0.09030 (0.008647) 0.09030 (0.008647) 0.09030 (0.008647) 0.09030 (0.008647) 0.09030 (0.008647) PROCESS VE R IF 13 < NET I C 0.31937	d -0.17109 (-0.0039762) -0.17109 (-0.0039762) -0.17109 (-0.0039762) (-0.0039762) MT STREAMS, I HEATING VALUE d	6, IF 0 ≤ NET H E (Btu/scf) ≤ 1 e 0 (0) 0 (0) 0 (0) 0 (0) F 0.48 < NET H E (Btu/scf) ≤ 51	EATING 3: f 0.01025 (0.008803) 0.01449 (0.005376) 0.01775 (0.00658 HEATING : f
$\label{eq:generalized_stream} \begin{split} & Q_g = Vent Stream Flow rate $$scm/min(scf/min)$$ $$140$ $$(501 \le Q_g \le 47,300)$$ $$140$ $$(501 \le Q_g \le 47,300)$$ $$2690$ $$(47,300 < Q_g \le 95,000)$$ $$2690$ $$(47,300 < Q_g \le 95,000)$$ $$2690$ $$(95,000 < Q_g \le 143,000)$$ $$DESIGN CATEGORY C.$$ $$DESIGN CATEGORY C.$$$ $$DESIGN CATEGORY C.$$$ $$Q_g$ $$= Vent Stream Flow rate $$scm/min(scf/min)$$$ $$14.2 \le Q_g \le 1340$$$ $$(501 \le Q_g \le 47,300)$$$ $$140$ $$(501 \le Q_g \le 47,300)$$$$ $$140$ $$(501 \le Q_g \le 47,300)$$$$$$$$140$ $$(501 \le Q_g \le 47,300)$$$$$$$$$$$$$$$$$$$$140$ $$(501 \le Q_g \le 47,300)$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	a 8.54245 (18.83268) 16.94386 (37.35443) 25.34528 (55.87620) FOR NONH VALUE (MJ a 9.25233 (20.39769)	b 0.10555 (0.0065901) 0.11470 (0.0071614) 0.12042 (0.0075185) ALOGENTED /scm) ≤ 1.9 OF b 0.06105 (0.003812)	c 0.09030 (0.008647) 0.09030 (0.008647) 0.09030 (0.008647) PROCESS VE R IF 13 < NET I c 0.31937	d -0.17109 (-0.00039762) -0.17109 (-0.00039762) (-0.00039762) INT STREAMS, I HEATING VALUE d	e 0 (0) 0 (0) 0 (0) F 0.48 < NET 1 E (Btu/scf) ≤ 51	f 0.01025 (0.003803) 0.01449 (0.005376) 0.01775 (0.00658 HEATING : f
$\begin{array}{c} 14.2 \leq Q_{g} \leq 1340 \\ (501 \leq Q_{g} \leq 47,300) \\ 1340 \leq Q_{g} \leq 2690 \\ (47,300 \leq Q_{g} \leq 95,000) \\ 2690 \leq Q_{g} \leq 4040 \\ (95,000 \leq Q_{g} \leq 143,000) \end{array}$	8.54245 (18.83258) 16.94386 (37.35443) 25.34528 (55.87620) FOR NONH VALUE (MJ a 9.25233 (20.39769)	0.10555 (0.0065901) 0.11470 (0.0071614) 0.12042 (0.0075185) ALOGENTED /scm) ≤ 1.9 OF b 0.06105 (0.003512)	0.09030 (0.008647) 0.09030 (0.008647) 0.09030 (0.008647) PROCESS VE R IF 13 < NET I c 0.31937	-0.17109 (-0.00039762) -0.17109 (-0.00039762) -0.17109 (-0.00039762) (-0.00039762) INT STREAMS, I HEATING VALUE d	0 (0) 0 (0) 0 (0) F 0.48 < NET I E (Btu/scf) < 51	0.01025 (0.003803) 0.01449 (0.005376) 0.01775 (0.00658 HEATING
DESIGN CATEGORY C. $Q_g = Vent Stream Flow rate$ scm/min(scf/min) $14.2 \le Q_g \le 1340$ $(501 \le Q_g \le 47,300)$ $1340 \le Q_g \le 2690$	FOR NONH VALUE (MJ 9.25233 (20.39769)	ALOGENTED /scm) ≤ 1.9 OF b 0.06105 (0.003812)	PROCESS VE R IF 13 < NET F c 0.31937	NT STREAMS, I HEATING VALUE d	F 0.48 < NET I E (Btu/scf) < 51	HEATING : f
Q_{g} = Vent Stream Flow rate scm/min(scf/min) 14.2 < $Q_{g} < 1340$ (501 < $Q_{g} \le 47,300$) 1340 < $Q_{g} \le 2690$	a 9.25233 (20.39769)	0.06105	C 0.31937	d -0.16181	е	f
$14.2 \le Q_g \le 1340$ (501 $\le Q_g \le 47,300$) $1340 \le Q_g \le 2690$	9.25233 (20.39769)	0.06105	0.31937	-0.16181	0	
$(47,300 < Q_g \le 95,000)$ $2690 < Q_g \le 4040$ $(95,000 < Q_g \le 143,000)$	18.36363 (40.48446) 27.47492 (60.57121)	0.06635 (0.004143) 0.06965 (0.004349)	(0.030582) 0.31937 (0.030582) 0.31937 (0.030582)	(-0.00037605) -0.16181 (-0.00037605) -0.16181 (-0.00037605)	(0) 0 (0) 0 (0)	0.01025 (0.003803) 0.01449 (0.005376) 0.01775 (0.006585)
DESIGN CATEGORY D.	FOR NONH VALUE (MJ	IALOGENATEI /scm) ≤ 3.6 OF	D PROCESS V R IF 51 < NET 1	ENT STREAMS, HEATING VALUE	, IF 1.9 < NET E (Btu/scf) ≤ 97	HEATING
Q _s = Vent Stream Flow rate scm/min(scf/min)	а	b	с	d	e	f
$\begin{array}{l} 14.2 \leq Q_{\rm g} \leq 1180 \\ (501 \leq Q_{\rm g} \leq 41,700) \\ 1180 < Q_{\rm g} \leq 2370 \\ (41,700 < Q_{\rm g} \leq 83,700) \\ 2370 < Q_{\rm g} \leq 3550 \\ (83,700 < Q_{\rm g} \leq 125,000) \end{array}$	6.67868 (14.72392) 13.21633 (29.13672) 19.75396 (43.54962)	0.06943 (0.004335) 0.07546 (0.004711) 0.07922 (0.004946)	0.02582 (0.002472) 0.02582 (0.002472) 0.02582 (0.002472)	0 (D) 0 (0) 0 (0)	0 (D) 0 (O) 0 (O)	0.01025 (0.003803) 0.01449 (0.005376) 0.01775 (0.00658
Q ₈ = Vent Stream Flow rate scm/min(sct/min)	а	ь	с	d	е	f
$\begin{array}{c} 14.2 \le Y_{\rm g} \le 1180 \\ (501 \le Y_{\rm g} \le 41,700) \\ 1180 < Y_{\rm g} \le 2370 \\ (41,700 < Y_{\rm g} \le 83,700) \\ 2370 < Y_{\rm g} \le 3550 \\ (83,700 < Y_{\rm g} \le 125,000) \end{array}$	6.67868 (14.72382) 13.21633 (29.13672) 19.75398 (43.54962)	0 (0) 0 (0) 0 (0)	0 (0) 0 (0) 0 (0)	-0.00707 (-0.0000164) -0.00707 (-0.0000164) -0.00707 (-0.0000164)	0.02220 (0.0001174) 0.02412 (0.0001276) 0.02533 (0.0001340)	0.01025 (0.003803) 0.01449 (0.005376) 0.01775 (0.006585)
	$\begin{array}{c} (95,000 < Q_g < 143,000) \\ \\ \hline \\ DESIGN CATEGORY D. \\ \hline \\ Q_g = Vent Stream Flow rate scm/min(sct/min) \\ 14.2 \leq Q_g \leq 1180 \\ (501 \leq Q_g \leq 41,700) \\ 1180 < Q_g \leq 2370 \\ (41,700 < Q_g \leq 3250) \\ (33,700 < Q_g \leq 3550) \\ (83,700 < Q_g \leq 3550) \\ (83,700 < Q_g \leq 125,000) \\ \hline \\ \hline \\ Q_g = Vent Stream Flow rate scm/min(sct/min) \\ 14.2 \leq Y_g \leq 1180 \\ (501 \leq Y_g \leq 1180) \\ (501 \leq Y_g \leq 41,700) \\ 1180 < Y_g \leq 2370 \\ (41,700 < Y_g \leq 43,700) \\ 2370 < Y_g \leq 3550 \\ (83,700 < Y_g \leq 125,000) \\ \hline \end{array}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	(ii) Where for a vent stream flow rate that is less than 14.2 scm/min (501 scf/min) at a standard temperature of 20 °C (68 °F):
	TRE = TRE index value.
	Q _s = 14.2 scm/min (501 scf/min).
	$H_T = (FLOW)(HVAL)/Q_s.$
	Where the following inputs are used:
	FLOW = Vent stream flow rate, scm/min (scf/min), at a temperature of 20 °C (68 °F).
	HVAL = Vent stream net heating value, MJ/scm (Btu/scf), where the net enthalpy per mole of vent stream is based on combustion at 25 °C and 760 mm Hg (68 °F and 30 in. Hg), but the standard temperature for determining the volume corresponding to one mole is 20 °C (68 °F) as in the definition of Q_s .
	Y_s = Q_s for all vent stream categories listed in table 1 except for Category E vent streams where Y_s = $Q_sH_T/3.6$.
	E _{TOC} = Hourly emissions of TOC, kg/hr (lb/hr).
	a, b, c, d, e, and f are coefficients.
	The set of coefficients that apply to a vent stream can be obtained from table 1.
	(2) The equation for calculating the TRE index value of a vent stream controlled by a flare is as follows:
	$TRE = \frac{1}{E_{TOC}} \left[a(Q_s) + b(Q_s)^{0.8} + c(Q_s)(H_T) + d(E_{TOC}) + e \right]$
	where:
	TRE = TRE index value.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions					
	E _{TOC} = Hourly emissions of TOC, kg/hr (lb/hr).					
	Q_s = Vent stream flow rate, scm/min (scf/min), at a standard temperature of 20 °C (68 °F).					
	H_T = Vent stream net heating value, MJ/scm (Btu/scf), where the net enthalpy per mole of vent stream is based on combustion at 25 °C and 760 mm Hg (68 °F and 30 in. Hg), but the standard temperature for determining the volume corresponding to one mole is 20 °C (68 °F) as in the definition of Q_s .					
	a, b, c, d, and e are coefficients.					
	The set of coeffici	ients that appl	y to a vent strea	am shall be obtaine	ed from table 2.	
	Table 2—Air Oxidation Pro	ocesses NSPS	TRE Coefficients	for Vent Streams	Controlled by a	Flare
		a	b	С	d	е
	H _T < 11.2 MJ/scm	2.25	0.288	-0.193	(-0.0051	2.08
	(H _T < 301 Btu/scf)	(0.140)	(0.0367)	(-0.000448)	(-0.0051)	(4.59)
	H _T ≥ 11.2 MJ/scm	0.309	0.0619	-0.0043	-0.0034	2.08
	H _T ≥ 301 Btu/scf)	(0.0193)	(0.00788)	(-0.000010)	(-0.0034)	(4.59)
	(g) 40 CFR 60.615 - Reporting and recordkeeping requirements. (a) – (g)					
	(h) Each owner or op compliance with § 6	erator subject 0.612(c) shall k	to the provisior eep up-to-date	ns of this subpart ar , readily accessible	nd seeking to de records of:	monstrate
	(1) Any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or air oxidation reactors;					
	(2) Any recalculat	ion of the TRE	index value per	formed pursuant t	to § 60.614(f);	
	(3) The results of a required by § 60.0	any performar 614(d).	nce test perform	ned pursuant to the	e methods and p	procedures
	(l) The Administrator the owner or oper	^r will specify ap ator of an af	propriate repo fected facility s	rting and recordkee seeks to demonsti	eping requiremorate compliance	ents where e with the

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	standards specified under § 60.612 other than as provided under § 60.613(a), (b), (c), and (d).
	Emission Unit ID: 18, 23, 32, 33 Equipment ID: 2801 Control Device ID: PCO26S, PCO26U, PCO26Z; CTX0527, PCO32U
	(S.C. Regulation 61-62.5, Standard No. 3, Section III.I.1) Emissions from these sources shall not exhibit an opacity greater than 20%, each.
C.17	(S.C. Regulation 61-62.5, Standard No.3, Section III.I.2) Particulate matter emissions from these sources shall not exceed 0.5 lb/million Btu total heat input. The total heat input value from waste and virgin fuel used for production shall not exceed the Btus used to affect the combustion of the waste and shall not include any Btu input from auxiliary burners located outside of the primary combustion chamber such as those found in secondary combustion chambers, tertiary combustion chambers or afterburners unless those auxiliary burners are fired with waste. In the case where waste is fired in the auxiliary burners located outside of the pt waste is fired in the auxiliary burners located outside of the pt walue of the fuel for the auxiliary burner which is from waste shall be added to the total heat input value.
C.18	Emission Unit ID: 18 Equipment ID: 26S, 26U, 26Z Control Device ID: PCO26S, PCO26U, PCO26Z (S.C. Regulation 61-62.70.6 (a) (3)) The owner/operator shall continue to operate and maintain combustion zone indicators on each incinerator. Temperature readings shall be recorded at least every fifteen (15) minutes during source operation for each incinerator. Facilities with automated data collection may collect monitoring data on a more frequent basis and calculate the daily average. Readings collected when the source is shutdown or not operating may not be used in the calculation. The owner/operator must get approval from the Technical Management Section for an increased frequency/averaging plan prior to using averaging for parametric monitoring. The owner/operator shall continue to record daily, the calculated monitoring averages using the approved increased frequency/averaging plan unless prior approval is obtained from the Technical Management Section for changing the plan. Maintenance checks for proper temperature indicator operation shall be made on at least a weekly basis. The checks and any corrective actions shall be documented and kept on- site. Each incinerator shall be in place and operational whenever processes controlled by it are
	running, except during periods of flame incinerator malfunction or mechanical failure. Operational ranges for the monitored parameters have been established to ensure proper operation of the pollution control equipment. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment. The facility shall maintain the established ranges and supporting documentation for these monitored parameters. Operating ranges may be updated following submittal to the Director of the Air Permitting Division.

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Condition Number	Conditions
	Emission Unit ID: 18, 23, 32, 33 Equipment ID: 2801 Control Device ID: PCO26S, PCO26U, PCO26Z; CTX0527, PCO32U
C.19	(S.C. Regulation 61-62.5, Standard No. 3, Section V) Each waste stream shall comply with the Waste Analysis requirements of this Section. For each new waste stream (new source, changes in a source that would change waste characteristics or new supplier) for currently approved waste materials, the facility shall:
	 Classify all waste burned as either hazardous or non-hazardous. Each waste stream and each waste batch/shipment that is to be burned shall be identified by waste analysis or special knowledge of the waste for those air toxic compounds identified in <i>SC Regulation 62.5, Standard 8.</i> Each waste stream shall be analyzed for heat value; total halogen; Standard 3 metals; percent nitrogen; percent sulfur.
	Analytical methods shall be in accordance with South Carolina Regulation 61-62.5, Standard 3, Section V(H), unless alternative methods are approved by the Manager of Technical Management, Bureau of Air Quality. All information used to determine compliance with this section (that is, SDS, waste manifests, waste analyses) must be kept on-site for a period of five years and made available to the Department upon request.
	(S.C. Regulation 61-62.5, Standard No. 3, Section IX(D)) An exemption from all of the Operator Training Requirements in S.C. Regulations 61-62.5, Standard No. 3, Section IX(C) has been granted for the Regenerative Thermal Oxidizers (RTOs (PCO26S, PCO26U, PCO26Z, PCO32U), Catalytic Oxidizer (CTX0527)).
	Emission Unit ID: 18 Equipment ID: 26A, 26A2, 26AA
C.20	Control Device ID: SCR26A, SCR26A2 The owner/operator shall continue to operate, and maintain liquid flow meters, on each scrubber module. The monitored parameter shall be recorded at least every fifteen (15) minutes during source operation. Facilities with automated data collection may collect monitoring data on a more frequent basis and calculate the average. Readings collected when the source is shutdown or not operating may not be used in the calculation. The owner/operator must get approval from the Technical Management Section for an increased frequency/averaging plan prior to using averaging for parametric monitoring. The owner/operator shall continue to record daily, the calculated monitoring averages using the approved increased frequency/averaging plan unless prior approval is obtained from the Technical Management Section for changing the plan.
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	Operation and maintenance checks shall be made on at least a weekly basis. The checks and any corrective actions shall be documented and kept on-site. The scrubber shall be in place and operational whenever processes controlled by it are running, except during periods of scrubber malfunction or mechanical failure.
	Operational ranges for the monitored parameters have been established to ensure proper operation of the pollution control equipment. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment. The facility shall maintain the established ranges and supporting documentation for these monitored parameters. Operating ranges may be updated following submittal to the Director of the Air Permitting Division.
	Emission Unit ID: 18 Equipment ID: 26F Control Device ID: DC26F
	This source is subject to 40 CFR 64, Compliance Assurance Monitoring and shall comply with all applicable provisions.
C.21	To meet the requirements of 40 CFR 64 for ID 26F - CTA/PTA Product Storage Silos #1, #3 thru #6, each is equipped w/ a Dust Collector Convey Gas Exhaust Point (Silos DA-01, 03, 04, 05, and 06) of Emission Unit No. 18, the indicator for PM will be Visual Emissions. The owner/operator shall continue to perform daily Visual Inspections as the measurement approach. Daily Visual Inspections shall be used to provide assurance of compliance with S.C. Regulation 61-62.5, Standard No. 4, Section VIII. The 5 Silo Dust Collectors (CD26F) shall be in place and operational whenever processes controlled by it are running, except during periods of 5 Silo Dust Collectors (DC26F) malfunction or mechanical failure.
	The operational ranges for the Visual Emissions shall be no visible emissions. These operational ranges for the monitored parameters were derived from data, which demonstrate a reasonable assurance of compliance. Visual Emission readings shall be recorded daily.
	QA/QC practices, etc. shall consist of trained personnel performing preventative maintenance on units at least once every 4 years including the inspection and replacement of PSV and Rupture disks. The visual observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.
	An excursion is defined as any operating condition where the daily Visual Inspection is not performed, or the presence of visible emissions occurs. Upon detecting an excursion, the owner/operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated

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	capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing any startup, shutdown or malfunction period and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion (other than those caused by excused startup and shutdown conditions).
	The owner/operator shall develop, implement, and maintain a Quality Improvement Plan (QIP) as specified in §64.8, when a pollutant-specific emission unit has accumulated exceedances or excursions exceeding 5 percent duration of the unit's operating time for a reporting period, or when instructed to do so by the Department pursuant to §64.7(d)(2).
	A semiannual report for monitoring shall include, at a minimum, the information required under § 70.6(a)(3)(iii) and the following information as applicable:
	Summary information of the number, duration, and cause (including unknown cause, if applicable) of excursions, as applicable, and the corrective actions taken;
	Summary information on the number, duration, and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable);
	If applicable, a description of the actions taken to implement a Quality Improvement Plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner/operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions occurring.
	The owner/operator shall maintain records of monitoring data, monitor performance data, corrective action, and quality improvement plans. The records shall include calculations of the percent duration of accumulated exceedances or excursions during the reporting period per pollutant-specific emission unit, updated monthly.
	Emission Unit ID: 20 Equipment ID: 30A1 & 30A2, 30B Control Device ID: SCR30A
C.22	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.
C.23	Emission Unit ID: 20 Equipment ID: 30A1 & 30A2, 30B Control Device ID: SCR30A

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Condition Number	Conditions
	The owner/operator shall perform a visual inspection on a semiannual basis during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.
	Emission Unit ID: 20 Equipment ID: 30A1 & 30A2 Control Device ID: SCR30A
C.24	As originally allowed by Construction Permit No. 1560-0008-EV, bypassing the scrubber at vent 18M04A shall be allowed during periods of startup, planned shutdown or malfunctions. The total time period allowed to bypass the scrubber shall not exceed 240 hours per year. During periods of performing planned maintenance on the scrubber, the permittee shall record the date, time, duration, and the emissions emitted from Vent 18M04A. These records shall be kept for 5 years from the date of record and made available to the Department upon request.
C.25	Emission Unit ID: 23 Equipment ID: 0501, 0502, 0503, 0504, 0505, 0506, 0507A, 0507B, 0508, 0509, 0510, 0511, 0512, 0513, 0514, 0515A, 0515B, 0516, 0517, 0519, 0520, 0521, 0522, 0523, 0524, 0525, 0526, 0527, 7L01, 7L21, 7L20, 7L50, 7M03, 7M21, 7M50, 7M55, 7D60 A/B, 7E61 A/B, 7E61 C/D Control Device ID: CTX0527, SCR0513
	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.
C.26	Emission Unit ID: 23 Equipment ID: 0501, 0502, 0503, 0504, 0505, 0506, 0507A, 0507B, 0508, 0509, 0510, 0511, 0512, 0513, 0514, 0515A, 0515B, 0516, 0517, 0519, 0520, 0521, 0522, 0523, 0525, 0526, 0527, 7L01, 7L21, 7L20, 7L50, 7M03, 7M21, 7M50, 7M55, 7D60 A/B, 7E61 A/B, 7E61 C/D Control Device ID: CTX0527, SCR0513
	The owner/operator shall perform a visual inspection on a semiannual basis during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light),

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	cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.
	Emission Unit ID: 23 Equipment ID: 0527, 7L01, 7L21, 7L20, 502, 508, 7L50, 7M03, 7M21, 7M50, 7M55, 7D60 A/B, 7E61 A/B, 7E61 C/D Control Device ID: CTX0527
C.27	Note: For streamlining purposes the monitoring for S.C. Regulation 61-62.5, Standard No. 4 (<i>SC Std. 4</i>) uses <i>Part 63</i> monitoring methods; however, this is a <i>SC Std. 4</i> condition and not a <i>Part 63 (MACT)</i> condition.
	The owner/operator shall continue to operate and maintain temperature indicators immediately before and after the catalyst bed on each incinerator during source operation. The continuous monitoring of the inlet and outlet temperature, associated recordkeeping, and reporting requirements, per 40 CFR 63, Subpart JJJ shall be followed. The owner/operator shall also check the activity level of a representative sample of the catalyst at least every 12 months. The checks and any corrective actions shall be documented and kept on-site. Each catalytic incinerator shall be in place and operational whenever processes controlled by it are running, except during periods of catalytic incinerator malfunction or mechanical failure.
	Operational ranges for the monitored parameters have been established to ensure proper operation of the pollution control equipment. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment. The facility shall maintain the established ranges and supporting documentation for these monitored parameters. Operating ranges may be updated following submittal to the Director of the Air Permitting Division.
	Emission Unit ID: 23
C.28	A/B, 7E61 C/D Control Device ID: SCR0513
	The owner/operator shall continue to operate and maintain pressure drop indicators and liquid flow

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Condition Number	Conditions
	meters, on each scrubber module. The type of scrubbing media used each time the scrubber is in use shall be recorded. Each monitored parameter shall be recorded daily during source operation. Operation and maintenance checks shall be made on at least a weekly basis. The checks and any corrective actions shall be documented and kept on-site. The scrubber shall be in place and operational whenever processes controlled by it are running, except during periods of scrubber malfunction or mechanical failure.
	Operational ranges for the monitored parameters shall be established to ensure proper operation of the pollution control equipment. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment. These ranges and supporting documentation (certification from manufacturer, stack test results, 30 days of normal readings, opacity readings, etc.) shall be submitted to the Director of the Air Permitting Division within 180 days of the permit effective date. Operating ranges may be updated following submittal to the Department. The facility shall maintain the established ranges and supporting documentation for these monitored parameters.
	Emission Unit ID: 24
	Equipment ID: 2203, 2205, 2206, 2208
	Control Device ID: DC2205, DC2208
0.29	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began on or before December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 40%, each.
	Emission Unit ID: 24
	Equipment ID: 2203, 2205, 2206, 2208
	Control Device ID: DC2205, DC2208
C.30	The owner/operator shall perform a visual inspection on a scheduled basis listed below during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.

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Condition Number	Conditions		
	 Daily: Emission Unit 24 - 2205/DC2205 Monthly: Emission Unit 24 - 2208/DC2208 Semiannually: Emission Unit 24 - 2203, 2206 		
	Emission Unit ID: 24, 25, 26, 27, 32 Equipment ID: 2203, 2205, 2206, 2208; 201A, 201C, 203B, 203E, 203F; 2428, 2459, 2450, 2453, 2456, 2460, 2451, 2454, 2457, 2461, 2452, 2455, 2458, 2462; 3201, 3212, 3229, 3230; 32B, 32C Control Device ID: DC2205, DC2208; DC201A, DC201C, DC203B, DC203E, DC203F; DC2428, DC2450, DC2453, DC2456, DC2451, DC2454, DC2457, DC2452, DC2455, DC2458; DC3201, DC3212, DC3229, DC3230; DCV1B-Y-77, DCV2B-Y-77 The owner/operator shall continue to operate and maintain pressure drop gauge(s) on each module of each baghouse. Pressure drop readings for each baghouse shall be recorded daily during source operation. Facilities with automated data collection may collect monitoring data on a more frequent		
C.31	basis and calculate the daily average. Readings collected when the source is shutdown or not operating may not be used in the calculation. The owner/operator must get approval from the Technical Management Section for an increased frequency/averaging plan prior to using averaging for parametric monitoring. The owner/operator shall continue to record daily, the calculated monitoring averages using the approved increased frequency/averaging plan unless prior approval is obtained from the Technical Management Section for changing the plan.		
	Operation and maintenance checks shall be made on at least a weekly basis for baghouse cleaning systems, dust collection hoppers and conveying systems for proper operation. The checks and any corrective actions shall be documented and kept on-site. Each baghouse shall be in place and operational whenever processes controlled by it are running, except during periods of baghouse malfunction or mechanical failure.		
	Operational ranges for the monitored parameters shall be established to ensure proper operation of the pollution control equipment. These operational ranges for the monitored parameters shall be derived from vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment. These ranges and supporting documentation (certification from manufacturer, 30 days of normal readings, opacity readings, etc.) shall be submitted to the Director of the Air Permitting Division within 180 days of the permit effective date Operating ranges may be updated following submittal to the Department.		
C.32	Emission Unit ID: 25 Equipment ID: 200A, 201A, 201C, 202A, 20227, 202B, 2006, 203B, 203E, 203F, 2004, 2005 Control Device ID: CTX0527, DC201A, DC201C, SCR202A, SCR202B, DC203B, DC203E, DC203F		

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	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.		
	Emission Unit ID: 25 Equipment ID: 200A, 201A, 201C, 202A, 20227, 202B, 203B, 203E, 203F, 2004, Control Device ID: CTX0527, DC201A, DC201C, SCR202A, SCR202B, DC203B, DC203E, DC203F The owner/operator shall perform a visual inspection on a scheduled basis listed below during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.		
C.33	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.		
	 Daily: Emission Unit 25 - 203B/DC203B, 203E/DC203E, 203F/DC203F Monthly: Emission Unit 25 - 201A/DC201A, 201C/DC201C Semiannually: Emission Unit 25 - 200A, 202A/SCR202A, 20227/CTX0527 or SCR0513, 202B/SCR202B, 2004, 		
C.34	Emission Unit ID: 26 Equipment ID: 2428, 2459, 2450, 2453, 2456, 2460, 2451, 2454, 2457, 2461, 2452, 2455, 2458, 2462 Control Device ID: DC2428, DC2450, DC2453, DC2456, DC2451, DC2454, DC2457, DC2452, DC2455, DC2458		
	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.		
C.35	Emission Unit ID: 26 Equipment ID: 2428, 2459, 2450, 2453, 2456, 2460, 2451, 2454, 2457, 2461, 2452, 2455, 2458, 2462 Control Device ID: DC2428, DC2450, DC2453, DC2456, DC2451, DC2454, DC2457, DC2452, DC2455,		

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Condition Number	Conditions		
	DC2458		
	The owner/operator shall perform a visual inspection on a scheduled basis listed below during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.		
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.		
	 Daily: Emission Unit 26 - 2428/DC2428 Semiannually: Emission Unit 26 - 2459, 2450/DC2450, 2453/DC2453, 2456/DC2456, 2460, 2451/DC2451, 2454/DC2454, 2457/DC2457, 2461, 2452/DC2452, 2455/DC2455, 2458/DC2458, 2462 		
	Emission Unit ID: 27		
C 36	Equipment ID: 3201, 3208, 3209, 3210, 3211, 3212, 3214, 3229, 3230 Control Device ID: DC3201, DC3212, DC3229, DC3230		
0.50	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.		
	Emission Unit ID: 27 Equipment ID: 3201, 3208, 3209, 3210, 3211, 3212, 3214, 3229, 3230 Control Device ID: DC3201, DC3212, DC3229, DC3230		
C.37	The owner/operator shall perform a visual inspection on a scheduled basis listed below during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.		

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	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.
	 Monthly: Emission Unit 27 – 3201/DC3201, 3212/DC3212, 3229/DC3229, 3230/DC3230 Semiannually: Emission Unit 27 –3206, 3207, 3208, 3209, 3210, 3211, 3214
	Emission Unit ID: 29, 30 Equipment ID: 3301, 3401
C.38	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began on or before December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 40%, each.
C.39	Emission Unit ID: 29, 30 Equipment ID: 3301, 3401
	The owner/operator shall perform a visual inspection on a scheduled basis listed below during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.
	 Semiannually: Emission Unit 29 – 3301
	 Emission Unit 20 - 3401, 3407
C.40	Emission Unit ID: 32, 33 Equipment ID: 32K1, 1101, 1201, 1001, 3101, 2801

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Condition Number	Conditions
	• 32K1 – The Heat Transfer Medium (HTM) heater is permitted to burn only natural gas, process gaseous streams, and process wastewater vapors from the IntegRex process as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Department.
	• 1101, 1201, 1001 – Each Heat Transfer Medium (HTM) heater is permitted to burn natural gas only as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Department.
	• 3101 - Heat Transfer Medium (HTM) heater is permitted to burn natural gas and #2 virgin fuel oil (0.5% sulfur by weight or less) as a fuel. The use of any other substances as fuel is prohibited without prior written approval from the Department.
	• 2801 – Fluidized Bed Incinerator is permitted to burn natural gas, #2 virgin fuel oil (0.5% sulfur by weight or less), sludge from the IWWT plant, and waste from the polymer Monomers process (process liquids and off-gas). The use of any other substances is prohibited without prior written approval from the Department.
	Emission Unit ID: 32 Fauinment ID: 32K1
	These sources are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Provisions and Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, and S.C. Regulation 61-62.60 Subparts A and Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, as applicable. These sources shall comply with all applicable requirements of Subparts A and Db.
	Subpart Db
C.41	40 CFR 60.40b – Applicability and delegation of authority.
	(a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)).
	(b) – (m)
	40 CFR 60.44b - Standard For nitrogen oxides (NO2)
	(a) Except as provided under paragraphs (k) and (l) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8,

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Condition Number		Conditions	
	whichever date comes first, no owner or operator of an affected facility that is subject to th provisions of this section and that combusts only coal, oil, or natural gas shall cause to b discharged into the atmosphere from that affected facility any gases that contain NC (expressed as NO ₂) in excess of the following emission limits:		
	Fuel/steam generating unit type	Nitrogen oxide	emission limits (expressed as NO ₂) heat input
		ng/j	lb/MMBTu
	(1) Natural gas and distillate oil, except (4):		
	(i) Low heat release rate	43	0.10
	(ii) High heat release rate	86	0.20
	(2) – (4)		
	 40 CFR 60.46b - Compliance and performance and nitrogen oxides. (a) The PM emission standards and periods of startup, shutdown, or apply at all times. (b) (c) Compliance with the NO_x emists performance testing under paragras applicable. 	ormance test metho d opacity limits unde malfunction. The f sion standards und raph (e) or (f), or und	eds and procedures for particulate matter er §60.43b apply at all times except during NOX emission standards under §60.44b ler §60.44b shall be determined through der paragraphs (g) and (h) of this section,
	 (d) (e) To determine compliance with owner or operator of an affected five sector of an affected field of the sector of the se	n the emission limi facility shall conduct n for monitoring NO st, NO _X from the ste nit operating days a with the NO _X emissioned as the average	ts for NO _X required under §60.44b, the the performance test as required under x_X under §60.48(b). am generating unit are monitored for 30 and the 30-day average emission rate is fon standards under §60.44b. The 30-day of all bourly emissions data recorded by

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	the monitoring system during the 30-day test period.
	(2) Following the date on which the initial performance test is completed or is required to be completed in §60.8, whichever date comes first, the owner or operator of an affected facility which combusts coal (except as specified under §60.46b(e)(4)) or which combusts residual oil having a nitrogen content greater than 0.30 weight percent shall determine compliance with the NO _x emission standards in §60.44b on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated for each steam generating unit operating day as the average of all of the hourly NO _x emission data for the preceding 30 steam generating unit operating days.
	(3) Following the date on which the initial performance test is completed or is required to be completed under 60.8 , whichever date comes first, the owner or operator of an affected facility that has a heat input capacity greater than 73 MW (250 MMBtu/hr) and that combusts natural gas, distillate oil, or residual oil having a nitrogen content of 0.30 weight percent or less shall determine compliance with the NO _x standards under $60.44b$ on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NO _x emission data for the preceding 30 steam generating unit operating days.
	(4) Following the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less and that combusts natural gas, distillate oil, gasified coal, or residual oil having a nitrogen content of 0.30 weight percent or less shall upon request determine compliance with the NO _x standards in §60.44b through the use of a 30-day performance test. During periods when performance tests are not requested, NO _x emissions data collected pursuant to §60.48b(g)(1) or §60.48b(g)(2) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NO _x emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NO _x emission data for the preceding 30 steam generating unit operating days.
	(5) If the owner or operator of an affected facility that combusts residual oil does not sample and analyze the residual oil for nitrogen content, as specified in §60.49b(e), the requirements of §60.48b(g)(1) apply and the provisions of §60.48b(g)(2) are inapplicable.
	(f) – (j)
	40 CFR 60.48b - Emission monitoring for particulate matter and nitrogen oxides.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions			
	(a)			
	(b) of pai	Except as provided under paragraph an affected facility subject to a NC ragraphs (b)(1) or (b)(2) of this sectior	hs (g), (h), and (i) of this section, the owner or $\Omega_{\rm X}$ standard under §60.44b shall comply with n.	operator h either:
		(1) Install, calibrate, maintain, and emissions discharged to the atmosph	operate CEMS for measuring NO_X and O_2 nere, and shall record the output of the system	(or CO ₂) n; or
		(2) If the owner or operator has requirements of part 75 of this chapt of part 75 of this chapter, that CEMS except that the owner or operator reported to meet the requirements of missing data procedures in subpart D bias adjusted according to the proced	installed a NO _x emission rate CEMS to mer and is continuing to meet the ongoing requiremay be used to meet the requirements of this shall also meet the requirements of §60.49 bf §60.49 b shall not include data substituted to of part 75 of this chapter, nor shall the data had dures of part 75 of this chapter.	neet the rements section, 9b. Data using the ave been
	(c) du Da	The CEMS required under paragraph ring all periods of operation of the aff ta is recorded during calibration chec	(b) of this section shall be operated and data r fected facility except for CEMS breakdowns and tks, and zero and span adjustments.	recorded I repairs.
	(d) by lb/ The	The 1-hour average NO _x emission ran paragraph (b) of this section and re MMBtu heat input and shall be used e 1-hour averages shall be calculated	tes measured by the continuous NO _x monitor equired under §60.13(h) shall be expressed in to calculate the average emission rates under using the data points required under §60.13(h	required n ng/J or §60.44b. า)(2).
	(e) the	The procedures under §60.13 shall be continuous monitoring systems.	e followed for installation, evaluation, and ope	ration of
		(1) For affected facilities combusting c for a COMS shall be between 60 and	oal, wood or municipal-type solid waste, the sp 80 percent.	an value
		(2) For affected facilities combusting determined using one of the following and the following one of the followin	g coal, oil, or natural gas, the span value fo g procedures:	r NO _X is
	(i) Except as provided under paragraph (e)(2)(ii) of this section, NO_X span values shall be determined as follows:			shall be
		Fuel	Span values for NO _X (ppm)	

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	c	onditions
	Natural gas	500.
	Oil	500.
	Coal	1,000.
	Mixtures	500 (x + y) + 1,000z.
	Where:	
	x = Fraction of total heat input der	ived from natural gas;
	y = Fraction of total heat input der	ived from oil; and
	z = Fraction of total heat input der	ived from coal.
	(ii) As an alternative to meeting the owner or operator of an affected for according to section 2.1.2 in appen	e requirements of paragraph (e)(2)(i) of this section, the acility may elect to use the NO _X span values determined ndix A to part 75 of this chapter.
	(3) All span values computed under mixtures of regulated fuels are rour under paragraph (e)(2)(ii) of this sect appendix A to part 75 of this chapter	er paragraph (e)(2)(i) of this section for combusting nded to the nearest 500 ppm. Span values computed tion shall be rounded off according to section 2.1.2 in
	(f) When NO _x emission data are not obta checks and zero and span adjustmen monitoring systems, Method 7 of appen or other approved reference methods t of the operating hours in each steam g successive steam generating unit opera	ined because of CEMS breakdowns, repairs, calibration ts, emission data will be obtained by using standby dix A of this part, Method 7A of appendix A of this part, to provide emission data for a minimum of 75 percent generating unit operating day, in at least 22 out of 30 ting days.
	(g) The owner or operator of an affecte MMBtu/hr) or less, and that has an an content of 0.30 weight percent or less, r these fuels, greater than 10 percent (0.1	d facility that has a heat input capacity of 73 MW (250 nual capacity factor for residual oil having a nitrogen natural gas, distillate oil, gasified coal, or any mixture of 0) shall:
	(1) Comply with the provisions of par or	ragraphs (b), (c), (d), (e)(2), (e)(3), and (f) of this section;
	(2) Monitor steam generating unit op specified in a plan submitted pursua	perating conditions and predict NOX emission rates as nt to §60.49b(c).

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	(h)– (l)
	40 CFR 60.49b - Reporting And Recordkeeping Requirements
	(a)
	(b) The owner or operator of each affected facility subject to the SO ₂ , PM, and/or NO _x emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B of this part. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity.
	(c) The owner or operator of each affected facility subject to the NO _x standard in §60.44b who seeks to demonstrate compliance with those standards through the monitoring of steam generating unit operating conditions in the provisions of §60.48b(g)(2) shall submit to the Administrator for approval a plan that identifies the operating conditions to be monitored in §60.48b(g)(2) and the records to be maintained in §60.49b(g). This plan shall be submitted to the Administrator for approval within 360 days of the initial startup of the affected facility. An affected facility burning coke oven gas alone or in combination with other gaseous fuels or distillate oil shall submit this plan to the Administrator for approval within 360 days of the initial startup of the affected facility or by November 30, 2009, whichever date comes later. If the plan is approved, the owner or operator shall maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. The plan shall:
	(1) Identify the specific operating conditions to be monitored and the relationship between these operating conditions and NO_X emission rates (<i>i.e.</i> , ng/J or lbs/MMBtu heat input). Steam generating unit operating conditions include, but are not limited to, the degree of staged combustion (<i>i.e.</i> , the ratio of primary air to secondary and/or tertiary air) and the level of excess air (<i>i.e.</i> , flue gas O_2 level);
	(2) Include the data and information that the owner or operator used to identify the relationship between NO_X emission rates and these operating conditions; and
	(3) Identify how these operating conditions, including steam generating unit load, will be monitored under §60.48b(g) on an hourly basis by the owner or operator during the period of operation of the affected facility; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions	
	will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator under §60.49b(g).	
	(d) Except as provided in paragraph (d)(2) of this section, the owner or operator of an affected facility shall record and maintain records as specified in paragraph (d)(1) of this section.	
	(1) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.	
	(2) As an alternative to meeting the requirements of paragraph (d)(1) of this section, the owner or operator of an affected facility that is subject to a federally enforceable permit restricting fuel use to a single fuel such that the facility is not required to continuously monitor any emissions (excluding opacity) or parameters indicative of emissions may elect to record and maintain records of the amount of each fuel combusted during each calendar month.	
	(e) - (f)	
	(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the NO_X standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:	
	(1) Calendar date;	
	(2) The average hourly NO $_{\rm X}$ emission rates (expressed as NO $_2$) (ng/J or lb/MMBtu heat input) measured or predicted;	
	(3) The 30-day average NO _x emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;	
	(4) Identification of the steam generating unit operating days when the calculated 30-day average NO_X emission rates are in excess of the NO_X emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions	

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions	
	taken;	
	(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;	
	(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;	
	(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;	
	(8) Identification of the times when the pollutant concentration exceeded full span of the CEMS;	
	(9) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and	
	(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	
	(h) The owner or operator of any affected facility in any category listed in paragraphs (h)(1) or (2) of this section is required to submit excess emission reports for any excess emissions that occurred during the reporting period.	
	(1) Any affected facility subject to the opacity standards in §60.43b(f) or to the operating parameter monitoring requirements in §60.13(i)(1).	
	(2) Any affected facility that is subject to the NO _x standard of §60.44b, and that:	
	(i) Combusts natural gas, distillate oil, gasified coal, or residual oil with a nitrogen content of 0.3 weight percent or less; or	
	(ii) Has a heat input capacity of 73 MW (250 MMBtu/hr) or less and is required to monitor NO_X emissions on a continuous basis under §60.48b(g)(1) or steam generating unit operating conditions under §60.48b(g)(2).	
	(3) For the purpose of §60.43b, excess emissions are defined as all 6-minute periods during which the average opacity exceeds the opacity standards under §60.43b(f).	

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	(4) For purposes of $\$60.48b(g)(1)$, excess emissions are defined as any calculated 30-day rolling average NO _X emission rate, as determined under $\$60.46b(e)$, that exceeds the applicable emission limits in $\$60.44b$.
	(i) The owner or operator of any affected facility subject to the continuous monitoring requirements for NO _x under 60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.
	(j) – (n)
	(o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.
	(p) – (u)
	(v) The owner or operator of an affected facility may submit electronic quarterly reports for SO_2 and/or NO_x and/or opacity in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.
	(w) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30 th day following the end of the reporting period.
	(x) - (y)
	Emission Unit ID: 32 Equipment ID: 32K1
C.42	(S.C. Regulation 61-62.5, Standard No. 1, Section I) The fuel burning source(s) shall not discharge into the ambient air smoke which exceeds opacity of 20%, each. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions.
	S.C. Regulation 61-62.5, Standard No. 1, Section II) The maximum allowable discharge of particulate

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Condition Number	Conditions
	matter resulting from this source is 0.6 pounds per million BTU input.
	S.C. Regulation 61-62.5, Standard No. 1, Section III) The maximum allowable discharge of sulfur dioxide (SO ₂) resulting from this source is 2.3 pounds per million BTU input.
	Emission Unit ID: 32
C.43	Equipment ID: 32A2, 32B, 32C, 32D, 32E, 32F, 32G, 32H, 32j, 32K2, 32K3, 32L, 32M, 32N, 32O, 32P, 32Q, 32R, 32S, 32U1, 32U2, 32U3, 32U4, 32U5, 32U6, 32U7, 32U8 Control Device ID: V1H-F-01, PCO32U, DCV1B-Y-77, DCV2B-Y-77, SCR32A2
	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.
	Emission Unit ID: 32
	Equipment ID: 32A2, 32B, 32C, 32D, 32E, 32F, 32G, 32H, 32I, 32J, 32K2, 32K3, 32L, 32M, 32N, 32O, 32P, 32Q, 32R, 32S, 32U1, 32U2, 32U3, 32U4, 32U5, 32U6, 32U7, 32U8 Control Device ID: V1H-F-01, PCO32U, DCV1B-Y-77, DCV2B-Y-77, SCR32A2
C.44	The owner/operator shall perform a visual inspection on a semiannual basis during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.
	Emission Unit ID: 33
	Equipment ID: 1101, 1201, 1001, 3101
C.45	(S.C. Regulation 61-62.5, Standard No. 1, Section I) The fuel burning source(s) shall not discharge into the ambient air smoke which exceeds opacity of 20%. The opacity limit may be exceeded for sootblowing, but may not be exceeded for more than 6 minutes in a one hour period nor be exceeded for more than a total of 24 minutes in a 24 hour period. Emissions caused by sootblowing shall not exceed an opacity of 60%.
	Owners and operators shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	practices for minimizing emissions. In addition, the owner or operator shall maintain a log of the time, magnitude, duration, and any other pertinent information to determine periods of startup and shutdown and make available to the Department upon request.
	S.C. Regulation 61-62.5, Standard No. 1, Section II) The maximum allowable discharge of particulate matter resulting from these source(s) is 0.6 pounds per million BTU input, each.
	S.C. Regulation 61-62.5, Standard No. 1, Section III) The maximum allowable discharge of sulfur dioxide (SO2) resulting from these source(s) is 2.3 pounds per million BTU input, each.
	Emission Unit ID: 33 Equipment ID: 3101
	These sources are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Provisions and Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, and S.C. Regulation 61-62.60 Subparts A and Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, as applicable. These sources shall comply with all applicable requirements of Subparts A and Dc.
	Subpart Dc
	40 CFR 60.40c – Applicability and delegation of authority.
C.46	(a) Except as provided in paragraphs (d), (e), (f), and (g) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/h)) or less, but greater than or equal to 2.9 MW (10 MMBtu/h).
	(b) – (i)
	40 CFR 60.42c - Standard for sulfur dioxide (SO2).
	(a) – (c)
	(d) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO2 in excess of 215 ng/J (0.50 lb/MMBtu) heat input from oil; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. The percent reduction

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Condition Number	Conditions
	requirements are not applicable to affected facilities under this paragraph.
	(e) – (g)
	(h) For affected facilities listed under paragraphs (h)(1), (2), (3), or (4) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under §60.48c(f), as applicable.
	(1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 MMBtu/hr).
	(2)- (4)
	(i) The SO2 emission limits, fuel oil sulfur limits, and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction.
	(j)
	40 CFR 60.43c - Standard for particulate matter (PM).
	(a) – (b)
	(c) On and after the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood, or oil and has a heat input capacity of 8.7 MW (30 MMBtu/h) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. Owners and operators of an affected facility that elect to install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring PM emissions according to the requirements of this subpart and are subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less are exempt from the opacity standard specified in this paragraph (c).
	(d) The PM and opacity standards under this section apply at all times, except during periods of startup, shutdown, or malfunction.
	(e)
	40 CFR 60.44c – Compliance and performance test methods and procedures for sulfur dioxide.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	(a) – (g)
	(h) For affected facilities subject to §60.42c(h)(1), (2), or (3) where the owner or operator seeks to demonstrate compliance with the SO2 standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described in §60.48c(f), as applicable.
	(i) (j)
	40 CFR 60.45c – Compliance and performance test methods and procedures for particulate matter.
	(a) The owner or operator of an affected facility subject to the PM and/or opacity standards under §60.43c shall conduct an initial performance test as required under §60.8, and shall conduct subsequent performance tests as requested by the Administrator, to determine compliance with the standards using the following procedures and reference methods, except as specified in paragraph (c) of this section.
	(1) – (7)
	(8) Method 9 of appendix A-4 of this part shall be used for determining the opacity of stack emissions.
	(b) – (d)
	40 CFR 60.46c – Emission monitoring for sulfur dioxide.
	(a) – (d)
	(e) The monitoring requirements of paragraphs (a) and (d) of this section shall not apply to affected facilities subject to §60.42c(h) (1), (2), or (3) where the owner or operator of the affected facility seeks to demonstrate compliance with the SO2 standards based on fuel supplier certification, as described under §60.48c(f), as applicable.
	(f)
	40 CFR 60.47c – Emission monitoring for particulate matter.
	(a) – (b)
	(c) Owners and operators of an affected facilities that burn only distillate oil that contains no more

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Condition Number	Conditions
	than 0.5 weight percent sulfur and/or liquid or gaseous fuels with potential sulfur dioxide emission rates of 26 ng/J (0.060 lb/MMBtu) heat input or less and that do not use a post-combustion technology to reduce SO2 or PM emissions and that are subject to an opacity standard in §60.43c(c) are not required to operate a COMS if they follow the applicable procedures in §60.48c(f).
	(d) – (f)
	40 CFR 60.48c – Reporting and recordkeeping requirements.
	(a) – (b)
	(c) In addition to the applicable requirements in §60.7, the owner or operator of an affected facility subject to the opacity limits in §60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in paragraphs (c)(1) through (3) of this section, as applicable to the visible emissions monitoring method used.
	(1) For each performance test conducted using Method 9 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (c)(1)(i) through (iii) of this section.
	(i) Dates and time intervals of all opacity observation periods;
	(ii) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and
	(iii) Copies of all visible emission observer opacity field data sheets;
	(2) – (3)
	(d) The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit reports to the Administrator.
	(e) The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall keep records and submit reports as required under paragraph (d) of this section, including the following information, as applicable.
	(1) Calendar dates covered in the reporting period.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	(2) – (10)
	(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2), (3), or (4) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.
	(f) Fuel supplier certification shall include the following information:
	(1) For distillate oil:
	(i) The name of the oil supplier;
	(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c; and
	(iii) The sulfur content or maximum sulfur content of the oil.
	(2) – (4)
	(g)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.
	(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO2 standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.
	(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO ₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions			
	(h)			
	(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.			
	(j) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.			
	Emission Unit ID: 33 Equipment ID: 3101			
C.47	(S.C. Regulation 61-62.1, Section II(E)) The Heat Transfer Medium (HTM) heater #9 established federally enforceable operating limitations to limit the potential to emit from this source to less than 39.51 tons per year of Sulfur Dioxide (SO ₂) to avoid a PSD Significant Increase of 40.0 tons per year of SO ₂ .			
	The Heat Transfer Medium (HTM) heater #9 is permitted to burn 1,113,000 gallons per year of No. 2 virgin fuel oil. The owner/operator must record fuel consumption daily and calculate yearly fuel consumption on a twelve-month rolling sum. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually.			
	Equipment ID: 2801 Control Device ID: SCR28A			
	(S.C. Regulation 61-62.1, Standard No. 7) The Fluidized Bed Incinerator (combustor) has an established PSD limit from this source of less than 27.3 pounds per hour of Nitrogen Oxides (NO _{X}).			
C.48	The normal operating conditions for the combustor at the facility are 5000 SCFM primary air and 1800 SCFM secondary air giving an air ratio of 2.8. The combustor design air ratio is between 1.2 and 3.8. A design air ratio between 1.2 and 3.8 shall be maintained by the permittee.			
	The air ratio shall be recorded at least once per day during combustor operation. The readings shall be maintained in logs, along with any corrective action taken when deviations occur. Any alternative method for monitoring staged combustion performance must be approved by the Bureau and shall be incorporated into the permit as set forth in S. C. Regulation 61-62.70.7.			
	Semi-annual reports shall be submitted containing a summary of the staged combustion			
C.49	Emission Unit ID: 33 Equipment ID: 2802, 2803, 2804			

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Condition Number	Conditions			
	Control Device ID: DC28B, DC28C, DC28D			
	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.			
C 50	Emission Unit ID: 33 Equipment ID: 2802, 2803, 2804 Control Device ID: DC28B, DC28C, DC28D			
	These baghouses are used only during unloading operations. The unloading operations are limited to 120 hours per year, each. Logs shall be kept to record the duration and date of all unloading operations. The owner/operator shall submit semiannual reports.			
	Emission Unit ID: 33 Equipment ID: 2802, 2803, 2804 Control Device ID: DC28B, DC28C, DC28D			
C.51	The owner/operator shall perform a visual inspection during all truck unloading operations. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.			
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.			
	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A			
C.52	This facility has processes subject to the provisions of S.C. Regulation 61-62.60, Standards of Performance for New Stationary Sources, Subparts A (General Provisions) and DDDD (Performance Standards and Compliance Times for Existing Commercial and Industrial Solid Waste Incineration Units). Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted.			
C.53	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A			

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions		
	(40 CFR §60.2620) What Is A Waste Management Plan?		
	A waste management plan is a written plan that identifies both the feasibility and the methods used to reduce or separate certain components of solid waste from the waste stream in order to reduce or eliminate toxic emissions from incinerated waste.		
	(40 CFR §60.2625) When Must I Submit My Waste Management Plan?		
	You must submit a waste management plan no later than the date specified in table 1 of this subpart (February 7, 2018) for submittal of the final control plan.		
	(40 CFR §60.2630) What Should I Include In My Waste Management Plan?		
	A waste management plan must include consideration of the reduction or separation of waste- stream elements such as paper, cardboard, plastics, glass, batteries, or metals; or the use of recyclable materials. The plan must identify any additional waste management measures, and the source must implement those measures considered practical and feasible, based on the effectiveness of waste management measures already in place, the costs of additional measures, the emissions reductions expected to be achieved, and any other environmental or energy impacts they might have.		
	Emission Unit ID: 33		
	Equipment ID: 2801 Control Device ID: SCR28A		
	(40 CFR §60.2635 (S.C. Regulation 61-62.5, Standard No. 3, Section IX subsumed)) What Are the Operator Training and Qualification Requirements?		
C.54	(a) No CISWI can be operated unless a fully trained and qualified CISWI operator is accessible, either at the facility or can be at the facility within 1 hour. The trained and qualified CISWI operator may operate the CISWI directly or be the direct supervisor of one or more other plant personnel who operate the unit. If all qualified CISWI operators are temporarily not accessible, you must follow the procedures in §60.2665.		
	(b) Operator training and qualification must be obtained through a state-approved program or by completing the requirements included in paragraph (c) of this section.		
	(c) Training must be obtained by completing an incinerator operator training course that includes, at a minimum, the three elements described in paragraphs (c)(1) through (3) of this section:		
	(1) Training on the eleven subjects listed in paragraphs (c)(1)(i) through (xi) of this section:		

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Condition Number	Conditions		
	 (i) Environmental concerns, including types of emissions; (ii) Basic combustion principles, including products of combustion; (iii) Operation of the specific type of incinerator to be used by the operator, including proper startup, waste charging, and shutdown procedures; (iv) Combustion controls and monitoring; (v) Operation of air pollution control equipment and factors affecting performance (if applicable); (vi) Inspection and maintenance of the incinerator and air pollution control devices; (vii) Actions to prevent and correct malfunctions or to prevent conditions that may lead to malfunctions; (viii) Bottom and fly ash characteristics and handling procedures; (ix) Applicable federal, state, and local regulations, including Occupational Safety and Health Administration workplace standards; (x) Pollution prevention; and (xi) Waste management practices. 		
	(2) An examination designed and administered by the instructor.		
	(3) Written material covering the training course topics that can serve as reference material following completion of the course.		
	(40 CFR §60.2640) When Must the Operator Training Course Be Completed?		
	The operator training course must be completed by the later of the three dates specified in paragraphs (a) through (c) of this section:		
	(a) – (b)		
	(c) Six months after an employee assumes responsibility for operating the CISWI or assumes responsibility for supervising the operation of the CISWI.		
	(40 CFR §60.2645) How Do I Obtain My Operator Qualification?		
	(a) You must obtain operator qualification by completing a training course that satisfies the criteria under §60.2635(b).		
	(b) Qualification is valid from the date on which the training course is completed and the operator successfully passes the examination required under §60.2635(c)(2).		

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	(40 CFR §60.2650) How Do I Maintain My Operator Qualification?
	To maintain qualification, you must complete an annual review or refresher course covering, at a minimum, the five topics described in paragraphs (a) through (e) of this section:
	(a) Update of regulations;
	(b) Incinerator operation, including startup and shutdown procedures, waste charging, and ash handling;
	(c) Inspection and maintenance;
	(d) Prevention and correction of malfunctions or conditions that may lead to malfunction; and
	(e) Discussion of operating problems encountered by attendees.
	(40 CFR §60.2655) How Do I Renew My Lapsed Operator Qualification?
	You must renew a lapsed operator qualification by one of the two methods specified in paragraphs (a) and (b) of this section:
	(a) For a lapse of less than 3 years, you must complete a standard annual refresher course described in §60.2650; and
	(b) For a lapse of 3 years or more, you must repeat the initial qualification requirements in §60.2645(a).
	(40 CFR §60.2665) What If All The Qualified Operators Are Temporarily Not Accessible?
	If all qualified operators are temporarily not accessible (i.e., not at the facility and not able to be at the facility within 1 hour), you must meet one of the two criteria specified in paragraphs (a) and (b) of this section, depending on the length of time that a qualified operator is not accessible:
	(a) When all qualified operators are not accessible for more than 8 hours, but less than 2 weeks, the CISWI may be operated by other plant personnel familiar with the operation of the CISWI who have completed a review of the information specified in §60.2660(a) within the past 12 months. However, you must record the period when all qualified operators were not accessible and include this deviation in the annual report as specified under §60.2770;
	(b) When all qualified operators are not accessible for 2 weeks or more, you must take the two actions

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Condition Number	Conditions		
	that are described in paragraphs (b)(1) and (2) of this section:		
	(1) Notify the Administrator of this deviation in writing within 10 days. In the notice, state what caused this deviation, what you are doing to ensure that a qualified operator is accessible, and when you anticipate that a qualified operator will be accessible; and (2) Submit a status report to the Administrator every 4 weeks outlining what you are doing to ensure that a qualified operator is accessible, stating when you anticipate that a qualified operator from the Administrator to continue operation of the CISWI. You must submit the first status report 4 weeks after you notify the Administrator of the deviation under paragraph (b)(1) of this section. If the Administrator notifies you that your request to continue operation of the CISWI is disapproved, the CISWI may continue operation for 90 days, then must cease operation. Operation of the section:		
	(i) A qualified operator is accessible as required under §60.2635(a); and (ii) You notify the Administrator that a qualified operator is accessible and that you are resuming operation.		
	 Equipment ID: 33 Equipment ID: 2801 Control Device ID: SCR28A (40 CFR §60.2660) What Site-Specific Documentation Is Required? (a) Documentation must be available at the facility and readily accessible for all CISWI operators that addresses the ten topics described in paragraphs (a)(1) through (10) of this section. You must maintain this information and the training records required by paragraph (c) of this section in a manner that they can be readily accessed and are suitable for inspection upon request: 		
C.55	 (1) Summary of the applicable standards under this subpart; (2) Procedures for receiving, handling, and charging waste; (3) Incinerator startup, shutdown, and malfunction procedures; (4) Procedures for maintaining proper combustion air supply levels; (5) Procedures for operating the incinerator and associated air pollution control systems within the standards established under this subpart; (6) Monitoring procedures for demonstrating compliance with the incinerator operating limits; (7) Reporting and recordkeeping procedures; (8) The waste management plan required under §§60.2620 through 60.2630; (9) Procedures for handling ash; and (10) A list of the wastes burned during the performance test. 		

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions				
	ragraph (a) of this section				
	(1) The initial rev conducted by the section:	view of the information later of the three dates	listed in paragraph (a) specified in paragraphs (l	of this section must be b)(1)(i) through (iii) of this	
	(i) – (ii) (iii) Six mo	onths after being assigne	d to operate the CISWI.		
	(2) Subsequent ar be conducted no	nnual reviews of the infor later than 12 months foll	mation listed in paragrap owing the previous review	bh (a) of this section must w.	
	(c) You must also maintai	n the information specifi	ed in paragraphs (c)(1) th	rough (3) of this section:	
	 (1) Records show information in §6 and all subseques (2) Records show training requirem maintained or rer documentation o qualification and (3) For each qualification 	ving the names of CISW 0.2660(a) as required by int annual reviews; ring the names of the CI newed their qualification f training, the dates of the all subsequent renewals fied operator, the phone a hours.	/l operators who have o §60.2660(b), including the SWI operators who have et the criteria for qualifica under §60.2650 or §60.26 ne initial refresher trainir of such qualifications; an and/or pager number at w	completed review of the e date of the initial review completed the operator tion under §60.2645, and 55. Records must include ng, and the dates of their d <i>v</i> hich they can be reached	
	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR2	8A			
	(40 CFR §60.2670) What Emission Limitations Must I Meet And By When?				
C.56	(a) You must meet the emission limitations for each CISWI unit, including bypass stack or vent, specified in table 2. The emission limitations apply at all times the unit is operating including and not limited to startup, shutdown, or malfunction.				
		Tab	le 2		
	For the air pollutant	You must meet this emission limitation ¹	Using this averaging time ²	And determining compliance using this method ²	

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number		Cond	itions	
	Cadmium	0.004 milligrams per dry standard cubic meter.	3-run average (1 hour minimum sample time per run).	Performance test (Method 29 of appendix A of this part).
	Carbon monoxide	157 parts per million by dry volume.	3-run average (1 hour minimum sample time per run).	Performance test (Method 10, 10A, or 10B, of appendix A of this part).
	Dioxin/furans (toxic equivalency basis).	0.41 nanograms per dry standard cubic meter.	3-run average (1 hour minimum sample time per run).	Performance test (Method 23 of appendix A of this part).
	Hydrogen chloride	62 parts per million by dry volume.	3-run average (For Method 26, collect a minimum volume of 120 liters per run. For Method 26A, collect a minimum volume of 1 dry standard cubic meter per run).	Performance test (Method 26 or 26A at 40 CFR part 60, appendix A-8).
	Lead	0.04 milligrams per dry standard cubic meter.	3-run average (1 hour minimum sample time per run).	Performance test (Method 29 of appendix A of this part).
	Mercury	0.47 milligrams per dry standard cubic meter.	3-run average (1 hour minimum sample time per run).	Performance test (Method 29 or 30B at 40 CFR part 60, appendix A-8) or ASTM D6784-02 (Reapproved 2008). ³
	Opacity	10 percent	Three 1-hour blocks consisting of ten 6- minute average opacity values.	Performance test (Method 9 at 40 CFR 60, appendix A-4).
	Nitrogen Oxides	388 parts per million by dry volume.	3-run average (1 hour minimum sample time per run).	Performance test (Methods 7 or 7E at 40 CFR part 60, appendix A-4).

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions			
	Particulate matter filterable	70 milligrams per dry standard cubic meter.	3-run average (1 hour minimum sample time per run).	Performance test (Method 5 or 29 of appendix A of this part).
	Sulfur dioxide	20 parts per million by dry volume.	3-run average (1 hour minimum sample time per run).	Performance test (Method 6 or 6c of appendix A of this part).
	 All emission limit. standard condition In lieu of perform trap monitoring semissions limit, a system requirem prescribed in \$60 to demonstrate of average of 1-hou Incorporated by rescription 	ations (except for opacity ons. aance testing, you may us system, to demonstrate ir s long as you comply with ents applicable to the spe .2710(u), if you use a CEN ompliance with an emiss r arithmetic average emis reference, see §60.17.	are measured at 7 percent e a CEMS or, for mercury nitial and continuing comp n the CEMS or integrated ecific pollutant in §§60.27 AS or integrated sorbent to ions limit, your averaging ssion concentrations.	ent oxygen, dry basis at , an integrated sorbent pliance with an sorbent trap monitoring 10 and 60.2730. As trap monitoring system time is a 30-day rolling
C.57	 Incorporated by reference, see \$60.17. Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A (40 CFR \$60.2675) What Operating Limits Must I Meet And By When? (a) If you use a wet scrubber(s) to comply with the emission limitations, you must establish operal limits for up to four operating parameters (as specified in table 3 of this subpart) as describe paragraphs (a)(1) through (4) of this section during the initial performance test:		must establish operating subpart) as described in test: procedures in paragraph rate is 110 percent of the cent performance test tations; and of the daily charge rate astrating compliance with	

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions	
	 emission limitations; or minimum amperage to the wet scrubber, which is calculated as the lowest 1-hour average amperage to the wet scrubber measured during the most recent performance test demonstrating compliance with the particulate matter emission limitations. (3) Minimum scrubber liquid flow rate, which is calculated as the lowest 1-hour average liquid flow rate at the inlet to the wet acid gas or particulate matter scrubber measured during the most recent performance test demonstrating compliance with all applicable emission limitations. (4) Minimum scrubber liquor pH, which is calculated as the lowest 1-hour average liquor pH at the inlet to the wet acid gas scrubber measured during the most recent performance test 	
	demonstrating compliance with the hydrogen chloride (HCl) emission limitation.	
	(b) You must meet the operating limits established on the date that the performance test report is submitted to the EPA's Central Data Exchange or postmarked, per the requirements of § 60.2795(b).	
	(c) – (h)	
	 (i) If you use a PM CPMS to demonstrate compliance, you must establish your PM CPMS operating limit and determine compliance with it according to paragraphs (i)(1) through (5) of this section: (1) During the initial performance test or any such subsequent performance test that demonstrates compliance with the PM limit, record all hourly average output values (milliamps, or the digital signal equivalent) from the PM CPMS for the periods corresponding to the test runs (<i>e.g.</i>, three 1-hour average PM CPMS output values for three 1-hour test runs): (i) Your PM CPMS must provide a 4-20 milliamp output, or the digital signal equivalent, and the establishment of its relationship to manual reference method measurements must be determined in units of milliamps or digital bits; (ii) Your PM CPMS operating range must be capable of reading PM concentrations 	
	from zero to a level equivalent to at least two times your allowable emission limit. If your PM CPMS is an auto-ranging instrument capable of multiple scales, the primary range of the instrument must be capable of reading PM concentration from zero to a level equivalent to two times your allowable emission limit; and	
	(iii) During the initial performance test or any such subsequent performance test that demonstrates compliance with the PM limit, record and average all milliamp output values, or their digital equivalent, from the PM CPMS for the periods corresponding to the compliance test runs (<i>e.g.</i> , average all your PM CPMS output values for three corresponding 2-hour Method 5I test runs).	
	(2) If the average of your three PM performance test runs are below 75 percent of your PM emission limit, you must calculate an operating limit by establishing a relationship of PM CPMS signal to PM concentration using the PM CPMS instrument zero, the average PM CPMS output values corresponding to the three compliance test runs, and the average PM concentration from the Method 5 or performance test with the procedures in (i)(1)through	

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Condition Number	Conditions		
	 (5) of this section: (i) Determine your instrument zero output with one of the following procedures: (A) Zero point data for <i>in-situ</i> instruments should be obtained by removing the instrument from the stack and monitoring ambient air on a test bench; (B) Zero point data for extractive instruments should be obtained by removing the extractive probe from the stack and drawing in clean ambient air; (C) The zero point can also can be established obtained by performing manual reference method measurements when the flue gas is free of PM emissions or contains very low PM concentrations (<i>e.g.</i>, when your process is not proceeding the table for the flue gas and the stack and the process is not process in the stack and the process is not process in the process in the process in the process is not process in the process in the process in the process is not process in the process in the		
	 operating, but the fans are operating or your source is combusting only natural gas) and plotting these with the compliance data to find the zero intercept; and (D) If none of the steps in paragraphs (i)(2)(i)(A) through (C) of this section are possible, you must use a zero output value provided by the manufacturer. (ii) Determine your PM CPMS instrument average in milliamps, or the digital equivalent, and the average of your corresponding three PM compliance test runs, using equation 1. 		
	$\overline{x} = \frac{1}{n} \sum_{i=1}^{n} X_{1i}, \overline{y} = \frac{1}{n} \sum_{i=1}^{n} Y_{1i}$ (Eq. 1)		
	Where: X_1 = the PM CPMS output data points for the three runs constituting the performance		
	Y_1 = the PM concentration value for the three runs constituting the performance test, and n = the number of data points.		
	(iii) With your instrument zero expressed in milliamps, or the digital equivalent, your three run average PM CPMS milliamp value, or its digital equivalent, and your three run average PM concentration from your three compliance tests, determine a relationship of mg/dscm per milliamp or digital signal equivalent, with equation 2:		
	$R = \left(\frac{Y_1}{X_{1-z}}\right)$		
	(Eq. 2)		
	R = the relative mg/dscm per milliamp, or the digital equivalent, for your PM CPMS, Y_1 = the three run average mg/dscm PM concentration.		

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Condition Number	Conditions		
	X_1 = the three run average milliamp output, or the digital equivalent, from you PM		
	z = the milliamp or digital signal equivalent of your instrument zero determined from paragraph (i)(2)(i) of this section.		
	(iv) Determine your source specific 30-day rolling average operating limit using the mg/dscm per milliamp value, or per digital signal equivalent, from equation 2 in equation 3, below. This sets your operating limit at the PM CPMS output value corresponding to 75 percent of your emission limit:		
	$O_l = z + \frac{0.75(L)}{R}$		
	(Eq. 3)		
	where: O_i = the operating limit for your PM CPMS on a 30-day rolling average, in milliamps or their digital signal equivalent,		
	L = your source emission limit expressed in mg/dscm, z = your instrument zero in milliamps or digital equivalent, determined from paragraph (i)(2)(i) of this section, and		
	R = the relative mg/dscm per milliamp, or per digital signal output equivalent, for your PM CPMS, from equation 2.		
	(3) If the average of your three PM compliance test runs is at or above 75 percent of your PM emission limit you must determine your operating limit by averaging the PM CPMS milliamp or digital signal output corresponding to your three PM performance test runs that demonstrate compliance with the emission limit using equation 4 and you must submit all compliance test and PM CPMS data according to the reporting requirements in paragraph (i)(5) of this section:		
	$O_n = \frac{1}{n} \sum_{i=1}^n X_1$		
	(Eq. 4)		
	Where: X ₄ = the PM CPMS data points for all runs i		
	n = the number of data points, and		
	O_h = your site specific operating limit, in milliamps or digital signal equivalent.		
	(4) To determine continuous compliance, you must record the PM CPMS output data for all periods when the process is operating and the PM CPMS is not out-of-control. You must		
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Condition Number	Conditions
	demonstrate continuous compliance by using all quality-assured hourly average data collected by the PM CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (<i>e.g.</i> , milliamps or digital signal bits, PM concentration, raw data signal) on a 30-day rolling average basis. (5) For PM performance test reports used to set a PM CPMS operating limit, the electronic submission of the test report must also include the make and model of the PM CPMS instrument, serial number of the instrument, analytical principle of the instrument (<i>e.g.</i> , beta attenuation), span of the instruments primary analytical range, milliamp or digital signal value equivalent to the instrument zero output, technique by which this zero value was determined, and the average milliamp or digital signals corresponding to each PM compliance test run
	Emission Unit ID: 33
	Equipment ID: 2801
C.58	(40 CFR §60.2690) How Do I Conduct The Initial And Annual Performance Test?
	(a) All performance tests must consist of a minimum of three test runs conducted under conditions representative of normal operations.
	(b) You must document that the waste burned during the performance test is representative of the waste burned under normal operating conditions by maintaining a log of the quantity of waste burned (as required in §60.2740(b)(1)) and the types of waste burned during the performance test.
	(c) All performance tests must be conducted using the minimum run duration specified in table 2 of this subpart.
	(d) Method 1 of appendix A of this part must be used to select the sampling location and number of traverse points.
	(e) Method 3A or 3B of appendix A of this part must be used for gas composition analysis, including measurement of oxygen concentration. Method 3A or 3B of appendix A of this part must be used simultaneously with each method (except when using Method 9 and Method 22).
	(f) All pollutant concentrations, except for opacity, must be adjusted to 7 percent oxygen using equation 5 of this section:
	$C_{alj} = C_{meas} (20.9-7)/(20.9-\%O_2)$ (Eq. 5)
	Where:

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Condition Number	Conditions
	C _{adj} = pollutant concentration adjusted to 7 percent oxygen;
	C_{meas} = pollutant concentration measured on a dry basis; (20.9-7) = 20.9 percent oxygen-7 percent oxygen (defined oxygen correction basis);
	20.9 = oxygen concentration in air, percent; and
	%O2 = oxygen concentration measured on a dry basis, percent.
	(g) You must determine dioxins/furans toxic equivalency by following the procedures in paragraphs (g)(1) through (4) of this section:
	 (1) Measure the concentration of each dioxin/furan tetra- through octa-isomer emitted using EPA Method 23 at 40 CFR part 60, appendix A; (2) Quantify isomers meeting identification criteria 2, 3, 4, and 5 in Section 5.3.2.5 of Method 23, regardless of whether the isomers meet identification criteria 1 and 7. You must quantify the isomers per Section 9.0 of Method 23. [Note: You may reanalyze the sample aliquot or split to reduce the number of isomers not meeting identification criteria 1 or 7 of Section 5.3.2.5.]; (3) For each dioxin/furan (tetra- through octa-chlorinated) isomer measured in accordance with paragraph (g)(1) and (2) of this section, multiply the isomer concentration by its corresponding toxic equivalency factor specified in table 4 of this subpart; and (4) Sum the products calculated in accordance with paragraph (g)(3) of this section to obtain the total concentration of dioxins/furans emitted in terms of toxic equivalency.
	(h)
	(i) If you have an applicable opacity operating limit, you must determine compliance with the opacity limit using Method 9 at 40 CFR part 60, appendix A-4, based on three 1-hour blocks consisting of ten 6-minute average opacity values, unless you are required to install a continuous opacity monitoring system, consistent with §60.2710 and §60.2730.
	(j) You must determine dioxins/furans total mass basis by following the procedures in paragraphs (j)(1) through (3) of this section:
	 (1) Measure the concentration of each dioxin/furan tetra- through octa-chlorinated isomer emitted using EPA Method 23 at 40 CFR part 60, appendix A-7; (2) Quantify isomers meeting identification criteria 2, 3, 4, and 5 in Section 5.3.2.5 of Method 23, regardless of whether the isomers meet identification criteria 1 and 7. You must quantify

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	the isomers per Section 9.0 of Method 23. (Note: You may reanalyze the sample aliquot or split to reduce the number of isomers not meeting identification criteria 1 or 7 of Section 5.3.2.5.); and
	(3) Sum the quantities measured in accordance with paragraphs (j)(1) and (2) of this section to obtain the total concentration of dioxins/furans emitted in terms of total mass basis.
	(40 CFR §60.2695) How Are The Performance Test Data Used?
	You use results of performance tests to demonstrate compliance with the emission limitations in table 2 of this subpart.
	Emission Unit ID: 33
	Equipment ID: 2801
	Control Device ID. SCR26A
	(40 CFR §60.2710) How Do I Demonstrate Continuous Compliance With The Amended Emission Limitations And The Operating Limits?
C.59	 (a) General compliance with standards, considering some units may be able to switch between solid waste and non-waste fuel combustion, is specified in paragraph (a)(1) through (6) of this section. (1) The emission standards and operating requirements set forth in this subpart apply at all times. (2) If you cease combusting solid waste you may opt to remain subject to the provisions of this subpart. Consistent with the definition of CISWI unit, you are subject to the requirements of this subpart at least 6 months following the last date of solid waste combustion. Solid waste combustion is ceased when solid waste is not in the combustion chamber (<i>i.e.</i>, the solid waste feed to the combustor has been cut off for a period of time not less than the solid waste residence time).
	 (3) If you cease combusting solid waste you must be in compliance with any newly applicable standards on the effective date of the waste-to-fuel switch. The effective date of the waste-to-fuel switch is a date selected by you, that must be at least 6 months from the date that you ceased combusting solid waste, consistent with §60.2710(a)(2). Your source must remain in compliance with this subpart until the effective date of the waste-to-fuel switch. (4) If you own or operate an existing commercial or industrial combustion unit that combusted a fuel or non-waste material, and you commence or recommence combustion of solid waste, you are subject to the provisions of this subpart as of the first day you introduce or reintroduce solid waste to the combustion chamber, and this date constitutes the effective date of the fuel-to-waste switch. You must complete all initial compliance demonstrations for any Section 112 standards that are applicable to your facility before you commence or recommence combustion of solid waste. You must provide 30 days prior notice of the effective date of the waste-to-fuel switch. The notification must identify:

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	emissions unit(s) that will cease burning solid waste, and the date of the notice; (ii) The currently applicable subcategory under this subpart, and any 40 CFR part 63 subpart and subcategory that will be applicable after you cease combusting solid waste; (iii) The fuel(s), non-waste material(s) and solid waste(s) the CISWI unit is currently combusting and has combusted over the past 6 months, and the fuel(s) or non-waste materials the unit will commence combusting;
	 (iv) The date on which you became subject to the currently applicable emission limits; (v) The date upon which you will cease combusting solid waste, and the date (if different) that you intend for any new requirements to become applicable (<i>i.e.</i>, the effective date of the waste-to-fuel switch), consistent with paragraphs (a)(2) and (3) of this section. (5) All air pollution control equipment necessary for compliance with any newly applicable emissions limits which apply as a result of the cessation or commencement or recommencement of combusting solid waste must be installed and operational as of the effective date of the waste-to-fuel, or fuel-to-waste switch.
	(6) All monitoring systems necessary for compliance with any newly applicable monitoring requirements which apply as a result of the cessation or commencement or recommencement of combusting solid waste must be installed and operational as of the effective date of the waste-to-fuel, or fuel-to-waste switch. All calibration and drift checks must be performed as of the effective date of the waste-to-fuel, or fuel-to-waste switch. Relative accuracy tests must be performed as of the performance test deadline for PM CEMS (if PM CEMS are elected to demonstrate continuous compliance with the particulate matter emission limits). Relative accuracy testing for other CEMS need not be repeated if that testing was previously performed consistent with section 112 monitoring requirements or monitoring requirements under this subpart.
	(b) You must conduct an annual performance test for the pollutants listed in table 2 of this subpart and opacity for each CISWI unit as required under §60.2690. The annual performance test must be conducted using the test methods listed in table 2 of this subpart and the procedures in §60.2690. Opacity must be measured using EPA Reference Method 9 at 40 CFR part 60. Annual performance tests are not required if you use CEMS or continuous opacity monitoring systems to determine compliance.
	(c) You must continuously monitor the operating parameters specified in §60.2675 or established under §60.2680 and as specified in §60.2735. Operation above the established maximum or below the established minimum operating limits constitutes a deviation from the established operating limits. Three-hour block average values are used to determine compliance unless a different averaging period is established under §60.2680. Operation above the established maximum, below the established minimum, or outside the allowable range of the operating limits specified in paragraph (a) of this section constitutes a deviation from your operating limits established under this subpart, except during performance tests conducted to determine compliance with the emission and

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	operating limits or to establish new operating limits. Operating limits are confirmed or reestablished during performance tests.
	(d) You must burn only the same types of waste and fuels used to establish operating limits during the performance test.
	(e) – (j)
	(k) If you use an air pollution control device to meet the emission limitations in this subpart, you must conduct an initial and annual inspection of the air pollution control device. The inspection must include, at a minimum, the following:
	(1) Inspect air pollution control device(s) for proper operation; and (2) Develop a site-specific monitoring plan according to the requirements in paragraph (l) of this section. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §60.13(i).
	(I) For each CMS required in this section, you must develop and submit to the EPA Administrator for approval a site-specific monitoring plan according to the requirements of this paragraph (I) that addresses paragraphs (I)(1)(i) through (vi) of this section:
	(1) You must submit this site-specific monitoring plan at least 60 days before your initial performance evaluation of your continuous monitoring system:
	(i) Installation of the continuous monitoring system sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (<i>e.g.,</i> on or downstream of the last control device);
	(ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer and the data collection and reduction systems;
	(iii) Performance evaluation procedures and acceptance criteria (<i>e.g.,</i> calibrations); (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of §60.11(d);
	(v) Ongoing data quality assurance procedures in accordance with the general requirements of §60.13; and
	(vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §60.7(b),(c), (c)(1), (c)(4), (d), (e), (f) and (g).
	(2) You must conduct a performance evaluation of each continuous monitoring system in accordance with your site-specific monitoring plan.
	(3) You must operate and maintain the continuous monitoring system in continuous operation according to the site-specific monitoring plan.

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	(m) If you have an operating limit that requires the use of a flow monitoring system, you must meet
	the requirements in paragraphs (I) and (m)(1) through (4) of this section:
	(1) Install the flow sensor and other necessary equipment in a position that provides a representative flow;
	 (2) Use a flow sensor with a measurement sensitivity at full scale of no greater than 2 percent; (3) Minimize the effects of swirling flow or abnormal velocity distributions due to upstream and downstream disturbances; and
	(4) Conduct a flow monitoring system performance evaluation in accordance with your monitoring plan at the time of each performance test but no less frequently than annually.
	(n) If you have an operating limit that requires the use of a pressure monitoring system, you must meet the requirements in paragraphs (l) and (n)(1) through (6) of this section:
	(1) Install the pressure sensor(s) in a position that provides a representative measurement of the pressure (e.g., PM scrubber pressure drop);
	 (2) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion; (3) Use a pressure sensor with a minimum tolerance of 1.27 centimeters of water or a minimum tolerance of 1 percent of the pressure monitoring system operating range, whichever is less;
	(4) Perform checks at the frequency outlined in your site-specific monitoring plan to ensure pressure measurements are not obstructed (e.g., check for pressure tap plugging daily); (5) Conduct a performance evaluation of the pressure monitoring system in accordance with your monitoring plan at the time of each performance test but no less frequently than annually; and
	(6) If at any time the measured pressure exceeds the manufacturer's specified maximum operating pressure range, conduct a performance evaluation of the pressure monitoring system in accordance with your monitoring plan and confirm that the pressure monitoring system continues to meet the performance requirements in your monitoring plan. Alternatively, install and verify the operation of a new pressure sensor.
	(o) If you have an operating limit that requires a pH monitoring system, you must meet the requirements in paragraphs (l) and (o)(1) through (4) of this section:
	(1) Install the pH sensor in a position that provides a representative measurement of scrubber effluent pH;
	(2) Ensure the sample is properly mixed and representative of the fluid to be measured;(3) Conduct a performance evaluation of the pH monitoring system in accordance with your monitoring plan at least once each process operating day; and
	(4) Conduct a performance evaluation (including a two-point calibration with one of the two buffer solutions having a pH within 1 of the pH of the operating limit) of the pH monitoring system in accordance with your monitoring plan at the time of each performance test but no less frequently than quarterly.

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Condition Number	Conditions
	(p) – (u)
	(v) Use of the bypass stack at any time is an emissions standards deviation for PM, HCl, lead, cadmium, mercury, nitrogen oxides, sulfur dioxide, and dioxin/furans.
	(w) – (y)
	Emission Unit ID: 33
	Equipment ID: 2801
	Control Device ID: SCR28A
C.60	(40 CFR §60.2715) By What Date Must I Conduct The Annual Performance Test?
	You must conduct annual performance tests no later than 13 calendar months following the previous performance test
	Emission Unit ID: 33
	Equipment ID: 2801
	Control Device ID: SCR28A
C.61	(40 CFR §60.2716) By What Date Must I Conduct The Annual Air Pollution Control Device Inspection?
	On an annual basis (no more than 12 months following the previous annual air pollution control device inspection), you must complete the air pollution control device inspection as described in §60.2706.
	Emission Unit ID: 33
	Equipment ID: 2801
	Control Device ID: SCR28A
	(40 CFR §60.2720) May I Conduct Performance Testing Less Often?
C.62	(a) You must conduct annual performance tests according to the schedule specified in §60.2715, with the following exceptions:
	 (1) You may conduct a repeat performance test at any time to establish new values for the operating limits, as specified in §60.2725. New operating limits become effective on the date that the performance test report is submitted to the EPA's Central Data Exchange or postmarked, per the requirements of §60.2795(b). The Administrator may request a repeat performance test at any time; (2) You must repeat the performance test within 60 days of a process change, as defined in
	§60.2875; and

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Condition Number	Conditions
Number	 (3) You can conduct performance tests less often if you meet the following conditions: Your performance tests for the pollutant for at least 2 consecutive performance tests demonstrates that the emission level for the pollutant is no greater than the emission level specified in paragraph (a)(3)(i) or (ii) of this section, as applicable; there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions; and you are not required to conduct a performance test for the pollutant in response to a request by the Administrator in paragraph (a)(1) of this section or a process change in paragraph (a)(2) of this section. In this case, you do not have to conduct a performance test for the pollutant no more than 37 months following the previous performance test for the pollutant for the next 2 years. You must conduct a performance test for the pollutant no more than 37 months following the previous performance test for the pollutant every third year, as long as there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions. Each such performance test must be conducted no more than 37 months after the previous performance test. (i) For particulate matter, hydrogen chloride, mercury, carbon monoxide, nitrogen oxides, sulfur dioxide, cadmium, lead, and dioxins/ furans, the emission level equal to 75 percent of the applicable emission limit in table 2 of this subpart, as applicable. (ii) (4) If you are conducting less frequent testing for a pollutant as provided in paragraph (a)(3) of this section and a subsequent performance test for the pollutant indicates that your CISWI
	does not meet the emission level specified in paragraph (a)(3)(i) or (a)(3)(ii) of this section, as applicable, you must conduct annual performance tests for the pollutant according to the schedule specified in paragraph (a) of this section until you qualify for less frequent testing for the pollutant as specified in paragraph (a)(3) of this section.
	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A
C.63	(40 CFR 960.2725) May I Conduct A Repeat Performance Test To Establish New Operating Limits? (a) Yes. You may conduct a repeat performance test at any time to establish new values for the operating limits. The Administrator may request a repeat performance test at any time.
	(b) You must repeat the performance test if your feed stream is different than the feed streams used during any performance test used to demonstrate compliance.
C.64	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A

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Condition Number	Conditions
	(40 CFR §60.2730) What Monitoring Equipment Must I Install And What Parameters Must I Monitor?
	(a) If you are using a wet scrubber to comply with the emission limitation under §60.2670, you must install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the value of the operating parameters used to determine compliance with the operating limits listed in table 3 of this subpart. These devices (or methods) must measure and record the values for these operating parameters at the frequencies indicated in table 3 of this subpart at all times except as specified in §60.2735(a).
	(b) – (g)
	(h) To demonstrate continuous compliance with the particulate matter emissions limit, a facility may substitute use of either a particulate matter CEMS or a particulate matter CPMS for conducting the particulate matter annual performance test. For units equipped with a particulate matter CEMS, you are not required to use other CMS monitoring for PM compliance (e.g., bag leak detectors, ESP secondary power, PM scrubber pressure). A facility may also substitute use of a particulate matter CEMS for conducting the PM initial performance test.
	(i) To demonstrate initial and continuous compliance with the dioxin/furan emissions limit, a facility may substitute use of a continuous automated sampling system for the dioxin/furan initial and annual performance test. You must record the output of the system and analyze the sample according to EPA Method 23 at 40 CFR part 60, appendix A-7. This option to use a continuous automated sampling system takes effect on the date a final performance specification applicable to dioxin/furan from continuous monitors is published in the Federal Register. The owner or operator who elects to continuously sample dioxin/furan emissions instead of sampling and testing using EPA Method 23 at 40 CFR part 60, appendix A-7 must install, calibrate, maintain and operate a continuous automated sampling system and must comply with the requirements specified in §60.58b(p) and (q). A facility may substitute continuous dioxin/furan monitoring for the minimum sorbent flow rate, if activated carbon sorbent injection is used solely for compliance with the dioxin/furan emission limit.
	(j) To demonstrate initial and continuous compliance with the mercury emissions limit, a facility may substitute use of a mercury CEMS or and integrated sorbent trap monitoring system for the mercury initial and annual performance test. The owner or operator who elects to continuously measure mercury emissions instead of sampling and testing using EPA Method 29 or 30B at 40 CFR part 60, appendix A-8, ASTM D6784-02 (Reapproved 2008) (incorporated by reference, see §60.17), or an approved alternative method for measuring mercury emissions, must install, calibrate, maintain and operate the mercury CEMS or integrated sorbent trap monitoring system and must comply with performance specification 12A or performance specification 12B, respectively, and quality assurance procedure 5. For the purposes of emissions calculations when using an integrated sorbent trap

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	monitoring system, the mercury concentration determined for each sampling period must be assigned to each hour during the sampling period. For units equipped with a mercury CEMS or an integrated sorbent trap monitoring system, you are not required to monitor the minimum sorbent flow rate, if activated carbon sorbent injection is used solely for compliance with the mercury emission limit. Waste-burning kilns must install, calibrate, maintain, and operate a mercury CEMS or an integrated sorbent trap monitoring system as specified in §60.2710(j).
	(k) To demonstrate initial and continuous compliance with the nitrogen oxides emissions limit, a facility may substitute use of a CEMS for the nitrogen oxides initial and annual performance test to demonstrate compliance with the nitrogen oxides emissions limits. For units equipped with a nitrogen oxides CEMS, you are not required to monitor the charge rate and reagent flow for selective noncatalytic reduction, if applicable:
	 (1) Install, calibrate, maintain and operate a CEMS for measuring nitrogen oxides emissions discharged to the atmosphere and record the output of the system. The requirements under performance specification 2 of appendix B of this part, the quality assurance procedure 1 of appendix F of this part and the procedures under §60.13 must be followed for installation, evaluation and operation of the CEMS; and (2) Compliance with the emission limit for nitrogen oxides must be determined based on the 30-day rolling average of the hourly emission concentrations using CEMS outlet data, as outlined in §60.2710(u).
	(I) To demonstrate initial and continuous compliance with the sulfur dioxide emissions limit, a facility may substitute use of a CEMS for the sulfur dioxide initial and annual performance test to demonstrate compliance with the sulfur dioxide emissions limits:
	 (1) Install, calibrate, maintain and operate a CEMS for measuring sulfur dioxide emissions discharged to the atmosphere and record the output of the system. The requirements under performance specification 2 of appendix B of this part, the quality assurance requirements of procedure 1 of appendix F of this part and the procedures under §60.13 must be followed for installation, evaluation and operation of the CEMS; and (2) Compliance with the sulfur dioxide emission limit shall be determined based on the 30-day rolling average of the hourly arithmetic average emission concentrations using CEMS outlet data, as outlined in §60.2710(u).
	(m) – (n)
	(o) To demonstrate initial and continuous compliance with the carbon monoxide emissions limit, a facility may substitute use of a CEMS for the carbon monoxide initial and annual performance test to demonstrate compliance with the carbon monoxide emissions limits:

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	(1) Install, calibrate, maintain, and operate a CEMS for measuring carbon monoxide emissions discharged to the atmosphere and record the output of the system. The requirements under performance specification 4A or 4B of appendix B of this part, the quality assurance procedure 1 of appendix F of this part and the procedures under §60.13 must be followed for installation, evaluation, and operation of the CEMS; and (2) Compliance with the carbon monoxide emission limit shall be determined based on the 30-day rolling average of the hourly arithmetic average emission concentrations, including CEMS data during startup and shutdown as defined in this subpart, using CEMS outlet data, as outlined in §60.2710(u).
	(p) The owner/operator of an affected source with a bypass stack shall install, calibrate (to manufacturers' specifications), maintain and operate a device or method for measuring the use of the bypass stack including date, time and duration.
	(q) – (t) Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A
C.65	(40 CFR §60.2735) Is There A Minimum Amount Of Monitoring Data I Must Obtain?
	For each continuous monitoring system required or optionally allowed under §60.2730, you must monitor and collect data according to this section:
	(a) You must operate the monitoring system and collect data at all required intervals at all times compliance is required except for periods of monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of- control periods (as specified in §60.2770(o)), and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks and required zero and span adjustments. A monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. You are required to effect monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable.
	(b) You may not use data recorded during the monitoring system malfunctions, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or control activities in calculations used to report emissions or operating levels. You must use all the data collected during all other periods, including data normalized for above scale

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	readings, in assessing the operation of the control device and associated control system.
	(c) Except for periods of monitoring system malfunctions or out-of- control periods, repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks and required zero and span adjustments, failure to collect required data is a deviation of the monitoring requirements.
	Emission Unit ID: 33
	Equipment ID: 2801
	Control Device ID: SCR28A
	(40 CFR §60.2740) What Records Must I Keep?
	You must maintain the items (as applicable) as specified in paragraphs (a), (b), and (e) through (w) of this section for a period of at least 5 years:
	(a) Calendar date of each record;
	(b) Records of the data described in paragraphs (b)(1) through (7) of this section:
C.66	 (1) The CISWI charge dates, times, weights, and hourly charge rates; (2) Liquor flow rate to the wet scrubber inlet every 15 minutes of operation, as applicable; (3) Pressure drop across the wet scrubber system every 15 minutes of operation or amperage to the wet scrubber every 15 minutes of operation, as applicable; (4) Liquor pH as introduced to the wet scrubber every 15 minutes of operation, as applicable; (5) For affected CISWIs that establish operating limits for controls other than wet scrubbers under \$60.2675(d) through (g) or \$60.2680, you must maintain data collected for all operating parameters used to determine compliance with the operating limits. (6) – (7)
	(c)-(d) [Reserved]
	(e) Identification of calendar dates and times for which data show a deviation from the operating limits in table 3 of this subpart or a deviation from other operating limits established under §60.2675(d) through (g) or §60.2680 with a description of the deviations, reasons for such deviations, and a description of corrective actions taken.
	(f) The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating limits, as applicable. Retain a copy of the complete test report including calculations.

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	(g) Records showing the names of CISWI operators who have completed review of the information in §60.2660(a) as required by §60.2660(b), including the date of the initial review and all subsequent annual reviews.				
	(h) Records showing the names of the CISWI operators who have completed the operator training requirements under §60.2635, met the criteria for qualification under §60.2645, and maintained or renewed their qualification under §60.2650 or §60.2655. Records must include documentation of training, the dates of the initial and refresher training, and the dates of their qualification and all subsequent renewals of such qualifications.				
	(i) For each qualified operator, the phone and/or pager number at which they can be reached during operating hours.				
	(j) Records of calibration of any monitoring devices as required under §60.2730.				
	(k) Equipment vendor specifications and related operation and maintenance requirements for the incinerator, emission controls, and monitoring equipment.				
	(l) The information listed in §60.2660(a).				
	(m) On a daily basis, keep a log of the quantity of waste burned and the types of waste burned (always required).				
	(n) Maintain records of the annual air pollution control device inspections that are required for each CISWI subject to the emissions limits in table 2 of this subpart, any required maintenance and any repairs not completed within 10 days of an inspection or the timeframe established by the state regulatory agency.				
	(o) For continuously monitored pollutants or parameters, you must document and keep a record of the following parameters measured using continuous monitoring systems. If you monitor emissions with a CEMS, you must indicate which data are CEMS data during startup and shutdown:				
	 (1) All 6-minute average levels of opacity; (2) All 1-hour average concentrations of sulfur dioxide emissions; (3) All 1-hour average concentrations of nitrogen oxides emissions; (4) All 1-hour average concentrations of carbon monoxide emissions; 				
	 (5) All 1-hour average concentrations of particulate matter emissions; (6) All 1-hour average concentrations of mercury emissions; (7) All 1-hour average concentrations of HCl CEMS outputs; 				

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	(8) All 1-hour average percent oxygen concentrations; and (9) All 1-hour average PM CPMS readings or particulate matter CEMS outputs.			
	(p) Records indicating use of the bypass stack, including dates, times and durations.			
	(q) If you choose to stack test less frequently than annually, consistent with §60.2720(a) through (c), you must keep annual records that document that your emissions in the previous stack test(s) were less than 75 percent of the applicable emission limit and document that there was no change in source operations including fuel composition and operation of air pollution control equipment that would cause emissions of the relevant pollutant to increase within the past year.			
	(r) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.			
	(s) Records of all required maintenance performed on the air pollution control and monitoring equipment.			
	(t) Records of actions taken during periods of malfunction to minimize emissions in accordance with §60.11(d), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.			
	(u) For operating units that combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to §241.3(b)(1) of this chapter, you must keep a record which documents how the secondary material meets each of the legitimacy criteria under §241.3(d)(1). If you combust a fuel that has been processed from a discarded non-hazardous secondary material pursuant to §241.3(b)(4), you must keep records as to how the operations that produced the fuel satisfies the definition of processing in §241.2 and each of the legitimacy criteria in §241.3(d)(1) of this chapter. If the fuel received a non-waste determination pursuant to the petition process submitted under §241.3(c), you must keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust non-hazardous secondary materials as fuel per §241.4, you must keep records documenting that the material is a listed non-waste under §241.4(a).			
	(v) – (w)			
C.67	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A			
	(40 CFR §60.2745) Where And In What Format Must I Keep My Records?			

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	All records must be available onsite in either paper copy or computer-readable format that can be					
	Emission Unit ID: 33 Equipment ID: 2801					
	Control Device ID: SCR28A					
C.68	(40 CER Sco 27E0) What Baparts Must I Submit?					
	See table 5 of this subpart for a summary of the reporting requirements.					
	Emission Unit ID: 33					
	Equipment ID: 2801 Control Device ID: SCR28A					
C.69	(40 CFR §60.2765) When Must I Submit My Annual Report?					
	You must submit an annual report no later than 12 months following the submission of the					
	information in §60.2760. You must submit subsequent reports no more than 12 months following					
	the previous report. (If the unit is subject to permitting requirements under title V of the Clean					
	Act, you may be required by the permit to submit these reports more frequently.)					
	Emission Unit ID: 33 Equipment ID: 2801					
	Control Device ID: SCR28A					
	(40 CFR §60.2770) What Information Must I Include In My Annual Report?					
	In annual report required under $s60.2765$ must include the items listed in paragraphs (a) through (b) of this section. If you have a deviation from the operating limits or the emission limitations, you					
	must also submit deviation reports as specified in §§60.2775, 60.2780, and 60.2785:					
C.70	(a) Company name and address;					
	(b) Statement by a responsible official, with that official's name, title, and signature, certifying the					
	accuracy of the content of the report;					
	(c) Date of report and beginning and ending dates of the reporting period;					
	(d) The values for the operating limits established pursuant to §60.2675 or §60.2680;					
	(e) If no deviation from any emission limitation or operating limit that applies to you has been					
	reported, a statement that there was no deviation from the emission limitations or operating limits					

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	during the reporting period;				
	(f) The highest recorded 3-hour average and the lowest recorded 3- hour average (30-day average for energy recovery units), as applicable, for each operating parameter recorded for the calendar year being reported;				
	(g) Information recorded under §60.2740(b)(6) and (c) through (e) for the calendar year being reported;				
	(h) For each performance test conducted during the reporting period, if any performance test is conducted, the process unit(s) tested, the pollutant(s) tested and the date that such performance test was conducted. Submit, following the procedure specified in §60.2795(b)(1), the performance test report no later than the date that you submit the annual report;				
(i) If you met the requirements of §60.2720(a) or (b), and did not conduct a performa the reporting period, you must state that you met the requirements of §60.2720 therefore, you were not required to conduct a performance test during the reporting					
	(j) Documentation of periods when all qualified CISWI operators were unavailable for more than 8 hours, but less than 2 weeks;				
	(k) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction that occurred during the reporting period and that caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §60.11(d), including actions taken to correct a malfunction;				
	(l) For each deviation from an emission or operating limitation that occurs for a CISWI for which you are not using a CMS to comply with the emission or operating limitations in this subpart, the annual report must contain the following information:				
	(1) The total operating time of the CISWI at which the deviation occurred during the reporting period; and				
	if applicable), as applicable, and the corrective action taken.				
	(m) If there were periods during which the continuous monitoring system, including the CEMS, was out of control as specified in paragraph (o) of this section, the annual report must contain the following information for each deviation from an emission or operating limitation occurring for a				

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions				
	CISWI for which you are using a continuous monitoring system to comply with the emission and operating limitations in this subpart:				
	 (1) The date and time that each malfunction started and stopped; (2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks; (3) The date, time, and duration that each continuous monitoring system was out-of-control, including start and end dates and hours and descriptions of corrective actions taken; (4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period; (5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period; 				
	(6) A breakdown of the total duration of the deviations during the reporting period, into those that are due to control equipment problems, process problems, other known causes, and other unknown causes;				
	(7) A summary of the total duration of continuous monitoring system downtime during the reporting period, and the total duration of continuous monitoring system downtime as a percent of the total operating time of the CISWI at which the continuous monitoring system downtime occurred during that reporting period;				
	(8) An identification of each parameter and pollutant that was monitored at the CISWI; (9) A brief description of the CISWI; (10) A brief description of the continuous monitoring system;				
	(11) The date of the latest continuous monitoring system certification or audit; and (12) A description of any changes in continuous monitoring system, processes, or controls since the last reporting period.				
	(n) If there were periods during which the continuous monitoring system, including the CEMS, was not out of control as specified in paragraph (o) of this section, a statement that there were not periods during which the continuous monitoring system was out of control during the reporting period.				
	(o) A continuous monitoring system is out of control if any of the following occur:				
	 (1) The zero (low-level), mid-level (if applicable), or high-level calibration drift exceeds two times the applicable calibration drift specification in the applicable performance specification or in the relevant standard; (2) The continuous monitoring system fails a performance test audit (e.g., cylinder gas audit), relative accuracy audit, relative accuracy test audit, or linearity test audit; and (3) The continuous opacity monitoring system calibration drift exceeds two times the limit in the applicable performance specification in the relevant standard. 				

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions				
	(p)				
	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A				
C.71	(40 CFR §60.2775) What Else Must I Report If I Have A Deviation From The Operating Limits Or The Emission Limitations?				
	(a) You must submit a deviation report if any recorded 3-hour average (30-day average for energy recovery units or for PM CPMS) parameter level is above the maximum operating limit or below the minimum operating limit established under this subpart, if the bag leak detection system alarm sounds for more than 5 percent of the operating time for the 6-month reporting period, if a performance test was conducted that deviated from any emission limitation, if a 30-day average measured using a CEMS deviated from any emission limitation.				
	(b) The deviation report must be submitted by August 1 of that year for data collected during the first half of the calendar year (January 1 to June 30), and by February 1 of the following year for data you collected during the second half of the calendar year (July 1 to December 31).				
	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A				
C.72	(40 CFR §60.2780) What Must I Include In The Deviation Report?				
	In each report required under §60.2775, for any pollutant or parameter that deviated from the emission limitations or operating limits specified in this subpart, include the four items described in paragraphs (a) through (d) of this section:				
	(a) The calendar dates and times your unit deviated from the emission limitations or operating limit requirements;				
	(b) The averaged and recorded data for those dates;				
	(c) Durations and causes of the following:				
	(1) Each deviation from emission limitations or operating limits and your corrective actions; and				
	(2) Bypass events and your corrective actions.				
	(d) A copy of the operating limit monitoring data during each deviation and for any test report that				

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions				
	documents the emission levels the process unit(s) tested, the pollutant(s) tested and the date that the performance test was conducted. Submit, following the procedure specified in §60.2795(b)(1), the performance test report no later than the date that you submit the deviation report.				
	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A				
C.73	(40 CFR §60.2785) What Else Must I Report If I Have A Deviation From The Requirement To Have A Qualified Operator Accessible?				
	(a) If all qualified operators are not accessible for 2 weeks or more, you must take the two actions in paragraphs (a)(1) and (2) of this section:				
	(1) Submit a notification of the deviation within 10 days that includes the three items in paragraphs (a)(1)(i) through (iii) of this section:				
	(i) A statement of what caused the deviation; (ii) A description of what you are doing to ensure that a qualified operator is accessible; and (iii) The date when you anticipate that a qualified operator will be available.				
	(2) Submit a status report to the Administrator every 4 weeks that includes the three items in paragraphs (a)(2)(i) through (iii) of this section:				
	(i) A description of what you are doing to ensure that a qualified operator is accessible; (ii) The date when you anticipate that a qualified operator will be accessible; and (iii) Request approval from the Administrator to continue operation of the CISWI.				
	(b) If your unit was shut down by the Administrator, under the provisions of §60.2665(b)(2), due to a failure to provide an accessible qualified operator, you must notify the Administrator that you are resuming operation once a qualified operator is accessible.				
	Emission Unit ID: 33 Fauinment ID: 2801				
	Control Device ID: SCR28A				
C.74	(40 CFR §60.2790) Are There Any Other Notifications Or Reports That I Must Submit?				
	(a) Yes. You must submit notifications as provided by §60.7.				
	(b) If you cease combusting solid waste but continue to operate, you must provide 30 days prior				

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions					
	notice of the effective date of the waste-to-fuel switch, consistent with §60.2710(a). The notification must identify:					
	 (1) The name of the owner or operator of the CISWI, the location of the source, the emissions unit(s) that will cease burning solid waste, and the date of the notice; (2) The currently applicable subcategory under this subpart, and any 40 CFR part 63 subpart and subcategory that will be applicable after you cease combusting solid waste; (3) The fuel(s), non-waste material(s) and solid waste(s) the CISWI is currently combusting and has combusted over the past 6 months, and the fuel(s) or non-waste materials the unit will commence combusting; (4) The date on which you became subject to the currently applicable emission limits; and (5) The date upon which you will cease combusting solid waste, and the date (if different) that you intend for any new requirements to become applicable (i.e., the effective date of the waste-to-fuel switch), consistent with paragraphs (b)(2) and (3) of this section. 					
	Emission Unit ID: 33 Equipment ID: 2801 Control Device ID: SCR28A 40 CFR §60.2795 In What Form Can I Submit My Reports?					
C.75	(a) Submit initial, annual and deviation reports electronically or in paper format, postmarked on or before the submittal due dates. Beginning on April 16, 2021 or once the reporting form has been available in CEDRI for 1 year, whichever is later, you must submit subsequent reports on or before the submittal dates to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/). Use the appropriate electronic report in CEDRI for this subpart or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the CEDRI website (https://www3.epa.gov/ttn/chief/cedri/index.html). When the date forms become available in CEDRI will be listed on the CEDRI website. The reports must be submitted by the deadlines specified in this subpart, regardless of the method in which the report is submitted.					
	(b) Submit results of each performance test and CEMS performance evaluation required by this subpart as follows:					
	(1) Within 60 days after the date of completing each performance test (see §60.8) required by this subpart, you must submit the results of the performance test following the procedure specified in either paragraph (b)(1)(i) or (b)(1)(ii) of this section:					
	(i) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website					

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions					
	(https://www3.epa.gov/ttn/chief/ert/ert_info.html) at the time of the test, you must submit the results of the performance test to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX (https://cdx.epa.gov/).) Performance test data must be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the XML schema listed on the EPA's ERT website. If you claim that some of the performance test information being submitted is confidential business information (CBI), you must submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website, including information claimed to be CBI, on a compact disc, flash drive, or other commonly used electronic storage media to the EPA. The electronic media must be clearly marked as CBI and mailed 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 ERT or alternate file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described earlier in this paragraph; and					
	 (ii) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test, you must submit the results of the performance test to the Administrator at the appropriate address listed in §60.4. (2) Within 60 days after the date of completing each continuous emissions monitoring system 					
	performance evaluation you must submit the results of the performance evaluation following the procedure specified in either paragraph (b)(1) or (2) of this section: (i) For performance evaluations of continuous monitoring systems measuring relative					
	accuracy test audit (RATA) pollutants that are supported by the EPA's ERT as listed on the EPA's ERT website at the time of the evaluation, you must submit the results of the performance evaluation to the EPA via the CEDRI. CEDRI can be accessed through the EPA's CDX. Performance evaluation data must be submitted in a file format generated through the use of the EPA's ERT or an alternate file format consistent with the XML schema listed on the EPA's ERT website. If you claim that some of the performance evaluation information being submitted is CBI, you must submit a					
	complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website, including information claimed to be CBI, on a compact disc, flash drive, or other commonly used electronic storage media to the EPA. The electronic storage media must be clearly marked as CBI and mailed 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 ERT or alternate file with the CBI omitted must be submitted to					
	the EPA via the EPA's CDX as described earlier in this paragraph; and (ii) For any performance evaluations of continuous monitoring systems measuring					

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions			
	RATA pollutants that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the evaluation, you must submit the results of the performance evaluation to the Administrator at the appropriate address listed in §60.4.			
	(c) If you are required to electronically submit a report through the Compliance and Emissions Data Reporting Interface (CEDRI) in the EPA's Central Data Exchange (CDX), and due to a planned or actual outage of either the EPA's CEDRI or CDX systems within the period of time beginning 5 business days prior to the date that the submission is due, you will be or are precluded from accessing CEDRI or CDX and submitting a required report within the time prescribed, you may assert a claim of EPA system outage for failure to timely comply with the reporting requirement. You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or caused a delay in reporting. You must provide to the Administrator a written description identifying the date, time and length of the outage; a rationale for attributing the delay in reporting beyond the regulatory deadline to the EPA system outage; describe the measures taken or to be taken to minimize the delay in reporting; and identify a date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported. In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved. 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.			
	(d) If you are required to electronically submit a report through CEDRI in the EPA's CDX and 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 5 business days prior to the date the submission is due, the owner or operator may assert a claim of force majeure for failure to timely comply with the reporting requirement. For the purposes of this section, 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 you 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). If you intend to assert a claim of force majeure, you must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or caused a delay in reporting. You must provide to the Administrator a written description of the force majeure event; describe the measures taken or to be taken to minimize the delay in reporting; and identify a date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported. In any circumstance, the reporting requirement at the time of the force majeure event and an existing the delay in reporting device.			

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions				
	extension to the reporting deadline is solely withir	the discretion of the Administra	ator.		
	Emission Unit ID: 18, 20, 32				
	Equipment ID: All				
	Control Device ID: All				
	Fauinment 18M03 IntegRey Process Fauinment a	nd 18M04 Filtrate Purge Equipm	ent are subject to		
	Synthetic Minor PSD avoidance limits are as follow	/s:			
	Pollutant	Emission Limitation (TPY)			
	СО	1664.24			
	VOC	418.54			
	PM	141.32			
	PM10	83.70			
	NOx	1120.92			
	SO ₂	1496.6			
C.76	C.76 The owner/operator shall maintain production records and any other records necess determine CO, VOC, PM, PM10, NOx, and SO2 emissions from this source. These pollutants en shall be calculated on a monthly basis, and a twelve-month rolling sum shall be calculated to CO, VOC, PM, PM ₁₀ , NOx, and SO2 emissions. Reports of the calculated values and the twelve rolling sum, calculated for each of the months in the reporting period, shall be su semiannually.				
	An algorithm, including example calculations and determine emission rates shall be included in t algorithm and example calculations are unnecessa unacceptable by the Department or if the facility ch changes emission factors.	emission factors, explaining the he initial report. Subsequent s ary, unless the method of calculat nanges the method of calculating	e method used to submittals of the ion is found to be emissions and/or		
	The owner/operator shall install, operate, and maintain combustion zone and/or a temperature indicators on the incinerator. Temperature readings shall be recorded at fifteen (15) minutes during source operation when the incinerator is operating. Maintena for proper temperature indicator operation shall be made on at least a weekly basis. The shall be in place and operational as necessary to comply with the emissions limitations ap the process controlled by it, except during of flame incinerator malfunction or mechanica				

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D. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
61	E	N/A	N/A	N/A
63	F	Semi-Annual (Periodic Report)	Contact Air Toxics	No later than 60 calendar days after the end of each 6-month period
63	G	Semi-Annual (Periodic Report)	Contact Air Toxics	No later than 60 calendar days after the end of each 6-month period
63	H (Equipment Leaks)	Semi-Annual	Contact Air Toxics	No explicitly specified. Use - No later than 60 days after the end of each reporting period
63	JJJ (Periodic Report & EL)	Semi-Annual	January 1 through June 30 July 1 through December 31	No later than 60 days after the end of each 6-month period
63	FFFF	Semi-Annual	January 1 through June 30 July 1 through December 31	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
63	ZZZZ (Emergency Engines see note 3 and 4)	N/A	N/A	N/A
63	DDDDD	Semi-Annual	January 1 through June 30 July 1 through December 31	Postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period
63	DDDDD	Annual, Biennial, or Five- Year	January 1 – December 31, Biennially, or Five Years	Postmarked no later than January 31 following the end of the reporting period

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- 1. This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific NESHAP Subpart for additional reporting requirements and associated schedule.
- 2. This reporting schedule does not supersede any other reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, 40 CFR Part 63, and/or Title V. The MACT reporting schedule may be adjusted to coincide with the Title V reporting schedule with prior approval from the Department in accordance with 40 CFR 63.10(a)(5). This request may be made 1 year after the compliance date for the associated MACT standard.
- 3. Facilities with emergency engines are not required to submit reports. Only facilities with non-certified, nonemergency engines are required to submit semiannual reports.
- 4. Facilities with emergency engines shall comply with the operations limits specified in 40 CFR 63.6640(f).

Condition Number	Conditions		
E.1	All NESHAP notifications and reports shall be sent to the Manager of the Air Toxics Section, Bureau of Air Quality.		
	All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States Environmental Protection Agency (US EPA) at the following address or electronically as required by the specific subpart:		
E.2	US EPA, Region 4		
	Air, Pesticides and Toxics Management Division		
	61 Forsyth Street SW		
	Atlanta, GA 30303		
E.3	Emergency engines less than or equal to 150 kilowatt (kW) rated capacity, emergency engines greater than 150 kW rated capacity designated for emergency use only and operated a total of 500 hours per year or less for testing and maintenance and have a method to record the actual hours of use, such as an hour meter, and diesel engine driven emergency fire pumps that are operated a total of 500 hours per year or less for testing and maintenance and have a method to record the actual hours of use, such as an hour meter, have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1.		
	Including but not limited to the following: New Source Performance Standards (NSPS) 40 CFR 60 Subpart A (General Provisions); NSPS 40 CFR 60 Subpart IIII (Stationary Compression Ignition Internal Combustion Engines); NSPS 40 CFR 60 Subpart JJJJ (Stationary Spark Ignition Internal Combustion Engines); National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart A (General Provisions); and NESHAP 40 CFR 63 Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines).		
	S.C. Regulation 61-62.61 and 40 CFR 61, Subpart E		
E.4	This facility has processes subject to the provisions of S.C. Regulation 61-62.61 and 40 CFR 61, National Emission Standards for Hazardous Air Pollutants, Subparts A and E – National Emission		

E. NESHAP – CONDITIONS

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E. NESHAP – CONDITIONS

Condition Number	Conditions		
	Standard for Mercury. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial startup unless otherwise noted.		
	The following are affected sources for Subpart E: • 2801 - Fluidized Bed Incinerator (Emission Unit 33)		
	S.C. Regulation 61-62.63 and 40 CFR 63, Subpart F		
E.5	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and F – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial startup unless otherwise noted.		
	 The following are affected sources for Subpart F: CTA/PTA (17M03/17M07/17M09) Production Process (Emission Unit 18) Filtrate Purge (18M04) Process (Emission Unit 20) Material Unloading (3301) (Emission Unit 30) 		
	S.C. Regulation 61-62.63 and 40 CFR 63, Subpart G		
E.6	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial startup unless otherwise noted.		
	 The following are affected sources for Subpart G: CTA/PTA (17M03/17M07/17M09) Production Process (Emission Unit 18) Filtrate Purge (18M04) Process (Emission Unit 20) Material Unloading (3301) (Emission Unit 30) 		
S.C. Regulation 61-62.63 and 40 CFR 63, Subpart H			
E.7	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and H – National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial startup unless otherwise noted.		
	 The following are affected sources for Subpart H: CTA/PTA (17M03/17M07/17M09) Production Process (Emission Unit 18) 		

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E. NESHAP – CONDITIONS

Condition Number	Conditions			
	Filtrate Purge (18M04) Process (Emission Unit 20)			
	Material Unloading (3301) (Emission Unit 30)			
	S.C. Regulation 61-62.63 and 40 CFR 63, Subpart JJJ			
E.8	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and JJJ – National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial startup unless otherwise noted.			
	The following are affected sources for Subpart III:			
	Polymer II production (Emission Unit 23)			
	IntegRex PET production (Emission Unit 32)			
S.C. Regulation 61-62.63 and 40 CFR 63, Subpart FFFF				
E.9	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial startup unless otherwise noted.			
	The following are affected sources for Subpart FFFF:			
	Solid Stating II (17K02) Production Process (Emission Unit 25)			
	Solid Stating IV (17L11) Production Process (Emission Unit 27)			
	S.C. Regulation 61-62.63 and 40 CFR 63, Subpart DDDDD			
E.10	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and DDDDD – National Emission Standards for Hazardous Air Pollutants For Major Sources: Industrial, Commercial, And Institutional Boilers and Process Heaters. Existing affected sources shall be in compliance with the requirements of these Subparts by the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.			
	The following are affected sources for Subpart DDDDD:Heaters No. 3, 4, 5, and 9 (Emission Unit 33)			

F. COMPLIANCE SCHEDULE - RESERVED

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G. PERMIT SHIELD

Condition Number	Conditions			
G.1	(S.C. Regulation 61-62.70.6(f)) A copy of the "applicability determination" submitted with the Part 70 permit application is included as Attachment – Applicable and Non-Applicable Federal and State Regulations. With the exception of those listed below, compliance with the terms and conditions of this permit shall be deemed compliance with the applicable requirements specified in Attachment – Applicable and Non-Applicable Federal and State Regulations as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in the permit. The owner or operator shall also be shielded from the non-applicable requirements specified in Attachment – Applicable and Non-Applicable Federal and State Regulations. Exceptions to this are stated below in the Permit Shield Exceptions Table. This permit shield does not extend to applicable requirements which are promulgated after permit issuance, unless the permit has been appropriately modified to reflect such new requirements.			
	Nothing in the permit shield or in any Part 70 permit shall alter or affect the provisions of Section 303 of the Act, Emergency Orders, of the Clean Air Act; the liability of the owner or operator for any violation of applicable requirements prior to or at the time of permit issuance; the applicable requirements of the Acid Rain Program, consistent with Section 408.a of the Clean Air Act; or the ability of US EPA to obtain information from a source pursuant to Section 114 of the Clean Air Act. In addition, the permit shield shall not apply to emission units in noncompliance at the time of permit issuance, minor permit modifications (S.C. Regulation 61-62.70.7(e)(2)), group processing of minor permit modifications (S.C. Regulation 61-62.70.7(e)(5)(ii)), except as specified in S.C. Regulation 61-62.70.7(e)(5)(iii).			
	Permit Shield Exceptions			
SC Regulation 61-62.1, Definitions and General Requirements SC Regulation 61-62.5, Standard No. 7 - Prevention of Significant Deterioration				
SC Regulation 61-62.60, SC Designated Facility Plan and NSPS (Subpart A – DDDD)				
SC Regulation 61-62.61, National Emission Standards for Hazardous Air Pollutants				
SC Regulation 61-62.63, National Emission Standards for Hazardous Air Pollutants (Subparts A, ZZZZ, and DDDDD)				
40 CFR 60, S	ubpart D - Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction			
	Commenced After August 17, 1971			
40 CFR 60, Su	bpart DDDD - Emission Guidelines and Compliance Times for Commercial and Industrial Solid Waste			
	incineration Units that Commenced Construction on or Before November 30, 1999			

Condition Number	Conditions		
	The facility may install, remove, and modify insignificant activities as defined in S.C. Regulation 61-		
H.1	62.70.5(c) and exempt sources as listed in S.C. Regulation 61-62.1, Section II(B), without revising or		
	reopening the Title V Operating Permit. A list of insignificant activities/exempt sources must be		

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Condition Number	Conditions				
	maintained on site, along with any necessary documentation to support the determination that the activity is insignificant and/or exempt, and shall be made available to a Department representative upon request. The list shall be submitted with the next renewal application.				
	The following activities shall be allowed, without a construction permit, or without revising or reopening the operating permit unless otherwise specified by S.C. Regulation 6162.70 or any other State or Federal requirement. The activity will not result in emissions that will exceed any limit in this permit or the facility's potential to emit; the activity itself is not considered a modification under 40 CFR Part 60, 61 or 63 and compliance with South Carolina Regulation 61-62.5 Standards 2 (Ambient Air Quality Standards), 7 (PSD) and 8 (Toxic Air Pollutants) is not affected. 40CFR63 (MACT) related activities are not covered under this permitting flexibility condition.				
	As part of this permit flexibility procedure the facility shall keep an on-site implementation log (OSIL) to document all changes made under the procedure. The OSIL shall provide detailed contemporaneous information supporting the changes made under this procedure. The OSIL shall be readily available to the Bureau and submitted semiannually to the Director of the Air Permitting Division. If no changes to the OSIL occurred during the reporting period then a letter shall indicate such.				
Н.2	The owner/operator must cease implementation of any modification if it is found to be inconsistent with the permit flexibility conditions, and may also be subject to possible enforcement action(s). The owner/operator assumes the risk of any financial loss resulting from implementing the modification(s). Implementation of the modification(s) may be resumed upon receipt of written approval.				
	 Replacement of process equipment such as reactors, storage tanks, etc. with equipment identical in capacity, dimensions, and characteristics or with equipment that will have the same or lower emissions. Manufacture of new products in existing equipment. 				
	 Changes in product formulation in existing equipment. Additions of new raw material, and changes in raw material usage or formulation including paints and other coatings that do not necessitate construction or modification to existing equipment. 				
	5. Addition of control devices for the purpose of hygiene, safety, or other non-creditable decreases in emissions.				
	 6. Any activity exempted in South Carolina Regulation 61-62.1 Sections II. 7. Re-routing of stacks or any change in stack parameters (i.e. stack height, orientation, diameter, removal or addition of rain caps). 				
	8. Changes in the sequence of process operations.				
	9. Change in the method of raw material addition.				
	10. Change in the method of product packaging. 11. The operational changes in the physical dimensions, layout, configuration of equipment,				

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Condition Number	Conditions				
	arrangement or locations of process equipment to accommodate production needs as long as it does not affect air emissions or impact modeled stack parameters. 12. Changes in the supplier of raw materials, fuels, or paints and other coatings, as long as there are no changes in formulation.				
	13. Change in operating parameters as long as they do not quantitatively affect air emissions or impact modeled stack parameters.				
	14. Temporary discontinuation of use of equipment, including but not limited to dip tanks, holding tanks, mix tanks, solvent tanks, and piping, as long as the period of discontinuation does not exceed 12 months.				
	The following information shall be recorded and maintained in the OSIL for any of the activities described above on the date the activity is commenced at the facility:				
	i. A brief description of the modification(s) and how it relates to the above pre-approved changes including any flow diagrams, equipment identification, etc. that help clarify the proposed changes.				
	 ii. The date the modification(s) will occur. iii. Identification of what equipment/emissions units the modification(s) will affect. (Include Operating Permit unit identification, equipment identification, stack identification, etc.) iv. The schedule for the implementation of the modification(s) 				
	 v. An applicability determination showing the proposed physical or operational change will not be a modification under 40CFR60, 40CFR61, or 40CFR63. An applicability determination showing the proposed physical or operational change will not cause the facility or activity to be subject to South Carolina Regulation 61-62.5, Standard 7. If the facility is major for PSD and there is any increase in a regulated NSR pollutant, an actual-to-projected-actual applicability test or actual-to-potential test must be performed and documented. The baseline actual emissions, projected actual emissions, and potential emissions used in these tests must include fugitive emissions. A review of recent project activity at the facility must be made and the emissions from multiple projects that are interrelated must be aggregated. If the difference between the baseline actual and projected actual and/or potential equals or exceeds 50 percent of the applicable NSR significant level, the activity will require a construction permit. The facility shall maintain records of the actual to projected actual or potential emission and include as part of the OSIL submittal. vi. Emissions calculations for all regulated air pollutants resulting from the activity and demonstration that when added to the existing emissions all permit limits will be met. This should include the increase and the facility-wide PTE emissions totals from the 				
	modification(s). vii. An applicability determination showing the proposed physical or operational change will not change the previous air dispersion modeling for the facility, in accordance with South Carolina 61-62.5, Standards 2, 7 and/or 8. Any changes in the parameters used in the air				

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Condition Number	Conditions					
	dispersion modeling may require a review by the Department to determine continuing compliance with these standards. These potential changes include any decrease in stack					
	height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified.					
	ctivities subject to 40 CFR 63 Subpart FFFF (National Emission Standards For Hazardous Air					
	Pollutants: Miscellaneous Organic Chemical Manufacturing) that are allowed without a construction					
	permit or without revising or reopening the operating permit under Condition H.2 shall be approved					
	provided all of the following requirements are met:					
	 Required by Condition H.2 and shall include the following additional information. A description of the process and the type of process equipment used: 					
	b An identification of related process vents and their associated emissions episodes					
	and durations, wastewater Point of Discharge (PODs), and storage tanks;					
	c. The applicable control requirements of Subpart FFFF, including the level of required					
	control, and for vents, the level of control for each vent;					
	d. The control or treatment devices used, as applicable, including a description of					
	operating and/or testing conditions for any associated control device;					
	e. The process vents, wastewater PODs, and storage tanks (including those from other processes) that are simultaneously routed to the control or treatment device(s);					
	f. The applicable monitoring requirements of this subpart and the parametric levels					
	emissions routed to the control or treatment device.					
H.3	g. Calculations and engineering analyses required to demonstrate compliance; and					
	h. Verification that the operating conditions for any associated control or treatment					
	device have not been exceeded and that any required calculations and engineering					
	analyses have been performed.					
	i. A comparison of the emission profile of the proposed process change or new					
	operating scenario and the worst case emission profile demonstrated during the					
	Most recent Subpart FFFF compliance demonstration.					
	manufacture of a new miscellaneous organic chemical manufacturing product. An operating					
	scenario is defined as the specific operation of a miscellaneous organic chemical					
	manufacturing process unit (MCPU). A change to any of these elements not previously					
	reported, except for paragraph 1(e) of this condition, shall constitute a new operating					
	scenario.					
	2. The OSIL shall be maintained and submitted as required by Condition H.2					
	3. For each new operating scenario, the information required by 40 CFR 63.2520(e)(7) shall be					
	submitted in the periodic report for Subpart FFFF covering the reporting period for which the new operating scenario was implemented					

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H. PERMIT FLEXIBILITY

Condition Number	Conditions		
	4. Whenever a process change is made, the information specified in 40 CFR 63.2520(e)(10) shall		
	be submitted with the periodic report for Subpart FFFF covering the reporting period for		
	which the process change was implemented. The changes outlined in 40 CFR		
	63.2520(e)(10)(ii)(A) through (C) are not allowed under this Subpart FFFF Permit Flexibility.		
	This Subpart FFFF Permit Flexibility Condition does not alter any obligations that the source has to		
	comply with in this Title V permit or Subpart FFFF itself. Consistency with the requirements of this		
	condition does not protect a source from violation of the standard where calculations are in error or		
	there is failure to assure compliance with Subpart FFFF.		

I. AMBIENT AIR STANDARDS REQUIREMENTS

Condition Number	Conditions		
1.1	Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.		
	The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement		

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J. PERIODIC REPORTING SCHEDULE

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
	January-March	April 30
Quartarly	April-June	July 30
Quarterly	July-September	October 30
	October-December	January 30
	January-June	July 30
Comiannual	April-September	October 30
Semidimudi	July-December	January 30
	October-March	April 30
Note: This reporting schedule does not supersede any federal reporting requirements including but not limited to		
40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified		
in the federal standard unless the Department or EPA approves a change.		

K. TITLE V COMPLIANCE CERTIFICATION REPORTING SCHEDULE

Title V Compliance Certification Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
	January-December	February 14
Appual	April-March	May 15
Annual	July-June	August 14
	October-September	November 14

L. TITLE V RECORD KEEPING AND REPORTING REQUIREMENTS

Condition Number	Conditions
L.1	Reporting required in this permit, shall be submitted in a timely manner as directed in the Title V Periodic Reporting Schedule and the Title V Compliance Certification Reporting Schedule of this permit. All required reports must be certified by a responsible official consistent with S.C. Regulation 61-62.70.5(d).
L.2	All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address: 2600 Bull Street Columbia, SC 29201 The contact information for the local Regional office can be found at: http://www.des.sc.gov
L.3	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.

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L. TITLE V RECORD KEEPING AND REPORTING REQUIREMENTS

Condition Number	Conditions
L.4	All Title V Annual Compliance Certifications shall be sent to the US EPA, Region 4, Air Enforcement Branch and to the Manager of the Technical Management Section, Bureau of Air Quality. US EPA, Region 4 Air Enforcement Branch 61 Forsyth Street SW Atlanta, GA 30303
L.5	 (S.C. Regulation 61-62.70.6(a)(3)(ii)) The owner or operator shall comply, where applicable, with the following monitoring/support information collection and retention record keeping requirements: 1. Records of required monitoring information shall include the following: a. The date, place as defined in the permit, and time of sampling or measurements; b. The date(s) analyses were performed; c. The company or entity that performed the analyses; d. The analytical techniques or methods used; e. The results of such analyses; and f. The operating conditions as existing at the time of sampling or measurement; 2. Records of all required monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
L.6	 (S.C. Regulation 61-62.1, Section II(J)(1)(c)) For sources not required to have continuous emission monitors, any malfunction of air pollution control equipment or system, process upset, or other equipment failure which results in discharges of air contaminants lasting for one (1) hour or more and which are greater than those discharges described for normal operation in the permit application, shall be reported to the Department within twenty-four (24) hours after the beginning of the occurrence and a written report shall be submitted to the Department within thirty (30) days. The written report shall include, at a minimum, the following: The identity of the stack and/or emission point where the excess emissions occurred; The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions; The identity of the equipment causing the excess emissions; The identity of the equipment causing the excess emissions; The identity of the equipment causing the excess emissions; The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction; The steps taken to limit the excess emissions; and, Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.

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L. TITLE V RECORD KEEPING AND REPORTING REQUIREMENTS

Condition Number	Conditions
	The initial twenty-four (24) hour notification should be made to the Department's local Regional office.
	The written report should be sent to the Manager of the Technical Management Section, Bureau of Air Quality and the local Regional office.
L.7	 (S.C. Regulation 61-62.70.6(c)(5)(iii)) The responsible official shall certify, annually, compliance with the conditions of this permit as required under S.C. Regulation 61-62.70.6(c). The compliance certification shall include the following: The identification of each term or condition of the permit that is the basis of the certification. The identification of the method(s) or means used by the owner or operator for determining the compliance status with each term and condition of the permit during the certification period. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in S.C. Regulation 61-62.70.6(c)(5)(iii)(B). The certification shall identify each deviation and take it into account in the compliance certification. Such other facts as the Department may require to determine the compliance status of the source.
L.8	(S.C. Regulation 61-62.1, Section II(M)) Within 30 days of the transfer of ownership/operation of a facility, the current permit holder and prospective new owner or operator shall submit to the Director of Air Permitting a written request for transfer of the source operating or construction permits. The written request for transfer of the source operating or construction permit shall include any changes pertaining to the facility name and mailing address; the name, mailing address, and telephone number of the owner or operator for the facility; and any proposed changes to the permitted activities of the source. Transfer of the operating or construction permits will be effective upon written approval by the Department.

M. GENERAL FACILITY WIDE

Condition Number	Conditions
M.1	The owner or operator shall comply with S.C. Regulation 61-62.2 "Prohibition of Open Burning."
M.2	The owner or operator shall comply with S.C. Regulation 61-62.3 "Air Pollution Episodes."
M.3	The owner or operator shall comply with S.C. Regulation 61-62.4 "Hazardous Air Pollution Conditions."
M.4	The owner or operator shall comply with S.C. Regulation 61-62.6 "Control of Fugitive Particulate Matter", Section III "Control of Fugitive Particulate Matter Statewide."
M.5	The owner or operator shall comply with the standards of performance for asbestos abatement operations pursuant to 40 CFR Part 61.145, including, but not limited to, requirements governing

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M. GENERAL FACILITY WIDE

Condition Number	Conditions
	training, licensing, notification, work practice, cleanup, and disposal.
M.6	The owner or operator shall comply with the standards of performance for asbestos abatement operations pursuant to S.C. Regulation 61-86.1, including, but not limited to, requirements governing training, licensing, notification, work practice, cleanup, and disposal.
M.7	The owner or operator shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, Protection of Stratospheric Ozone, Recycling and Emissions Reduction, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. If the owner or operator performs a service on motor (fleet) vehicles that involves ozone-depleting substance refrigerant in MVACs, the owner or operator is subject to all applicable requirements of 40 CFR Part 82, Subpart B, Servicing of MVACs.
M.8	(S.C. Regulation 61-62.70.6(a)(5)) The provisions of this permit are severable, and if any provision of this permit, or application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
M.9	(S.C. Regulation 61-62.70.6(a)(6)(i)) The owner or operator must comply with all of the conditions of this permit. Any permit noncompliance constitutes a violation of the S.C. Pollution Control Act and/or the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of permit renewal application.
M.10	(S.C. Regulation 61-62.70.6(a)(6)(ii)) It shall not be a defense for an owner or operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
M.11	(S.C. Regulation 61-62.70.6(a)(6)(iii)) The permit may be modified, revoked, reopened and reissued, or terminated for cause by the Department. The filing of a request by the owner or operator for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
M.12	(S.C. Regulation 61-62.70.6(a)(6)(iv)) The permit does not convey any property rights of any sort, or any exclusive privilege.
M.13	(S.C. Regulation 61-62.70.6(a)(6)(v)) The owner or operator shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the owner or operator shall also furnish to the Department copies of records required to be kept by the permit or, for information claimed to be confidential, the owner or operator may furnish such records directly to the Administrator along with a claim of confidentiality. The Department may also request that the owner or operator furnish such records directly to the Administrator along with a claim of confidentiality.
M.14	(S.C. Regulation 61-62.70.6(a)(8)) No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
M.15	(S.C. Regulation 61-62.70.6(c)(2)) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following:
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M. GENERAL FACILITY WIDE

Condition Number	Conditions
	 Enter upon the owner or operator's premises where a Part 70 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. As authorized by the Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
M.16	 (S.C. Regulation 61-62.70.6(g)) In the case of an emergency, as defined in S.C. Regulation 61-62.70.6(g)(1), the owner or operator shall demonstrate an affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that: An emergency occurred and that the owner or operator can identify the cause(s) of the emergency; The permitted facility was at the time being properly operated; and During the period of the emergency the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and The owner or operator shall submit verbal notification of the emergency to the Department within twenty-four (24) hours of the time when emission limitations were exceeded, followed by written notifications within thirty (30) days. This notice fulfills the requirement of S.C. Regulation 61-62.70.6(a)(3)(iii)(B). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This provision is in addition to any emergency or upset provision contained in any applicable requirement. In any enforcement proceeding, the owner or operator seeking to establish the occurrence of an emergency has the burden of proof.
M.17	(S.C. Regulation 61-62.70.6(a)(1)(ii)) Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.
M.18	(S.C. Regulation 61-62.70.6(a)(4)) According to S.C. Regulation 61-62.70.6(a)(4), the owner or operator is prohibited from emissions exceeding any allowances that the source lawfully holds under Title IV of the Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by a source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowances shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Act.
M.19	(S.C. Regulation 61-62.70.7(c)(1)(ii)) Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with S.C. Regulation 61-

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M. GENERAL FACILITY WIDE

Condition Number	Conditions
	62.70.5(a)(1)(iii), 62.70.5(a)(2)(iv), and 62.70.7(b). In this case, the permit shall not expire until the
	renewal permit has been issued or denied. All terms and conditions of the permit including any
	permit shield that may be granted pursuant to S.C. Regulation 61-62.70.6(f) shall remain in effect until
	the renewal permit has been issued or denied.
M.20	Requests for permit modification and amendments shall be submitted on the appropriate Department approved Title V Modification Form(s).
	(S.C. Regulation 61-62.70.6(a)(7)) The owners or operators of Part 70 sources shall pay fees to the
M.21	Department consistent with the fee schedule approved pursuant to S.C. Regulation 61-62.70.9.
	Failure to pay applicable fee can be considered grounds for permit revocation.
	(S.C. Regulation 61-62.1, Section III) The owners or operators of Part 70 sources shall complete and
	submit a new updated emissions inventory consistent with the schedule approved pursuant to S.C.
	Regulation 61-62.1, Section III. These Emissions Inventory Reports shall be submitted to the Manager
M.22	of the Emissions Inventory Section, Bureau of Air Quality.
	This requirement notwithstanding, an emissions inventory may be required at any time in order to determine the compliance status of any facility.
	This permit expressly incorporates insignificant activities. Emissions from these activities shall be
M.23	included in the emissions inventory submittals as required by S.C. Regulation 61-62.1, Section
	III(B)(2)(g).
M.24	(S.C. Regulation 61-62.1, Section II(J)(1)(a)) No applicable law, regulation, or standard will be
	contravened.
	(S.C. Regulation 61-62.1, Section II(J)(1)(e)) Any owner or operator who constructs or operates a source
M.25	or modification not in accordance with the application submitted pursuant to S.C. Regulation 61-62.1
	or with the terms of any approval to construct, or who commences construction after the effective
	date of S.C. Regulation 61-62.1 without applying for and receiving approval hereunder, shall be
	subject to enforcement action.

ATTACHMENT - Emission Rates for Ambient Air Standards

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The emission rates listed herein are not considered enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see Ambient Air Standards Requirements).

AMBIENT AIR QUALITY STANDARDS – STANDARD NO. 2						
Enviorien Deint ID	Emission Rates (lbs/hr)					
	PM ₁₀	PM _{2.5}	SO ₂	NOx	СО	Lead
16M05					10.03	
16M05B	0.09	0.09				
17K01127			0.001	0.30	7.30E-02	
17K01GRP	0.014	0.01				
17K021A	0.01104	0.01104				
17K021C	0.00384	0.00384				
17K023E	0.00108	0.00108				
17K023F	0.002475	0.002475				
17K02FG1	0.05	0.05				
17K02GRP	0.276	0.276				
17L06GRP	0.11	0.11				
17L09GRH	0.11	0.11				
17L111	0.071	0.07				
17M03A					40.913	
17M03AC	0.37	0.37				
17M03AE	1.8802	1.1000			3500.059	
17M03AG	0.46	0.09				
17M03BC					3.155	
17M03F	1.35	0.216			135.082	
17M03G					33.556	
17M03K					2500.042	
17M03O	0.04	0.04				
17M03R	0.115	0.115				
17M03SUZ	0.203	0.203	0.015	6.42	26.786	
17M10AD	0.112	0.112				
17M10AH	0.174	0.151				
17M10AI	0.174	0.150				
17M10AJ	0.174	0.150				
17N06	2.80	2.80	4.50	3.10	3.10	0.001
17N06BCD	10.80	2.54				
18K02_K	1.22	1.22	0.074	12.56	47.160	
18K02L	0.160	0.160				

ATTACHMENT - Emission Rates for Ambient Air Standards

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AMBIENT AIR QUALITY STANDARDS – STANDARD NO. 2							
Emission Doint ID	Emission Rates (lbs/hr)						
	PM ₁₀	PM _{2.5}	SO ₂	NOx	СО	Lead	
18K02M	0.160	0.160					
18K02N	0.607	0.607					
18K02O	0.014	0.014					
18K02P	0.065	0.065					
18K02S	0.004	0.004					
18LYRD-02	0.000432	0.000432					
COOLTWR1	0.56	0.56					
EP81001					9.90		
HEAT345	37.26	25.2	589.22	98.18	21.088	0.003	
HEAT9	0.61	0.26	18.81	5.32	2.70	1.63E-05	

STANDARD NO. 8 - TOXIC AIR POLLUTANTS EMISSION RATES (LBS/HR)							
Emission Point ID	Acetaldehyde	Ethylene Glycol	Methanol	Methyl Bromide			
	75-07-0	107-21-1	67-56-1	74-83-9			
17K01115		1.200					
17K0113		1.800	0.65				
17K0114		2.400					
17K0115		1.800					
17K0127	4.071	7.072	1.93				
17K014		1.500					
17K01FUG	0.034	4.60	0.099				
17K01GP		0.158					
17K01GRN	0.02						
17K02FUG	0.281	2.113	0.281				
17K02GRN	0.215	0.350	0.238				
17L01GP		1.240					
17L11_23	2.603						
17L11_5		3.889	0.714				
17L11FUG	0.005	0.028	0.005				
17M03A	0.003			2.50			
17M03AA			0.300				
17M03BC				0.560			
17M03F			0.090	3.00			
17M03FUG			0.024				
17M03G			0.55	0.683			

ATTACHMENT - Emission Rates for Ambient Air Standards

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STANDARD NO. 8 - TOXIC AIR POLLUTANTS EMISSION RATES (LBS/HR)								
Emission Point ID	Acetaldehyde	Ethylene Glycol	Methanol	Methyl Bromide				
	75-07-0	107-21-1	67-56-1	74-83-9				
17M03GRN	0.02							
17M03K	0.14		1.29	45.15				
17M03SUZ	0.003			0.900				
18K02_A1		0.335						
18K02_A2	0.002	0.398						
18K02_K	0.362							
18K02_R	0.288	1.632						
18K02_U	11.675	0.538						
18K02GP1		1.133						
18K02GP2		1.009						
18K02GRV (Vents D, l, J)	0.029							
18LYRD	0.220	0.090	0.220					
18M04B				0.001				
IWWT	15.409	0.009	1.164	1.320				

STANDARD NO. 8 - TOXIC AIR POLLUTANTS EMISSION RATES (LBS/HR)						
Emission Point ID	Antimony compounds	Biphenyl	Cobalt compounds	N/A		
	+	92-52-4	+			
17K0125	0.024		-			
17K0126			0.033			
17L06FUG		0.030				
HEAT345F		0.162				

ATTACHMENT – Applicable and Non-Applicable Federal and State Regulations

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The following contains the Federal and South Carolina air pollution regulations and their applicability, as specified in the Part 70 permit application.

APPLICABILITY DETERMINATION						
Citation	Regulation	Applicable (Yes / No)				
SC Regulation 61-62.1	Definitions and General Requirements	Y				
SC Regulation 61-62.5, Standard No. 1	Emissions from Fuel Burning Operations	Y				
SC Regulation 61-62.5, Standard No. 2	Ambient Air Quality Standards	Y				
SC Regulation 61-62.5, Standard No. 3	Waste Combustion and Reduction	Y				
SC Regulation 61-62.5, Standard No. 4	Emissions from Process Industries	Y				
SC Regulation 61-62.5, Standard No. 5.2	Control of Oxides of Nitrogen	Y				
SC Regulation 61-62.5, Standard No. 7	Prevention of Significant Deterioration	Y				
SC Regulation 61-62.5, Standard No. 8	Toxic Air Pollutants	Y				
SC Regulation 61-62.60	SC Designated Facility Plan and NSPS	Y				
SC Regulation 61-62.61	NESHAP	Y				
SC Regulation 61-62.63	NESHAP for Source Categories	Y				
SC Regulation 61-62.70	Title V Operating Permit Program	Y				
40 CFR 60 Subpart A	General Provisions	Y				
40 CFR 60 Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Commenced After August 17, 1971	Y				
40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	Y				
40 CFR 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Y				
40 CFR 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984	Y				
40 CFR 60 Subpart VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Mfg. Industry	Y				
40 CFR 60 Subpart VVa	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006	Y				

ATTACHMENT – Applicable and Non-Applicable Federal and State Regulations

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APPLICABILITY DETERMINATION					
Citation	Regulation	Applicable (Yes / No)			
40 CFR 60 Subpart III	Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation Unit Processes	Y			
40 CFR 60 Subpart NNN	Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations	Y			
40 CFR 60 Subpart DDDD	Emission Guidelines and Compliance Times for Commercial and Industrial Solid Waste Incineration Units that Commenced Construction on or Before November 30, 1999	Y			
40 CFR 61 Subpart A	General Provisions	Y			
40 CFR 61 Subpart E	National Emission Standards for Mercury	Y			
40 CFR 63 Subpart A	General Provisions	Y			
40 CFR 63 Subpart F	National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry	Y			
40 CFR 63 Subpart G	National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	Y			
40 CFR 63 Subpart H	National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks	Y			
40 CFR 63 Subpart JJJ	National Emission Standards for Hazardous Air Pollutants Emissions: Group IV Polymers and Resins	Y			
40 CFR 63 Subpart FFFF	National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing	Y			
40 CFR 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutant Emissions: Reciprocating Internal Combustion Engines (RICE)	Y			
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutant Emissions: Industrial, Commercial, and Institutional Boilers and Process Heaters	Y			
40 CFR 64	Compliance Assurance Monitoring	Y			