COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date:	January 8, 2021	Effective Date:	November 12, 2021
Revision Date:	November 12, 2021	Expiration Date:	January 31, 2026
Revision Type:	Amendment		

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 07-05001

Federal Tax Id - Plant Code: 87-1484621-1

Owner Information

Name: ROARING SPRING PARK LLC
Mailing Address: 100 PAPER MILL RD
ROARING SPRING, PA 16673-1480

Plant Information

Plant: ROARING SPRING PARK LLC/BLAIR COUNTY
Location: 07 Blair County 07803 Roaring Spring Borough
SIC Code: 2621 Manufacturing - Paper Mills

Responsible Official

Name: WILLIAM L FIRESTONE
Title: CO-MANAGER
Phone: (860) 250 - 2600 Email: bill@roaringspringpark.com

Permit Contact Person

Name: RICHARD BAREFOOT
Title: CONTRACTED FACILITY MGR
Phone: (814) 312 - 6621 Email: Rick@roaringspringpark.com

[Signature] _____
WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER

SECTION A. Table of Contents

SECTION A. Table of Contents

SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
033	NO. 4 POWER BOILER NAT GAS/#6 OIL/#2 OIL	205.300	MMBTU/HR	
		1,320.000	Gal/HR	#6 Oil
		210.000	MCF/HR	Natural Gas
		1,490.000	Gal/HR	#2 Oil
036	#3 POWER BOILER (COAL/BARK/SLUDGE/WOOD)	180.000	MMBTU/HR	
		3.960	Tons/HR	BITUMINOUS COAL
		4.250	Tons/HR	BARK WASTE
		2.220	Tons/HR	WWTP SLUDGE
			N/A	DIESEL/#2 OIL (STARTUP
			N/A	CARDBOARD (STARTUP)
038	#3 RECOVERY BOILER (BLACK LIQ.SOLIDS/#6 OIL)	217.000	MMBTU/HR	
		16.900	Tons/HR	BLACK LIQ SOLIDS (DRY)
		1,450.000	Gal/HR	#6 Oil
		217.000	MCF/HR	Natural Gas
001	JOHN ZINK THERMAL OXIDIZER	25.000	MCF/HR	Natural Gas
101A	BATCH DIGESTERS W/ INCINR			
103A	LIME KILN	40.000	MMBTU/HR	
		40.000	MCF/HR	Natural Gas
		270.000	Gal/HR	#6 Oil
107	STARCH UNLOADING SYSTEM			
108	NO. 3 SMELT TANK			
109	ROSENBLAD EVAPORATORS			
110	LIME STORAGE BINS			
110A	LIME SLAKER			
111	BROWN STOCK WASHERS			
112	KNOTTERS			
113A	DECKER			
114	PULP BLEACHING			
115	MANUFACTURE OF CHLORINE DIOXIDE			
116	WASTEWATER TREATMENT PLANT			
117	COATING PREP AREA			
118	NO. 1 PAPER MACHINE			
119	NO. 2 PAPER MACHINE			
120	NO. 3 PAPER MACHINE			
121A	LVHC/HVLC VENTING			
122	#2 PAPER MACH.IR & FLOTATION DRYER	16.700	MMBTU/HR	
		16.700	MCF/HR	Natural Gas
123	#3 PAPER MACH. AIR FLOT DRYER	5.000	MMBTU/HR	
		5.000	MCF/HR	Natural Gas
124	EMERGENCY GENERATOR	40.000	Gal/HR	Diesel Fuel
126	PULPING PROCESS CONDENSATES			

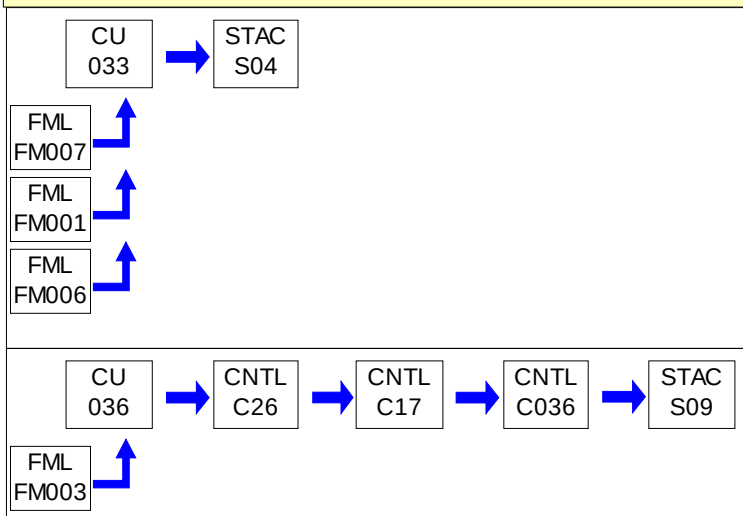
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
127	LVHC NCG SOURCES		
128	HVLC NCG SOURCES		
129	IMMERSION COLD CLEANING MACHINES		
130	REMOTE RESERVOIR COLD CLEANING MACHINES		
131	PM SOURCES CONTROLLED BY FABRIC FILTERS		
133	LIME KILN TURNING EMERGENCY ENGINE		
134	OUTDOOR AIR COMPRESSOR ENGINE		
201	FLY ASH HANDLING SYSTEM	1.500 Tons/HR	FLY ASH
C036	WET ELECTROSTATIC PRECIPITATOR		
C08	NEPTUNE AIR POL SCRUBBER		
C09	LIME HANDLING SYSTEM BAGHOUSE		
C10	DUCON, MODIFIED SCRUBB. FOR LIME SLAKER		
C131	FABRIC FILTERS		
C17	API VAR. VENTURI FOR #3 POWER BOILER		
C201	SOURCE 201 BIN VENT COLLECTOR		
C23	AIR POL VENT. SCRUB. FOR LIME KILN		
C26	BARRON IND. MULTICLONE FOR #3 POWER BOILER		
C27	DAY BIN VENT FILT. FOR STARCH UNLOADSYS.		
C28	3X2 FLAKT ELEC. PREC.-#3 RECOV. BOIL		
C33	CALDWELL-MACKAY SCRUBBER		
C34	A.H. LUNDBERG PACKED SCRUBBER		
C35	ERCO S10 SCRUBBER		
CD001	JOHN ZINK THERMAL OXIDIZER		
CDPB3	#3 POWER BOILER AS A CONTROL DEVICE		
WWT1	WASTEWATER TRTMT PLANT AS A CONTROL DEVICE		
FM001	NATURAL GAS LINE		
FM002	NO. 6 OIL TANKS FOR KILN & REC. BOILER		
FM003	COAL/SLUDGE/BARK/WOOD STOCKPILE		
FM006	LOW S #6 FUELOIL TANKS FOR #4 POW. BOIL		
FM007	# 2 OR EQUIV. FUEL OIL TANKS		
FM008	BLACK LIQUOR		
S03	JOHN ZINC THERMAL OXIDIZER STACK		
S04	NO. 4 POW BOIL. STACK		
S08	NO. 3 SMELT TANK STACK		
S09	#3 POW. BOILER STACK		
S10A	LIME SLAKER STACK		
S11	LIME STOR.BIN FILT. STACK		
S121A	LVHC/HVLC VENTING		
S124	EMERGENCY GEN. STACK		

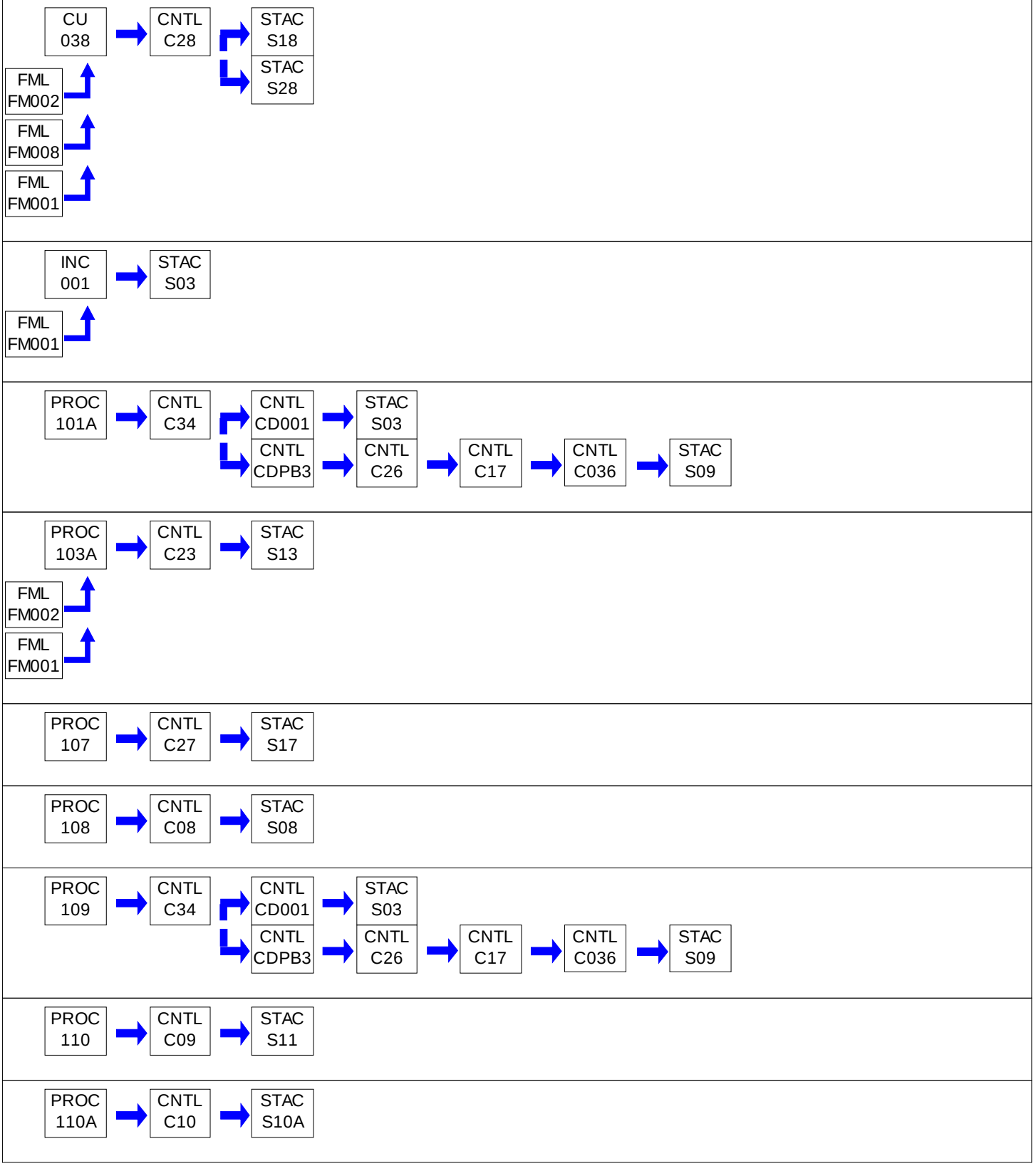
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S13	LIME KILN STACK		
S131	PM SOURCES STACK		
S133	LIME KILN TURNING EMERGENCY ENGINE STACK		
S134	OUTDOOR AIR COMPRESSOR STACK		
S17	STARCH UNLOAD. SYS. STACK		
S18	#3 RECOVERY BOIL. STACK		
S201	SOURCE C201 STACK		
S28	#3 RECOVERY BOILER STACK		
S33	SCRUBBER STACK		
S49	#2 PAPER MACH. AIR FLOTST		
S50	#2 PAP.MACH.IR STACK		
S51	#3 PM FLOT. DRYER EXHAUST		
Z116	FUG.EMISS. WASTEH20 TREAT		
Z117	COAT.PREP AREA FUG.EMISS.		
Z118	#1 PAPER MACH. FUG. EMISS		
Z119	#2 PAPER MACH. FUG. EMISS		
Z120	#3 PAPER MACH. FUG. EMISS		
Z129	SOURCE 129 FUGITIVE EMISSIONS		
Z130	SOURCE 130 FUGITIVE EMISSIONS		

PERMIT MAPS



PERMIT MAPS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STAC S03
CNTL CDPB3
CNTL C26
CNTL C17
CNTL C036
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PROC 108
CNTL C08
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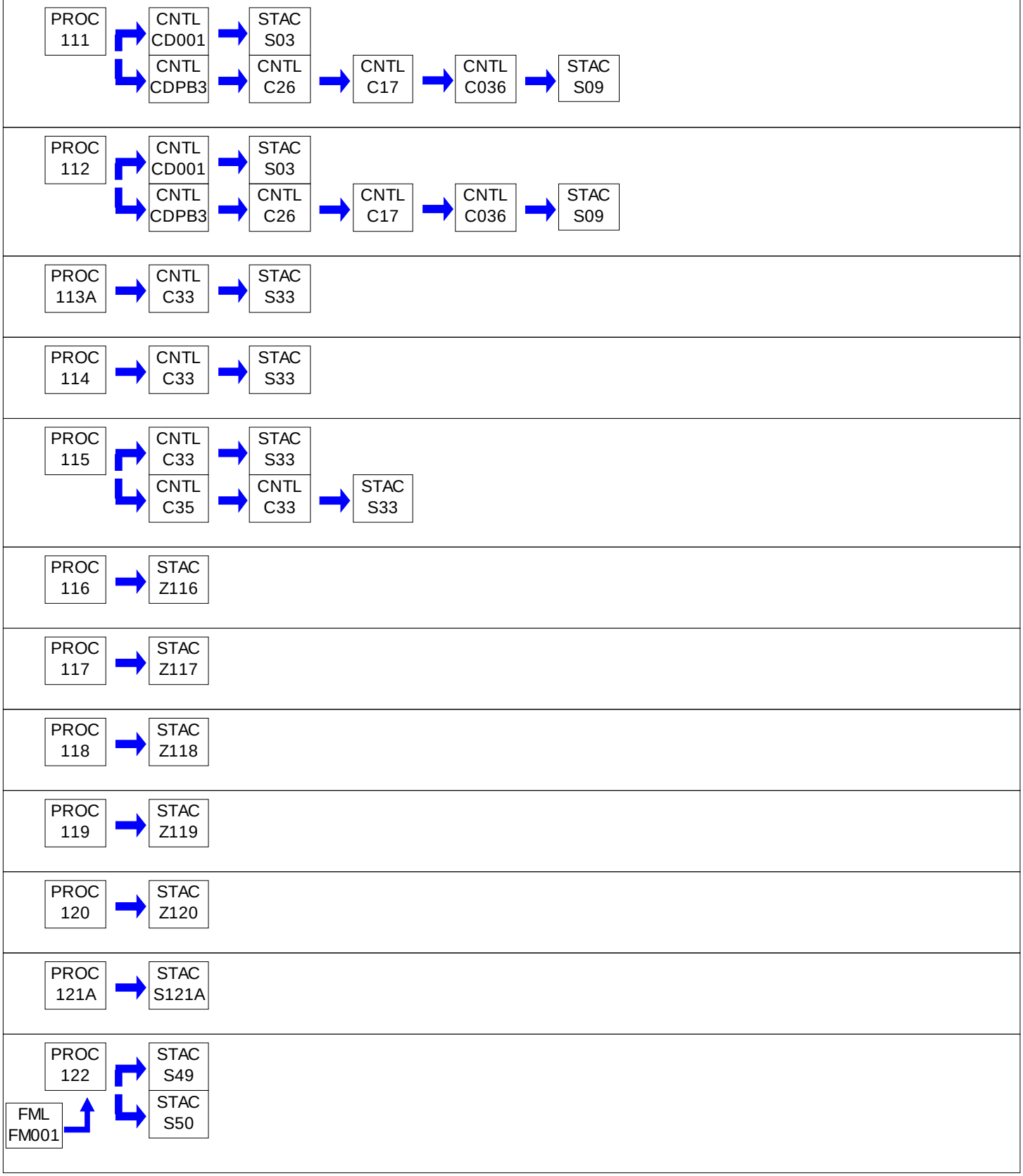
PERMIT MAPS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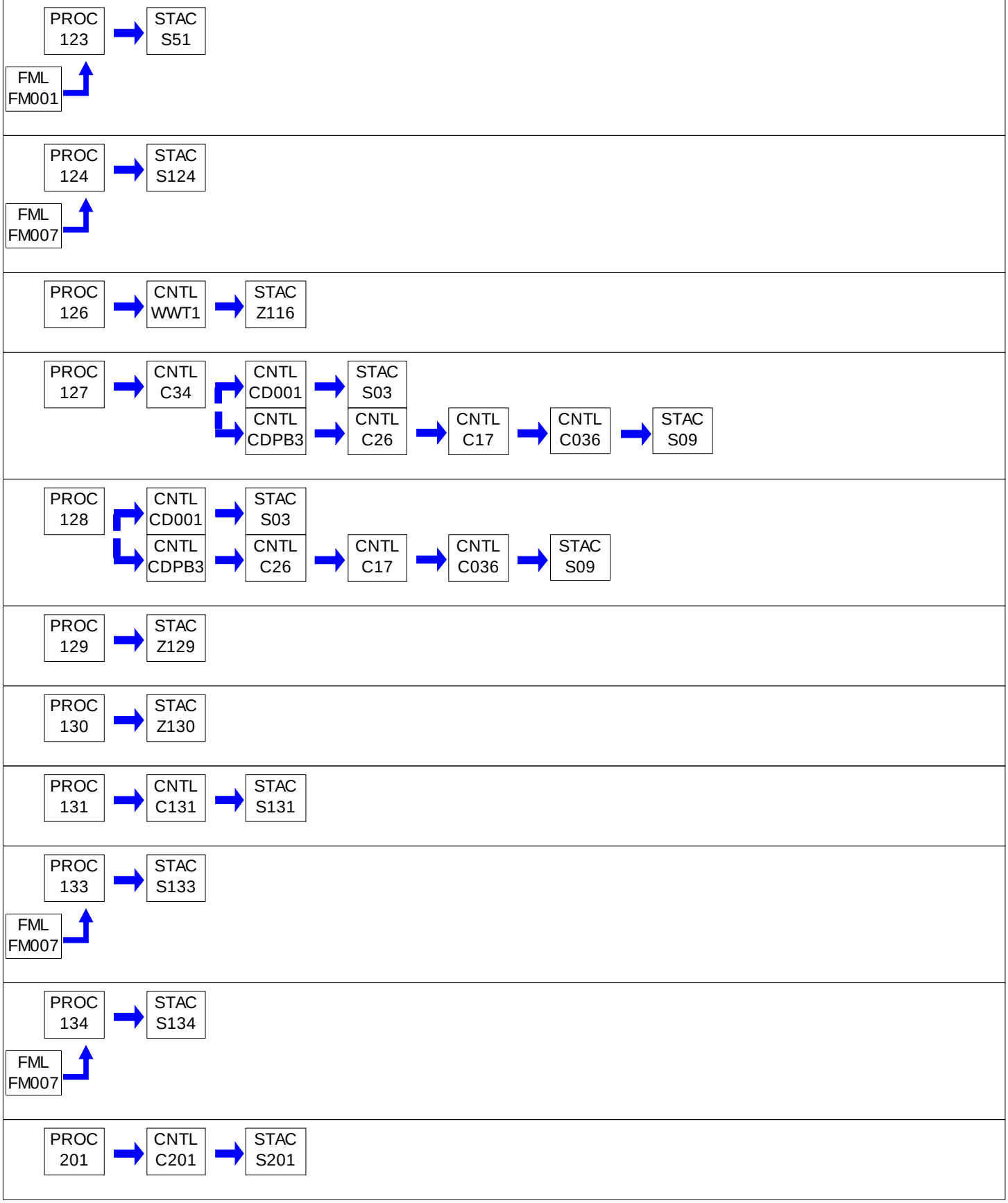
PERMIT MAPS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PROC 133
STAC S133
FML FM007
PROC 134
STAC S134
FML FM007
PROC 201
CNTL C201
STAC S201

SECTION B. General Title V Requirements

#001 [25 Pa. Code § 121.1]

Definitions

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]

Prohibition of Air Pollution

No person may permit air pollution as that term is defined in the act.

#003 [25 Pa. Code § 127.512(c)(4)]

Property Rights

This permit does not convey property rights of any sort, or any exclusive privileges.

#004 [25 Pa. Code § 127.446(a) and (c)]

Permit Expiration

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]

Permit Renewal

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

Transfer of Ownership or Operational Control

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

SECTION B. General Title V Requirements

the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#007 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

Inspection and Entry

(a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:

(1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#008 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]

Compliance Requirements

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit.

#009 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

SECTION B. General Title V Requirements

#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

(a) The permittee shall furnish to the Department, within a reasonable time, 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.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#012 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#013 [25 Pa. Code § 127.522(a)]

Operating Permit Application Review by the EPA

The applicant may be required by the Department to provide a copy of the permit application, including the compliance plan, directly to the Administrator of the EPA. Copies of title V permit applications to EPA, pursuant to 25 PA Code §127.522(a), shall be submitted, if required, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

SECTION B. General Title V Requirements

#014 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#015 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications). Notifications to EPA, pursuant to 25 PA Code §127.462(c), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#016 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a). Copies of request for administrative permit amendment to EPA, pursuant to 25 PA Code §127.450(c)(1), if required, shall be submitted to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

(b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

#017 [25 Pa. Code § 127.512(b)]

Severability Clause

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction, or US EPA to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]

Fee Payment

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees). The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

SECTION B. General Title V Requirements

(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

(e) The permittee shall pay an annual operating permit maintenance fee according to the following fee schedule established in 25 Pa. Code § 127.704(d) on or before December 31 of each year for the next calendar year.

(1) Eight thousand dollars ($8,000) for calendar years 2021—2025.

(2) Ten thousand dollars ($10,000) for calendar years 2026—2030.

(3) Twelve thousand five hundred dollars ($12,500) for the calendar years beginning with 2031.

#019 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NOx from a single source during the term of the permit and 5 tons of NOx at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM10 from a single source during the term of the permit and 3.0 tons of PM10 at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

SECTION B. General Title V Requirements

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#020 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#021 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the

SECTION B. General Title V Requirements

phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#022 [25 Pa. Code §§ 127.402(d) & 127.513(1)]

Submissions

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the permit transmittal letter, or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch
Air Section
1650 Arch Street, 3ED21
Philadelphia, PA 19103

The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#023 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]

Sampling, Testing and Monitoring Procedures

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#024 [25 Pa. Code § 127.513]

Compliance Certification

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:

(1) The identification of each term or condition of the permit that is the basis of the certification.
(2) The compliance status.
(3) The methods used for determining the compliance status of the source, currently and over the reporting period.
(4) Whether compliance was continuous or intermittent.

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of

SECTION B. General Title V Requirements

the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

#025 [25 Pa. Code §§ 127.511 & Chapter 135]

Recordkeeping Requirements

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:

(1) The date, place (as defined in the permit) and time of sampling or measurements.

(2) The dates the analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#026 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

Reporting Requirements

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

SECTION B. General Title V Requirements

#027 [25 Pa. Code § 127.3]

Operational Flexibility

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

(6) Section 127.462 (relating to minor operating permit amendments)

(7) Subchapter H (relating to general plan approvals and operating permits)

#028 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

(i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
(ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

SECTION B. General Title V Requirements

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#030 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]

Permit Shield

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

#031 [25 Pa. Code §135.3]

Reporting

(a) The permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#032 [25 Pa. Code §135.4]

Report Format

Emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

No person shall permit the emission into the outdoor atmosphere of any fugitive air contaminant from a source other than the following:

(a) Construction or demolition of buildings or structures.

(b) Grading, paving and maintenance of roads and streets.

(c) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.

(d) Clearing of land.

(e) Stockpiling of materials.

(f) Open burning operations.

(g) Sources and classes of sources other than those identified above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code §123.1 (b), that fugitive emissions from the source, after appropriate control, meet the following requirements:

(1) The emissions are of minor significance with respect to causing air pollution.

(2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air standard.

 # 002 [25 Pa. Code §123.2]

Fugitive particulate matter

No person shall emit fugitive particulate matter into the outdoor atmosphere from a source specified in Condition #001 if the emissions are visible at the point the emissions pass outside the person's property.

 # 003 [25 Pa. Code §123.31]

Limitations

No person shall permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

 # 004 [25 Pa. Code §123.41]

Limitations

No person shall permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

(a) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.

(b) Equal to or greater than 60% at any time.

 # 005 [25 Pa. Code §123.42]

Exceptions

The emission limitation of 25 Pa. Code §123.41 shall not apply when:

(a) The presence of uncombined water is the only reason for failure of the emission to meet the limitation.

(b) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

(c) The emission results from sources specified in Section C, Condition #001.

SECTION C. Site Level Requirements

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Operation of any air emissions source is contingent upon proper operation of its associated emissions control system, unless otherwise approved by the Department.

 # 007 [25 Pa. Code §127.444]

Compliance requirements.

All air pollution sources and air pollution control devices shall be operated and maintained in accordance with good air pollution control practices and in accordance with manufacturer's recommendations that minimize the emission of air pollutants.

 # 008 [25 Pa. Code §129.14]

Open burning operations

(a) No person shall conduct open burning of materials in such a manner that:

(1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.

(2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.

(3) The emissions interfere with the reasonable enjoyment of life and property.

(4) The emissions cause damage to vegetation or property.

(5) The emissions are or may be deleterious to human or animal health.

(b) Exceptions. The requirements of Subsection (a) do not apply where the open burning operations result from:

(1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public official.

(2) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.

(3) A fire set for the prevention and control of disease or pests, when approved by the Department.

(4) A fire set solely for recreational or ceremonial purposes.

(5) A fire set solely for cooking food.

(c) This permit does not constitute authorization to burn solid waste pursuant to section 610(3) of the Solid Waste Management Act. 35 PS Section 6018.610(3) or any other provision of the Solid Waste Management Act.

II. TESTING REQUIREMENTS.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) For any required stack testing, the permittee shall conduct source tests on the sources consistent with the applicable Testing Requirements of 40 CFR Part 60 and 63 Subparts and the Departments Source Testing Manual.

(b) Pursuant to 25 PA Code §139.3, at least 45 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(c) Pursuant to 25 PA Code §139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol

SECTION C. Site Level Requirements

acceptance letter from the Department.

(d) Pursuant to 25 Pa. Code §139.53(a)(3), within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.

(e) Pursuant to 40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 Part 63.7(g) a complete test report shall be submitted tothe Department no later than 60 days after completion of the on-site testing portion of an emission test program. For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test.

(f) Pursuant to 25 Pa. Code §139.53(b), a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

(1) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.

(2) Permit number(s) and condition(s) which are the basis for the evaluation.

(3) Summary of results with respect to each applicable permit condition.

(4) Statement of compliance or non-compliance with each applicable permit condition.

(g) Pursuant to 25 Pa. Code §139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(h) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(i) Pursuant to 25 Pa. Code Sections 139.53(a)(1) and 139.53(a)(3), all submittals, besides notifications, shall be accomplished through PSIMS*Online available through https://www.depgreenport.state.pa.us/ecomm/Login.jsp when it becomes available. If internet submittal cannot be accomplished, two copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks. In a like manner, one copy of the submittal shall be sent to the appropriate Regional Office.

(j) The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to require exhaust stack testing of the sources referenced in this permit as necessary during the permit term to verify emissions for purposes including emission fees, malfunctions or permit condition violations.

III. MONITORING REQUIREMENTS.

 # 011 [25 Pa. Code §123.43]

Measuring techniques

Visible air contaminants may be measured using either of the following:

1) A device approved by the Department and maintained to provide accurate opacity measurements.

SECTION C. Site Level Requirements

2) Observers, trained and certified, to measure plume opacity with the naked eye or with the aid of devices approved by the Department.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct a daily inspection around the accessible plant periphery during daylight hours when the plant is in production to detect visible emissions, fugitive visible emissions and malodors as follows:

(a) Visible emissions in excess of the limits stated in Section C, Condition #004. Visible emissions may be measured according to the methods specified in Section C, Condition #011, or alternately, plant personnel who observe such emissions may report the incidence of visible emissions to the Department within two hours of each incident and make arrangements for a certified observer to verify the visible emissions.

(b) The presence of fugitive visible emissions beyond the plant property boundaries, as stated in Section C, Condition #002.

(c) The presence of malodorous air contaminants beyond the plant property boundaries as stated in Section C, Condition #003.

 # 013 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor and record the pressure drop across each scrubber, fabric filter, or other particulate matter control device, water flow, or scrubbing liquid supply pressure to each scrubber. At a minimum, these readings shall be taken once per week while the sources and control devices are in operation. These records shall be maintained on-site for the most recent five-year period and made available to Department representatives upon request.

IV. RECORDKEEPING REQUIREMENTS.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain a logbook and record, on a daily basis, instances of malodorous air emissions, fugitive visible emissions and instances of visible emissions, the name of the facility representative monitoring each instance, the date and time of each occurrence, and the wind direction during each instance.

 # 015 [25 Pa. Code §135.5]

Recordkeeping

The permittee shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with 25 PA Code 135.3 and 135.21 (relating to reporting and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

V. REPORTING REQUIREMENTS.

 # 016 [25 Pa. Code §127.442]

Reporting requirements.

(a) The owner or operator shall report each malfunction to the Department that occurs at this Title V facility. For purposes of this condition, a malfunction is defined as any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner that may result in an increase in air emissions above minor significance.

(b) When the malfunction poses an imminent and substantial danger to the public health and safety or harm to the environment, the notification shall be submitted to the Department no later than two hours after the incident is detected by the company.

(1) The notice shall describe the:

SECTION C. Site Level Requirements

(i) name and location of the facility;

(ii) nature and cause of the malfunction or breakdown;

(iii) time when the malfunction or breakdown was first observed;

(iv) expected duration of excess emissions;

(v) estimated rate of emissions.

(2) The owner or operator shall notify the Department immediately when corrective measures have been accomplished.

(3) Subsequent to the malfunction, the owner or operator shall submit a written report of the malfunction to the Department within three (3) days of the telephone report.

(c) Unless otherwise required by this permit, any other malfunction that is not subject to the reporting requirements of (b), above, shall be reported to the Department, in writing, within (5) business days of discovery of the malfunction.

(d) Malfunctions shall be reported to the Department in writing via US mail at the address provided below or by email (addresses will be provided by the Department).

PADEP
Altoona District Office
3001 Fairway Drive
Altoona, PA 16602

Telephone reports can be made to the Air Quality Program at (814) 946-7294 during normal business hours, or to the Department's Emergency Hotline at any time. The Emergency Hotline phone number is changed/updated periodically. The current Emergency Hotline phone number can be found at https://www.dep.pa.gov/About/Regional/SouthcentralRegion/Pages/default.aspx.

 # 017 [25 Pa. Code §135.21]

Emission statements

(a) Except as provided in subsection (d), this section applies to stationary sources or facilities:

(1) Located in an area designated by the Clean Air Act as a marginal, moderate, serious, severe or extreme ozone nonattainment area and which emit oxides of nitrogen or VOC.

(2) Not located in an area described in subparagraph (1) and included in the Northeast Ozone Transport Region which emit or have the potential to emit 100 tons or more oxides of nitrogen or 50 tons or more of VOC per year.

(b) The owner or operator of each stationary source emitting oxides of nitrogen or VOC's shall provide the Department with a statement, in a form as the Department may prescribe, for classes or categories of sources, showing the actual emissions of oxides of nitrogen and VOCs from that source for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based. The statement shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

(c) Annual emission statements are due by March 1 for the preceding calendar year beginning with March 1, 1993, for calendar year 1992 and shall provide data consistent with requirements and guidance developed by the EPA. The guidance document is available from: United States Environmental Protection Agency, 401 M. Street, S.W., Washington, D.C. 20460. The Department may require more frequent submittals if the Department determines that one or more of the following applies:

(1) A more frequent submission is required by the EPA.

(2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the act.

SECTION C. Site Level Requirements

(d) [N/A - THE FACILITY DOES NOT EMIT LESS THAN 25 TPY OF VOC OR NOX]

 # 018 [25 Pa. Code §135.3]

Reporting

(a) The permittee shall submit by March 1 of each year a source report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.

(b) The source owner or operator may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

 # 019 [25 Pa. Code §135.4]

Report format

All source reports shall contain sufficient information to enable the Department to complete its emission inventory. Source reports shall be made by the source owner or operator in a format specified by the Department.

VI. WORK PRACTICE REQUIREMENTS.

 # 020 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from the sources identified in Section C, Condition #001(a) through (e) from becoming airborne. These actions shall include, but are not limited to, the following:

(a) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

(b) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which create airborne dusts.

(c) Paving and maintenance of roadways.

(d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

VII. ADDITIONAL REQUIREMENTS.

 # 021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Per Site Level Category VIII COMPLIANCE CERTIFICATION below, forward EPA the annual compliance certification report electronically, in lieu of a hard copy version, to the email address: 'R3_APD_Permits@epa.gov'.

 # 022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The facility is subject to several 40 CFR Part 60 and Part 63 Subparts and shall comply with all applicable requirements of the Subparts. Including all applicable portions of 40 CFR Part 60 and Part 63 Subpart A - General Provisions. 40 CFR Part 60, Section 60.4 and 40 CFR Part 63, Section 63.13(a) requires submission of copies of all requests, reports and other communications to both the Department and the EPA.

The EPA copies shall be forwarded to:

Director
Air Protection Division (3AP00)
U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

SECTION C. Site Level Requirements

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

In the event that any Subpart is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

 # 023 [25 Pa. Code §127.512]

Operating permit terms and conditions.

This permit condition constitutes a compliance schedule:

(a) The permittee shall comply with the requirements of 25 Pa. Code §§129.96-129.100 as they apply to the facility's operations.

(b) The permittee shall comply with the facility's case-by-case RACT II proposal submitted on 10/24/16 until such time as the Department either approves or disapproves that proposal.

(c) Nothing in this permit shall be construed to imply that the Department will, or will not, approve the facility's case-by-case RACT II proposal as proposed by the facility.

(d) In the event that the Department requests additional technical information regarding the facility's case-by-case RACT II proposal, the permittee shall provide this information within the time frame requested by the Department.

(e) The facility shall demonstrate compliance for applicable RACT II sources according to the methods and schedule to be determined by the Department.

VIII. COMPLIANCE CERTIFICATION.

The permittee shall submit within thirty days of 01/01/2016 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #026 of section B of this permit, and annually thereafter.

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

***** Permit Shield In Effect *****

SECTION D. Source Level Requirements

Source ID: 033 Source Name: NO. 4 POWER BOILER NAT GAS/#6 OIL/#2 OIL

Source Capacity/Throughput:			
	205.300	MMBTU/HR	
	1,320.000	Gal/HR	#6 Oil
	210.000	MCF/HR	Natural Gas
	1,490.000	Gal/HR	#2 Oil

Conditions for this source occur in the following groups: 002
004
005
010

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

During any consecutive 12-month period, pollutant emissions from the operation of the Power Boiler No. 4 shall be less than the following:

Pollutant	Consecutive 12-month Total (Tons)
NOx	46.81
SO2	91.09
PM	38.33
PM10	26.52
VOC	40.06
CO	107.82

[Additional authority for this permit condition is derived from OP No. 07-302-031.]

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pollutant emission rates from the No. 4 Power Boiler shall not exceed the following emission limits shown in lbs/mm BTU heat input:

VOC	0.0019
CO	0.2

[Additional authority for this permit condition is derived from OP No. 07-302-031.]

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Power Boiler No. 4 shall not emit SO2 in excess of 0.5 lbs/mm BTU of heat input.

SECTION D. Source Level Requirements

[Additional authority for this permit condition is derived from OP No. 07-302-031.]

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Power Boiler No. 4 shall not emit particulate matter (PM10 & PM) in excess of 0.10 lbs/mm BTU of heat input.

[Additional authority for this permit condition is derived from OP No. 07-302-031.]

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

NOx emissions from the Power Boiler No. 4 shall not exceed the following emission limits:

(a) 0.05 lbs/mm BTU of heat input while firing natural gas.

(b) 0.10 lbs/mm BTU of heat input while firing No. 2 fuel oil.

(c) 0.35 lbs/mm BTU of heat input while firing No. 6 fuel oil.

(d) While firing No. 2 or No. 6 fuel oil in combination with natural gas the NOx emission limits shall be determined by use of the formula described in 40 CFR § 60.44b(b).

[Additional authority for this permit condition is derived from OP No. 07-302-031.]

Fuel Restriction(s).

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The sulfur content of the No. 2 and No. 6 fuel oil in Power Boiler No. 4 shall be equal to or less than 0.5 percent by weight.

[Additional authority for this permit condition is derived from OP No. 07-302-031. Additionally, compliance with condition #006 specified in this streamlined permit condition is related to compliance with the provisions of 25 Pa. Code §123.22(a)(2) and 40 CFR 60.42 b(j)(1). 40 CFR 60.47b(f).]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

SECTION D. Source Level Requirements

The permittee shall submit quarterly reports containing, but not limited to, the following data to the Southcentral Regional Air Quality Program Manager:

(a) Individual monthly tallies of the No. 2 and No. 6 fuel oil consumption, in gallons, for Power Boiler No. 4.

(b) Individual monthly tallies of the natural gas consumption, in cubic feet, for Power Boiler No. 4.

(c) Based on the above information, the permittee shall calculate monthly NOx, SO2, PM, PM10, VOC, and CO emissions for the No. 4 Power Boiler. The calculations shall be contained in the quarterly report.

(d) Each report is due no later than 30 days after the end of each quarterly reporting period.

[Additional authority for this permit condition is derived from OP No. 07-302-031.]

 # 008 [25 Pa. Code §127.512]

Operating permit terms and conditions.

(a) Beginning with the first quarter of calendar year 2017, the permittee shall submit quarterly Source ID 033 NOx RACT CEMS paper reports to the Regional Air Program Manager at the following address:

PA DEP
Southcentral Regional Office
Air Quality Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

The permittee shall also submit a copy of each quarterly Source ID 033 NOx RACT CEMS report described in this operating permit condition along with the quarterly CEMS reports described in Section E (Group 004), Condition #004. Paper submissions to the Southcentral Regional Office may cease once electronic submissions commence.

(b) The permittee's demonstration of compliance with the NOx emissions limit of Section E (Group 005), Condition #001(g) [25 Pa. Code §129.97(g)], shall be included in each quarterly Source ID 033 NOx RACT CEMS report.

(c) The quarterly Source ID 033 NOx RACT CEMS reports shall be submitted according to the following schedule:

(1) The quarterly report for the period of January 1 - March 31 is due no later than April 30.

(2) The quarterly report for the period of April 1 - June 30 is due no later than July 30.

(3) The quarterly report for the period of July 1 - September 30 is due no later than October 30.

(4) The quarterly report for the period of October 1 - December 31 is due no later than January 30.

(d) The permittee may request, in writing, an extension of time from the Department for the filing of a quarterly Source ID 033 NOx RACT CEMS report specified in part (a), above, and the Department may grant, in writing, the extension for reasonable cause.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Source 033 boiler is currently subject to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous

SECTION D. Source Level Requirements

Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (MACT Subpart DDDDD).

Pursuant to the definition of "unit designed to burn gas 1 subcategory" contained in 40 CFR §63.7575: "Unit designed to burn gas 1 subcategory includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels. Gaseous fuel boilers and process heaters that burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, are included in this definition. Gaseous fuel boilers and process heaters that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition."

In order to maintain this subcategory definition, the permittee must keep keep records verify that the operation of the Source 033 boiler meets the definition of "unit designed to burn gas 1" above (or as otherwise defined in MACT Subpart DDDDD), during each calendar year. These records shall include the No. 2 and No. 6 fuel oil period testing operating hours, of the Source 033 boiler during each calendary year. These records shall also include the No. 2 and No. 6 fuel oil operating hours during periods of gas curtailment and gas supply interruption with justification for each such period. The permittee shall maintain these records for a minimum of five (5) years and the records shall be made available to the Department upon its request.

If at any time any the Source 033 boiler fails to meet the definition of "unit designed to burn gas 1" above (or as otherwise defined in MACT Subpart DDDDD), the boiler shall become subject to MACT Subpart DDDDD subcategory, "unit designed to burn liquid fuels", and all applicable requirements therein. The permittee shall at that time notify the Department of the change in status of the boiler.

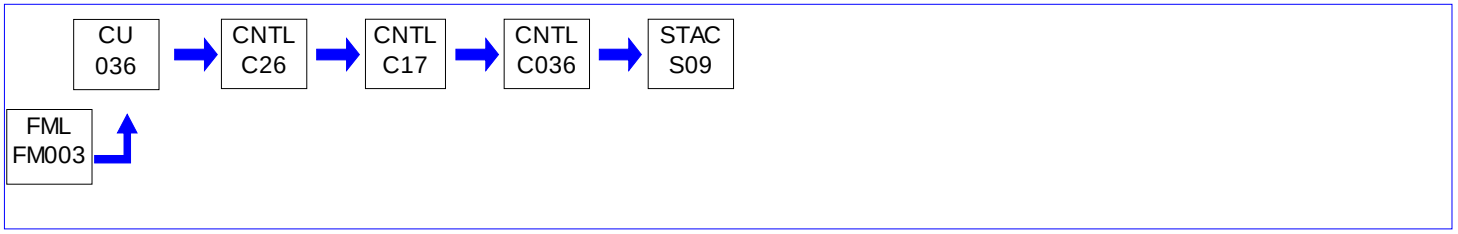
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 036 Source Name: #3 POWER BOILER (COAL/BARK/SLUDGE/WOOD)

Source Capacity/Throughput:		
180.000	MMBTU/HR	
3.960	Tons/HR	BITUMINOUS COAL
4.250	Tons/HR	BARK WASTE
2.220	Tons/HR	WWTP SLUDGE
	N/A	DIESEL/#2 OIL (STARTUP)
	N/A	CARDBOARD (STARTUP)

Conditions for this source occur in the following groups: 003
005
009



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.11]

Combustion units

The permittee shall not permit the emission into the outdoor atmosphere of particulate matter from the No. 3 Power Boiler in excess of the following:

(a) The rate of 0.4 lbs/mm Btu of heat input, when the heat input to the No. 3 Power Boiler in millions of Btu's per hour is greater than 2.5 but less than 50.

(b) The rate determined by the following formula:

A = 3.6E^-0.56, where:

A = Allowable emissions in lbs/mm Btu's of heat input, and
E = Heat input to the combustion unit in millions of Btu's per hour,

when E is equal to or greater than 50 but less than 600.

 # 002 [25 Pa. Code §123.22]

Combustion units

The No. 3 Power Boiler shall not emit into the outdoor atmosphere of sulfur oxides, expressed as SO2, from the above source in excess of 4.0 pounds per million BTU of heat input over any 1-hour period.

[Compliance with this streamlined permit condition assures compliance with 40 CFR §52.2020(c)(1)]

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Operating Permit No. 07-02001]

The No. 3 Power Boiler shall not emit NOx in excess of 0.63 lb/mmBTU of heat input.

SECTION D. Source Level Requirements

Fuel Restriction(s).

 # 004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

(a) The permittee shall operate the Source ID 036 boiler using the following fuels: bituminous coal, bark waste or wastewater treatment plant (WWTP) sludge.

(b) The permittee may operate the Source ID 036 boiler using cardboard or diesel/No. 2 fuel oil only during periods of startup, as defined in part (c), below.

(c) Startup means:

(1) Either the first-ever firing of fuel in the boiler for the purpose of supplying useful thermal energy for heating and/or producing electricity, or for any other purpose, or the firing of fuel in the boiler after a shutdown event for any purpose. Startup ends when any of the useful thermal energy from the boiler is supplied for heating, and/or producing electricity, or for any other purpose, or

(2) The period in which operation of the boiler is initiated for any purpose. Startup begins with either the first-ever firing of fuel in the boiler for the purpose of supplying useful thermal energy (such as steam or heat) for heating, cooling or process purposes, or producing electricity, or the firing of fuel in the boiler for any purpose after a shutdown event. Startup ends four (4) hours after when the boiler supplies useful thermal energy (such as heat or steam) for heating, cooling, or process purposes, or generates electricity, whichever is earlier.

[Compliance with the requirement(s) specified in part (b) of this streamlined permit condition assures compliance with 40 CFR §63.7500(f)]

 # 005 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

(a) The Source ID 036 boiler shall not combust either cardboard or diesel/No. 2 fuel oil in an amount equal to or greater than 1% of its annual (i.e., calendar year) fuel consumption on a heat input basis in order to maintain the exemption provided in 25 Pa. Code §129.97(g)(4)(ii).

(b) The permittee shall keep records to demonstrate compliance with part (a), above, pursuant to 25 Pa. Code §129.100(d).

(c) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for part (a) of this permit condition is also derived from Operating Permit No. 07-02001]

The permittee shall:

(a) Annually, between May 1 and October 31, unless otherwise approved in writing by the Department, perform a stack test on this source to collect emissions data to verify NOx emissions from this source. The test shall be conducted pursuant to 25 Pa. Code Chapter 139, Subchapter A, and the Department's Source Testing Manual. Compliance with this provision ensures compliance with 25 Pa. Code §129.100(a)(4) for NOx.

(b) Unless otherwise approved in writing by the Department, perform a stack test on this source to collect emission data to verify particulate matter (PM) emissions from this source, within 180 days from the effective date of this permit. During the performance test the following data will be monitored:

(1) Fuel being fired (boiler)

SECTION D. Source Level Requirements

(2) Steam flow (boiler)
(3) Water flow rate (scrubber)
(4) Pressure drop (scrubber)

[NOTE: THE PM STACK TEST REFERENCED IN PART (b), ABOVE, WAS CONDUCTED ON 10/15/2007 WITHIN THE REQUIRED 180 DAYS FROM THE EFFECTIVE DATE OF THE 2007 TITLE V PERMIT RENEWAL AND PRESENTLY NEED NOT BE REPEATED.]

III. MONITORING REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64]

Parts (a) through (d) are CAM-related requirements

(a) The permittee shall use the following process parameter(s) or indicator(s) to obtain data and monitor the emission control equipment performance.

1. Venturi scrubber differential pressure
2. Venturi scrubber recirculation flow

(b) The permittee shall use the following mean(s) or device(s) to measure the applicable indicator(s).

1. Venturi scrubber differential pressure gauge
2. Venturi scrubber recirculation flow meter

(c) The permittee shall use the following frequency for conducting monitoring of indicator(s), except during monitoring malfunctions, associated repairs, and required quality assurance or control activities as per 40 CFR §64.7(c) and subject to Condition #013(f), below.

1. Venturi scrubber differential pressure - continuously (at least once every 15-minute block period)
2. Venturi scrubber flow meter - continuously (at least once every 15-minute block period)

(d) The permittee shall use the following periods over which discrete data points for approved indicator(s) will be collected and averaged for the purpose of determining an excursion.

1. Venturi scrubber differential pressure - recorded continuously (at least once every 15-minute block period). The permittee shall average the pressure differential readings into a 3-hour block period for the purpose of determining an excursion.
2. Venturi scrubber flow rate - recorded continuously (at least once every 15-minute block period). The permittee shall average the flow rate into a 3-hour block period for the purpose of determining an excursion.

IV. RECORDKEEPING REQUIREMENTS.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64]

(a) The permittee shall maintain records of the following information:

(1) Required readings of the scrubber differential pressure and the 3 hour averages.
(2) Required readings of the scrubber recirculation flow and the 3 hour averages.
(3) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.
(4) The permittee shall record all inspections, repairs and maintenance performed on the multi-clone and scrubber.

SECTION D. Source Level Requirements

(5) The permittee shall maintain records of all monitoring equipment down time incidents (other than down time associated with accuracy checks or calibration checks). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

(b) The permittee shall keep all records for a period of five (5) years and make the records available to the Department upon request.

 # 009 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

(a) The permittee shall maintain detailed records of all maintenance performed on the Source ID 036 boiler's venturi wet scrubber and wet electrostatic precipitator.

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

 # 010 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the operating parameters referenced in Condition #006(b), above, on a daily basis. These records shall be maintained on site for five (5) years and be available to the Department upon request.

V. REPORTING REQUIREMENTS.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64]

(a) The permittee shall report all excursions and corrective actions taken, the dates, times, duration and possible causes, every six (6) months.

(b) The permittee shall report all monitoring equipment down time incidents (other than down time associated with accuracy checks or calibration checks), their dates, times and durations, possible causes and corrective actions taken, every six (6) months.

(c) The permittee shall report the total source operating time every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval 07-05001E]

While using the No. 3 Power Boiler to control HAP emissions from the Kraft pulping equipment (HVLC and LVHC system) processes, the permittee shall operate the No. 3 Power Boiler at a minimum steam production rate of 25,500 pounds per hour except as provided in Section D, Condition #005 for Source 109 and when burned in the John Zink thermal oxidizer (CD 001) at 1,600°F for 0.75 second according to Section E (Group 009), Condition #001.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64]

(a) Adherence to the following ranges for the selected indicator(s) shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion except during startup, shutdown or malfunction events. For the purposes of this condition, and subject to Condition #013(f), below, failure to perform the pressure differential monitoring or flowrate monitoring, other that downtime associated with accuracy checks or calibration checks, shall also be defined as an excursion.

SECTION D. Source Level Requirements

(1) The venturi scrubber's minimum differential pressure is 15.7 inches w.c. or as determined by the most recent approved CAM emissions testing;
(2) The venturi scrubber's minimum recirculation flowrate is 757 gpm or as determined by the most recent approved CAM emissions testing

(b) The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the control devices.

(c) The permittee shall operate and maintain the gauges to measure the venturi scrubber's pressure differential and flowrate.

(d) The venturi scrubber's pressure gauge and flow meter shall be calibrated, maintained, and operated using procedures that take into account manufacturer's specifications.

(e) Quarterly, instrumentation personnel shall check the venturi scrubber's differential pressure indicator and recirculation flow meter. Annually, the multiclone and venturi scrubber shall be inspected, and the tangential and bull nozzles on the venturi section of the scrubber shall be inspected and repaired or replaced if needed.

(f) The permittee shall ensure that valid data is collected for at least 90% of the source operating time.

 # 014 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

The permittee shall operate the Source ID 036 boiler's venturi wet scrubber and wet electrostatic precipitator at all times that the Source ID 036 boiler is operating, except during periods of startup and shutdown pursuant to Section E (Group 003), Condition #008(f) [i.e., 40 CFR §63.7500(f), and Nos. (5) and (6) of Table 3 to MACT Subpart DDDDD].

 # 015 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

The Source ID 036 boiler's venturi wet scrubber and wet electrostatic precipitator shall be:

(a) Operated and maintained in a manner consistent with good operating and maintenance practices; and

(b) Operated and maintained in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64]

(a) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as possible if any of the following occurs:

(1) For properly and accurately collected data, the accumulated time (i.e. hours) of all excursions for any given parameter exceeds 5% of the total source operating time for a semi-annual period.

(2) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

(b) The QIP should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

SECTION D. Source Level Requirements

(c) The permittee shall record actions taken to implement the QIP during a reporting period and all related actions including, but not limited to, inspections, repairs, and maintenance performed on the monitoring equipment.

(d) The QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

(1) Improved preventive maintenance practices.
(2) Process operation changes.
(3) Appropriate improvements to control methods.
(4) Other steps appropriate to correct performance.

(e) Following implementation of a QIP the Department shall require reasonable revisions to the QIP if the plan has failed to either:

(1) Address the cause of the control device performance problem.
(2) Provide adequate procedures for correcting control device performance problems as expeditiously as possible in accordance with good air pollution control practices for minimizing emissions.

(f) Implementation of a QIP shall not exempt the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirement under the Clean Air Act.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 038 Source Name: #3 RECOVERY BOILER (BLACK LIQ.SOLIDS/#6 OIL)

Source Capacity/Throughput:	217.000	MMBTU/HR	
	16.900	Tons/HR	BLACK LIQ SOLIDS (DRY)
	1,450.000	Gal/HR	#6 Oil
	217.000	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: 004
006
011

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.21]

General

Pursuant to 25 Pa. Code §123.21(b), the concentration of sulfur oxides, expressed as sulfur dioxide (SO2), in Source ID 038's effluent gas shall not exceed 500 parts per million, by volume (dry basis).

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The No. 3 Recovery Boiler shall meet the following emissions rates at all times to meet Subpart BB requirements:

(a) The No. 3 Recovery Boiler shall meet the following emissions rates at all times to meet Subpart BB requirements:

(1) Particulate matter (PM) emissions shall not exceed 0.044 gr/dscf corrected to 8% O2 as specified in 40 CFR §60.282.

(2) TRS emissions shall not exceed 5 ppmv (at 8% O2, dry basis) on a 12-hour average as specified in 40 CFR §60.283.

(3) Visible air contaminants shall not equal or exceed 20% opacity for more than 3 minutes in any one hour period and shall not exceed 35% opacity for any 6-minute average as determined by a certified observer or as measured by a certified continuous emissions monitor.

(b) Pursuant to 25 Pa. Code §123.13(c)(1)(i), PM emissions from the No. 3 Recovery Boiler's exhaust shall not exceed 0.04 grain per dry standard cubic foot.

[Additional authority for this permit condition is derived from O.P. No. 07-02001. Compliance with part (a) of this streamlined permit condition assures compliance with the provisions in 25 Pa. Code §129.17(a) and 40 CFR §60.282 (a)(1)(ii).]

SECTION D. Source Level Requirements

Throughput Restriction(s).

 # 003 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The permittee, when firing this source with No. 6 fuel oil, shall utilize commercially available No. 6 fuel oil. The sulfur content of the #6 fuel oil shall be equal to or less than 1.0 % by weight.

[Additional authority for this permit condition is derived from Plan Approval No. 07-315-003A, issued on October 28, 1999.]

 # 004 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The amount of natural gas to be combusted in the No. 3 Recovery Boiler shall not exceed 4.25 million SCF during any consecutive 12-month period.

[Additional authority for this permit condition is derived from Plan Approval No. 07-315-003A, issued on October 28, 1999.]

 # 005 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The amount of #6 fuel oil fired in the No. 3 Recovery Boiler shall not exceed 400,000 gallons per any consecutive 12-month period.

[Authority for this permit condition is derived from Plan Approval No. 07-315-003A, issued on October 28, 1999.]

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The permittee shall perform a stack test on this source to collect emission data to verify particulate matter emissions from this source, within 180 days from the effective date of this permit. During the performance test the following data will be monitored:

(1) Steam Flow range (boiler)
(2) Primary Voltage, AC volts (ESP)
(3) Primary Current, AC amps (ESP)
(4) Secondary Voltage, DC KV (ESP)
(5) Secondary Current, DC ma (ESP)
(6) Spark Rate, sparks/minute (ESP)

NOTE: THE STACK TEST WAS COMPLETED ON 4/22/08 WITHIN THE REQUIRED 180 DAYS FROM THE EFFECTIVE DATE OF THE 2007 TITLE V RENEWAL AND PRESENTLY NEED NOT BE REPEATED.

 # 007 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The permittee shall monitor sulfur content and heat content in the # 6 fuel oil according to Method 19, or otherwise approved by the Department, by conducting a quarterly fuel analysis or obtain certification from the supplier for each shipment of oil supplied.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

 # 008 [25 Pa. Code §127.511]
Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain monthly records of Natural Gas and #6 Fuel Oil used by the #3 Recovery Boiler

SECTION D. Source Level Requirements

[Additional authority for this permit condition is derived from Plan Approval No. 07-315-007A, issued on October 28, 1999.]

 # 009 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

(a) Pursuant to 25 Pa. Code §129.100(d), the permittee shall maintain a copy of the Source ID 038 boiler manufacturer's specifications and records of good operating practices for the control of VOC emissions.

(b) Pursuant to 25 Pa. Code §129.100(i), the permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

 # 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.284]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Monitoring of emissions and operations.

The owner or operator of this source shall report, as required under 40 CFR §60.7(c), periods of excess emissions as follows:

(1) For emissions from any recovery furnace periods of excess emissions are:

(i) All 12-hour averages of TRS concentrations above 5 ppm by volume for straight kraft recovery furnaces shall be reported semi-annually.

(ii) All 6-minute average opacities that exceed 35 percent shall be reported quarterly.

[40 CFR §60.284(d)(1)(i)-(ii)]

VI. WORK PRACTICE REQUIREMENTS.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The use of #6 oil in the No. 3 Recovery Boiler shall be restricted to conditions of boiler startup, shutdown, and bed stabilization and emergency situations.

[Additional authority for this permit condition is derived from OP No. 07-02001.]

 # 012 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.97(d), the permittee shall operate and maintain the Source ID 038 boiler in accordance with the manufacturer's specifications and with good operating practices for the control of VOC emissions.

VII. ADDITIONAL REQUIREMENTS.

 # 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.284]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Monitoring of emissions and operations.

The Administrator will not consider periods of excess emissions reported under paragraph (d) of 40 CFR § 60.284 to be indicative of a violation of 40 CFR §60.11(d) provided that:

(1) The percent of the total number of possible contiguous periods of excess emissions in a quarter (excluding periods of startup, shutdown, or malfunction and periods when the facility is not operating) during which excess emissions occur does not exceed:

(i) One percent for TRS emissions from recovery furnaces greater than 5 ppm (at 8% O2, dry basis) on a 12-hour average for more than 1% of operating time for any quarter.

SECTION D. Source Level Requirements

(ii) Opacity greater than 35% for 6-minute averages for 6% or more of operating time for any quarter.

(2) The Administrator determines that the affected facility, including air pollution control equipment, is maintained and operated in a manner which is consistent with good air pollution control practice for minimizing emissions during periods of excess emissions.

[40 CFR §60.284(e)]

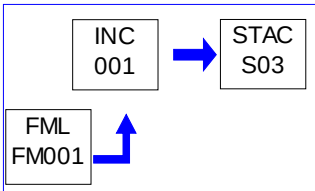
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 001 Source Name: JOHN ZINK THERMAL OXIDIZER

Source Capacity/Throughput: 25.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 009



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

 # 001 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

(a) Pursuant to 25 Pa. Code §129.100(d), the permittee shall maintain a copy of the Source ID 001 thermal oxidizer manufacturer's specifications as well as records of good operating practices for the control of NOx and VOC emissions.

(b) Pursuant to 25 Pa. Code §129.100(i), the permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall limit the total operating time of the incinerator to an amount not exceeding 1,440 hours per any consecutive 12-month period.

(b) Adequate records shall be maintained to demonstrate the total operating hours within any consecutive 12-month period.

 # 003 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.97(c)(6), the permittee shall operate and maintain the Source ID 001 thermal oxidizer in accordance with the manufacturer's specifications and with good operating practices for the control of NOx and VOC

SECTION D. Source Level Requirements

emissions.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

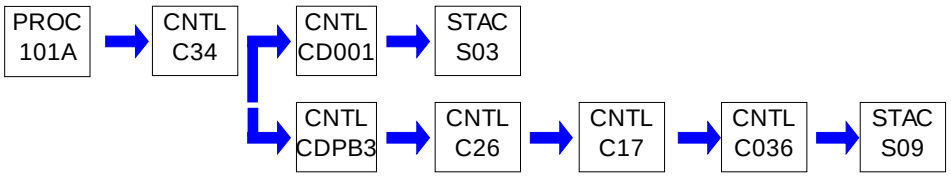
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 101A Source Name: BATCH DIGESTERS W/ INCINR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall utilize either the John Zink Thermal Oxidizer or the No. 3 Power Boiler to incinerate noncondensible Total Reduced Sulfur (TRS) emissions from the five (5) Batch Digesters.

[Additional authority for this permit condition is derived from OP No. 07-02001.]

 # 002 [25 Pa. Code §129.17]

Kraft pulp mills

A person may not cause or permit the emission into the outdoor atmosphere of total reduced sulfur from kraft pulp mills in excess of the following:

From digester systems (continuous or batch process for cooking wood chips in sodium hydroxide and sodium sulfide to produce cellulosic material) - 5 ppmv dry, never to be exceeded.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 103A Source Name: LIME KILN

Source Capacity/Throughput:	40.000	MMBTU/HR	
	40.000	MCF/HR	Natural Gas
	270.000	Gal/HR	#6 Oil

Conditions for this source occur in the following groups: 006
011

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

The Lime Kiln shall not emit any gases, at any time, which contain particulate matter in excess of:

(a) either, in excess of the limit calculated by the following formula:

A = 0.76*E^0.42

Where: A = Allowable emissions in pounds per hour.
E = Emission Index = F X W pounds per hour.
F = Lime calcining Process Factor = 200 lbs/ton
W = Production or charging rate in tons per hour.

(b) or, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grains per dry standard cubic foot, whichever is greater.

[Additional authority is derived from 25 Pa Code Section 123.13.]

 # 002 [25 Pa. Code §123.21]

General

The Lime Kiln shall not emit SOx, in the effluent gas in excess of 500 ppm, by volume, dry basis.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee, when firing this source with No. 6 fuel oil, shall utilize commercially available No. 6 fuel oil.

 # 004 [25 Pa. Code §129.17]

Kraft pulp mills

A person may not cause or permit the emission of total reduced sulfur from the lime kiln in excess of 20 ppm by volume dry basis corrected to 10% oxygen at any time.

SECTION D. Source Level Requirements

Fuel Restriction(s).

 # 005 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The permittee, when firing this source with natural gas, shall utilize commercially available natural gas.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for the Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64]

Parts (a) through (d) are CAM related requirements when firing #6 fuel oil.

(a) The permittee shall use the following process parameter(s) or indicator(s) to obtain data and monitor the emission control equipment performance.

1. Venturi scrubber differential pressure
2. Venturi scrubber recirculation flow

(b) The permittee shall use the following mean(s) or device(s) to measure the applicable indicator(s).

1. Differential pressure gauge
2. Venturi scrubber recirculation flow meter

(c) The permittee shall use the following frequency for conducting monitoring of indicator(s), except during monitoring malfunctions, associated repairs, and required quality assurance or control activities as per 40 CFR 64.7(c) and subject to Condition #012(f).

1. Venturi scrubber differential pressure - continuously (at least every 15-minute block period)
2. Venturi scrubber flow meter - continuously (at least every 15-minute block period)

(d) The permittee shall use the following periods over which discrete data points for approved indicator(s) will be collected and averaged for the purpose of determining an excursion.

1. Venturi scrubber differential pressure - recorded continuously (at least every 15-minute block period). The permittee shall average the pressure differential for a 3-hour block period for the purpose of determining an excursion.
2. Venturi scrubber flow rate - recorded continuously (at least every 15-minute block period). The permittee shall average the flow rate for a 3-hour block period for the purpose of determining an excursion.

IV. RECORDKEEPING REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64.]

(a) The permittee shall maintain records of the following information:

(1) Required readings of the scrubber differential pressure and the 3 hour averages.
(2) Required readings of the scrubber recirculation flow and 3 hour averages.
(3) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time

SECTION D. Source Level Requirements

elapsed until the corrective actions have been taken.
(4) The permittee shall record all inspections, repairs and maintenance performed on the scrubber.
(5) The permittee shall maintain records of all monitoring equipment down time incidents (other than down time associated with accuracy checks or calibration checks). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

(b) The permittee shall keep all records for a period of five (5) years and make the records available to the Department upon request.

 # 008 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

(a) Pursuant to 25 Pa. Code §129.100(d), the permittee shall maintain a copy of the Source ID 103A lime kiln manufacturer's specifications and records of good operating practices for the control of VOC emissions.

(b) Pursuant to 25 Pa. Code §129.100(i), the permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64.]

(a) The permittee shall report all excursions and corrective actions taken, the dates, times, duration and possible causes, every six (6) months.

(1) The operator shall report excess emissions semi-annually consistent with 40 CFR §63.867(c) requirements.

(b) The permittee shall report all monitoring equipment down time incidents (other than down time associated with accuracy checks or calibration checks), their dates, times and durations, possible causes and corrective actions taken, every six (6) months.

(c) The permittee shall report the total source operating time every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64.]

(a) Adherence to the following ranges for the selected indicator(s) shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion except during startup, shutdown, or malfunction events. For the purposes of this condition and subject to Condition #012(f), failure to perform the pressure differential monitoring or flowrate monitoring other than downtime associated with accuracy checks or calibration checks, shall also be defined as an excursion.

(1) The minimum differential pressure is 23 " w.c., as determined by the approved CAM emissions testing in 2008. This can be revised, at any time, with a Department approved CAM emission test.
(2) The minimum recirculation flowrate is 475 GPM as determined by the approved CAM emissions testing in 2008. This can be revised, at any time, with a Department approved CAM emission test.

(b) The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the control devices.

(c) The permittee shall operate and maintain the gauges to measure the pressure differential and flowrate.

SECTION D. Source Level Requirements

(d) The pressure gauge and flow meter shall be calibrated, maintained and operated using procedures that take into account manufacturer's specifications.

(e) The Lime Kiln Venturi Scrubber shall be inspected at least annually. Every four months, instrumentation personnel shall calibrate the differential pressure indicator and verify the readings for the recirculation flow with a portable flowmeter.

(f) The permittee shall ensure that valid data is collected for at least 90% of the source operating time when firing #6 Fuel Oil.

 # 011 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.97(d), the permittee shall operate and maintain the Source ID 103A lime kiln in accordance with the manufacturer's specifications and with good operating practices for the control of VOC emissions.

VII. ADDITIONAL REQUIREMENTS.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64.]

The CAM requirements only apply to this source when firing No. 6 fuel oil.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is derived from 40 CFR Part 64.]

(a) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as possible if any of the following occurs when firing #6 Fuel Oil:

(1) For properly and accurately collected data, the accumulated time (i.e. hours) of all excursions, for any given parameter, exceeds 5% of the total source operating time for a semi-annual period.

(2) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

(b) The QIP should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(c) The permittee shall record actions taken to implement the QIP during a reporting period and all related actions including, but not limited to inspections, repairs, and maintenance performed on the monitoring equipment.

(d) The QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

(1) Improved preventive maintenance practices.
(2) Process operation changes.
(3) Appropriate improvements to control methods.
(4) Other steps appropriate to correct performance.

(e) Following implementation of a QIP the Department will require reasonable revisions to the QIP if the plan has failed to either:

(1) Address the cause of the control device performance problem.
(2) Provide adequate procedures for correcting control device performance problems as expeditiously as possible in

SECTION D. Source Level Requirements

accordance with good air pollution control practices for minimizing emissions.

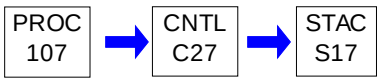
(f) Implementation of a QIP shall not exempt the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirement under the Clean Air Act.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 107 Source Name: STARCH UNLOADING SYSTEM

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from this source in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 gr/dscf.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

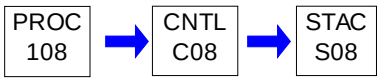
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 108 Source Name: NO. 3 SMELT TANK

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 006
011



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

The following are the allowable emission rate from the Smelt Dissolving Tank:

(a) Particulate matter emissions shall not exceed 0.2 lbs/ton of black liquor solids (dry weight) as specified in 40 CFR 60.282.

(b) TRS emissions shall not exceed 0.033 lbs/ton of black liquor solids as H2S as specified in 40 CFR 60.283.

[Compliance with this streamlined permit condition assures compliance with the provisions in 40 CFR Part 60.282 and 40 CFR Part 60.283]

 # 002 [25 Pa. Code §127.512]

Operating permit terms and conditions.

In the event that the VOC emissions from the No. 3 Smelt Tank (Source ID 108) exceed 9.7 tons during any consecutive 12-month period, the permittee shall report this to the Department within 60 days of its occurrence and shall provide a revised RACT 2 analysis to the Department within 6 months of the occurrence. The permittee shall maintain records of VOC emissions for the source for each calendar month and each consecutive 12-month period.

 # 003 [25 Pa. Code §129.17]

Kraft pulp mills

A person may not cause or permit the emission into the outdoor atmosphere of total reduced sulfur from the smelt dissolving tank in excess of 20 ppm (dry volume), never to be exceeded.

II. TESTING REQUIREMENTS.

 # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.285]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Test methods and procedures.

The permittee shall determine compliance for the No. 3 Smelt Dissolving Tank with the TRS standards in 60.283(a)(4) as follows:

(1) The emission rate (E) of TRS shall be computed for each run using the following equation:

E=CTRS F Qsd/P

where:
E=emission rate of TRS, g/kg (lb/ton) of BLS or ADP.
CTRS=average combined concentration of TRS, ppm.
F=conversion factor, 0.001417 g H2S/m3 ppm
(0.08844X10-6 lb H2S/ft3 ppm).
Qsd=volumetric flow rate of stack gas, dscm/hr (dscf/hr).
P=black liquor solids feed or pulp production rate, kg/hr (ton/hr).

SECTION D. Source Level Requirements

(2) Method 16 shall be used to determine the TRS concentration (CTRS).

(3) Method 2 shall be used to determine the volumetric flow rate (Qsd) of the effluent gas.

(4) Process data shall be used to determine the black liquor feed rate or the pulp production rate (P).

(f) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For Method 5, Method 17 may be used if a constant value of 0.009 g/dscm (0.004 gr/dscf) is added to the results of Method 17 and the stack temperature is no greater than 205C (400F).

(2) For Method 16, Method 16A or 16B may be used if the sampling time is 60 minutes.

[NOTE: Compliance demonstrated on 09/28/2005 using Method 16A for TRS]

[40 CFR 60.285(e)(1)-(4) and (f)(1)-(2)]

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.285]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Test methods and procedures.

The permittee shall determine compliance for the No. 3 Smelt Tank with the particulate matter standard in 60.282(a)(2) as follows:

(1) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

E=csQsd/BLS

where:
E=emission rate of particulate matter, g/kg (lb/ton) of BLS.
cs=concentration of particulate matter, g/dsm (lb/dscf).
Qsd=volumetric flow rate of effluent gas, dscm/hr (dscf/hr).
BLS=black liquor solids (dry weight) feed rate, kg/hr (ton/hr).

(2) Method 5 shall be used to determine the particulate matter concentration (cs) and the volumetric flow rate (Qsd) of the effluent gas. The sampling time and sample volume shall be at least 60 minutes and 0.90 dscm (31.8 dscf). Water shall be used instead of acetone in the sample recovery.

(3) Process data shall be used to determine the black liquor solids (BLS) feed rate on a dry weight basis.

[NOTE: Compliance was demonstrated on 09/24/2003 using Method 5]

[40 CFR 60.285(c)(1)-(3)]

III. MONITORING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Continuous monitors shall be operated, and maintained on the Smelt Dissolving Tank Scrubber for the following:

(a) Pressure drop across the air cleaning device.

(b) Scrubbing liquid flow rates: (1) Venturi flow rate, (2) Manifold flow rate, and (3) Elbow flow rate

[Additional authority for this permit condition is derived from OP No. 07-02001 and the EPA approval of alternative monitoring (letter from EPA Region III, dated Sept 5, 2007.]

SECTION D. Source Level Requirements

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for the Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64.]

Parts (a) through (d) are CAM related requirements

(a) The permittee shall use the following process parameter(s) or indicator(s) to obtain data and monitor the emission control equipment performance.

1. Scrubbing solution manifold flow

(b) The permittee shall use the following mean(s) or device(s) to measure the applicable indicator(s).

1. Scrubbing solution flow meter

(c) The permittee shall use the following frequency for conducting monitoring of indicator(s) except during monitoring malfunctions, associated repairs, and required quality assurance or control activities as per 40 CFR 64.7(c) and subject to Condition #009(f).

1. Scrubbing solution flow - continuously (at least once every 15-minute block period.)

(d) The permittee shall use the following period over which discrete data points for approved indicator(s) will be collected and averaged for the purpose of determining an excursion.

1. Scrubbing solution flow - recorded continuously (at least once every 15-minute block period). The permittee shall average the flow for a 3 hour block average period for the purpose of determining an excursion.

IV. RECORDKEEPING REQUIREMENTS.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64.]

(a) The permittee shall maintain records of the following information:

(1) Required readings of the scrubber flow rate and the 3 hour average.
(2) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.
(3) The permittee shall record all inspections, repairs and maintenance performed on the scrubber.
(4) The permittee shall maintain records of all monitoring equipment down time incidents (other than down time associated with accuracy checks or calibration checks). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

(b) The permittee shall keep all records for a period of five (5) years and make the records available to the Department upon request.

V. REPORTING REQUIREMENTS.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64.]

(a) The permittee shall report all excursions and corrective actions taken, the dates, times, duration and possible causes, every six (6) months.

(1) The operator shall report excess emissions semi-annually consistent with 40 CFR §63.867(c) requirements.

SECTION D. Source Level Requirements

(b) The permittee shall report all monitoring equipment down time incidents (other than down time associated with accuracy checks), their dates, times and durations, possible causes and corrective actions taken, every six (6) months.

(c) The permittee shall report the total source operating time every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64.]

(a) Adherence to the following range for the selected indicator(s) shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion except during startup, shutdown, or malfunction events. For the purposes of this condition and subject to Condition #009(f), failure to perform the flowrate monitoring other than downtime associated with accuracy checks or calibration checks, shall also be defined as an excursion.

(1) The minimum manifold flowrate is 125 gpm or as determined by the most recent approved CAM emissions testing

(b) The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the control devices.

(c) The permittee shall operate and maintain the gauges to measure the flowrate.

(d) The flowmeter shall be calibrated, maintained, and operated using procedures that take into account manufacturer's specifications.

(e) Annually, the scrubber shall be inspected and repaired as needed. Every four months, instrumentation personnel shall verify the manifold flow reading with a portable flowmeter.

(f) The permittee shall ensure that valid data is collected for at least 90% of the source operating time.

VII. ADDITIONAL REQUIREMENTS.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is derived from 40 CFR Part 64.]

(a) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as possible if any of the following occurs:

(1) For properly and accurately collected data, the accumulated time (i.e. hours) of all excursions exceeds 5% of the total source operating time for a semi-annual period.

(2) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

(b) The QIP should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(c) The permittee shall record actions taken to implement the QIP during a reporting period and all related actions including, but not limited to inspections, repairs, and maintenance performed on the monitoring equipment.

(d) The QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for

SECTION D. Source Level Requirements

conducting more frequent or improved monitoring in conjunction with one or more of the following:

(1) Improved preventive maintenance practices.
(2) Process operation changes.
(3) Appropriate improvements to control methods.
(4) Other steps appropriate to correct performance.

(e) Following implementation of a QIP the Department will require reasonable revisions to the QIP if the plan has failed to either:

(1) Address the cause of the control device performance problem.
(2) Provide adequate procedures for correcting control device performance problems as expeditiously as possible in accordance with good air pollution control practices for minimizing emissions.

(f) Implementation of a QIP shall not exempt the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirement under the Clean Air Act.

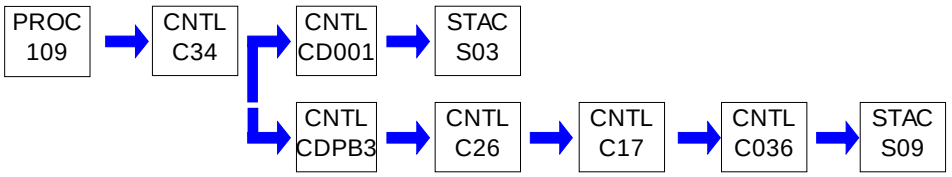
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 109 Source Name: ROSENBLAD EVAPORATORS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §129.17]

Kraft pulp mills

(a) A person may not cause or permit the emission into the outdoor atmosphere of total reduced sulfur from a multiple effect evaporator system (vapor heads, heating elements, hot wells, condensers and associated equipment used to concentrate spent pulp mill cooking liquid) in excess of 5 ppm (dry volume), never to be exceeded.

(b) Total reduced sulfur emissions shall be monitored continuously at multiple effect evaporator systems unless emissions are incinerated at 1,200 degrees F for .5 seconds or incinerated to provide equivalent total reduced sulfur control.

[Compliance with this streamlined permit condition assures compliance with 40 CFR Part 60 Subpart BB 60.283(a)(1)]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

 # 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.284]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Monitoring of emissions and operations.

The permittee shall monitor the TRS emissions from Source 109 as follows:

While the permittee is utilizing the John Zink Thermal Oxidizer to incinerate noncondensible Total Reduced Sulfur(TRS) emissions, the incinerator shall be monitored as per 40 CFR Section 60.284 (b)(1):

A monitoring device shall be calibrated, maintained and operated which measures and records the combustion temperature at the point of incineration of the Rosenblad evaporators effluent gases. The monitoring device is to be certified by the manufacturer to be accurate within plus or minus 1 percent of the temperature being measured.

IV. RECORDKEEPING REQUIREMENTS.

 # 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.284]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Monitoring of emissions and operations.

The following shall be recorded in conjunction with the operation of Source 109:

While the permittee is operating either the John Zink Thermal Oxidizer or the No. 3 Power Boiler to incinerate noncondensible Total Reduced Sulfur (TRS) emissions the permittee shall record all periods in excess of 5 minutes and their duration during which the combustion temperature at the point of incineration is less than 1,200°F, where the

SECTION D. Source Level Requirements

provisions of Section 60.283(a)(1)(iii) apply.

V. REPORTING REQUIREMENTS.

 # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.284]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Monitoring of emissions and operations.

For the purpose of reports required under 40 CFR Section 60.7, the permittee shall report semiannually periods of excess emissions as follows:

All periods in excess of 5 minutes and their duration during which the combustion temperature at the point of incineration is less than 1200 F where the provisions of 40 CFR 60.283(a)(1)(iii) apply.

[40 CFR 60.284(d)(3)(ii)]

VI. WORK PRACTICE REQUIREMENTS.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall utilize either the John Zink Thermal Oxidizer or the No. 3 Power Boiler to incinerate noncondensible Total Reduced Sulfur (TRS) emissions from the Multiple Effect Evaporator.

VII. ADDITIONAL REQUIREMENTS.

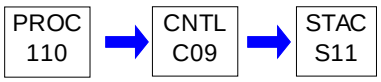
No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 110 Source Name: LIME STORAGE BINS

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from this source in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 gr/dscf.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is derived from 40 CFR Part 64.]

Parts (a) through (d) are CAM related requirements.

(a) The permittee shall use the following process parameter(s) or indicator(s) to obtain data and monitor the emission control equipment performance.

1. Baghouse pressure drop.

(b) The permittee shall use the following mean(s) or device(s) to measure the applicable indicator.

1. Differential pressure gauge.

(c) The permittee shall use the following frequency for conducting monitoring of the indicator(s), except during monitoring malfunctions, associated repairs, and required quality assurance or control activities as per 40 CFR 64.7(c) and subject to Condition #005(f).

1. Lime storage bin jet pulse baghouse pressure differential - once per day.

(d) The permittee shall use the following period over which discrete data points for approved indicator(s) will be collected and averaged for the purpose of determining an excursion.

1. Lime storage bin jet pulse baghouse pressure differential - monitored and recorded once per day.

IV. RECORDKEEPING REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) condition is derived from 40 CFR Part 64.]

(a) The permittee shall maintain records of the following information:

SECTION D. Source Level Requirements

(1) Required readings of the baghouse differential pressure.

(2) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.

(3) The permittee shall record all inspections, repairs and maintenance performed on the baghouse.

(4) The permittee shall maintain records of all monitoring equipment down time incidents (other than down time associated with accuracy checks or calibration checks). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

(b) The permittee shall keep all records for a period of five (5) years and make the records available to the Department upon request.

V. REPORTING REQUIREMENTS.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) condition is derived from 40 CFR Part 64.]

(a) The permittee shall report all excursions and corrective actions taken, the dates, times, duration and possible causes, every six (6) months.

(b) The permittee shall report all monitoring equipment down time incidents (other than down time associated with accuracy checks or calibration checks), their dates, times and durations, possible causes and corrective actions taken, every six (6) months.

(c) The permittee shall report the total source operating time every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this Compliance Assurance Monitoring (CAM) condition is derived form 40 CFR Part 64.]

(a) Adherence to the following range for the selected indicator(s) shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion, except during startup, shutdown, or malfunction events. For the purposes of this condition and subject to subpart (f) of this condition, failure to perform the pressure differential monitoring other than downtime associated with accuracy checks or calibration checks, shall also be defined as an excursion.

(1) The approved pressure drop range is 0.5 to 7.0 psig. A pressure drop below 0.5 psig may indicate a potential bag failure and a pressure drop above 7.0 psig may indicate potential bag fabric blinding or decreased permeability, or trouble with the jet pulse bag cleaners. A reading below 0.5 psig or above 7.0 psig shall trigger corrective actions as appropriate for the situation in order to minimize excess emissions. The accepted pressure drop range can be adjusted based on additional information submitted to the Department for review and approval.

(b) The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of control devices.

(c) The permittee shall operate and maintain gauges to measure the pressure differential.

(d) The pressure gauges shall be calibrated, maintained, and operated using procedures that take into account manufacturer's specifications.

(e) Annually, instrumentation personnel will perform a check of the pressure gauge. Filter bags will be inspected annually

SECTION D. Source Level Requirements

and replaced as needed.

(f) The permittee shall ensure that valid data is collected for at least 90% of the source operating time.

VII. ADDITIONAL REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is derived from 40 CFR Part 64.]

(a) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as possible if any of the following occurs:

(1) For properly and accurately collected data, the accumulated time (i.e. hours) of all excursions exceeds 5% of the total source operating time for a semi-annual period.

(2) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

(b) The QIP should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(c) The permittee shall record actions taken to implement the QIP during a reporting period and all related actions including, but not limited to inspections, repairs, and maintenance performed on the monitoring equipment.

(d) The QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

(1) Improved preventive maintenance practices.
(2) Process operation changes.
(3) Appropriate improvements to control methods.
(4) Other steps appropriate to correct performance.

(e) Following implementation of a QIP the Department will require reasonable revisions to the QIP if the plan has failed to either:

(1) Address the cause of the control device performance problem.
(2) Provide adequate procedures for correcting control device performance problems as expeditiously as possible in accordance with good air pollution control practices for minimizing emissions.

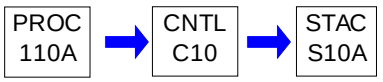
(f) Implementation of a QIP shall not exempt the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirement under the Clean Air Act.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 110A Source Name: LIME SLAKER

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from this source in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 gr/dscf.

 # 002 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

Annual Source ID 110A lime slaker VOC emissions shall not equal or exceed 2.7 tons during any consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor and record the scrubber recirculation flow rate at a minimum of once per week while the scrubber is in operation.

IV. RECORDKEEPING REQUIREMENTS.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The scrubber recirculation flow rate records shall be maintained on-site for the most recent five (5) year period and made available to the Department upon request.

 # 005 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

(a) Pursuant to 25 Pa. Code §129.100(d), the permittee shall maintain a copy of the Source ID 110A lime slaker manufacturer's specifications as well as records of good operating practices for the control of VOC emissions.

(b) Pursuant to 25 Pa. Code §129.100(i), the permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

 # 006 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

(a) Pursuant to 25 Pa. Code §129.100(f), the permittee shall calculate the monthly VOC emissions from the Source ID 110A lime slaker using material balance, AP-42 emission factors, manufacturer-supplied emission factors, performance (stack) test data, or other method(s) acceptable to the Department. The permittee shall maintain records of the Source ID 110A lime slaker's monthly VOC emissions and calculations.

(b) Pursuant to 25 Pa. Code §129.100(f), the permittee shall calculate the cumulative Source ID 110A lime slaker VOC emissions for each consecutive 12-month period. The permittee shall maintain records of the cumulative Source ID 110A lime slaker VOC emissions for each consecutive 12-month period in order to demonstrate compliance with Condition #002,

SECTION D. Source Level Requirements

above.

(c) Pursuant to 25 Pa. Code §129.100(i), the permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

 # 007 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.97(c)(2), the permittee shall operate and maintain the Source ID 110A lime slaker in accordance with the manufacturer's specifications and with good operating practices for the control of VOC emissions.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

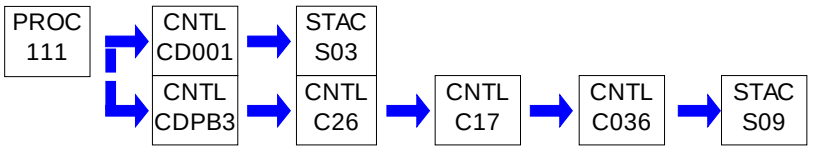
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 111 Source Name: BROWN STOCK WASHERS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

 # 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.284]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Monitoring of emissions and operations.

The permittee shall monitor the TRS emissions from Source 111 as follows:

(1) While the permittee is utilizing the John Zink Thermal Oxidizer to incinerate noncondensible Total Reduced Sulfur (TRS) emissions, the incinerator shall be monitored as per 40 CFR Section 60.284(b)(1):

A monitoring device shall be calibrated, maintained and operated which measures and records the combustion temperature at the point of incineration of the Brown Stock Washers effluent gases. The monitoring device shall be accurate within plus or minus 1 percent of the temperature being measured.

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.284]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Monitoring of emissions and operations.

The following shall be recorded in conjunction with the operation of Source 111:

While the permittee is operating either the John Zink Thermal Oxidizer or the No. 3 Power Boiler to incinerate noncondensible Total Reduced Sulfur (TRS) emissions the permittee shall record all periods in excess of 5 minutes and their duration which the combustion temperature at the point of incineration is less than 1,200 degrees F, where the provisions of Section 60.283(a)(1)(iii) apply.

V. REPORTING REQUIREMENTS.

 # 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.284]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Monitoring of emissions and operations.

For the purposes of reports required under 40 CFR Section 60.7, the permittee shall report semiannually periods of excess emissions as follows:

All periods in excess of 5 minutes and their duration during which the combustion temperature at the point of incineration is less than 1,200 degrees F where the provisions of 40 CFR 60.283(a)(1)(iii) apply.

SECTION D. Source Level Requirements

[40 CFR 60.284(d)(3)(ii)]

VI. WORK PRACTICE REQUIREMENTS.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall utilize either the John Zink Thermal Oxidizer or the No. 3 Power Boiler to incinerate noncondensible Total Reduced Sulfur (TRS) emissions from the Brown Stock Washers.

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.283]

Subpart BB - Standards of Performance for Kraft Pulp Mills

Standard for total reduced sulfur (TRS).

[Additional authority for this permit condition is derived from Plan Approval 07-05001E.]

As per 40 CFR 60.283(a)(1)(iii), the exhaust gases from Source 111 Brown Stock Washers shall be combusted in the John Zink Thermal Oxidizer or the No. 3 Power Boiler, at a minimum temperature of 1,200 degrees F for at least 0.5 second.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

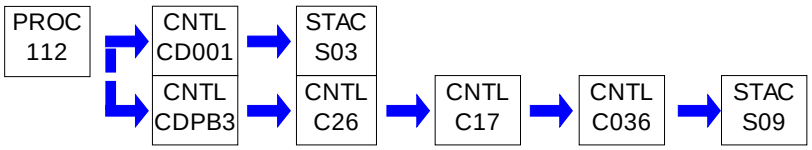
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 112 Source Name: KNOTTERS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

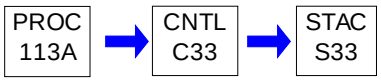
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 113A Source Name: DECKER

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 011
012



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

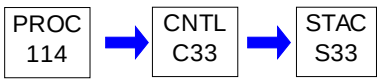
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 114 Source Name: PULP BLEACHING

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011
012



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Refer to 40 CFR §63.457(a)(2) of Subpart S in Section E (Group 009) for repeat performance test requirements.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following work practices apply to the bleaching operations:

1. When any component of the bleach plant is operating, the bleach plant scrubber shall be operated within the following parameters:

(a) The pH of the scrubber effluent and recirculation flow shall be maintained >= than measured during the most recent compliant performance test. [THE CURRENT PARAMETERS ARE SCRUBBER EFFLUENT >= 10.0 pH AND SCRUBBER RECIRCULATION FLOW RATE >= 920 GPM]

(b) The scrubber fan motor amperage shall be continuously measured to verify that the fan is operating.

2. As per 40 CFR 63.453, a continuous monitoring system (CMS) shall be operated, and maintained according to the manufacturer's specifications to measure and continuously record the parameters identified in Item 1, above.

3. If at any time the parameters in Item 1, above, require modification, the company shall notify the Department, in writing,

SECTION D. Source Level Requirements

prior to any change for approval as well as approval for any required testing to be completed.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

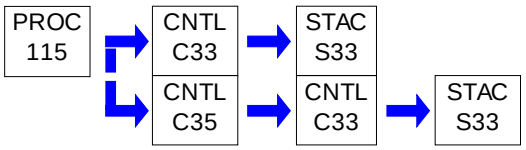
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 115 Source Name: MANUFACTURE OF CHLORINE DIOXIDE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 011
012



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee monitor and record the scrubber recirculation flow rate at a minimum of once per week while the scrubber is in operation.

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain scrubber recirculation flow rate records on-site for the most recent five (5) year period. Records shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

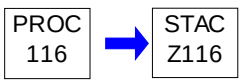
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 116 Source Name: WASTEWATER TREATMENT PLANT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

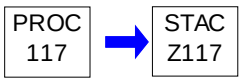
No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 117 Source Name: COATING PREP AREA

Source Capacity/Throughput:



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 118 Source Name: NO. 1 PAPER MACHINE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 008
011

PROC 118 → STAC Z118

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

In the event that the VOC emissions from the No. 1 Paper Machine (Source ID 118), excluding the associated paper coating operations subject to 25 Pa. Code §129.52b(a)(2), exceed 6.4 tons during any consecutive 12-month period, the permittee shall report this to the Department within 60 days of its occurrence and shall provide a revised RACT 2 analysis to the Department within 6 months of the occurrence. The permittee shall maintain records of VOC emissions for the source for each calendar month and each consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

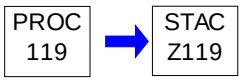
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 119 Source Name: NO. 2 PAPER MACHINE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 008
011



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

In the event that the VOC emissions from the No. 2 Paper Machine (Source ID 119), excluding the associated paper coating operations subject to 25 Pa. Code §129.52b(a)(2), exceed 4.8 tons during any consecutive 12-month period, the permittee shall report this to DEP within 60 days of its occurrence and shall provide a revised RACT 2 analysis to DEP within 6 months of the occurrence. The permittee shall maintain records of VOC emissions for the source for each calendar month and each consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

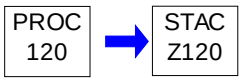
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 120 Source Name: NO. 3 PAPER MACHINE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 008
011



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

In the event that the VOC emissions from the No. 3 Paper Machine (Source ID 120), excluding the associated paper coating operations subject to 25 Pa. Code §129.52b(a)(2), exceed 2.2 tons during any consecutive 12-month period, the permittee shall report this to the Department within 60 days of its occurrence and shall provide a revised RACT 2 analysis to the Department within 6 months of the occurrence. The permittee shall maintain records of VOC emissions for the source for each calendar month and each consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

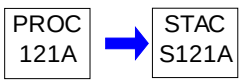
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 121A Source Name: LVHC/HVLC VENTING

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

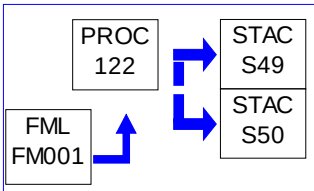
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 122 Source Name: #2 PAPER MACH.IR & FLOTATION DRYER

Source Capacity/Throughput: 16.700 MMBTU/HR
16.700 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 007



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

 # 001 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

(a) Pursuant to 25 Pa. Code §129.100(d), the permittee shall maintain a copy of both of the Source ID 122 paper machine dryers' manufacturer's specifications as well as records of good operating practices for the control of NOx & VOC emissions.

(b) Pursuant to 25 Pa. Code §129.100(i), the permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

 # 002 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.97(c)(3), the permittee shall operate and maintain both of the Source ID 122 paper machine dryers in accordance with the manufacturer's specifications and with good operating practices for the control of NOx & VOC emissions.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

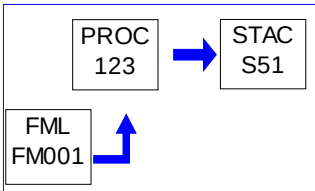
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 123 Source Name: #3 PAPER MACH. AIR FLOT DRYER

Source Capacity/Throughput: 5.000 MMBTU/HR
5.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 007



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

 # 001 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

(a) Pursuant to 25 Pa. Code §129.100(d), the permittee shall maintain a copy of the Source ID 123 paper machine dryer manufacturer's specifications as well as records of good operating practices for the control of NOx & VOC emissions.

(b) Pursuant to 25 Pa. Code §129.100(i), the permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

 # 002 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.97(c)(3), the permittee shall operate and maintain the Source ID 123 paper machine dryer in accordance with the manufacturer's specifications and with good operating practices for the control of NOx & VOC emissions.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

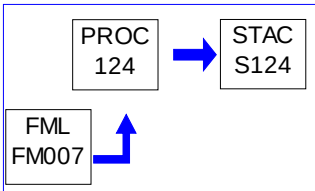
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 124 Source Name: EMERGENCY GENERATOR

Source Capacity/Throughput: 40.000 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: 013



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from the source in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 gr/dscf.

 # 002 [25 Pa. Code §123.21]

General

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from the source in such a manner that the concentration of sulfur oxides, expressed as sulfur dioxide, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate the source on commercially available #2 fuel oil or equivalent.

Operation Hours Restriction(s).

 # 004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall limit the total operating time of the emergency engine to less than 500 hours during any consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the total number of hours operated per month for the emergency engine.

IV. RECORDKEEPING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the following operating parameters for the emergency engine:

SECTION D. Source Level Requirements

(1) Calculations used to verify the sulfur oxides and particulate emission limitations.

(2) The total number of hours operated per month.

(3) A summation of the previous 12 month hours of operation.

(4) Maintenance activities to verify that the engine has been installed, operated and maintained in accordance with the manufacturer's specifications.

The permittee shall make the above records available to the Department upon request and these records shall remain on file for five years.

 # 007 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

(a) Pursuant to 25 Pa. Code §129.100(d), the permittee shall maintain a copy of the Source ID 124 emergency engine manufacturer's specifications as well as records of good operating practices for the control of NOx & VOC emissions.

(b) Pursuant to 25 Pa. Code §129.100(i), the permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

 # 008 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.97(c)(8), the permittee shall operate and maintain the Source ID 124 emergency engine in accordance with the manufacturer's specifications and with good operating practices for the control of NOx & VOC emissions.

[Compliance with this streamlined operating permit condition assures compliance with the presumptive RACT emission limit specified in 25 Pa. Code §129.93(c)(5)]

VII. ADDITIONAL REQUIREMENTS.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emergency generator shall not be used to supplement the primary power supply to the facility for the purpose of peak shaving.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 126 Source Name: PULPING PROCESS CONDENSATES

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

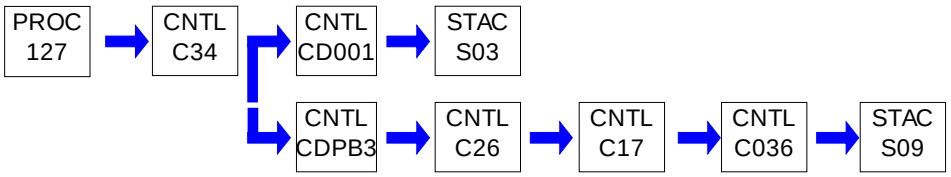
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 127 Source Name: LVHC NCG SOURCES

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from Plan Approval No. 07-05001D.]

The LVHC system includes Source 101A: Batch Digesters with Incineration and Source 109: Rosenblad Evaporators.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

 # 002 [25 Pa. Code §127.443]

Operating permit requirements.

[Additional authority for this permit condition is derived from Plan Approval No. 07-05001D.]

The following conditions apply to the operation of Source ID C34, A. H. Lundberg Packed Scrubber (TRS Scrubber).

(1) The permittee shall operate the TRS scrubber at least 90 percent of the total LVHC system operating hours.

(2) The TRS scrubber shall remove 90 percent or more of the ionizable TRS (hydrogen sulfide, H2S and methyl mercaptan, CH3SH) in the LVHC stream entering the TRS scrubber. A 50 percent overall TRS scrubber removal efficiency shall be maintained during those periods that the TRS scrubber is in operation.

SECTION D. Source Level Requirements

(3) A white liquor flow rate of a least 20 GPM to the scrubber shall be maintained on any occasion that the TRS scrubber is operated.

(4) The white liquor feed line to the TRS scrubber shall be equipped with a flow-indicating controller such that the white liquor flow to the TRS scrubber can be continuously monitored.

(5) Equipment (a differential manometer or equivalent) shall be maintained so that the pressure drop across the TRS scrubber can be continuously monitored.

(6) Adequate records shall be maintained to demonstrate compliance with the condition which specifies the TRS scrubber shall operate at least 90 percent of the total LVHC system operational time.

 # 003 [25 Pa. Code §127.443]

Operating permit requirements.

[Additional authority for this permit condition is derived from Plan Approval No. 07-05001D.]

The following conditions apply to the operation of CD001 John Zink Thermal Oxidizer:

(1) The permittee shall limit the total operating time of the incinerator to an amount not exceeding 1,440 hours per any consecutive 12-month period.

(2) Adequate records shall be maintained to demonstrate the total operating hours within any consecutive 12-month period.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

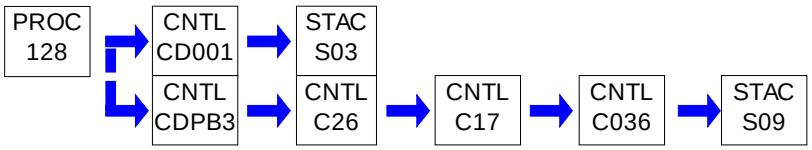
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 128 Source Name: HVLC NCG SOURCES

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 009
011



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from Plan Approval 07-05001E.]

The HVLC system includes Source 111: Brown Stock Washers and Source 112: Knotters.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 129 Source Name: IMMERSION COLD CLEANING MACHINES

Source Capacity/Throughput:

PROC 129 → STAC Z129

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §129.63]

Degreasing operations

(a) The permittee may not use in any Source 129 machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% by weight, measured at 20 C (68F) containing VOCs.

(b) This permit condition does not apply:

(1) If a Source 129 machine is used in extreme cleaning service.

(2) If the permittee demonstrates, and the Department approves in writing, that compliance with this permit condition will result in unsafe operating conditions.

(3) If a Source 129 machine's freeboard ration is equal to or greater than 0.75.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §129.63]

Degreasing operations

The permittee shall maintain the following records for each Source 129 machine:

(a) The name and address of the solvent supplier.
(b) The type of solvent including the product or vendor identification number.
(c) The vapor pressure of the solvent measured in mm Hg at 20 C (68 F).

An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

SECTION D. Source Level Requirements

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

 # 003 [25 Pa. Code §129.63]

Degreasing operations

Each Source 129 machine shall be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent.

 # 004 [25 Pa. Code §129.63]

Degreasing operations

Each Source 129 machine shall have a freeboard ratio of 0.50 or greater.

 # 005 [25 Pa. Code §129.63]

Degreasing operations

The permittee shall operate each Source 129 machine in accordance with the following procedures:

(a) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain form the container.

(b) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in any Source 129 machine

(c) Air-agitated solvent baths may not be used.

(d) Spills during solvent transfer and use of any Source 129 machine shall be cleaned up immediately.

 # 006 [25 Pa. Code §129.63]

Degreasing operations

Each Source 129 machine shall have a permanent, conspicuous label summarizing the operating requirements in Condition #005 above. In addition, the label shall include the following discretionary good operating practices:

(a) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the Source 129 machine.

(b) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

(c) Work area fans should be located and positioned that they do not blow across the opening of the degreaser unit.

VII. ADDITIONAL REQUIREMENTS.

 # 007 [25 Pa. Code §129.63]

Degreasing operations

All of the aforementioned permit conditions apply to a Source 129 cold cleaning machine so long as the machine uses 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 130 Source Name: REMOTE RESERVOIR COLD CLEANING MACHINES

Source Capacity/Throughput:

PROC 130 → STAC Z130

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §129.63]

Degreasing operations

(a) The permittee may not use in any Source 130 machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% by weight, measured at 20 C (68 F) containing VOCs.

(b) This permit condition does not apply:

(1) If a Source 130 machine is used in extreme cleaning service.

(2) If the permittee demonstrates, and the Department approves in writing, that compliance with this permit condition will result in unsafe operating conditions.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §129.63]

Degreasing operations

The permittee shall maintain the following records for each Source 130 machine:

(a) The name and address of the solvent supplier.
(b) The type of solvent including the product or vendor identification number.
(c) The vapor pressure of the solvent measured in mm Hg at 20 C (68 F).

An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

 # 003 [25 Pa. Code §129.63]

Degreasing operations

Each Source 130 machine shall be equipped with one of the following:

(a) A cover that shall be closed at all times except during cleaning of parts of the addition or removal of solvent.

(b) A perforated drain with a diameter of not more than six (6) inches, if the Source 130 machine drains directly into the solvent storage reservoir.

 # 004 [25 Pa. Code §129.63]

Degreasing operations

The permittee shall operate each Source 130 machine in accordance with the following procedures:

(a) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain form the container.

(b) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in any Source 130 machine

(c) Air-agitated solvent baths may not be used.

(d) Spills during solvent transfer and use of any Source 130 machine shall be cleaned up immediately.

 # 005 [25 Pa. Code §129.63]

Degreasing operations

Each Source 130 machine shall have a permanent, conspicuous label summarizing the operating requirements in Condition #004 above. In addition, the label shall include the following discretionary good operating practices:

(a) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the Source 130 machine.

(b) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

(c) Work area fans should be located and positions ed that they do not blow across the opening of the degreaser unit.

VII. ADDITIONAL REQUIREMENTS.

 # 006 [25 Pa. Code §129.63]

Degreasing operations

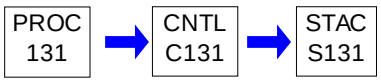
All of the aforementioned permit conditions apply to Source 130 cold cleaning machines so long as the machine uses 2 gallons or more of solvents contain greater than 5 % VOC by weight for the cleaning of metal parts.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 131 Source Name: PM SOURCES CONTROLLED BY FABRIC FILTERS

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in Source 131 in a manner that the concentration of particulate matter in the effluent gas exceeds any of the following:

(i) .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

(ii) The rate determined by the formula:

A = 6000/E

where:

A = Allowable emissions in grains per dry standard cubic foot, and

E = Effluent gas volume in dry standard cubic feet per minute,

when E is equal to or greater than 150,000 but less than 300,000.

(iii) .02 grain per dry standard cubic foot, when the effluent gas volume is greater than 300,000 dry standard cubic feet per minute.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor and record the pressure differential at least once per week, while the PM Source is in operation.

IV. RECORDKEEPING REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Records of all pressure differential readings shall be maintained on-site for the most recent 5 (five) year period. The permitee shall make these records available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

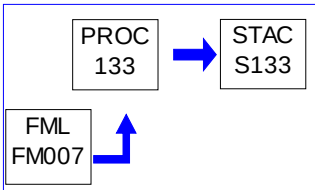
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 133 Source Name: LIME KILN TURNING EMERGENCY ENGINE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 013



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

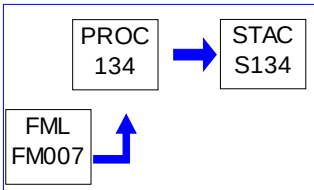
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 134 Source Name: OUTDOOR AIR COMPRESSOR ENGINE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 014



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 201 Source Name: FLY ASH HANDLING SYSTEM

Source Capacity/Throughput: 1.500 Tons/HR FLY ASH

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, filterable and condensable particulate matter (PM), PM10, and PM2.5 emissions from Source ID 201's bin vent collector exhaust shall each not exceed 0.02 grain per dry standard cubic foot.

[Compliance with the requirement(s) specified in this streamlined permit condition assures compliance with the filterable PM emission limit specified in 25 Pa. Code §123.13(c)(1)(i)]

 # 002 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, there shall be no visible air contaminant emissions from the exhaust of Source ID 201's bin vent collector other than water vapor or steam.

[Compliance with the requirement(s) specified in this streamlined permit condition assures compliance with the visible emission limit specified in 25 Pa. Code §123.41]

 # 003 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, no fugitive air contaminant emissions shall be generated as a result of removing collected dust from Source ID 201's bin vent collector or as a result of subsequently handling the collected dust on-site following its removal from the bin vent collector.

[Compliance with the requirement(s) specified in this streamlined permit condition assures compliance with the fugitive emission limit specified in 25 Pa. Code §123.1(a)]

 # 004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

The permittee shall limit Source ID 201's annual emissions to less than or equal to the following thresholds during any consecutive 12-month period:

(a) 0.49 TPY of particulate matter (PM).

(b) 0.49 TPY of PM-10 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 10 micron body).

(c) 0.49 TPY of PM-2.5 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 2.5 micron body).

SECTION D. Source Level Requirements

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

 # 005 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, the permittee shall operate and maintain instrumentation to continuously measure and display the pressure differential across Source ID 201's bin vent collector during silo loading operations.

IV. RECORDKEEPING REQUIREMENTS.

 # 006 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

(a) The permittee shall calculate the monthly air emissions from Source ID 201 using AP-42 emission factors, manufacturer-supplied emission factors, mass material balance, performance (stack) test data, or other method(s) acceptable to the Department. The permittee shall maintain records of the monthly air emissions.

(b) The permittee shall calculate the cumulative Source ID 201 air emissions for each consecutive 12-month period. The permittee shall maintain records of the cumulative Source ID 201 air emissions for each consecutive 12-month period in order to demonstrate compliance with Condition #004, above.

(c) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

 # 007 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

(a) The permittee shall monitor and record the pressure differential across Source ID 201's bin vent collector. The pressure differential shall be recorded a minimum of once per week while Source ID 201 and its bin vent collector are operating.

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

 # 008 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

(a) The permittee shall maintain detailed records of all maintenance performed on Source ID 201's bin vent collector.

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

 # 009 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, the permittee shall operate Source ID 201's bin vent collector at all times that fly ash is being transferred to Source ID 201.

 # 010 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, Source ID 201's bin vent collector's compressed air supply shall be equipped with an air dryer and be designed to provide oil-free air.

 # 011 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, the permittee shall maintain on-site a sufficient quantity of spare bin vent collector bags for Source ID 201's bin vent collector in order to immediately replace any bags requiring replacement due to deterioration resulting from routine operation.

 # 012 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, Source ID 201 and its associated bin vent collector shall be:

(a) Operated in such a manner as to not cause air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§4001 - 4015) and 25 Pa. Code §121.1;

(b) Operated and maintained in a manner consistent with good operating and maintenance practices; and

(c) Operated and maintained in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 002

Group Description: Power Boiler Subject to 40 CFR Part 63, Subpart DDDDD

Sources included in this group

ID	Name
033	NO. 4 POWER BOILER NAT GAS/#6 OIL/#2 OIL

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Regulatory Changes

Individual sources within this source group that are subject to 40 CFR Part 63 Subpart DDDDD shall comply with all applicable requirements of the Subpart. 40 CFR 63.13(a) requires submission of copies of all requests, reports and other communications to both the Department and the EPA. The EPA copies shall be forwarded to:

Director
Air Protection Division (3AP00)
U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

SECTION E. Source Group Restrictions.

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

 # 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

§63.7480 What is the purpose of this subpart?

This subpart establishes national emission limitations and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and work practice standards.

§63.7485 Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP, except as specified in §63.7491. For purposes of this subpart, a major source of HAP is as defined in §63.2, except that for oil and natural gas production facilities, a major source of HAP is as defined in §63.7575.

[78 FR 7162, Jan. 31, 2013]

§63.7490 What is the affected source of this subpart?

(a) This subpart applies to new, reconstructed, and existing affected sources as described in paragraphs (a)(1) and (2) of this section.

(1) The affected source of this subpart is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters within a subcategory as defined in §63.7575.

(2) [N/A – THIS BOILER IS DEFINED AS EXISTING PURSUANT TO PARAGRAPH (d) BELOW]

(b) A boiler or process heater is new if you commence construction of the boiler or process heater after June 4, 2010, and you meet the applicability criteria at the time you commence construction. [NOTE: THE BOILER'S CONSTRUCTION COMMENCED ON OR BEFORE JUNE 4, 2010; THEREFORE, IT IS DEFINED AS EXISTING PURSUANT TO PARAGRAPH (d) BELOW]

(c) A boiler or process heater is reconstructed if you meet the reconstruction criteria as defined in §63.2, you commence reconstruction after June 4, 2010, and you meet the applicability criteria at the time you commence reconstruction.

(d) A boiler or process heater is existing if it is not new or reconstructed. [NOTE: THE BOILER IS DEFINED AS EXISTING]

(e) [N/A – THE BOILER IS NOT DEFINED AS AN EGU]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7162, Jan. 31, 2013]

§63.7491 Are any boilers or process heaters not subject to this subpart?

The types of boilers and process heaters listed in paragraphs (a) through (n) of this section are not subject to this subpart.

(a) [N/A – NOT SUBJECT TO 5U]

(b) [N/A – NOT SUBJECT TO MM]

SECTION E. Source Group Restrictions.

(c) [N/A – NO R&D UNITS]

(d) [N/A – NOT HOT WATER HEATERS]

(e) [N/A – NO REFINING KETTLES]

(f) [N/A – NOT SUBJECT TO YY]

(g) [N/A – NO BLAST FURNACE STOVES]

(h) [N/A – NO UNITS PART OF SOURCES SUBJECT TO OTHER PART 63 SUBPART, SUCH AS JJJ, OOO, PPP, U]

(i) [N/A – NO UNITS USED AS CONTROL DEVICE]

(j) [N/A – NO UNITS DEFINED AS TEMPORARY]

(k) [N/A – NO UNITS FIRE BLAST FURNACE GAS]

(l) [N/A – NO UNITS CAA SECTION 129 UNITS]

(m) [N/A – NOT SUBJECT TO EEE]

(n) [N/A – NO UNITS DEFINED AS RESIDENTIAL]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7162, Jan. 31, 2013; 80 FR 72806, Nov. 20, 2015]

§63.7495 When do I have to comply with this subpart?

(a) [N/A – THE BOILER IS DEFINED AS EXISTING PURSUANT TO §63.7490(d)]

(b) If you have an existing boiler or process heater, you must comply with this subpart no later than January 31, 2016, except as provided in §63.6(i).

(c) [N/A – THE FACILITY IS ALREADY MAJOR SOUCE OF HAPs]

(d) You must meet the notification requirements in §63.7545 according to the schedule in §63.7545 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limits and work practice standards in this subpart.

(e) [N/A – THE BOILER IS SUBJECT TO MACT SUBPART DDDDD]

(f) [N/A – THE BOILER IS NOT DEFINED AS AN EGU]

(g) [N/A – THE BOILER IS SUBJECT TO MACT SUBPART DDDDD]

(h) If you own or operate an existing industrial, commercial, or institutional boiler or process heater and have switched fuels or made a physical change to the boiler or process heater that resulted in the applicability of a different subcategory after the compliance date of this subpart, you must be in compliance with the applicable existing source provisions of this subpart on the effective date of the fuel switch or physical change.

(i) [N/A – THE BOILER IS DEFINED AS EXISTING PURSUANT TO §63.7490(d)]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7162, Jan. 31, 2013; 80 FR 72807, Nov. 20, 2015]

 # 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

SECTION E. Source Group Restrictions.

EMISSION LIMITATIONS AND WORK PRACTICE STANDARDS

§63.7499 What are the subcategories of boilers and process heaters?

The subcategories of boilers and process heaters, as defined in §63.7575 are:

(a) Pulverized coal/solid fossil fuel units.

(b) Stokers designed to burn coal/solid fossil fuel.

(c) Fluidized bed units designed to burn coal/solid fossil fuel.

(d) Stokers/sloped grate/other units designed to burn kiln dried biomass/bio-based solid.

(e) Fluidized bed units designed to burn biomass/bio-based solid.

(f) Suspension burners designed to burn biomass/bio-based solid.

(g) Fuel cells designed to burn biomass/bio-based solid.

(h) Hybrid suspension/grate burners designed to burn wet biomass/bio-based solid.

(i) Stokers/sloped grate/other units designed to burn wet biomass/bio-based solid.

(j) Dutch ovens/pile burners designed to burn biomass/bio-based solid.

(k) Units designed to burn liquid fuel that are non-continental units.

(l) Units designed to burn gas 1 fuels. [NOTE: THE BOILER SATISFIES THE DEFINITION OF THIS SUBCATEGORY]

(m) Units designed to burn gas 2 (other) gases.

(n) Metal process furnaces.

(o) Limited-use boilers and process heaters.

(p) Units designed to burn solid fuel.

(q) Units designed to burn liquid fuel.

(r) Units designed to burn coal/solid fossil fuel.

(s) Fluidized bed units with an integrated fluidized bed heat exchanger designed to burn coal/solid fossil fuel.

(t) Units designed to burn heavy liquid fuel.

(u) Units designed to burn light liquid fuel.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7163, Jan. 31, 2013]

§63.7500 What emission limitations, work practice standards, and operating limits must I meet?

(a) You must meet the requirements in paragraphs (a)(1) through (3) of this section, except as provided in paragraphs (b), through (e) of this section. You must meet these requirements at all times the affected unit is operating, except as provided in paragraph (f) of this section.

(1) You must meet each emission limit and work practice standard in Tables 1 through 3, and 11 through 13 [NOTE: OF

SECTION E. Source Group Restrictions.

THESE TABLES, ONLY TABLE 3 TO SUBPART DDDDD APPLIES] to this subpart that applies to your boiler or process heater, for each boiler or process heater at your source, except as provided under §63.7522. The output-based emission limits, in units of pounds per million Btu of steam output, in Tables 1 or 2 to this subpart are an alternative applicable only to boilers and process heaters that generate either steam, cogenerate steam with electricity, or both. The output-based emission limits, in units of pounds per megawatt-hour, in Tables 1 or 2 to this subpart are an alternative applicable only to boilers that generate only electricity. Boilers that perform multiple functions (cogeneration and electricity generation) or supply steam to common headers would calculate a total steam energy output using equation 21 of §63.7575 to demonstrate compliance with the output-based emission limits, in units of pounds per million Btu of steam output, in Tables 1 or 2 to this subpart. If you operate a new boiler or process heater, you can choose to comply with alternative limits as discussed in paragraphs (a)(1)(i) through (iii) of this section, but on or after January 31, 2016, you must comply with the emission limits in Table 1 to this subpart.

TABLE 3 REQUIREMENTS

As stated in §63.7500, you must comply with the following applicable work practice standards:

3. If your unit is a new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater, you must meet the following: Conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions under this subpart. Units in all other subcategories will conduct this tune-up as a work practice for dioxins/furans.

4. if your unit is an existing boiler or process heater located at a major source facility, not including limited use units, you must meet the following: Must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table, satisfies the energy assessment requirement. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and the compliance date specified in §63.7495 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items a. to e. appropriate for the on-site technical hours listed in §63.7575:

a. A visual inspection of the boiler or process heater system.

b. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.

c. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator.

d. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.

e. A review of the facility's energy management program and provide recommendations for improvements consistent with the definition of energy management program, if identified.

f. A list of cost-effective energy conservation measures that are within the facility's control.

g. A list of the energy savings potential of the energy conservation measures identified.

h. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

END OF TABLE 3 REQUIREMENTS

(a)(i)-(iii) [NO EMISSION STANDARDS]

(2) [N/A – TABLE 4 TO SUBPART DDDDD DOES NOT APPLY]

SECTION E. Source Group Restrictions.

(3) At all times, you must operate and maintain any affected source (as defined in §63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(b) As provided in §63.6(g), EPA may approve use of an alternative to the work practice standards in this section.

(c) [N/A – THE BOILER IS NOT A LIMITED-USE BOILER]

(d) [N/A – THE BOILER HAS A HEAT INPUT CAPACITY GREATER THAN 5 MMBTU/HR]

(e) [N/A – THE BOILER HAS A HEAT INPUT CAPACITY GREATER THAN 10 MMBTU/HR]

(f) These standards apply at all times the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with items 5 and 6 of Table 3 to this subpart.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7163, Jan. 31, 2013; 80 FR 72807, Nov. 20, 2015]

§63.7501 [Reserved]

GENERAL COMPLIANCE REQUIREMENTS

§63.7505 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limits, work practice standards, and operating limits in this subpart. These emission and operating limits apply to you at all times the affected unit is operating except for the periods noted in §63.7500(f).

(b) [Reserved]

(c)-(e) [N/A – NO EMISSION LIMITS]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7164, Jan. 31, 2013; 80 FR 72807, Nov. 20, 2015]

 # 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

TESTING, FUEL ANALYSES, AND INITIAL COMPLIANCE REQUIREMENTS

§63.7510 What are my initial compliance requirements and by what date must I conduct them?

(a)-(d) [N/A – NO EMISSION STANDARDS]

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(e) For existing affected sources (as defined in §63.7490), you must complete the initial compliance demonstrations, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the compliance date that is specified for your source in §63.7495 and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart, except as specified in paragraph (j) of this section. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in §63.7495, except as specified in paragraph (j) of this section. You must complete the one-time energy assessment specified in Table 3 to this subpart no later than the compliance date specified in §63.7495. [NOTE: INITIAL ENERGY ASSESSMENT AND TUNE-UP HAVE BEEN CONDUCTED]

(f) [N/A – NO EMISSION STANDARDS]

(g) [N/A – THE BOILER IS DEFINED AS EXISTING]

SECTION E. Source Group Restrictions.

(h) [N/A – THE BOILER HAS NOT BURNED SOLID WASTE]

(i) [N/A – THE BOILER IS NOT DEFINED AS AN EGU]

(j) [N/A – THE BOILER WAS OPERATING BETWEEN EFFECTIVE DATE AND INITIAL COMPLIANCE DATE]

(k) For affected sources, as defined in §63.7490, that switch subcategories consistent with §63.7545(h) after the initial compliance date, you must demonstrate compliance within 60 days of the effective date of the switch, unless you had previously conducted your compliance demonstration for this subcategory within the previous 12 months.

[78 FR 7164, Jan. 31, 2013, as amended at 80 FR 72808, Nov. 20, 2015]

§63.7515 When must I conduct subsequent performance tests, fuel analyses, or tune-ups?

(a)-(c) [N/A – PERFORMANCE TESTING NOT REQUIRED]

(d) If you are required to meet an applicable tune-up work practice standard, you must conduct an annual, biennial, or 5-year performance tune-up according to §63.7540(a)(10), (11), or (12), respectively. Each annual tune-up specified in §63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in §63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in §63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after April 1, 2013 or the initial startup of the new or reconstructed affected source, whichever is later.

(e) [N/A – FUEL ANALYSIS NOT REQUIRED]

(f) [N/A – PERFORMANCE TESTING NOT REQUIRED]

(g) For affected sources (as defined in §63.7490) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, you must complete the subsequent compliance demonstration, if subject to the emission limits in Tables 1, 2, or 11 through 13 to this subpart, no later than 180 days after the re-start of the affected source and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart. You must complete a subsequent tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) and the schedule described in §63.7540(a)(13) for units that are not operating at the time of their scheduled tune-up.

(h) [N/A – PERFORMANCE TESTING NOT REQUIRED]

(i) [N/A – NO CO CEMS]

[78 FR 7165, Jan. 31, 2013, as amended at 80 FR 72808, Nov. 20, 2015]

§63.7520 What stack tests and procedures must I use?

[N/A – PERFORMANCE TESTING NOT REQUIRED]

§63.7521 What fuel analyses, fuel specification, and procedures must I use?

[N/A – FUEL ANALYSIS NOT REQUIRED; NO EMISSION STANDARDS]

§63.7522 Can I use emissions averaging to comply with this subpart?

[N/A – NO EMISSION STANDARDS]

§63.7525 What are my monitoring, installation, operation, and maintenance requirements?

SECTION E. Source Group Restrictions.

(a)-(c) [N/A – NO EMISSION STANDARDS]

(d) [N/A – NO CMS REQUIRED]

(e) [N/A – NO FLOW MONITORING SYSTEM REQUIRED]

(f) [N/A – NO PRESURE MONITORING SYSTEM REQUIRED]

(g) [N/A – NO PH MONITORING SYSTEM REQUIRED]

(h) [N/A – NO ESP]

(j) [N/A – NO BLDS]

(k) [N/A – THE BOILER IS NOT DEFINED AS A LIMITED-USE BOILER]

(l)-(m) [N/A – NO EMISSION STANDARDS]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7171, Jan. 31, 2013; 80 FR 72810, Nov. 20, 2015]

§63.7530 How do I demonstrate initial compliance with the emission limitations, fuel specifications and work practice standards?

(a)-(c) [N/A – NO EMISSION STANDARDS]

(d)[Reserved]

(e) [N/A – ENERGEY ASSESSMENT IS IN THE PAST]

(f) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.7545(e).

(g) If you elect to demonstrate that a gaseous fuel meets the specifications of another gas 1 fuel as defined in §63.7575, you must conduct an initial fuel specification analyses according to §63.7521(f) through (i) and according to the frequency listed in §63.7540(c) and maintain records of the results of the testing as outlined in §63.7555(g). For samples where the initial mercury specification has not been exceeded, you will include a signed certification with the Notification of Compliance Status that the initial fuel specification test meets the gas specification outlined in the definition of other gas 1 fuels.

(h)-(i) [N/A – NO EMISSION STANDARDS]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7174, Jan. 31, 2013; 80 FR 72811, Nov. 20, 2015]

§63.7533 Can I use efficiency credits earned from implementation of energy conservation measures to comply with this subpart?

[N/A – NO EMISSION STANDARDS]

CONTINUOUS COMPLIANCE REQUIREMENTS

§63.7535 Is there a minimum amount of monitoring data I must obtain?

[N/A – NO CMS REQUIRED]

§63.7540 How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?

SECTION E. Source Group Restrictions.

(a) You must demonstrate continuous compliance with each emission limit in Tables 1 and 2 or 11 through 13 to this subpart, the work practice standards in Table 3 to this subpart, and the operating limits in Table 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (19) of this section.

(1) [N/A – NO EMISSION STANDARDS]

(2) As specified in §63.7555(d), you must keep records of the type and amount of all fuels burned in each boiler or process heater during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would result in either of the following:

(i)-(ii) [N/A – NO EMISSION STANDARDS]

(3)-(9) [N/A – NO EMISSION STANDARDS]

(10) If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of this section. You must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. This frequency does not apply to limited-use boilers and process heaters, as defined in §63.7575, or units with continuous oxygen trim systems that maintain an optimum air to fuel ratio.

(i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

(ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

(iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject;

(v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

(vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of this section,

(A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

(B) A description of any corrective actions taken as a part of the tune-up; and

(C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

(11) [N/A – THE BOILER HAS A HEAT INPUT CAPACITY GREATER THAN 10 MMBTU/HR]

SECTION E. Source Group Restrictions.

(12) [N/A – THE BOILER DOES NOT HAVE A CONTINUOUS OXYGEN TRIM SYSTEM; HAS A HEAT INPUT CAPACITY GREATER THAN 5 MMBTU/HR; IS NOT DEFINED AS LIMITED USE]

(13) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

(14)-(19) [N/A – NO EMISSION STANDARDS]

(b) You must report each instance in which you did not meet each emission limit and operating limit in Tables 1 through 4 or 11 through 13 to this subpart that apply to you. These instances are deviations from the emission limits or operating limits, respectively, in this subpart. These deviations must be reported according to the requirements in §63.7550.

(c)-(d) [N/A – NO EMISSION STANDARDS]

[78 FR 7179, Jan. 31, 2013, as amended at 80 FR 72813, Nov. 20, 2015]

§63.7541 How do I demonstrate continuous compliance under the emissions averaging provision?

[N/A – NO EMISSION STANDARDS]

 # 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

NOTIFICATION, REPORTS, AND RECORDS

§63.7545 What notifications must I submit and when?

(a) You must submit to the Administrator all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply to you by the dates specified.

(b) As specified in §63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013.

(c) [N/A – THE BOILER IS DEFINED AS EXISTING]

(d) [N/A – PERFORMANCE TESTING NOT REQUIRED]

(e) If you are required to conduct an initial compliance demonstration as specified in §63.7530, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to §63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8) of this section, as applicable. If you are not required to conduct an initial compliance demonstration as specified in §63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8) of this section and must be submitted within 60 days of the compliance date specified at §63.7495(b).

(1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under §241.3 of this chapter, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of §241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration.

(2)-(5) [N/A – NO EMISSION STANDARDS]

SECTION E. Source Group Restrictions.

(6) A signed certification that you have met all applicable emission limits and work practice standards.

(7) If you had a deviation from any emission limit, work practice standard, or operating limit, you must also submit a description of the deviation, the duration of the deviation, and the corrective action taken in the Notification of Compliance Status report.

(8) In addition to the information required in §63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, and signed by a responsible official:

(i) "This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR part 63 subpart DDDDD at this site according to the procedures in §63.7540(a)(10)(i) through (vi)."

(ii) "This facility has had an energy assessment performed according to §63.7530(e)."

(iii) Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act, include the following: "No secondary materials that are solid waste were combusted in any affected unit."

(f) If you operate a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to this subpart, and you intend to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of this part, part 60, 61, or 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in §63.7575, you must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in §63.7575. The notification must include the information specified in paragraphs (f)(1) through (5) of this section.

(1) Company name and address.

(2) Identification of the affected unit.

(3) Reason you are unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.

(4) Type of alternative fuel that you intend to use.

(5) Dates when the alternative fuel use is expected to begin and end.

(g) [N/A – THE BOILER DOES NOT BURN SOLID WASTE]

(h) If you have switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, you must provide notice of the date upon which you switched fuels or made the physical change within 30 days of the switch/change. The notification must identify:

(1) The name of the owner or operator of the affected source, as defined in §63.7490, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice.

(2) The currently applicable subcategory under this subpart.

(3) The date upon which the fuel switch or physical change occurred.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7183, Jan. 31, 2013; 80 FR 72814, Nov. 20, 2015]

§63.7550 What reports must I submit and when?

(a) You must submit each report in Table 9 to this subpart that applies to you.

TABLE 9 REQUIREMENTS

SECTION E. Source Group Restrictions.

As stated in §63.7550, you must comply with the following requirements for reports:

You must submit a compliance report. The report must contain

a. Information required in §63.7550(c)(1) through (5); and

b. If there are no deviations from any emission limitation (emission limit and operating limit) that applies to you and there are no deviations from the requirements for work practice standards for periods of startup and shutdown in Table 3 to this subpart that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and

c. If you have a deviation from any emission limitation (emission limit and operating limit) where you are not using a CMS to comply with that emission limit or operating limit, or a deviation from a work practice standard for periods of startup and shutdown, during the reporting period, the report must contain the information in §63.7550(d); and

d. [NA – NO EMISSION STANDARDS]

You must submit the report semiannually, annually, biennially, or every 5 years according the requirements in §63.7550(b).

END OF TABLE 9 REQUIREMENTS

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report, according to paragraph (h) of this section, by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (4) of this section. For units that are subject only to a requirement to conduct subsequent annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or Table 4 operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of this section, instead of a semi-annual compliance report.

(1) The first semi-annual compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for your source in §63.7495. If submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on December 31 within 1, 2, or 5 years, as applicable, after the compliance date that is specified for your source in §63.7495.

(2) The first semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in §63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.

(3) Each subsequent semi-annual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.

(4) Each subsequent semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.

(5) For each affected source that is subject to permitting regulations pursuant to part 70 or part 71 of this chapter, and if the permitting authority has established dates for submitting semiannual reports pursuant to 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established in the permit instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) A compliance report must contain the following information depending on how the facility chooses to comply with the

SECTION E. Source Group Restrictions.

limits set in this rule.

(1) If the facility is subject to the requirements of a tune up you must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii) of this section, (xiv) and (xvii) of this section, and paragraph (c)(5)(iv) of this section for limited-use boiler or process heater.

(2) [N/A – FUEL ANALYSIS NOT REQUIRED]

(3) [NA – NO EMISSION STANDARDS]

(5)(i) Company and Facility name and address.

(ii) Process unit information, emissions limitations, and operating parameter limitations.

(iii) Date of report and beginning and ending dates of the reporting period.

(iv) The total operating time during the reporting period.

(v)-(xiii) [NA – NO EMISSION STANDARDS]

(xiv) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.

(xv)-(xvi) [NA – NO EMISSION STANDARDS]

(xvii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(xviii) [NA – NO EMISSION STANDARDS]

(d)-(e) [NA – NO EMISSION STANDARDS].

(f)-(g) [Reserved]

(h) You must submit the reports according to the procedures specified in paragraphs (h)(1) through (3) of this section.

(1)-(2) [N/A – PERFORMANCE TEST NOT REQUIRED]

(3) You must submit all reports required by Table 9 of this subpart electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (http://www.epa.gov/ttn/chief/cedri/index.html), once the XML schema is available. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in §63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI.

[78 FR 7183, Jan. 31, 2013, as amended at 80 FR 72814, Nov. 20, 2015]

§63.7555 What records must I keep?

(a) You must keep records according to paragraphs (a)(1) and (2) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

SECTION E. Source Group Restrictions.

(2) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii).

(3) For units in the limited use subcategory, you must keep a copy of the federally enforceable permit that limits the annual capacity factor to less than or equal to 10 percent and fuel use records for the days the boiler or process heater was operating.

(b)-(g) [NA – NO EMISSION STANDARDS]

(h) If you operate a unit in the unit designed to burn gas 1 subcategory that is subject to this subpart, and you use an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under this part, other gas 1 fuel, or gaseous fuel subject to another subpart of this part or part 60, 61, or 65, you must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies.

(i) and (j) [Removed]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7185, Jan. 31, 2013; 80 FR 72816, Nov. 20, 2015]

§63.7560 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.

OTHER REQUIREMENTS AND INFORMATION

§63.7565 What parts of the General Provisions apply to me?

Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§63.7570 Who implements and enforces this subpart? [INCORPORATED BY REFERENCE]

§63.7575 What definitions apply to this subpart? [INCORPORATED BY REFERENCE]

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 003

Group Description: Power Boiler Subject to MACT Subpart DDDDD & P.A. No. 07-05001F

Sources included in this group

ID	Name
036	#3 POWER BOILER (COAL/BARK/SLUDGE/WOOD)

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

 # 001 [25 Pa. Code §139.11]

General requirements.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

(a) Pursuant to 25 Pa. Code §139.3, at least 90 calendar days prior to commencing an emissions testing program, unless otherwise approved in writing by the Department, a test protocol shall be submitted to the Department for review and approval. Unless otherwise approved in writing by the Department, the permittee shall not conduct the test that is the subject of the protocol until the test protocol has been approved in writing by the Department.

(b) Pursuant to 25 Pa. Code §139.3, at least 15 calendar days prior to commencing an emissions testing program, notification as to the date and time of testing shall be given to the Southcentral Regional Office. Notification shall also be sent to the Bureau of Air Quality's Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 25 Pa. Code §139.53(a)(3), within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Bureau of Air Quality's Division of Source Testing and Monitoring and the Southcentral Regional Office indicating the completion date of the on-site testing.

(d) Pursuant to 25 Pa. Code §139.3, a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emissions test program.

(e) Pursuant to 25 Pa. Code §139.53(b), a complete test report shall include a summary of the emissions results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable plan approval/operating permit conditions. The summary results shall include, at a minimum, the following information:

(1) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
(2) Plan approval/operating permit number(s) and condition(s) which are the basis for the evaluation.
(3) Summary of results with respect to each applicable plan approval/operating permit condition.
(4) Statement of compliance or non-compliance with each applicable plan approval/operating permit condition.

(f) Pursuant to 25 Pa. Code §139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(g) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department.

(h) Pursuant to 25 Pa. Code §§139.53(a)(1) and 139.53(a)(3), all submittals, besides notifications, shall be accomplished via PSIMS*Online available via https://www.depgreenport.state.pa.us/ecomm/Login.jsp. If Internet submittal cannot be accomplished, one paper copy and one digital copy of each submittal shall be made to each of the following:

Southcentral Regional Office:
Paper copy: Program Manager, Air Quality Program, PA DEP Southcentral Regional Office, 909 Elmerton Avenue,

SECTION E. Source Group Restrictions.

Harrisburg, PA 17110-8200
Digital copy: RA-epscstacktesting@pa.gov

Bureau of Air Quality:
Paper copy: PA DEP, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468
Digital copy: RA-epstacktesting@pa.gov

(i) The permittee shall ensure all federal reporting requirements contained in any applicable federal subpart are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting state and federal requirements, the most stringent provision, term, condition, method or rule shall be used by default.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 002 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

In the event that 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (MACT Subpart DDDDD) is revised, the permittee shall comply with the revised version of MACT Subpart DDDDD, and shall not be required to comply with any provisions in this operating permit designated as having MACT Subpart DDDDD as their authority, to the extent that such operating permit provisions would be inconsistent with the applicable provisions of the revised MACT Subpart DDDDD.

 # 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1]

Subpart A--General Provisions

Applicability.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

The Group 003 power boiler is subject to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§63.7480 through 63.7575, including all applicable portions of 40 CFR Part 63, Subpart A - General Provisions. The permittee shall comply with 40 CFR §63.13(a), which requires submission of copies of all requests, reports, applications, submittals, and other communications to both the U.S. Environmental Protection Agency (U.S. EPA) and the Department of Environmental Protection (DEP). The U.S. EPA copies shall be forwarded to:

Director
Air Protection Division

SECTION E. Source Group Restrictions.

U.S. EPA, Region III (3AP00)
1650 Arch Street
Philadelphia, PA 19103-2029

The DEP copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

 # 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7485 Am I subject to MACT Subpart DDDDD?

You are subject to MACT Subpart DDDDD if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP, except as specified in §63.7491. For purposes of MACT Subpart DDDDD, a major source of HAP is as defined in §63.2, except that for oil and natural gas production facilities, a major source of HAP is as defined in §63.7575.

[78 FR 7162, Jan. 31, 2013]

 # 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7490]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What is the affected source of this subpart?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7490 What is the affected source of MACT Subpart DDDDD?

(a) MACT Subpart DDDDD applies to new, reconstructed, and existing affected sources as described in paragraphs (a)(1) and (2), below.

(1) The affected source of MACT Subpart DDDDD is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters within a subcategory as defined in §63.7575.

(2) [N/A - THE BOILER IS DEFINED AS EXISTING PURSUANT TO PARAGRAPH (d), BELOW]

(b) A boiler or process heater is new if you commence construction of the boiler or process heater after June 4, 2010 and you meet the applicability criteria at the time you commence construction. [NOTE: THE BOILER'S CONSTRUCTION COMMENCED ON OR BEFORE JUNE 4, 2010; THEREFORE, IT IS DEFINED AS EXISTING PURSUANT TO PARAGRAPH (d), BELOW]

(c) A boiler or process heater is reconstructed if you meet the reconstruction criteria as defined in §63.2, you commence reconstruction after June 4, 2010 and you meet the applicability criteria at the time you commence reconstruction.

(d) A boiler or process heater is existing if it is not new or reconstructed. [NOTE: THE BOILER IS DEFINED AS EXISTING]

(e) [N/A - THE BOILER IS NOT DEFINED AS AN EGU]

[76 FR 15664, Mar. 21, 2011 as amended at 78 FR 7162, Jan. 31, 2013]

 # 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7495]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial

SECTION E. Source Group Restrictions.

and Institutional Boilers and Process Heaters.
When do I have to comply with this subpart?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7495 When do I have to comply with MACT Subpart DDDDD?

(a) [N/A - THE BOILER IS DEFINED AS EXISTING PURSUANT TO §63.7490(d)]

(b) If you have an existing boiler or process heater, you must comply with MACT Subpart DDDDD no later than January 31, 2016 except as provided in §63.6(i). [NOTE: IN ACCORDANCE WITH 40 CFR §63.6(i)(4)(i), DEP GRANTED THE PERMITTEE A 1-YEAR MACT SUBPART DDDDD COMPLIANCE DATE EXTENSION FOR THE SOURCE ID 036 BOILER; THE RELEVANT COMPLIANCE DATE FOR THE SOURCE ID 036 BOILER WAS JANUARY 31, 2017; THIS MACT SUBPART DDDDD COMPLIANCE DATE EXTENSION WAS MEMORIALIZED IN PREVIOUS VERSIONS OF TITLE V OPERATING PERMIT NO. 07-05001]

(c) [N/A - THE FACILITY IS ALREADY DEFINED AS A MAJOR SOURCE OF HAPs]

(d) You must meet the notification requirements in §63.7545 according to the schedule in §63.7545 and in 40 CFR Part 63, Subpart A. Some of the notifications must be submitted before you are required to comply with the emission limits and work practice standards in MACT Subpart DDDDD.

(e) [N/A - THE BOILER IS SUBJECT TO MACT SUBPART DDDDD]

(f) [N/A - THE BOILER IS NOT DEFINED AS AN EGU]

(g) [N/A - THE BOILER IS SUBJECT TO MACT SUBPART DDDDD]

(h) If you own or operate an existing industrial, commercial, or institutional boiler or process heater and have switched fuels or made a physical change to the boiler or process heater that resulted in the applicability of a different subcategory after the compliance date of MACT Subpart DDDDD, you must be in compliance with the applicable existing source provisions of MACT Subpart DDDDD on the effective date of the fuel switch or physical change.

(i) [N/A - THE BOILER IS DEFINED AS EXISTING PURSUANT TO §63.7490(d), ABOVE]

[76 FR 15664, Mar. 21, 2011 as amended at 78 FR 7162, Jan. 31, 2013; 80 FR 72807, Nov. 20, 2015]

 # 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7499]
Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.
What are the subcategories of boilers and process heaters?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7499 What are the subcategories of boilers and process heaters?

The subcategories of boilers and process heaters, as defined in §63.7575 are:

(a) Pulverized coal/solid fossil fuel units.

(b) Stokers designed to burn coal/solid fossil fuel.

(c) Fluidized bed units designed to burn coal/solid fossil fuel.

(d) Stokers/sloped grate/other units designed to burn kiln dried biomass/bio-based solid.

(e) Fluidized bed units designed to burn biomass/bio-based solid.

(f) Suspension burners designed to burn biomass/bio-based solid.

SECTION E. Source Group Restrictions.

(g) Fuel cells designed to burn biomass/bio-based solid.

(h) Hybrid suspension/grate burners designed to burn wet biomass/bio-based solid.

(i) Stokers/sloped grate/other units designed to burn wet biomass/bio-based solid. [NOTE: THE BOILER SATISFIES THE DEFINITION OF THIS SUBCATEGORY]

(j) Dutch ovens/pile burners designed to burn biomass/bio-based solid.

(k) Units designed to burn liquid fuel that are non-continental units.

(l) Units designed to burn gas 1 fuels.

(m) Units designed to burn gas 2 (other) gases.

(n) Metal process furnaces.

(o) Limited-use boilers and process heaters.

(p) Units designed to burn solid fuel.

(q) Units designed to burn liquid fuel.

(r) Units designed to burn coal/solid fossil fuel.

(s) Fluidized bed units with an integrated fluidized bed heat exchanger designed to burn coal/solid fossil fuel.

(t) Units designed to burn heavy liquid fuel.

(u) Units designed to burn light liquid fuel.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7163, Jan. 31, 2013]

 # 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7500]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What emission limits, work practice standards, and operating limits must I meet?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7500 What emission limitations, work practice standards, and operating limits must I meet?

(a) You must meet the requirements in paragraphs (a)(1) through (3), below, except as provided in paragraphs (b) through (e), below. You must meet these requirements at all times the affected unit is operating, except as provided in paragraph (f), below.

(1) You must meet each emission limit and work practice standard in Tables 1 through 3, and 11 through 13 to MACT Subpart DDDDD that applies to your boiler or process heater, for each boiler or process heater at your source, except as provided under §63.7522. The output-based emission limits, in units of pounds per million BTU of steam output, in Tables 1 or 2 to MACT Subpart DDDDD are an alternative applicable only to boilers and process heaters that generate either steam, cogenerate steam with electricity, or both. The output-based emission limits, in units of pounds per megawatt-hour, in Tables 1 or 2 to MACT Subpart DDDDD are an alternative applicable only to boilers that generate only electricity. Boilers that perform multiple functions (cogeneration and electricity generation) or supply steam to common headers would calculate a total steam energy output using Equation 21 of §63.7575 to demonstrate compliance with the output-based emission limits, in units of pounds per million BTU of steam output, in Tables 1 or 2 to MACT Subpart DDDDD. If you operate a new boiler or process heater, you can choose to comply with alternative limits as discussed in paragraphs (a)(1)(i) through (iii), below, but on or after January 31, 2016, you must comply with the emission limits in Table 1 to MACT Subpart DDDDD. [NOTE: THE BOILER IS SUBJECT TO THE EMISSION LIMITS IN TABLE 2 AND THE WORK PRACTICE

SECTION E. Source Group Restrictions.

STANDARDS IN TABLE 3; THE EMISSION LIMITS IN TABLE 1, AS WELL AS THE ALTERNATIVE EMISSION LIMITS IN TABLES 11, 12 & 13, ARE NOT APPLICABLE; THE APPLICABLE REQUIREMENTS OF TABLES 2 & 3 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(i) [N/A - THE BOILER COMMENCED CONSTRUCTION ON OR BEFORE JUNE 4, 2010]

(ii) [N/A - THE BOILER COMMENCED CONSTRUCTION BEFORE MAY 20, 2011]

(iii) [N/A - THE BOILER COMMENCED CONSTRUCTION BEFORE DECEMBER 23, 2011]

(2) You must meet each operating limit in Table 4 to MACT Subpart DDDDD that applies to your boiler or process heater. If you use a control device or combination of control devices not covered in Table 4 to MACT Subpart DDDDD, or you wish to establish and monitor an alternative operating limit or an alternative monitoring parameter, you must apply to the EPA Administrator for approval of alternative monitoring under §63.8(f). [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 4 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(3) At all times, you must operate and maintain any affected source (as defined in §63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(b) As provided in §63.6(g), EPA may approve use of an alternative to the work practice standards in this section (§63.7500).

(c) [N/A - THE BOILER IS NOT A LIMITED-USE BOILER]

(d) [N/A - THE BOILER HAS A HEAT INPUT CAPACITY GREATER THAN 5 mmBTU/hr AND IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(e) [N/A - THE BOILER HAS A HEAT INPUT CAPACITY GREATER THAN OR EQUAL TO 10 mmBTU/hr AND IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(f) These standards apply at all times the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with Nos. (5) and (6) of Table 3 to MACT Subpart DDDDD.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7163, Jan. 31, 2013; 80 FR 72807, Nov. 20, 2015]

Table 2 (Emission Limits for Existing Boilers and Process Heaters) to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

As stated in §63.7500, you must comply with the following applicable emission limits (units with heat input capacity of 10 mmBTU/hr or greater):

(1) For units in all subcategories designed to burn solid fuel:

(a) HCl = 0.022 lb/mmBTU of heat input, except during startup and shutdown (for Method 26A, collect a minimum of 1 dscm per run; for Method 26, collect a minimum of 120 liters per run); or

HCl = 0.025 lb/mmBTU of steam output, except during startup and shutdown (for Method 26A, collect a minimum of 1 dscm per run; for Method 26, collect a minimum of 120 liters per run).

(b) Mercury (Hg) = 0.0000057 lb/mmBTU of heat input, except during startup and shutdown (for Method 29, collect a minimum of 3 dscm per run; for Method 30A or M30B, collect a minimum sample as specified in the method; for ASTM

SECTION E. Source Group Restrictions.

D6784* collect a minimum of 3 dscm); or

Mercury (Hg) = 0.0000064 lb/mmBTU of steam output, except during startup and shutdown (for Method 29, collect a minimum of 3 dscm per run; for Method 30A or M30B, collect a minimum sample as specified in the method; for ASTM D6784* collect a minimum of 3 dscm).

(7) For stokers/sloped grate/others designed to burn wet biomass fuel:

(a) CO = 1,500 ppmvd corrected to 3% oxygen, except during startup and shutdown (3-run average; 1-hour minimum sampling time); or

CO = 1.4 lb/mmBTU of steam output, except during startup and shutdown (3-run average; 1-hour minimum sampling time).

(b) Filterable PM (FPM) = 0.037 lb/mmBTU of heat input, except during startup and shutdown (collect a minimum of 2 dscm per run); or total selected metals (TSM) = 0.00024 lb/mmBTU of heat input, except during startup and shutdown (collect a minimum of 2 dscm per run); or

FPM = 0.043 lb/mmBTU of steam output, except during startup and shutdown (collect a minimum of 2 dscm per run); or TSM = 0.00028 lb/mmBTU of steam output, except during startup and shutdown (collect a minimum of 2 dscm per run).

Footnotes:

* Incorporated by reference (see §63.14)

** An owner or operator may request an alternative test method under §63.7 in order that compliance with the carbon monoxide (CO) emissions limit be determined using carbon dioxide (CO2) as a diluent correction in place of oxygen at 3%. EPA Method 19 F-factors and EPA Method 19 equations must be used to generate the appropriate CO2 correction percentage for the fuel type burned in the unit, and must also take into account that the 3% oxygen correction is to be done on a dry basis. The alternative test method request must account for any CO2 being added to, or removed from, the emissions gas stream as a result of limestone injection, scrubber media, etc.

[78 FR 7195, Jan. 31, 2013, as amended at 80 FR 72821, Nov. 20, 2015]

Table 3 (Work Practice Standards) to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

As stated in §63.7500, you must comply with the following applicable work practice standards:

(1) [N/A - THE BOILER: IS NOT EQUIPPED WITH A CONTINUOUS OXYGEN TRIM SYSTEM; HAS A HEAT INPUT CAPACITY GREATER THAN 5 mmBTU/hr; AND IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(2) [N/A - THE BOILER HAS A HEAT INPUT CAPACITY GREATER THAN OR EQUAL TO 10 mmBTU/hr AND IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(3) For an existing boiler without a continuous oxygen trim system and with a heat input capacity of 10 mmBTU/hr or greater:

You must meet the following:

Conduct a tune-up of the boiler or process heater annually as specified in §63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions under MACT Subpart DDDDD. Units in all other subcategories will conduct this tune-up as a work practice for dioxins/furans. [NOTE: THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

SECTION E. Source Group Restrictions.

(4) For an existing boiler located at a major source facility, not including limited-use units:

You must meet the following:

Must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in this table (Table 3 to MACT Subpart DDDDD) satisfies the energy assessment requirement. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and the compliance date specified in §63.7495 that includes the affected unit(s) also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items (a) to (e) appropriate for the on-site technical hours listed in §63.7575:

(a) A visual inspection of the boiler or process heater system.

(b) An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.

(c) An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator.

(d) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.

(e) A review of the facility's energy management program and provide recommendations for improvements consistent with the definition of energy management program, if identified.

(f) A list of cost-effective energy conservation measures that are within the facility's control.

(g) A list of the energy savings potential of the energy conservation measures identified.

(h) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time-frame for recouping those investments.

(5) For an existing boiler subject to emission limits in Table 2 to MACT Subpart DDDDD during startup [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED ABOVE, UNDER §63.7500]:

You must meet the following:

(a) You must operate all CMS during startup.

(b) For startup of a boiler or process heater, you must use one or a combination of the following clean fuels: natural gas, synthetic natural gas, propane, other Gas 1 fuels, distillate oil, syngas, ultra-low sulfur diesel, fuel oil-soaked rags, kerosene, hydrogen, paper, cardboard, refinery gas, liquefied petroleum gas, clean dry biomass, and any fuels meeting the appropriate HCl, mercury and TSM emission standards by fuel analysis.

(c) You have the option of complying using either of the following work practice standards.

(1) If you choose to comply using definition (1) of “startup” in §63.7575, once you start firing fuels that are not clean fuels, you must vent emissions to the main stack(s) and engage all of the applicable control devices except limestone injection in fluidized bed combustion (FBC) boilers, dry scrubber, fabric filter, and selective catalytic reduction (SCR). You must start your limestone injection in FBC boilers, dry scrubber, fabric filter, and SCR systems as expeditiously as possible. Startup ends when steam or heat is supplied for any purpose, OR

(2) If you choose to comply using definition (2) of “startup” in §63.7575, once you start to feed fuels that are not clean fuels, you must vent emissions to the main stack(s) and engage all of the applicable control devices so as to comply with the emission limits within four (4) hours of start of supplying useful thermal energy. You must engage and operate PM control within one hour of first feeding fuels that are not clean fuels*. You must start all applicable control devices as

SECTION E. Source Group Restrictions.

expeditiously as possible, but, in any case, when necessary to comply with other standards applicable to the source by a permit limit or a rule other than MACT Subpart DDDDD that require operation of the control devices. You must develop and implement a written startup and shutdown plan, as specified in §63.7505(e).

(d) You must comply with all applicable emission limits at all times except during startup and shutdown periods at which time you must meet this work practice. You must collect monitoring data during periods of startup, as specified in §63.7535(b). You must keep records during periods of startup. You must provide reports concerning activities and periods of startup, as specified in §63.7555.

(6) For an existing boiler subject to emission limits in Table 2 to MACT Subpart DDDDD during shutdown [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED ABOVE, UNDER §63.7500]:

You must meet the following:

(a) You must operate all CMS during shutdown.

(b) While firing fuels that are not clean fuels during shutdown, you must vent emissions to the main stack(s) and operate all applicable control devices, except limestone injection in FBC boilers, dry scrubber, fabric filter, and SCR but, in any case, when necessary to comply with other standards applicable to the source that require operation of the control device.

(c) If, in addition to the fuel used prior to initiation of shutdown, another fuel must be used to support the shutdown process, that additional fuel must be one or a combination of the following clean fuels: natural gas, synthetic natural gas, propane, other Gas 1 fuels, distillate oil, syngas, ultra-low sulfur diesel, refinery gas, and liquefied petroleum gas.

(d) You must comply with all applicable emissions limits at all times except for startup or shutdown periods conforming with this work practice. You must collect monitoring data during periods of shutdown, as specified in §63.7535(b). You must keep records during periods of shutdown. You must provide reports concerning activities and periods of shutdown, as specified in §63.7555.

Footnote:

* As specified in §63.7555(d)(13), the source may request an alternative time-frame with the PM controls requirement to the permitting authority (state, local, or tribal agency) that has been delegated authority for MACT Subpart DDDDD by U.S. EPA. The source must provide evidence that (1) it is unable to safely engage and operate the PM control(s) to meet the “fuel firing + 1 hour” requirement and (2) the PM control device is appropriately designed and sized to meet the filterable PM emission limit. It is acknowledged that there may be another control device that has been installed other than ESP that provides additional PM control (e.g., scrubber).

[78 FR 7198, Jan. 31, 2013, as amended at 80 FR 72823, Nov. 20, 2015]

Table 4 (Operating Limits for Boilers and Process Heaters) to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

As stated in §63.7500, you must comply with the following applicable operating limits:

(1) When complying with a Table 2 numerical emission limit using a wet particulate matter (PM) scrubber control on a boiler or process heater not using a PM continuous parameter monitoring system (CPMS), you must meet these operating limits: Maintain the 30-day rolling average pressure drop and the 30-day rolling average liquid flow rate at or above the lowest one-hour average pressure drop and the lowest one-hour average liquid flow rate, respectively, measured during the performance test demonstrating compliance with the PM emission limitation according to §63.7530(b) and Table 7 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED ABOVE, UNDER §63.7500; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 7 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, BELOW]

SECTION E. Source Group Restrictions.

(2) [N/A - THE BOILER DOES NOT OPERATE A WET ACID GAS (HCl) SCRUBBER CONTROL AS DEFINED BY THIS TABLE SINCE THE SCRUBBER DOES NOT USE AN ALKALINE SLURRY/SOLUTION AS ITS SCRUBBING MEDIA; THE SCRUBBING MEDIA IS A WATER SOLUTION]

(3) [N/A - THE BOILER DOES NOT OPERATE A FABRIC FILTER CONTROL]

(4) When complying with a Table 2 numerical emission limit using an electrostatic precipitator (ESP) control on a boiler or process heater not using a PM CPMS, you must meet these operating limits [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED ABOVE, UNDER §63.7500]:

(a) [N/A - THE BOILER DOES NOT OPERATE A DRY CONTROL SYSTEM (i.e., AN ESP WITHOUT A WET SCRUBBER)]

(b) This option is only for boilers and process heaters not subject to PM CPMS or continuous compliance with an opacity limit (i.e., dry ESP). Maintain the 30-day rolling average total secondary electric power input of the ESP at or above the operating limits established during the performance test according to §63.7530(b) and Table 7 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 7 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, BELOW]

(5) [N/A - THE BOILER DOES NOT OPERATE A DRY SCRUBBER OR CARBON INJECTION CONTROL]

(6) [N/A - THE BOILER DOES NOT OPERATE A DRY CONTROL SYSTEM (i.e., A MULTICLONE WITHOUT A WET SCRUBBER)]

(7) When complying with a Table 2 numerical emission limit using performance testing, you must meet these operating limits: For boilers and process heaters that demonstrate compliance with a performance test, maintain the 30-day rolling average operating load of each unit such that it does not exceed 110% of the highest hourly average operating load recorded during the performance test. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED ABOVE, UNDER §63.7500]

(8) When complying with a Table 2 numerical emission limit using an oxygen analyzer system, you must meet these operating limits: For boilers and process heaters subject to a CO emission limit that demonstrate compliance with an oxygen analyzer system as specified in §63.7525(a), maintain the 30-day rolling average oxygen content at or above the lowest hourly average oxygen concentration measured during the CO performance test, as specified in Table 8 to MACT Subpart DDDDD. This requirement does not apply to units that install an oxygen trim system since these units will set the trim system to the level specified in §63.7525(a). [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED ABOVE, UNDER §63.7500; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 8 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7540, BELOW]

(9) [N/A - THE BOILER DOES NOT OPERATE AN SO2 CEMS]

[80 FR 72874, Nov. 20, 2015]

 # 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7505]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What are my general requirements for complying with this subpart?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7505 What are my general requirements for complying with MACT Subpart DDDDD?

(a) You must be in compliance with the emission limits, work practice standards, and operating limits in MACT Subpart DDDDD. These emission and operating limits apply to you at all times the affected unit is operating except for the periods noted in §63.7500(f).

(b) [Reserved]

(c) You must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or

SECTION E. Source Group Restrictions.

continuous monitoring systems (CMS), including a continuous emission monitoring system (CEMS), or particulate matter continuous parameter monitoring system (PM CPMS), where applicable. You may demonstrate compliance with the applicable emission limit for hydrogen chloride (HCl), mercury (Hg), or total selected metals (TSM) using fuel analysis if the emission rate calculated according to §63.7530(c) is less than the applicable emission limit. (For gaseous fuels, you may not use fuel analyses to comply with the TSM alternative standard or the HCl standard.) Otherwise, you must demonstrate compliance for HCl, mercury, or TSM using performance stack testing, if subject to an applicable emission limit listed in Tables 1, 2, or 11 through 13 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(d) If you demonstrate compliance with any applicable emission limit through performance testing and subsequent compliance with operating limits through the use of CPMS, or with a CEMS or COMS, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4), below, for the use of any CEMS, COMS, or CPMS. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).

(1) For each CMS required in this section (§63.7505), including CEMS, COMS, or CPMS, you must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses design, data collection, and the quality assurance and quality control elements outlined in §63.8(d) and the elements described in paragraphs (d)(1)(i) through (iii), below. You must submit this site-specific monitoring plan, if requested, at least 60 days before your initial performance evaluation of your CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under Appendix B to 40 CFR Part 60 and that meet the requirements of §63.7525. Using the process described in §63.8(f)(4), you may request approval of alternative monitoring system quality assurance and quality control procedures in place of those specified in this paragraph and, if approved, include the alternatives in your site-specific monitoring plan.

(i) Installation of the CMS 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 (e.g., 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; and

(iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations, accuracy audits, analytical drift).

(2) In your site-specific monitoring plan, you must also address paragraphs (d)(2)(i) through (iii), below.

(i) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1)(ii), (c)(3), and (c)(4)(ii);

(ii) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c) (as applicable in Table 10 to MACT Subpart DDDDD), (e)(1), and (e)(2)(i).

(3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan.

(4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.

(e) If you have an applicable emission limit and you choose to comply using definition (2) of “startup” in §63.7575, you must develop and implement a written startup and shutdown plan (SSP) according to the requirements in Table 3 to MACT Subpart DDDDD. The SSP must be maintained on-site and available upon request for public inspection. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 3 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7164, Jan. 31, 2013; 80 FR 72807, Nov. 20, 2015]

 # 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7510]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

SECTION E. Source Group Restrictions.

What are my initial compliance requirements and by what date must I conduct them?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7510 What are my initial compliance requirements and by what date must I conduct them?

(a) For each boiler or process heater that is required or that you elect to demonstrate compliance with any of the applicable emission limits in Tables 1 or 2 or 11 through 13 of MACT Subpart DDDDD through performance (stack) testing, your initial compliance requirements include all of the following [NOTE: THE INITIAL BOILER PERFORMANCE (STACK) TEST OCCURRED IN MAY 2017 AND DEMONSTRATED INITIAL COMPLIANCE WITH ALL APPLICABLE EMISSION LIMITS OF TABLE 2 TO MACT SUBPART DDDDD; ALSO, THE APPLICABLE EMISSION LIMITS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]:

(1) Conduct performance tests according to §63.7520 and Table 5 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 5 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, BELOW]

(2) Conduct a fuel analysis for each type of fuel burned in your boiler or process heater according to §63.7521 and Table 6 to MACT Subpart DDDDD, except as specified in paragraphs (a)(2)(i) through (iii), below. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7521, BELOW]

(i) [N/A - THE BOILER DOES NOT BURN A SINGLE TYPE OF FUEL]

(ii) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS]

(iii) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS]

(3) Establish operating limits according to §63.7530 and Table 7 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 7 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, BELOW]

(4) Conduct CMS performance evaluations according to §63.7525.

(b) For each boiler or process heater that you elect to demonstrate compliance with the applicable emission limits in Tables 1 or 2 or 11 through 13 to MACT Subpart DDDDD for HCl, mercury, or total selected metals (TSM) through fuel analysis, your initial compliance requirement is to conduct a fuel analysis for each type of fuel burned in your boiler or process heater according to §63.7521 and Table 6 to MACT Subpart DDDDD and establish operating limits according to §63.7530 and Table 7 to MACT Subpart DDDDD. The fuels described in paragraph (a)(2)(i) and (ii), above, are exempt from these fuel analysis and operating limit requirements. The fuels described in paragraph (a)(2)(iii), above, are exempt from the chloride fuel analysis and operating limit requirements. Boilers and process heaters that use a CEMS for mercury or HCl are exempt from the performance testing and operating limit requirements specified in paragraph (a), above, for the HAP(s) for which CEMS are used. [NOTE: THE PERMITTEE ELECTED TO DEMONSTRATE INITIAL COMPLIANCE WITH THE APPLICABLE HCl AND MERCURY EMISSION LIMITS VIA A BOILER PERFORMANCE (STACK) TEST THAT OCCURRED IN MAY 2017 THAT DEMONSTRATED INITIAL COMPLIANCE WITH THE APPLICABLE EMISSION LIMITS OF TABLE 2 TO MACT SUBPART DDDDD; ALSO, THE BOILER DOES NOT OPERATE A Hg or HCl CEMS; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE; ALSO, THE APPLICABLE REQUIREMENTS OF TABLES 6 & 7 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7521 AND §63.7520, RESPECTIVELY, BELOW]

(c) If your boiler or process heater is subject to a carbon monoxide (CO) limit, your initial compliance demonstration for CO is to conduct a performance test for CO according to Table 5 to MACT Subpart DDDDD or conduct a performance evaluation of your continuous CO monitor, if applicable, according to §63.7525(a). Boilers and process heaters that use a CO CEMS to comply with the applicable alternative CO CEMS emission standard listed in Tables 1, 2, or 11 through 13 to MACT Subpart DDDDD, as specified in §63.7525(a), are exempt from the initial CO performance testing and oxygen concentration operating limit requirements specified in paragraph (a), above. [NOTE: THE INITIAL BOILER PERFORMANCE (STACK) TEST OCCURRED IN MAY 2017 AND DEMONSTRATED INITIAL COMPLIANCE WITH THE APPLICABLE CO EMISSION LIMIT OF TABLE 2 TO MACT SUBPART DDDDD; ALSO, THE BOILER DOES NOT OPERATE A CO CEMS; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 5 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, BELOW]

SECTION E. Source Group Restrictions.

(d) If your boiler or process heater is subject to a PM limit, your initial compliance demonstration for PM is to conduct a performance test in accordance with §63.7520 and Table 5 to MACT Subpart DDDDD. [NOTE: THE INITIAL BOILER PERFORMANCE (STACK) TEST OCCURRED IN MAY 2017 AND DEMONSTRATED INITIAL COMPLIANCE WITH THE APPLICABLE FILTERABLE PM EMISSION LIMIT OF TABLE 2 TO MACT SUBPART DDDDD; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 5 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, BELOW]

(e) For existing affected sources (as defined in §63.7490), you must complete the initial compliance demonstrations, as specified in paragraphs (a) through (d), above, no later than 180 days after the compliance date that is specified for your source in §63.7495 and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to MACT Subpart DDDDD, except as specified in paragraph (j), below. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in §63.7495, except as specified in paragraph (j), below. You must complete the one-time energy assessment specified in Table 3 to MACT Subpart DDDDD no later than the compliance date specified in §63.7495. [NOTE: THE RELEVANT COMPLIANCE DATE FOR THE BOILER WAS JANUARY 31, 2017 PURSUANT TO SECTION E (GROUP 003), CONDITION #006(b), ABOVE; THE PERMITTEE COMPLETED THE INITIAL BOILER TUNE-UP ON SEPTEMBER 23, 2015; THE PERMITTEE COMPLETED THE ONE-TIME BOILER ENERGY ASSESSMENT ON JANUARY 25, 2016; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 3 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(f) [N/A - THE BOILER IS DEFINED AS EXISTING PURSUANT TO §63.7490(d)]

(g) [N/A - THE BOILER IS DEFINED AS EXISTING PURSUANT TO §63.7490(d)]

(h) [N/A - THE BOILER DOES NOT BURN SOLID WASTE]

(i) [N/A - THE BOILER IS NOT DEFINED AS AN EGU]

(j) [N/A - THE BOILER HAS OPERATED BETWEEN THE MACT SUBPART DDDDD's EFFECTIVE DATE AND THE JANUARY 31, 2017 COMPLIANCE DATE]

(k) For affected sources, as defined in §63.7490, that switch subcategories consistent with §63.7545(h) after the initial compliance date, you must demonstrate compliance within 60 days of the effective date of the switch, unless you had previously conducted your compliance demonstration for this subcategory within the previous 12 months.

[78 FR 7164, Jan. 31, 2013, as amended at 80 FR 72808, Nov. 20, 2015]

 # 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7515]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

When must I conduct subsequent performance tests or fuel analyses, or tune-ups?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7515 When must I conduct subsequent performance tests, fuel analyses, or tune-ups?

(a) You must conduct all applicable performance tests according to §63.7520 on an annual basis, except as specified in paragraphs (b) through (e), (g), and (h), below. Annual performance tests must be completed no more than 13 months after the previous performance test, except as specified in paragraphs (b) through (e), (g), and (h), below.

(b) If your performance tests for a given pollutant for at least 2 consecutive years show that your emissions are at or below 75% of the emission limit (or, in limited instances as specified in Tables 1 and 2 or 11 through 13 to MACT Subpart DDDDD, at or below the emission limit) for the pollutant, and if there are no changes in the operation of the individual boiler or process heater or air pollution control equipment that could increase emissions, you may choose to conduct performance tests for the pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test. If you elect to demonstrate compliance using emission averaging under §63.7522, you must continue to conduct performance tests annually. The requirement to test at maximum chloride input level is waived unless the stack test is conducted for HCl. The requirement to test at maximum mercury input level is waived unless the stack test is conducted for mercury. The requirement to test at maximum TSM input level is waived unless the stack test is conducted for TSM. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART

SECTION E. Source Group Restrictions.

DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(c) If a performance test shows emissions exceeded the emission limit or 75% of the emission limit (as specified in Tables 1 and 2 or 11 through 13 to MACT Subpart DDDDD) for a pollutant, you must conduct annual performance tests for that pollutant until all performance tests over a consecutive 2-year period meet the required level (at or below 75% of the emission limit, as specified in Tables 1 and 2 or 11 through 13 to MACT Subpart DDDDD). [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(d) If you are required to meet an applicable tune-up work practice standard, you must conduct an annual, biennial, or 5-year performance tune-up according to §63.7540(a)(10), (11), or (12), respectively. Each annual tune-up specified in §63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in §63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in §63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after April 1, 2013 or the initial startup of the new or reconstructed affected source, whichever is later.

(e) If you demonstrate compliance with the mercury, HCl, or TSM emission limit based on fuel analysis, you must conduct a monthly fuel analysis according to §63.7521 for each type of fuel burned that is subject to an emission limit in Tables 1, 2, or 11 through 13 to MACT Subpart DDDDD. You may comply with this monthly requirement by completing the fuel analysis any time within the calendar month as long as the analysis is separated from the previous analysis by at least 14 calendar days. If you burn a new type of fuel, you must conduct a fuel analysis before burning the new type of fuel in your boiler or process heater. You must still meet all applicable continuous compliance requirements in §63.7540. If each of 12 consecutive monthly fuel analyses demonstrates 75% or less of the compliance level, you may decrease the fuel analysis frequency to quarterly for that fuel. If any quarterly sample exceeds 75% of the compliance level or you begin burning a new type of fuel, you must return to monthly monitoring for that fuel until 12 months of fuel analyses are again less than 75% of the compliance level. If sampling is conducted on one day per month, samples should be no less than 14 days apart, but if multiple samples are taken per month, the 14-day restriction does not apply. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(f) You must report the results of performance tests and the associated fuel analyses within 60 days after the completion of the performance tests. This report must also verify that the operating limits for each boiler or process heater have not changed or provide documentation of revised operating limits established according to §63.7530 and Table 7 to MACT Subpart DDDDD, as applicable. The reports for all subsequent performance tests must include all applicable information required in §63.7550. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 7 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, ABOVE]

(g) For affected sources (as defined in §63.7490) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, you must complete the subsequent compliance demonstration, if subject to the emission limits in Tables 1, 2, or 11 through 13 to MACT Subpart DDDDD, no later than 180 days after the re-start of the affected source and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to MACT Subpart DDDDD. You must complete a subsequent tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) and the schedule described in §63.7540(a)(13) for units that are not operating at the time of their scheduled tune-up. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(h) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(i) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

[78 FR 7165, Jan. 31, 2013, as amended at 80 FR 72808, Nov. 20, 2015]

 # 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7520]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What performance tests and procedures must I use?

SECTION E. Source Group Restrictions.

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7520 What stack tests and procedures must I use?

(a) You must conduct all performance tests according to §63.7(c), (d), (f), and (h). You must also develop a site-specific stack test plan according to the requirements in §63.7(c). You shall conduct all performance tests under such conditions as the Administrator specifies to you based on the representative performance of each boiler or process heater for the period being tested. Upon request, you shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests.

(b) You must conduct each performance test according to the requirements in Table 5 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 5 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(c) You must conduct each performance test under the specific conditions listed in Tables 5 and 7 to MACT Subpart DDDDD. You must conduct performance tests at representative operating load conditions while burning the type of fuel or mixture of fuels that has the highest content of chlorine and mercury, and TSM if you are opting to comply with the TSM alternative standard and you must demonstrate initial compliance and establish your operating limits based on these performance tests. These requirements could result in the need to conduct more than one performance test. Following each performance test and until the next performance test, you must comply with the operating limit for operating load conditions specified in Table 4 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLES 5 & 7 TO MACT SUBPART DDDDD ARE LISTED BELOW; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 4 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(d) You must conduct a minimum of three (3) separate test runs for each performance test required in this section (§63.7520), as specified in §63.7(e)(3). Each test run must comply with the minimum applicable sampling times or volumes specified in Tables 1 and 2 or 11 through 13 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(e) To determine compliance with the emission limits, you must use the F-Factor methodology and equations in Sections 12.2 and 12.3 of EPA Method 19 at Appendix A-7 to 40 CFR Part 60 to convert the measured particulate matter (PM) concentrations, the measured HCl concentrations, the measured mercury concentrations, and the measured TSM concentrations that result from the performance test to lb/mmBTU heat input emission rates.

(f) Except for a 30-day rolling average based on CEMS (or sorbent trap monitoring system) data, if measurement results for any pollutant are reported as below the method detection level (e.g., laboratory analytical results for one or more sample components are below the method defined analytical detection level), you must use the method detection level as the measured emissions level for that pollutant in calculating compliance. The measured result for a multiple component analysis (e.g., analytical values for multiple Method 29 fractions both for individual HAP metals and for total HAP metals) may include a combination of method detection level data and analytical data reported above the method detection level.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7166, Jan. 31, 2013]

Table 5 (Performance Testing Requirements) to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

As stated in §63.7520, you must comply with the following applicable requirements for performance testing for existing affected sources:

(1) To conduct a performance test for filterable particulate matter (PM), you must perform the following activities:

(a) Select sampling ports location and the number of traverse points using Method 1 at Appendix A-1 to 40 CFR Part 60.

(b) Determine velocity and volumetric flow rate of the stack gas using Method 2, 2F or 2G at Appendix A-1 or A-2 to 40 CFR Part 60.

SECTION E. Source Group Restrictions.

(c) Determine oxygen or carbon dioxide concentration of the stack gas using Method 3A or 3B at Appendix A-2 to 40 CFR Part 60, or ANSI/ASME PTC 19.10–1981*.

(d) Measure the moisture content of the stack gas using Method 4 at Appendix A-3 to 40 CFR Part 60.

(e) Measure the filterable PM emission concentration using Method 5 or 17 (positive pressure fabric filters must use Method 5D) at Appendix A-3 or A-6 to 40 CFR Part 60.

(f) Convert emissions concentration to lb/mmBTU emission rates using Method 19 F-factor methodology at Appendix A-7 to 40 CFR Part 60.

(2) To conduct a performance test for total selected metals (TSM), you must perform the following activities:

(a) Select sampling ports location and the number of traverse points using Method 1 at Appendix A-1 to 40 CFR Part 60.

(b) Determine velocity and volumetric flow rate of the stack gas using Method 2, 2F or 2G at Appendix A-1 or A-2 to 40 CFR Part 60.

(c) Determine oxygen or carbon dioxide concentration of the stack gas using Method 3A or 3B at Appendix A-2 to 40 CFR Part 60, or ANSI/ASME PTC 19.10–1981*.

(d) Measure the moisture content of the stack gas using Method 4 at Appendix A-3 to 40 CFR Part 60.

(e) Measure the TSM emission concentration using Method 29 at Appendix A-8 to 40 CFR Part 60.

(f) Convert emissions concentration to lb/mmBTU emission rates using Method 19 F-factor methodology at Appendix A-7 to 40 CFR Part 60.

(3) To conduct a performance test for hydrogen chloride (HCl), you must perform the following activities:

(a) Select sampling ports location and the number of traverse points using Method 1 at Appendix A-1 to 40 CFR Part 60.

(b) Determine velocity and volumetric flow rate of the stack gas using Method 2, 2F or 2G at Appendix A-1 or A-2 to 40 CFR Part 60.

(c) Determine oxygen or carbon dioxide concentrations of the stack gas using Method 3A or 3B at Appendix A-2 to 40 CFR Part 60, or ANSI/ASME PTC 19.10–1981*.

(d) Measure the moisture content of the stack gas using Method 4 at Appendix A-3 to 40 CFR Part 60.

(e) Measure the HCl emission concentration using Method 26 or Method 26A at Appendix A-8 to 40 CFR Part 60.

(f) Convert emissions concentration to lb/mmBTU emission rates using Method 19 F-factor methodology at Appendix A-7 to 40 CFR Part 60.

(4) To conduct a performance test for mercury (Hg), you must perform the following activities:

(a) Select sampling ports location and the number of traverse points using Method 1 at Appendix A-1 to 40 CFR Part 60.

(b) Determine velocity and volumetric flow rate of the stack gas using Method 2, 2F or 2G at Appendix A-1 or A-2 to 40 CFR Part 60.

(c) Determine oxygen or carbon dioxide concentration of the stack gas using Method 3A or 3B at Appendix A-2 to 40 CFR Part 60, or ANSI/ASME PTC 19.10–1981*.

(d) Measure the moisture content of the stack gas using Method 4 at Appendix A-3 to 40 CFR Part 60.

SECTION E. Source Group Restrictions.

(e) Measure the Hg emission concentration using Method 29, 30A or 30B at Appendix A-8 to 40 CFR Part 60, or Method 101A at Appendix B to 40 CFR Part 61, or ASTM Method D6784*.

(f) Convert emissions concentration to lb/mmBTU emission rates using Method 19 F-factor methodology at Appendix A-7 to 40 CFR Part 60.

(5) To conduct a performance test for carbon monoxide (CO), you must perform the following activities:

(a) Select sampling ports location and the number of traverse points using Method 1 at Appendix A-1 to 40 CFR Part 60.

(b) Determine oxygen concentration of the stack gas using Method 3A or 3B at Appendix A-2 to 40 CFR Part 60, or ASTM D6522-00 (Reapproved 2005), or ANSI/ASME PTC 19.10–1981*.

(c) Measure the moisture content of the stack gas using Method 4 at Appendix A-3 to 40 CFR Part 60.

(d) Measure the CO emission concentration using Method 10 at Appendix A-4 to 40 CFR Part 60. Use a measurement span value of 2 times the concentration of the applicable emission limit.

Footnote:

* Incorporated by reference (see 40 CFR §63.14)

[78 FR 7198, Jan. 31, 2013, as amended at 80 FR 72823, Nov. 20, 2015]

Table 7 (Establishing Operating Limits*,**) to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

As stated in §63.7520, you must comply with the following requirements for establishing operating limits:

[NOTE: OPERATING PARAMETER LIMITS ARE RE-ESTABLISHED FOLLOWING EACH COMPLIANT ANNUAL (OR TRIENNIAL [AS PROVIDED BY 40 CFR §63.7515(b)]) PERFORMANCE TEST]

(1)(a) If you have an applicable emission limit for PM, TSM or mercury, and your operating limits are based on wet scrubber operating parameters, you must establish a site-specific minimum scrubber pressure drop and minimum flow rate operating limit according to §63.7530(b) using data from the scrubber pressure drop and liquid flow rate monitors and the PM, TSM or mercury performance test according to the following requirements:

(i) You must collect scrubber pressure drop and liquid flow rate data every 15 minutes during the entire period of the performance tests.

(ii) Determine the lowest hourly average scrubber pressure drop and liquid flow rate by computing the hourly averages using all of the 15-minute readings taken during each performance test.

(1)(b) If you have an applicable emission limit for PM, TSM or mercury, and your operating limits are based on electrostatic precipitator (ESP) operating parameters (option only for units that operate wet scrubbers), you must establish a site-specific minimum total secondary electric power input according to §63.7530(b) using data from the voltage and secondary amperage monitors during the PM or mercury performance test according to the following requirements:

(i) You must collect secondary voltage and secondary amperage for each ESP cell and calculate total secondary electric power input data every 15 minutes during the entire period of the performance tests.

(ii) Determine the average total secondary electric power input by computing the hourly averages using all of the 15-minute readings taken during each performance test.

(4) If you have an applicable emission limit for carbon monoxide (CO) for which compliance is demonstrated by a

SECTION E. Source Group Restrictions.

performance test, and your operating limits are based on oxygen (O2), you must establish a unit-specific limit for minimum O2 level according to §63.7530(b) using data from the O2 analyzer system specified in §63.7525(a) according to the following requirements:

(a) You must collect oxygen data every 15 minutes during the entire period of the performance tests.

(b) Determine the hourly average oxygen concentration by computing the hourly averages using all of the 15-minute readings taken during each performance test.

(c) Determine the lowest hourly average established during the performance test as your minimum operating limit.

(5) If you have an applicable emission limit for any pollutant for which compliance is demonstrated by a performance test, and your operating limits are based on boiler or process heater operating load, you must establish a unit-specific limit for maximum operating load according to §63.7520(c) using data from the operating load monitors or from steam generation monitors according to the following requirements:

(a) You must collect operating load or steam generation data every 15 minutes during the entire period of the performance test.

(b) Determine the average operating load by computing the hourly averages using all of the 15-minute readings taken during each performance test.

(c) Determine the highest hourly average of the three (3) test run averages during the performance test, and multiply this by 1.1 (i.e., 110%) as your operating limit.

* Operating limits must be confirmed or reestablished during performance tests.

** If you conduct multiple performance tests, you must set the minimum liquid flow rate and pressure drop operating limits at the higher of the minimum values established during the performance tests. For a minimum oxygen level, if you conduct multiple performance tests, you must set the minimum oxygen level at the lower of the minimum values established during the performance tests.

[80 FR 72827, Nov. 20, 2015]

 # 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7521]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What fuel analyses and procedures must I use?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7521 What fuel analyses, fuel specification, and procedures must I use?

(a) For solid and liquid fuels, you must conduct fuel analyses for chloride and mercury according to the procedures in paragraphs (b) through (e), below, and Table 6 to MACT Subpart DDDDD, as applicable. For solid fuels and liquid fuels, you must also conduct fuel analyses for TSM if you are opting to comply with the TSM alternative standard. For gas 2 (other) fuels, you must conduct fuel analyses for mercury according to the procedures in paragraphs (b) through (e), below, and Table 6 to MACT Subpart DDDDD, as applicable. (For gaseous fuels, you may not use fuel analyses to comply with the TSM alternative standard or the HCl standard.) For purposes of complying with this section (§63.7521), a fuel gas system that consists of multiple gaseous fuels collected and mixed with each other is considered a single fuel type and sampling and analysis is only required on the combined fuel gas system that will feed the boiler or process heater. Sampling and analysis of the individual gaseous streams prior to combining is not required. You are not required to conduct fuel analyses for fuels used for only startup, unit shutdown, and transient flame stability purposes. You are required to conduct fuel analyses only for fuels and units that are subject to emission limits for mercury, HCl, or TSM in Tables 1 and 2 or 11 through 13 to MACT Subpart DDDDD. Gaseous and liquid fuels are exempt from the sampling requirements in paragraphs (c) and (d), below. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED BELOW; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

SECTION E. Source Group Restrictions.

(b) You must develop a site-specific fuel monitoring plan according to the following procedures and requirements in paragraphs (b)(1) and (2), below, if you are required to conduct fuel analyses as specified in §63.7510.

(1) If you intend to use an alternative analytical method other than those required by Table 6 to MACT Subpart DDDDD, you must submit the fuel analysis plan to the Administrator for review and approval no later than 60 days before the date that you intend to conduct the initial compliance demonstration described in §63.7510. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(2) You must include the information contained in paragraphs (b)(2)(i) through (vi), below, in your fuel analysis plan.

(i) The identification of all fuel types anticipated to be burned in each boiler or process heater.

(ii) For each anticipated fuel type, the notification of whether you or a fuel supplier will be conducting the fuel analysis.

(iii) For each anticipated fuel type, a detailed description of the sample location and specific procedures to be used for collecting and preparing the composite samples if your procedures are different from paragraph (c) or (d), below. Samples should be collected at a location that most accurately represents the fuel type, where possible, at a point prior to mixing with other dissimilar fuel types.

(iv) For each anticipated fuel type, the analytical methods from Table 6 to MACT Subpart DDDDD, with the expected minimum detection levels, to be used for the measurement of chlorine or mercury. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(v) If you request to use an alternative analytical method other than those required by Table 6 to MACT Subpart DDDDD, you must also include a detailed description of the methods and procedures that you are proposing to use. Methods in Table 6 to MACT Subpart DDDDD shall be used until the requested alternative is approved. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(vi) If you will be using fuel analysis from a fuel supplier in lieu of site-specific sampling and analysis, the fuel supplier must use the analytical methods required by Table 6 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(c) You must obtain composite fuel samples for each fuel type according to the procedures in paragraph (c)(1) or (2), below, or the methods listed in Table 6 to MACT Subpart DDDDD, or use an automated sampling mechanism that provides representative composite fuel samples for each fuel type that includes both coarse and fine material. At a minimum, for demonstrating initial compliance by fuel analysis, you must obtain three composite samples. For monthly fuel analyses, at a minimum, you must obtain a single composite sample. For fuel analyses as part of a performance (stack) test, as specified in §63.7510(a), you must obtain a composite fuel sample during each performance test run. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(1) If sampling from a belt (or screw) feeder, collect fuel samples according to paragraphs (c)(1)(i) and (ii), below.

(i) Stop the belt and withdraw a 6-inch wide sample from the full cross-section of the stopped belt to obtain a minimum two pounds of sample. You must collect all the material (fines and coarse) in the full cross-section. You must transfer the sample to a clean plastic bag.

(ii) Each composite sample will consist of a minimum of three samples collected at approximately equal one-hour intervals during the testing period for sampling during performance (stack) testing.

(2) If sampling from a fuel pile or truck, you must collect fuel samples according to paragraphs (c)(2)(i) through (iii), below.

(i) For each composite sample, you must select a minimum of five (5) sampling locations uniformly spaced over the surface of the pile.

(ii) At each sampling site, you must dig into the pile to a uniform depth of approximately 18 inches. You must insert a clean shovel into the hole and withdraw a sample, making sure that large pieces do not fall off during sampling; use the same shovel to collect all samples.

SECTION E. Source Group Restrictions.

(iii) You must transfer all samples to a clean plastic bag for further processing.

(d) You must prepare each composite sample according to the procedures in paragraphs (d)(1) through (7), below.

(1) You must thoroughly mix and pour the entire composite sample over a clean plastic sheet.

(2) You must break large sample pieces (e.g., larger than 3 inches) into smaller sizes.

(3) You must make a pie shape with the entire composite sample and subdivide it into four equal parts.

(4) You must separate one of the quarter samples as the first subset.

(5) If this subset is too large for grinding, you must repeat the procedure in paragraph (d)(3), above, with the quarter sample and obtain a one-quarter subset from this sample.

(6) You must grind the sample in a mill.

(7) You must use the procedure in paragraph (d)(3), above, to obtain a one-quarter subsample for analysis. If the quarter sample is too large, subdivide it further using the same procedure.

(e) You must determine the concentration of pollutants in the fuel (mercury and/or chlorine and/or TSM) in units of pounds per million BTU (lb/mmBTU) of each composite sample for each fuel type according to the procedures in Table 6 to MACT Subpart DDDDD, for use in Equations 7, 8, and 9 of MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(f) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS]

(g) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS]

(h) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS]

(i) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS]

[78 FR 7167, Jan. 31, 2013, as amended at 80 FR 72808, Nov. 20, 2015]

Table 6 (Fuel Analysis Requirements) to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

As stated in §63.7521, you must comply with the following requirements for fuel analysis testing for existing affected sources. However, equivalent methods (as defined in §63.7575) may be used in lieu of the prescribed methods at the discretion of the source owner or operator.

(1) To conduct a fuel analysis for mercury, you must perform the following activities:

(a) Collect fuel samples using the procedure in §63.7521(c) or ASTM D5192*, or ASTM D7430*, or ASTM D6883*, or ASTM D2234/D2234M* (for coal) or ASTM D6323* (for solid), or ASTM D4177* (for liquid), or ASTM D4057* (for liquid), or equivalent.

(b) Composite fuel samples using the procedure in §63.7521(d) or equivalent.

(c) Prepare composited fuel samples using EPA SW-846-3050B* (for solid samples), ASTM D2013/D2013M* (for coal), ASTM D5198* (for biomass), or EPA 3050* (for solid fuel), or EPA 821-R-01-013* (for liquid or solid), or equivalent.

(d) Determine heat content of the fuel type using ASTM D5865* (for coal) or ASTM E711* (for biomass), or ASTM D5864* (for liquids and other solids), or ASTM D240* or equivalent.

SECTION E. Source Group Restrictions.

(e) Determine moisture content of the fuel type using ASTM D3173*, ASTM E871*, or ASTM D5864*, or ASTM D240*, or ASTM D95* (for liquid fuels), or ASTM D4006* (for liquid fuels), or equivalent.

(f) Measure mercury concentration in fuel sample using ASTM D6722* (for coal), EPA SW-846-7471B* or EPA 1631 or EPA 1631E (for solid samples), or EPA SW-846-7470A* (for liquid samples), or EPA 821-R-01-013 (for liquid or solid), or equivalent.

(g) Convert concentration into units of pounds of mercury per mmBTU of heat content (lb Hg/mmBTU) using Equation 8 in §63.7530.

(2) To conduct a fuel analysis for hydrogen chloride (HCl), you must perform the following activities:

(a) Collect fuel samples using the procedure in §63.7521(c) or ASTM D5192*, or ASTM D7430*, or ASTM D6883*, or ASTM D2234/D2234M* (for coal) or ASTM D6323* (for coal or biomass), or ASTM D4177* (for liquid), or ASTM D4057* (for liquid), or equivalent.

(b) Composite fuel samples using the procedure in §63.7521(d) or equivalent.

(c) Prepare composited fuel samples using EPA SW-846-3050B* (for solid samples), ASTM D2013/D2013M* (for coal), ASTM D5198* (for biomass), or EPA 3050*, or equivalent.

(d) Determine heat content of the fuel type using ASTM D5865* (for coal) or ASTM E711* (for biomass), or ASTM D5864*, or ASTM D240*, or equivalent.

(e) Determine moisture content of the fuel type using ASTM D3173* or ASTM E871*, or ASTM D5864*, or ASTM D240*, or ASTM D95* (for liquid fuels), or ASTM D4006* (for liquid fuels), or equivalent.

(f) Measure chlorine concentration in fuel sample using EPA SW-846-9250*, ASTM 6721*, ASTM D4208* (for coal), or EPA SW-846-5050* or ASTM E776* (for solid fuel), or EPA SW-846-9056* or SW-846-9076* (for solids or liquids), or equivalent.

(g) Convert concentration into units of pounds of HCl per mmBTU of heat content (lb HCl/mmBTU) using, for fuel mixtures, Equation 7 in §63.7530 and convert from chlorine to HCl by multiplying by 1.028.

(4) To conduct a fuel analysis for total selected metals (TSM), you must perform the following activities:

(a) Collect fuel samples using the procedure in §63.7521(c) or ASTM D5192*, or ASTM D7430*, or ASTM D6883*, or ASTM D2234/D2234M* (for coal) or ASTM D6323* (for coal or biomass), or ASTM D4177* (for liquid), or ASTM D4057* (for liquid), or equivalent.

(b) Composite fuel samples using the procedure in §63.7521(d) or equivalent.

(c) Prepare composited fuel samples using EPA SW-846-3050B* (for solid samples), ASTM D2013/D2013M* (for coal), ASTM D5198* or TAPPI (for biomass), or EPA 3050*, or equivalent.

(d) Determine heat content of the fuel type using ASTM D5865* (for coal) or ASTM E711* (for biomass), or ASTM D5864* (for liquids and other solids), or ASTM D240*, or equivalent.

(e) Determine moisture content of the fuel type using ASTM D3173* or ASTM E871*, or ASTM D5864*, or ASTM D240*, or ASTM D95* (for liquid fuels), or ASTM D4006* (for liquid fuels), orASTM D4177* (for liquid fuels) or ASTM D4057* (for liquid fuels), or equivalent.

(f) Measure TSM concentration in fuel sample using ASTM D3683*, orASTM D4606*, or ASTM D6357*, or EPA 200.8*, or EPA SW-846-6020*, or EPA SW-846-6020A*, or EPA SW-846-6010C*, EPA 7060* or EPA 7060A* (for arsenic only), or EPA SW-846-7740* (for selenium only).

(g) Convert concentration into units of pounds of TSM per mmBTU of heat content (lb TSM/mmBTU) using, for fuel mixtures, Equation 9 in §63.7530.

SECTION E. Source Group Restrictions.

Footnote:

* Incorporated by reference (see 40 CFR §63.14)

[78 FR 7198, Jan. 31, 2013, as amended at 80 FR 72823, Nov. 20, 2015]

 # 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7522]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Can I use emission averaging to comply with this subpart?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7522 Can I use emissions averaging to comply with MACT Subpart DDDDD?

(a) As an alternative to meeting the requirements of §63.7500 for PM (or TSM), HCl, or mercury on a boiler or process heater-specific basis, if you have more than one existing boiler or process heater in any subcategories located at your facility, you may demonstrate compliance by emissions averaging if your averaged emissions are not more than 90% of the applicable emission limit, according to the procedures in this section (§63.7522). You may not include new boilers or process heaters in an emissions average.

(b) For a group of two or more existing boilers or process heaters in the same subcategory that each vent to a separate stack, you may average PM (or TSM), HCl, or mercury emissions among existing units to demonstrate compliance with the limits in Table 2 to MACT Subpart DDDDD as specified in paragraph (b)(1) through (3), below, if you satisfy the requirements in paragraphs (c) through (g), below. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(1) [N/A - THE BOILER DOES NOT OPERATE ANY CEMS OR A PM CPMS]

(2) For mercury and HCl, averaging is allowed as follows:

(i) You may average among units in any of the solid fuel subcategories.

(ii) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(iii) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(iv) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(3) For PM (or TSM), averaging is only allowed between units within each of the following subcategories and you may not average across subcategories:

(i) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(ii) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(iii) Stokers/sloped grate/other units designed to burn wet biomass/bio-based solids.

(iv) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(v) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

SECTION E. Source Group Restrictions.

(vi) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(vii) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(viii) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(ix) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(x) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(xi) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(xii) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(c) For each existing boiler or process heater in the averaging group, the emission rate achieved during the initial compliance test for the HAP being averaged must not exceed the emission level that was being achieved on April 1, 2013 or the control technology employed during the initial compliance test must not be less effective for the HAP being averaged than the control technology employed on April 1, 2013.

(d) The averaged emissions rate from the existing boilers and process heaters participating in the emissions averaging option must not exceed 90% of the limits in Table 2 to MACT Subpart DDDDD at all times the affected units are subject to numeric emission limits following the compliance date specified in §63.7495. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(e) You must demonstrate initial compliance according to paragraph (e)(1) or (2), below, using the maximum rated heat input capacity or maximum steam generation capacity of each unit and the results of the initial performance tests or fuel analysis.

(1) You must use Equation 1a or 1b or 1c, below, to demonstrate that the PM (or TSM), HCl, or mercury emissions from all existing units participating in the emissions averaging option for that pollutant do not exceed the emission limits in Table 2 to MACT Subpart DDDDD. Use Equation 1a if you are complying with the emission limits on a heat input basis; use Equation 1b if you are complying with the emission limits on a steam generation (output) basis; and use Equation 1c if you are complying with the emission limits on a electric generation (output) basis. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

AveWeightedEmissions = (1.1) x [Çn i = 1 (Er x Hm)] / [Çn i = 1 (Hm)] {Equation 1a}

Where:

AveWeightedEmissions = Average weighted emissions for PM (or TSM), HCl, or mercury, in units of pounds per million BTU (lb/mmBTU) of heat input.

Ç = Symbol used to denote summation.

Er = Emission rate (as determined during the initial compliance demonstration) of PM (or TSM), HCl, or mercury from unit, i, in units of pounds per million BTU (lb/mmBTU) of heat input. Determine the emission rate for PM (or TSM), HCl, or mercury by performance testing according to Table 5 to MACT Subpart DDDDD, or by fuel analysis for HCl or mercury or TSM using the applicable equation in §63.7530(c). [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 5 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, ABOVE]

SECTION E. Source Group Restrictions.

Hm = Maximum rated heat input capacity of unit, i, in units of million BTU per hour (mmBTU/hr).

n = Number of units participating in the emissions averaging option.

1.1 = Required discount factor.

AveWeightedEmissions = (1.1) x [Çn i = 1 (Er x HSo)] / [Çn i = 1 (So)] {Equation 1b}

Where:

AveWeightedEmissions = Average weighted emissions for PM (or TSM), HCl, or mercury, in units of pounds per million BTU (lb/mmBTU) of steam output.

Ç = Symbol used to denote summation.

Er = Emission rate (as determined during the initial compliance demonstration) of PM (or TSM), HCl, or mercury from unit, i, in units of pounds per million BTU (lb/mmBTU) of steam output. Determine the emission rate for PM (or TSM), HCl, or mercury by performance testing according to Table 5 to MACT Subpart DDDDD, or by fuel analysis for HCl or mercury or TSM using the applicable equation in §63.7530(c). If you are taking credit for energy conservation measures from a unit according to §63.7533, use the adjusted emission level for that unit, Eadj, determined according to §63.7533 for that unit. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 5 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, ABOVE]

So = Maximum steam output capacity of unit, i, in units of million BTU per hour (mmBTU/hr), as defined in §63.7575.

n = Number of units participating in the emissions averaging option.

1.1 = Required discount factor.

[NOTE: EQUATION 1c IS NOT APPLICABLE SINCE THE BOILER IS NOT DEFINED AS AN EGU]

(2) If you are not capable of determining the maximum rated heat input capacity of one or more boilers that generate steam, you may use Equation 2, below, as an alternative to using Equation 1a, above, to demonstrate that the PM (or TSM), HCl, or mercury emissions from all existing units participating in the emissions averaging option do not exceed the emission limits for that pollutant in Table 2 to MACT Subpart DDDDD that are in pounds per million BTU (lb/mmBTU) of heat input. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

AveWeightedEmissions = (1.1) x [Çn i = 1 (Er x Sm x Cfi)] / [Çn i = 1 (Sm x Cfi)] {Equation 2}

Where:

AveWeightedEmissions = Average weighted emission level for PM (or TSM), HCl, or mercury, in units of pounds per million BTU (lb/mmBTU) of heat input.

Ç = Symbol used to denote summation.

Er = Emission rate (as determined during the most recent compliance demonstration) of PM (or TSM), HCl, or mercury from unit, i, in units of pounds per million BTU (lb/mmBTU) of heat input. Determine the emission rate for PM (or TSM), HCl, or mercury by performance testing according to Table 5 to MACT Subpart DDDDD, or by fuel analysis for HCl or mercury or TSM using the applicable equation in §63.7530(c). [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 5 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520, ABOVE]

Sm = Maximum steam generation capacity by unit, i, in units of pounds per hour (lb/hr).

SECTION E. Source Group Restrictions.

Cfi = Conversion factor, calculated from the most recent compliance test, in units of million BTU (mmBTU) of heat input per pounds (lb) of steam generated for unit, i.

1.1 = Required discount factor.

(f) After the initial compliance demonstration described in paragraph (e), above, you must demonstrate compliance on a monthly basis determined at the end of every month (12 times per year) according to paragraphs (f)(1) through (3), below. The first monthly period begins on the compliance date specified in §63.7495. If the affected source elects to collect monthly data for up to the 11 months preceding the first monthly period, these additional data points can be used to compute the 12-month rolling average in paragraph (f)(3), below.

(1) For each calendar month, you must use Equation 3a or 3b or 3c, below, to calculate the average weighted emission rate for that month. Use Equation 3a and the actual heat input for the month for each existing unit participating in the emissions averaging option if you are complying with emission limits on a heat input basis. Use Equation 3b and the actual steam generation for the month if you are complying with the emission limits on a steam generation (output) basis. Use Equation 3c and the actual electrical generation for the month if you are complying with the emission limits on an electrical generation (output) basis.

AveWeightedEmissions = (1.1) x [Çn i = 1 (Er x Hb)] / [Çn i = 1 (Hb)] {Equation 3a}

Where:

AveWeightedEmissions = Average weighted emission level for PM (or TSM), HCl, or mercury, in units of pounds per million BTU (lb/mmBTU) of heat input, for that calendar month.

Ç = Symbol used to denote summation.

Er = Emission rate (as determined during the most recent compliance demonstration) of PM (or TSM), HCl, or mercury from unit, i, in units of pounds per million BTU (lb/mmBTU) of heat input. Determine the emission rate for PM (or TSM), HCl, or mercury by performance testing according to Table 5 to MACT Subpart DDDDD, or by fuel analysis for HCl or mercury or TSM according to Table 6 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLES 5 & 6 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520 AND §63.7521, RESPECTIVELY, ABOVE]

Hb = The heat input for that calendar month to unit, i, in units of million BTU (mmBTU).

n = Number of units participating in the emissions averaging option.

1.1 = Required discount factor.

AveWeightedEmissions = (1.1) x [Çn i = 1 (Er x So)] / [Çn i = 1 (So)] {Equation 3b}

Where:

AveWeightedEmissions = Average weighted emission level for PM (or TSM), HCl, or mercury, in units of pounds per million BTU (lb/mmBTU) of steam output, for that calendar month.

Ç = Symbol used to denote summation.

Er = Emission rate (as determined during the most recent compliance demonstration) of PM (or TSM), HCl, or mercury from unit, i, in units of pounds per million BTU (lb/mmBTU) of steam output. Determine the emission rate for PM (or TSM), HCl, or mercury by performance testing according to Table 5 to MACT Subpart DDDDD, or by fuel analysis for HCl or mercury or TSM according to Table 6 to MACT Subpart DDDDD. If you are taking credit for energy conservation measures from a unit according to §63.7533, use the adjusted emission level for that unit, Eadj, determined according to §63.7533 for that unit. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLES 5 & 6 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520 AND §63.7521, RESPECTIVELY, ABOVE]

So = The steam output for that calendar month from unit, i, in units of million BTU (mmBTU), as defined in §63.7575.

SECTION E. Source Group Restrictions.

n = Number of units participating in the emissions averaging option.

1.1 = Required discount factor.

[NOTE: EQUATION 3c IS NOT APPLICABLE SINCE THE BOILER IS NOT DEFINED AS AN EGU]

(2) If you are not capable of monitoring heat input, you may use Equation 4, below, as an alternative to using Equation 3a, above, to calculate the average weighted emission rate using the actual steam generation from the boilers participating in the emissions averaging option.

AveWeightedEmissions = (1.1) x [Çn i = 1 (Er x Sa x Cfi)] / [Çn i = 1 (Sa x Cfi)] {(Equation 4}

Where:

AveWeightedEmissions = average weighted emission level for PM (or TSM), HCl, or mercury, in units of pounds per million BTU (lb/mmBTU) of heat input for that calendar month.

Ç = Symbol used to denote summation.

Er = Emission rate (as determined during the most recent compliance demonstration of PM (or TSM), HCl, or mercury from unit, i, in units of pounds per million BTU (lb/mmBTU) of heat input. Determine the emission rate for PM (or TSM), HCl, or mercury by performance testing according to Table 5 to MACT Subpart DDDDD, or by fuel analysis for HCl or mercury or TSM according to Table 6 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLES 5 & 6 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7520 AND §63.7521, RESPECTIVELY, ABOVE]

Sa = Actual steam generation for that calendar month by boiler, i, in units of pounds (lb).

Cfi = Conversion factor, as calculated during the most recent compliance test, in units of million BTU (mmBTU) of heat input per pounds (lb) of steam generated for boiler, i.

1.1 = Required discount factor.

(3) Until 12 monthly weighted average emission rates have been accumulated, calculate and report only the average weighted emission rate determined under paragraph (f)(1) or (2), above, for each calendar month. After 12 monthly weighted average emission rates have been accumulated, for each subsequent calendar month, use Equation 5, below, to calculate the 12-month rolling average of the monthly weighted average emission rates for the current calendar month and the previous 11 calendar months.

Eavg = [Çn i = 1 (ERi)] / 12 {Equation 5}

Where:

Eavg = 12-month rolling average emission rate, [pounds per million BTU (lb/mmBTU) heat input]

Ç = Symbol used to denote summation.

ERi = Monthly weighted average, for calendar month “i” [pounds per million BTU (lb/mmBTU) heat input], as calculated by paragraph (f)(1) or (2), above.

(g) You must develop, and submit upon request to the applicable Administrator for review and approval, an implementation plan for emission averaging according to the following procedures and requirements in paragraphs (g)(1) through (4), below.

(1) If requested, you must submit the implementation plan no later than 180 days before the date that the facility intends to demonstrate compliance using the emission averaging option.

SECTION E. Source Group Restrictions.

(2) You must include the information contained in paragraphs (g)(2)(i) through (vii), below, in your implementation plan for all emission sources included in an emissions average:

(i) The identification of all existing boilers and process heaters in the averaging group, including for each either the applicable HAP emission level or the control technology installed as of January 31, 2013 and the date on which you are requesting emission averaging to commence;

(ii) The process parameter (heat input or steam generated) that will be monitored for each averaging group;

(iii) The specific control technology or pollution prevention measure to be used for each emission boiler or process heater in the averaging group and the date of its installation or application. If the pollution prevention measure reduces or eliminates emissions from multiple boilers or process heaters, the owner or operator must identify each boiler or process heater;

(iv) The test plan for the measurement of PM (or TSM), HCl, or mercury emissions in accordance with the requirements in §63.7520;

(v) The operating parameters to be monitored for each control system or device consistent with §63.7500 and Table 4 to MACT Subpart DDDDD, and a description of how the operating limits will be determined; [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 4 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(vi) If you request to monitor an alternative operating parameter pursuant to §63.7525, you must also include:

(A) A description of the parameter(s) to be monitored and an explanation of the criteria used to select the parameter(s); and

(B) A description of the methods and procedures that will be used to demonstrate that the parameter indicates proper operation of the control device; the frequency and content of monitoring, reporting, and recordkeeping requirements; and a demonstration, to the satisfaction of the Administrator, that the proposed monitoring frequency is sufficient to represent control device operating conditions; and

(vii) A demonstration that compliance with each of the applicable emission limit(s) will be achieved under representative operating load conditions. Following each compliance demonstration and until the next compliance demonstration, you must comply with the operating limit for operating load conditions specified in Table 4 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 4 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(3) If submitted upon request, the Administrator shall review and approve or disapprove the plan according to the following criteria:

(i) Whether the content of the plan includes all of the information specified in paragraph (g)(2), above; and

(ii) Whether the plan presents sufficient information to determine that compliance will be achieved and maintained.

(4) The applicable Administrator shall not approve an emission averaging implementation plan containing any of the following provisions:

(i) Any averaging between emissions of differing pollutants or between differing sources; or

(ii) The inclusion of any emission source other than an existing unit in the same subcategories.

(h) For a group of two or more existing affected units, each of which vents through a single common stack, you may average PM (or TSM), HCl, or mercury emissions to demonstrate compliance with the limits for that pollutant in Table 2 to MACT Subpart DDDDD if you satisfy the requirements in paragraph (i) or (j), below. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(i) For a group of two or more existing units in the same subcategory, each of which vents through a common emissions control system to a common stack, that does not receive emissions from units in other subcategories or categories, you

SECTION E. Source Group Restrictions.

may treat such averaging group as a single existing unit for purposes of MACT Subpart DDDDD and comply with the requirements of MACT Subpart DDDDD as if the group were a single unit.

(j) For all other groups of units subject to the common stack requirements of paragraph (h), above, including situations where the exhaust of affected units are each individually controlled and then sent to a common stack, the owner or operator may elect to:

(1) Conduct performance tests according to procedures specified in §63.7520 in the common stack if affected units from other subcategories vent to the common stack. The emission limits that the group must comply with are determined by the use of Equation 6, below.

En = [Çn i = 1 (ELi x Hi)] / [Çn i = 1 (Hi)] {Equation 6}

Where:

En = HAP emission limit, pounds per million BTU (lb/mmBTU) or parts per million (ppm).

Ç = Symbol used to denote summation.

Eli = Appropriate emission limit from Table 2 to MACT Subpart DDDDD for unit i, in units of lb/mmBTU or ppm.

Hi = Heat input from unit i, mmBTU.

(2) Conduct performance tests according to procedures specified in §63.7520 in the common stack. If affected units and non-affected units vent to the common stack, the non-affected units must be shut down or vented to a different stack during the performance test unless the facility determines to demonstrate compliance with the non-affected units venting to the stack; and

(3) Meet the applicable operating limit specified in §63.7540 and Table 8 to MACT Subpart DDDDD for each emissions control system (except that, if each unit venting to the common stack has an applicable opacity operating limit, then a single continuous opacity monitoring system may be located in the common stack instead of in each duct to the common stack). [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 8 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7540, BELOW]

(k) The common stack of a group of two or more existing boilers or process heaters in the same subcategories subject to paragraph (h), above, may be treated as a separate stack for purposes of paragraph (b), above, and included in an emissions averaging group subject to paragraph (b), above.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7168, Jan. 31, 2013; 80 FR 72809, Nov. 20, 2015]

 # 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7525]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What are my monitoring, installation, operation, and maintenance requirements?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7525 What are my monitoring, installation, operation, and maintenance requirements?

(a) If your boiler or process heater is subject to a CO emission limit in Tables 1, 2, or 11 through 13 to MACT Subpart DDDDD, you must install, operate, and maintain an oxygen analyzer system, as defined in §63.7575, or install, certify, operate and maintain continuous emission monitoring systems (CEMS) for CO and oxygen (or carbon dioxide (CO2)) according to the procedures in paragraphs (a)(1) through (6), below. [NOTE: THE BOILER IS SUBJECT TO A TABLE 2 CO EMISSION LIMIT; THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(1) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

SECTION E. Source Group Restrictions.

(2) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

(3) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

(4) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

(5) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

(6) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

(7) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

(b) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(c) [N/A - THE BOILER IS NOT SUBJECT TO AN OPACITY OPERATING LIMIT]

(d) If you have an operating limit that requires the use of a CMS other than a PM CPMS or COMS, you must install, operate, and maintain each CMS according to the procedures in paragraphs (d)(1) through (5), below, by the compliance date specified in §63.7495.

(1) The CMS must complete a minimum of one cycle of operation every 15 minutes. You must have a minimum of four (4) successive cycles of operation, one representing each of the four (4) 15-minute periods in an hour, to have a valid hour of data.

(2) You must operate the monitoring system as specified in §63.7535(b), and comply with the data calculation requirements specified in §63.7535(c).

(3) Any 15-minute period for which the monitoring system is out-of-control and data are not available for a required calculation constitutes a deviation from the monitoring requirements. Other situations that constitute a monitoring deviation are specified in §63.7535(d).

(4) You must determine the 30-day rolling average of all recorded readings, except as provided in §63.7535(c).

(5) You must record the results of each inspection, calibration, and validation check.

(e) If you have an operating limit that requires the use of a flow monitoring system, you must meet the requirements in paragraphs (d), above, and (e)(1) through (4), below.

(1) You must install the flow sensor and other necessary equipment in a position that provides a representative flow.

(2) You must use a flow sensor with a measurement sensitivity of no greater than 2% of the design flow rate.

(3) You must minimize, consistent with good engineering practices, the effects of swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(4) You must 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.

(f) If you have an operating limit that requires the use of a pressure monitoring system, you must meet the requirements in paragraphs (d), above, and (f)(1) through (6), below.

(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 consistent with good engineering practices.

SECTION E. Source Group Restrictions.

(3) Use a pressure sensor with a minimum tolerance of 1.27 centimeters of water or a minimum tolerance of 1% of the pressure monitoring system operating range, whichever is less.

(4) Perform checks at least once each process operating day to ensure pressure measurements are not obstructed (e.g., check for pressure tap pluggage 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.

(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 you monitoring plan. Alternatively, install and verify the operation of a new pressure sensor.

(g) [N/A - THE BOILER DOES NOT HAVE AN OPERATING LIMIT REQUIRING A pH MONITORING SYSTEM]

(h) If you have an operating limit that requires a secondary electric power monitoring system for an electrostatic precipitator (ESP) operated with a wet scrubber, you must meet the requirements in paragraphs (h)(1) and (2), below.

(1) Install sensors to measure (secondary) voltage and current to the precipitator collection plates.

(2) Conduct a performance evaluation of the electric power monitoring system in accordance with your monitoring plan at the time of each performance test but no less frequently than annually.

(i) [N/A - THE BOILER DOES NOT HAVE AN OPERATING LIMIT REQUIRING THE USE OF A MONITORING SYSTEM TO MEASURE SORBENT INJECTION RATE]

(j) [N/A - THE BOILER DOES NOT OPERATE A FABRIC FILTER CONTROL]

(k) [N/A - THE BOILER DOES NOT SATISFY THE DEFINITION OF "LIMITED-USE BOILER"]

(l) [N/A - THE BOILER IS NOT EQUIPPED WITH MERCURY AND/OR HCl CEMS]

(m) [N/A - THE BOILER DOES NOT OPERATE AN SO2 CEMS]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7171, Jan. 31, 2013; 80 FR 72810, Nov. 20, 2015]

 # 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7530]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate initial compliance with the emission limitations, fuel specifications and work practice standards?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7530 How do I demonstrate initial compliance with the emission limitations, fuel specifications and work practice standards?

(a) You must demonstrate initial compliance with each emission limit that applies to you by conducting initial performance tests and fuel analyses and establishing operating limits, as applicable, according to §63.7520, paragraphs (b) and (c), below, and Tables 5 and 7 to MACT Subpart DDDDD. The requirement to conduct a fuel analysis is not applicable for units that burn a single type of fuel, as specified by §63.7510(a)(2). If applicable, you must also install, operate, and maintain all applicable CMS (including CEMS, COMS, and CPMS) according to §63.7525. [NOTE: THE INITIAL PERFORMANCE (STACK) TESTS AND FUEL ANALYSES WERE CONDUCTED IN MAY 2017; OPERATING LIMITS WERE SUBSEQUENTLY ESTABLISHED; THE APPLICABLE REQUIREMENTS OF TABLES 5 & 7 TO MACT SUBPART DDDDD ARE BOTH LISTED UNDER §63.7520, ABOVE]

(b) If you demonstrate compliance through performance (stack) testing, you must establish each site-specific operating

SECTION E. Source Group Restrictions.

limit in Table 4 to MACT Subpart DDDDD that applies to you according to the requirements in §63.7520, Table 7 to MACT Subpart DDDDD, and paragraph (b)(4), below, as applicable. You must also conduct fuel analyses according to §63.7521 and establish maximum fuel pollutant input levels according to paragraphs (b)(1) through (3), below, as applicable, and as specified in §63.7510(a)(2). (Note that §63.7510(a)(2) exempts certain fuels from the fuel analysis requirements.) However, if you switch fuel(s) and cannot show that the new fuel(s) does (do) not increase the chlorine, mercury, or TSM input into the unit through the results of fuel analysis, then you must repeat the performance test to demonstrate compliance while burning the new fuel(s). [NOTE: THE APPLICABLE REQUIREMENTS OF TABLES 4 & 7 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500 AND §63.7520, RESPECTIVELY, ABOVE]

(1) You must establish the maximum chlorine fuel input (Clinput) during the initial fuel analysis according to the procedures in paragraphs (b)(1)(i) through (iii), below.

(i) You must determine the fuel type or fuel mixture that you could burn in your boiler or process heater that has the highest content of chlorine.

(ii) During the fuel analysis for hydrogen chloride, you must determine the fraction of the total heat input for each fuel type burned (Qi) based on the fuel mixture that has the highest content of chlorine, and the average chlorine concentration of each fuel type burned (Ci).

(iii) You must establish a maximum chlorine input level using Equation 7, below.

Clinput = [Çn i = 1 (Ci x Qi)] (Equation 7)

Where:

Clinput = Maximum amount of chlorine entering the boiler or process heater through fuels burned in units of pounds per million BTU (lb/mmBTU).

Ç = Symbol used to denote summation.

Ci = Arithmetic average concentration of chlorine in fuel type, i, analyzed according to §63.7521, in units of pounds per million BTU (lb/mmBTU).

Qi = Fraction of total heat input from fuel type, i, based on the fuel mixture that has the highest content of chlorine during the initial compliance test. If you do not burn multiple fuel types during the performance testing, it is not necessary to determine the value of this term. Insert a value of "1" for Qi. For continuous compliance demonstration, the actual fraction of the fuel burned during the month should be used.

n = Number of different fuel types burned in your boiler or process heater for the mixture that has the highest content of chlorine.

(2) You must establish the maximum mercury fuel input level (Mercuryinput) during the initial fuel analysis using the procedures in paragraphs (b)(2)(i) through (iii), below.

(i) You must determine the fuel type or fuel mixture that you could burn in your boiler or process heater that has the highest content of mercury.

(ii) During the compliance demonstration for mercury, you must determine the fraction of total heat input for each fuel burned (Qi) based on the fuel mixture that has the highest content of mercury, and the average mercury concentration of each fuel type burned (HGi).

(iii) You must establish a maximum mercury input level using Equation 8, below.

Mercuryinput = [Çn i = 1 (HGi x Qi)] (Equation 8)

Where:

SECTION E. Source Group Restrictions.

Mercuryinput = Maximum amount of mercury entering the boiler or process heater through fuels burned in units of pounds per million BTU (lb/mmBTU).

Ç = Symbol used to denote summation.

HGi = Arithmetic average concentration of mercury in fuel type, i, analyzed according to §63.7521, in units of pounds per million BTU (lb/mmBTU).

Qi = Fraction of total heat input from fuel type, i, based on the fuel mixture that has the highest mercury content during the initial compliance test. If you do not burn multiple fuel types during the performance test, it is not necessary to determine the value of this term. Insert a value of "1" for Qi. For continuous compliance demonstration, the actual fraction of the fuel burned during the month should be used.

n = Number of different fuel types burned in your boiler or process heater for the mixture that has the highest content of mercury.

(3) If you opt to comply with the alternative TSM limit, you must establish the maximum TSM fuel input (TSMinput) for solid or liquid fuels during the initial fuel analysis according to the procedures in paragraphs (b)(3)(i) through (iii), below.

(i) You must determine the fuel type or fuel mixture that you could burn in your boiler or process heater that has the highest content of TSM.

(ii) During the fuel analysis for TSM, you must determine the fraction of the total heat input for each fuel type burned (Qi) based on the fuel mixture that has the highest content of TSM, and the average TSM concentration of each fuel type burned (TSMi).

(iii) You must establish a maximum TSM input level using Equation 9, below.

TSMinput = [Çn i = 1 (TSMi x Qi)] (Equation 9)

Where:

TSMinput = Maximum amount of TSM entering the boiler or process heater through fuels burned in units of pounds per million BTU (lb/mmBTU).

Ç = Symbol used to denote summation.

TSMi = Arithmetic average concentration of TSM in fuel type, i, analyzed according to §63.7521, in units of pounds per million BTU (lb/mmBTU).

Qi = Fraction of total heat input from fuel type, i, based on the fuel mixture that has the highest content of TSM during the initial compliance test. If you do not burn multiple fuel types during the performance testing, it is not necessary to determine the value of this term. Insert a value of "1" for Qi. For continuous compliance demonstration, the actual fraction of the fuel burned during the month should be used.

n = Number of different fuel types burned in your boiler or process heater for the mixture that has the highest content of TSM.

(4) You must establish parameter operating limits according to paragraphs (b)(4)(i) through (ix), below. As indicated in Table 4 to MACT Subpart DDDDD, you are not required to establish and comply with the operating parameter limits when you are using a CEMS to monitor and demonstrate compliance with the applicable emission limit for that control device parameter. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 4 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(i) [N/A - THE BOILER DOES NOT OPERATE A WET ACID GAS (HCl) SCRUBBER CONTROL AS DEFINED BY THIS TABLE SINCE THE SCRUBBER DOES NOT USE AN ALKALINE SLURRY/SOLUTION AS ITS SCRUBBING MEDIA; THE SCRUBBING MEDIA IS A WATER SOLUTION]

SECTION E. Source Group Restrictions.

(ii) [N/A - THE BOILER DOES NOT OPERATE A PM CPMS]

(iii) For a particulate wet scrubber, you must establish the minimum pressure drop and liquid flow rate as defined in §63.7575 as your operating limits during the three-run performance test during which you demonstrate compliance with your applicable limit. If you use a wet scrubber and you conduct separate performance tests for PM and TSM emissions, you must establish one set of minimum scrubber liquid flow rate and pressure drop operating limits. If you conduct multiple performance tests, you must set the minimum liquid flow rate and pressure drop operating limits at the higher of the minimum values established during the performance tests.

(iv) For an electrostatic precipitator (ESP) operated with a wet scrubber, you must establish the minimum total secondary electric power input, as defined in §63.7575, as your operating limit during the three-run performance test during which you demonstrate compliance with your applicable limit. (These operating limits do not apply to ESPs that are operated as dry controls without a wet scrubber.) [NOTE: THE BOILER DOES OPERATE AN ESP WITH A WET SCRUBBER CONTROL]

(v) [N/A - THE BOILER DOES NOT OPERATE A DRY SCRUBBER CONTROL]

(vi) [N/A - THE BOILER DOES NOT OPERATE AN ACTIVATED CARBON INJECTION CONTROL]

(vii) [N/A - THE BOILER DOES NOT OPERATE A FABRIC FILTER CONTROL]

(viii) For a minimum oxygen level, if you conduct multiple performance tests, you must set the minimum oxygen level at the lower of the minimum values established during the performance tests.

(ix) [N/A - THE BOILER DOES NOT OPERATE AN SO2 CEMS]

(c) If you elect to demonstrate compliance with an applicable emission limit through fuel analysis, you must conduct fuel analyses according to §63.7521 and follow the procedures in paragraphs (c)(1) through (5), below.

(1) If you burn more than one fuel type, you must determine the fuel mixture you could burn in your boiler or process heater that would result in the maximum emission rates of the pollutants that you elect to demonstrate compliance through fuel analysis.

(2) You must determine the 90th percentile confidence level fuel pollutant concentration of the composite samples analyzed for each fuel type using the one-sided t-statistic test described in Equation 15, below.

P90 = mean + (SD x t) (Equation 15)

Where:

P90 = 90th percentile confidence level pollutant concentration, in pounds per million BTU (lb/mmBTU).

Mean = Arithmetic average of the fuel pollutant concentration in the fuel samples analyzed according to §63.7521, in units of pounds per million BTU (lb/mmBTU).

SD = Standard deviation of the mean of pollutant concentration in the fuel samples analyzed according to §63.7521, in units of pounds per million BTU (lb/mmBTU. SD is calculated as the sample standard deviation divided by the square root of the number of samples.

t = t distribution critical value for 90th percentile (t0.1) probability for the appropriate degrees of freedom (number of samples minus one) as obtained from a t-Distribution Critical Value Table.

(3) To demonstrate compliance with the applicable emission limit for HCl, the HCl emission rate that you calculate for your boiler or process heater using Equation 16, below, must not exceed the applicable emission limit for HCl.

HCl = [Çn i = 1 (Ci90 x Qi x 1.028)] (Equation 16)

Where:

SECTION E. Source Group Restrictions.

HCl = HCl emission rate from the boiler or process heater in units of pounds per million BTU (lb/mmBTU).

Ç = Symbol used to denote summation.

Ci90 = 90th percentile confidence level concentration of chlorine in fuel type, i, in units of pounds per million BTU (lb/mmBTU) as calculated according to Equation 15, above (i.e., P90 value).

Qi = Fraction of total heat input from fuel type, i, based on the fuel mixture that has the highest content of chlorine. If you do not burn multiple fuel types, it is not necessary to determine the value of this term. Insert a value of "1" for Qi. For continuous compliance demonstration, the actual fraction of the fuel burned during the month should be used.

n = Number of different fuel types burned in your boiler or process heater for the mixture that has the highest content of chlorine.

1.028 = Molecular weight ratio of HCl to chlorine.

(4) To demonstrate compliance with the applicable emission limit for mercury, the mercury emission rate that you calculate for your boiler or process heater using Equation 17, below, must not exceed the applicable emission limit for mercury.

Mercury = [Çn i = 1 (Hgi90 x Qi)] (Equation 17)

Where:

Mercury = Mercury emission rate from the boiler or process heater in units of pounds per million BTU (lb/mmBTU).

Ç = Symbol used to denote summation.

Hgi90 = 90th percentile confidence level concentration of mercury in fuel, i, in units of pounds per million BTU (lb/mmBTU) as calculated according to Equation 15, above (i.e., P90 value).

Qi = Fraction of total heat input from fuel type, i, based on the fuel mixture that has the highest mercury content. If you do not burn multiple fuel types, it is not necessary to determine the value of this term. Insert a value of "1" for Qi. For continuous compliance demonstration, the actual fraction of the fuel burned during the month should be used.

n = Number of different fuel types burned in your boiler or process heater for the mixture that has the highest mercury content.

(5) To demonstrate compliance with the applicable emission limit for TSM for solid or liquid fuels, the TSM emission rate that you calculate for your boiler or process heater from solid fuels using Equation 18, below, must not exceed the applicable emission limit for TSM.

Metals = [Çn i = 1 (TSMi90 x Qi)] (Equation 18)

Where:

Metals = TSM emission rate from the boiler or process heater in units of pounds per million BTU (lb/mmBTU).

Ç = Symbol used to denote summation.

TSMi90 = 90th percentile confidence level concentration of TSM in fuel, i, in units of pounds per million BTU (lb/mmBTU) as calculated according to Equation 15, above (i.e., P90 value).

Qi = Fraction of total heat input from fuel type, i, based on the fuel mixture that has the highest TSM content. If you do not burn multiple fuel types, it is not necessary to determine the value of this term. Insert a value of "1" for Qi. For continuous compliance demonstration, the actual fraction of the fuel burned during the month should be used.

SECTION E. Source Group Restrictions.

n = Number of different fuel types burned in your boiler or process heater for the mixture that has the highest TSM content.

(d) [Reserved]

(e) You must include with the Notification of Compliance Status a signed certification that either the energy assessment was completed according to Table 3 to MACT Subpart DDDDD, and that the assessment is an accurate depiction of your facility at the time of the assessment, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 3 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(f) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.7545(e).

(g) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS]

(h) If you own or operate a unit subject to emission limits in Tables 1 or 2 or 11 through 13 to MACT Subpart DDDDD, you must meet the work practice standard according to Table 3 of MACT Subpart DDDDD. During startup and shutdown, you must only follow the work practice standards according to Nos. 5 and 6 of Table 3 of MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLES 2 & 3 TO MACT SUBPART DDDDD ARE BOTH LISTED UNDER §63.7500, ABOVE]

(i) [N/A - THE BOILER DOES NOT OPERATE AN SO2 CEMS]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7174, Jan. 31, 2013; 80 FR 72811, Nov. 20, 2015]

 # 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7533]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Can I use emission credits earned from implementation of energy conservation measures to comply with this subpart?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7533 Can I use efficiency credits earned from implementation of energy conservation measures to comply with MACT Subpart DDDDD?

(a) If you elect to comply with the alternative equivalent output-based emission limits instead of the heat input-based limits listed in Table 2 to MACT Subpart DDDDD, and you want to take credit for implementing energy conservation measures identified in an energy assessment, you may demonstrate compliance using efficiency credits according to the procedures in this section (§63.7533). You may use this compliance approach for an existing affected boiler for demonstrating initial compliance according to §63.7522(e) and for demonstrating monthly compliance according to §63.7522(f). Owners or operators using this compliance approach must establish an emissions benchmark, calculate and document the efficiency credits, develop an Implementation Plan, comply with the general reporting requirements, and apply the efficiency credit according to the procedures in paragraphs (b) through (f), below. You cannot use this compliance approach for a new or reconstructed affected boiler. Additional guidance from the Department of Energy on efficiency credits is available at: http://www.epa.gov/ttn/atw/boiler/boilerpg.html. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(b) For each existing affected boiler for which you intend to apply emissions credits, establish a benchmark from which emission reduction credits may be generated by determining the actual annual fuel heat input to the affected boiler before initiation of an energy conservation activity to reduce energy demand (i.e., fuel usage) according to paragraphs (b)(1) through (4), below. The benchmark shall be expressed in trillion BTU per year (TBTU/yr) heat input.

(1) The benchmark from which efficiency credits may be generated shall be determined by using the most representative, accurate, and reliable process available for the source. The benchmark shall be established for a one-year period before the date that an energy demand reduction occurs, unless it can be demonstrated that a different time period is more representative of historical operations.

(2) Determine the starting point from which to measure progress. Inventory all fuel purchased and generated on-site (off-

SECTION E. Source Group Restrictions.

gases, residues) in physical units (mmBTU, million cubic feet (mmCF), etc.).

(3) Document all uses of energy from the affected boiler. Use the most recent data available.

(4) Collect non-energy-related facility and operational data to normalize, if necessary, the benchmark to current operations, such as building size, operating hours, etc. If possible, use actual data that are current and timely rather than estimated data.

(c) Efficiency credits can be generated if the energy conservation measures were implemented after January 1, 2008 and if sufficient information is available to determine the appropriate value of credits.

(1) The following emission points cannot be used to generate efficiency credits:

(i) Energy conservation measures implemented on or before January 1, 2008, unless the level of energy demand reduction is increased after January 1, 2008, in which case credit will be allowed only for change in demand reduction achieved after January 1, 2008.

(ii) Efficiency credits on shut-down boilers. Boilers that are shut down cannot be used to generate credits unless the facility provides documentation linking the permanent shutdown to energy conservation measures identified in the energy assessment. In this case, the bench established for the affected boiler to which the credits from the shutdown will be applied must be revised to include the benchmark established for the shutdown boiler.

(2) For all points included in calculating emissions credits, the owner or operator shall:

(i) Calculate annual credits for all energy demand points. Use Equation 19, below, to calculate credits. Energy conservation measures that meet the criteria of paragraph (c)(1), below, shall not be included, except as specified in paragraph (c)(1)(i), below.

(3) Credits are generated by the difference between the benchmark that is established for each affected boiler, and the actual energy demand reductions from energy conservation measures implemented after January 1, 2008. Credits shall be calculated using Equation 19, below, as follows:

(i) The overall equation for calculating credits is:

ECredits = [Çn i = 1 (EISiactual)] / [EIbaseline] {Equation 19}

Where:

ECredits = Energy Input Savings for all energy conservation measures implemented for an affected boiler, expressed as a decimal fraction of the baseline energy input.

Ç = Symbol used to denote summation.

EISiactual = Energy Input Savings for each energy conservation measure, i, implemented for an affected boiler, million BTU per year (mmBTU/yr).

EIbaseline = Energy Input baseline for the affected boiler, million BTU per year (mmBTU/yr).

n = Number of energy conservation measures included in the efficiency credit for the affected boiler.

(ii) [Reserved]

(d) The owner or operator shall develop, and submit for approval upon request by the Administrator, an Implementation Plan containing all of the information required in this paragraph (§63.7533(d)) for all boilers to be included in an efficiency credit approach. The Implementation Plan shall identify all existing affected boilers to be included in applying the efficiency credits. The Implementation Plan shall include a description of the energy conservation measures implemented and the energy savings generated from each measure and an explanation of the criteria used for determining that savings. If

SECTION E. Source Group Restrictions.

requested, you must submit the implementation plan for efficiency credits to the Administrator for review and approval no later than 180 days before the date on which the facility intends to demonstrate compliance using the efficiency credit approach.

(e) The emissions rate as calculated using Equation 20, below, from each existing boiler participating in the efficiency credit option must be in compliance with the limits in Table 2 to MACT Subpart DDDDD at all times the affected unit is subject to numeric emission limits, following the compliance date specified in §63.7495. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(f) You must use Equation 20, below, to demonstrate initial compliance by demonstrating that the emissions from the affected boiler participating in the efficiency credit compliance approach do not exceed the emission limits in Table 2 to MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

Eadj = [Em] x [1 - ECredits] {(Equation 20}

Where:

Eadj = Emission level adjusted by applying the efficiency credits earned, pounds per million BTU (lb/mmBTU) steam output (or lb per MWh) for the affected boiler.

Em = Emissions measured during the performance test, pounds per million BTU (lb/mmBTU) steam output (or lb per MWh) for the affected boiler.

ECredits = Efficiency credits from Equation 19, above, for the affected boiler.

(g) As part of each compliance report submitted as required under §63.7550, you must include documentation that the energy conservation measures implemented continue to generate the credit for use in demonstrating compliance with the emission limits.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7178, Jan. 31, 2013; 80 FR 72812, Nov. 20, 2015]

 # 018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7535]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I monitor and collect data to demonstrate continuous compliance?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7535 Is there a minimum amount of monitoring data I must obtain?

(a) You must monitor and collect data according to this section (§63.7535) and the site-specific monitoring plan required by §63.7505(d).

(b) You must operate the monitoring system and collect data at all required intervals at all times that each boiler or process heater is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR §63.8(c)(7)), and required monitoring system quality assurance or control activities, including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in your site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the 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 complete 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.

(c) You may not use data recorded during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or control activities in data averages and calculations used to report emissions or operating levels. You must record and make available upon request results of CMS performance audits and dates and duration of

SECTION E. Source Group Restrictions.

periods when the CMS is out-of-control to completion of the corrective actions necessary to return the CMS to operation consistent with your site-specific monitoring plan. You must use all the data collected during all other periods in assessing compliance and the operation of the control device and associated control system.

(d) Except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, system accuracy audits, calibration checks, and required zero and span adjustments), failure to collect required data is a deviation of the monitoring requirements. In calculating monitoring results, do not use any data collected during periods of startup and shutdown, when the monitoring system is out-of-control as specified in your site-specific monitoring plan, while conducting repairs associated with periods when the monitoring system is out-of-control, or while conducting required monitoring system quality assurance or quality control activities. You must calculate monitoring results using all other monitoring data collected while the process is operating. You must report all periods when the monitoring system is out-of-control in your semi-annual report.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7179, Jan. 31, 2013; 80 FR 72812, Nov. 20, 2015]

 # 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7540 How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?

(a) You must demonstrate continuous compliance with each emission limit in Tables 1 and 2 or 11 through 13 to MACT Subpart DDDDD, the work practice standards in Table 3 to MACT Subpart DDDDD, and the operating limits in Table 4 to MACT Subpart DDDDD that applies to you according to the methods specified in Table 8 to MACT Subpart DDDDD and paragraphs (a)(1) through (19), below. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLES 2, 3 & 4 TO MACT SUBPART DDDDD ARE ALL LISTED UNDER §63.7500, ABOVE; THE APPLICABLE REQUIREMENTS OF TABLE 8 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(1) Following the date on which the initial compliance demonstration is completed or is required to be completed under §§63.7 and 63.7510, whichever date comes first, operation above the established maximum or below the established minimum operating limits shall constitute a deviation of established operating limits listed in Table 4 of MACT Subpart DDDDD except during performance tests conducted to determine compliance with the emission limits or to establish new operating limits. Operating limits must be confirmed or reestablished during performance tests. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 4 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(2) As specified in §63.7555(d), you must keep records of the type and amount of all fuels burned in each boiler or process heater during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would result in either of the following:

(i) Equal to or lower emissions of HCl, mercury, and TSM than the applicable emission limit for each pollutant, if you demonstrate compliance through fuel analysis.

(ii) Equal to or lower fuel input of chlorine, mercury, and TSM than the maximum values calculated during the last performance test, if you demonstrate compliance through performance testing.

(3) If you demonstrate compliance with an applicable HCl emission limit through fuel analysis for a solid or liquid fuel and you plan to burn a new type of solid or liquid fuel, you must recalculate the HCl emission rate using Equation 16 of §63.7530 according to paragraphs (a)(3)(i) through (iii), below. You are not required to conduct fuel analyses for the fuels described in §63.7510(a)(2)(i) through (iii). You may exclude the fuels described in §63.7510(a)(2)(i) through (iii) when recalculating the HCl emission rate.

(i) You must determine the chlorine concentration for any new fuel type in units of pounds per million BTU (lb/mmBTU),

SECTION E. Source Group Restrictions.

based on supplier data or your own fuel analysis, according to the provisions in your site-specific fuel analysis plan developed according to §63.7521(b).

(ii) You must determine the new mixture of fuels that will have the highest content of chlorine.

(iii) Recalculate the HCl emission rate from your boiler or process heater under these new conditions using Equation 16 of §63.7530. The recalculated HCl emission rate must be less than the applicable emission limit.

(4) If you demonstrate compliance with an applicable HCl emission limit through performance testing and you plan to burn a new type of fuel or a new mixture of fuels, you must recalculate the maximum chlorine input using Equation 7 of §63.7530. If the results of recalculating the maximum chlorine input using Equation 7 of §63.7530 are greater than the maximum chlorine input level established during the previous performance test, then you must conduct a new performance test within 60 days of burning the new fuel type or fuel mixture according to the procedures in §63.7520 to demonstrate that the HCl emissions do not exceed the emission limit. You must also establish new operating limits based on this performance test according to the procedures in §63.7530(b). In recalculating the maximum chlorine input and establishing the new operating limits, you are not required to conduct fuel analyses for and include the fuels described in §63.7510(a)(2)(i) through (iii).

(5) If you demonstrate compliance with an applicable mercury emission limit through fuel analysis, and you plan to burn a new type of fuel, you must recalculate the mercury emission rate using Equation 17 of §63.7530 according to the procedures specified in paragraphs (a)(5)(i) through (iii), below. You are not required to conduct fuel analyses for the fuels described in §63.7510(a)(2)(i) through (iii). You may exclude the fuels described in §63.7510(a)(2)(i) through (iii) when recalculating the mercury emission rate.

(i) You must determine the mercury concentration for any new fuel type in units of pounds per million BTU (lb/mmBTU), based on supplier data or your own fuel analysis, according to the provisions in your site-specific fuel analysis plan developed according to §63.7521(b).

(ii) You must determine the new mixture of fuels that will have the highest content of mercury.

(iii) Recalculate the mercury emission rate from your boiler or process heater under these new conditions using Equation 17 of §63.7530. The recalculated mercury emission rate must be less than the applicable emission limit.

(6) If you demonstrate compliance with an applicable mercury emission limit through performance testing, and you plan to burn a new type of fuel or a new mixture of fuels, you must recalculate the maximum mercury input using Equation 8 of §63.7530. If the results of recalculating the maximum mercury input using Equation 8 of §63.7530 are higher than the maximum mercury input level established during the previous performance test, then you must conduct a new performance test within 60 days of burning the new fuel type or fuel mixture according to the procedures in §63.7520 to demonstrate that the mercury emissions do not exceed the emission limit. You must also establish new operating limits based on this performance test according to the procedures in §63.7530(b). You are not required to conduct fuel analyses for the fuels described in §63.7510(a)(2)(i) through (iii). You may exclude the fuels described in §63.7510(a)(2)(i) through (iii) when recalculating the mercury emission rate.

(7) [N/A - THE BOILER DOES NOT OPERATE A FABRIC FILTER CONTROL]

(8) [N/A - THE BOILER DOES NOT OPERATE A CO CEMS]

(9) [N/A - THE BOILER DOES NOT OPERATE A PM CPMS OR A PM CEMS]

(10) If your boiler or process heater has a heat input capacity of 10 million BTU per hour (mmBTU/hr) or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi), below. You must conduct the tune-up while burning the type of fuel (or fuels in the case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. This frequency does not apply to limited-use boilers and process heaters, as defined in §63.7575, or units with continuous oxygen trim systems that maintain an optimum air-to-fuel ratio.

(i) As applicable, inspect the burner and clean or replace any components of the burner as necessary (you may perform

SECTION E. Source Group Restrictions.

the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

(ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

(iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;

(v) Measure the concentrations in the effluent stream of CO in parts per million by volume (ppmv), and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

(vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C), below,

(A) The concentrations of CO in the effluent stream in parts per million by volume (ppmv), and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

(B) A description of any corrective actions taken as a part of the tune-up; and

(C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

(11) [N/A - THE BOILER HAS A HEAT INPUT CAPACITY GREATER THAN OR EQUAL TO 10 mmBTU/hr]

(12) [N/A - THE BOILER: IS NOT EQUIPPED WITH A CONTINUOUS OXYGEN TRIM SYSTEM; HAS A HEAT INPUT CAPACITY GREATER THAN 5 mmBTU/hr; AND DOES NOT MEET THE DEFINITION OF "LIMITED-USE BOILER" IN §63.7575]

(13) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

(14) [N/A - THE BOILER DOES NOT OPERATE A MERCURY CEMS]

(15) [N/A - THE BOILER DOES NOT OPERATE AN HCl CEMS]

(16) If you demonstrate compliance with an applicable TSM emission limit through performance testing, and you plan to burn a new type of fuel or a new mixture of fuels, you must recalculate the maximum TSM input using Equation 9 of §63.7530. If the results of recalculating the maximum TSM input using Equation 9 of §63.7530 are higher than the maximum total selected input level established during the previous performance test, then you must conduct a new performance test within 60 days of burning the new fuel type or fuel mixture according to the procedures in §63.7520 to demonstrate that the TSM emissions do not exceed the emission limit. You must also establish new operating limits based on this performance test according to the procedures in §63.7530(b). You are not required to conduct fuel analyses for the fuels described in §63.7510(a)(2)(i) through (iii). You may exclude the fuels described in §63.7510(a)(2)(i) through (iii) when recalculating the TSM emission rate.

(17) If you demonstrate compliance with an applicable TSM emission limit through fuel analysis for solid or liquid fuels, and you plan to burn a new type of fuel, you must recalculate the TSM emission rate using Equation 18 of §63.7530

SECTION E. Source Group Restrictions.

according to the procedures specified in paragraphs (a)(5)(i) through (iii), below. You are not required to conduct fuel analyses for the fuels described in §63.7510(a)(2)(i) through (iii). You may exclude the fuels described in §63.7510(a)(2)(i) through (iii) when recalculating the TSM emission rate.

(i) You must determine the TSM concentration for any new fuel type in units of pounds per million BTU (lb/mmBTU), based on supplier data or your own fuel analysis, according to the provisions in your site-specific fuel analysis plan developed according to §63.7521(b).

(ii) You must determine the new mixture of fuels that will have the highest content of TSM.

(iii) Recalculate the TSM emission rate from your boiler or process heater under these new conditions using Equation 18 of §63.7530. The recalculated TSM emission rate must be less than the applicable emission limit.

(18) [N/A - THE BOILER DOES NOT OPERATE A PM CPMS]

(19) [N/A - THE BOILER DOES NOT OPERATE A PM CEMS]

(b) You must report each instance in which you did not meet each emission limit and operating limit in Tables 1 through 4 or 11 through 13 to MACT Subpart DDDDD that apply to you. These instances are deviations from the emission limits or operating limits, respectively, in MACT Subpart DDDDD. These deviations must be reported according to the requirements in §63.7550. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLES 2, 3 & 4 TO MACT SUBPART DDDDD ARE ALL LISTED UNDER §63.7500, ABOVE]

(c) [N/A - THE BOILER IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(d) For startup and shutdown, you must meet the work practice standards according to items 5 and 6 of Table 3 of MACT Subpart DDDDD. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 3 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

[78 FR 7179, Jan. 31, 2013, as amended at 80 FR 72813, Nov. 20, 2015]

Table 8 (Demonstrating Continuous Compliance) to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

As stated in §63.7540, you must show continuous compliance with the emission limitations for each boiler or process heater according to the following:

(1) [N/A - THE BOILER DOES NOT OPERATE A FABRIC FILTER CONTROL]

(2) [N/A - THE BOILER DOES NOT OPERATE A PM CPMS]

(3) [N/A - THE BOILER DOES NOT OPERATE A FABRIC FILTER CONTROL]

(4) If you must meet the operating limits or work practice standards for wet scrubber pressure drop and liquid flow rate, you must demonstrate continuous compliance by:

(a) Collecting the pressure drop and liquid flow rate monitoring system data according to §§63.7525 and 63.7535; and

(b) Reducing the data to 30-day rolling averages; and

(c) Maintaining the 30-day rolling average pressure drop and liquid flow rate at or above the operating limits established during the performance test according to §63.7530(b).

(5) [N/A - THE BOILER DOES NOT OPERATE A WET ACID GAS (HCl) SCRUBBER CONTROL AS DEFINED BY TABLE 4 TO

SECTION E. Source Group Restrictions.

MACT SUBPART DDDDD SINCE THE SCRUBBER DOES NOT USE AN ALKALINE SLURRY/SOLUTION AS ITS SCRUBBING MEDIA; THE SCRUBBING MEDIA IS A WATER SOLUTION; TABLE 4 TO MACT SUBPART DDDDD IS LISTED UNDER §63.7500, ABOVE]

(6) [N/A - THE BOILER DOES NOT OPERATE A DRY SCRUBBER OR CARBON INJECTION CONTROL]

(7) If you must meet the operating limits or work practice standards for electrostatic precipitator (ESP) total secondary electric power input, you must demonstrate continuous compliance by:

(a) Collecting the total secondary electric power input monitoring system data for the ESP according to §§63.7525 and 63.7535; and

(b) Reducing the data to 30-day rolling averages; and

(c) Maintaining the 30-day rolling average total secondary electric power input at or above the operating limits established during the performance test according to §63.7530(b).

(8) If you must meet the operating limits or work practice standards for emission limits using fuel analysis, you must demonstrate continuous compliance by:

(a) Conduct monthly fuel analysis for HCl or mercury or TSM according to Table 6 to MACT Subpart DDDDD; [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 6 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7521, ABOVE] and

(b) Reduce the data to 12-month rolling averages; and

(c) Maintain the 12-month rolling average at or below the applicable emission limit for HCl or mercury or TSM in Tables 1 and 2 or 11 through 13 to MACT Subpart DDDDD; [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE] and

(d) Calculate the HCI, mercury, and/or TSM emission rate from the boiler or process heater in units of lb/mmBTU using Equation 15 and Equations 17, 18, and/or 19 in §63.7530.

(9) If you must meet the operating limits or work practice standards for oxygen content, you must demonstrate continuous compliance by:

(a) Continuously monitor the oxygen content using an oxygen analyzer system according to §63.7525(a). This requirement does not apply to units that install an oxygen trim system since these units will set the trim system to the level specified in §63.7525(a)(7); and

(b) Reducing the data to 30-day rolling averages; and

(c) Maintain the 30-day rolling average oxygen content at or above the lowest hourly average oxygen level measured during the CO performance test.

(10) If you must meet the operating limits or work practice standards for boiler or process heater operating load, you must demonstrate continuous compliance by:

(a) Collecting operating load data or steam generation data every 15 minutes; and

(b) Reducing the data to 30-day rolling averages; and

(c) Maintaining the 30-day rolling average operating load such that it does not exceed 110% of the highest hourly average operating load recorded during the performance test according to §63.7520(c).

(11) [N/A - THE BOILER DOES NOT OPERATE AN SO2 CEMS]

[78 FR 7204, Jan. 31, 2013, as amended at 80 FR 72829, Nov. 20, 2015]

SECTION E. Source Group Restrictions.

 # 020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7541]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate continuous compliance under the emission averaging provision?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7541 How do I demonstrate continuous compliance under the emissions averaging provision?

(a) Following the compliance date, the owner or operator must demonstrate compliance with MACT Subpart DDDDD on a continuous basis by meeting the requirements of paragraphs (a)(1) through (5), below.

(1) For each calendar month, demonstrate compliance with the average weighted emissions limit for the existing units participating in the emissions averaging option as determined in §63.7522(f) and (g).

(2) [N/A - THE BOILER DOES NOT OPERATE A FABRIC FILTER CONTROL; THEREFORE, THERE IS NO APPLICABLE OPACITY LIMIT]

(3) For each existing unit participating in the emissions averaging option that is equipped with a wet scrubber, maintain the 30-day rolling average parameter values at or above the operating limits established during the most recent performance test.

(4) For each existing unit participating in the emissions averaging option that has an approved alternative operating parameter, maintain the 30-day rolling average parameter values consistent with the approved monitoring plan.

(5) For each existing unit participating in the emissions averaging option venting to a common stack configuration containing affected units from other subcategories, maintain the appropriate operating limit for each unit as specified in Table 4 to MACT Subpart DDDDD that applies. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 4 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(b) Any instance where the owner or operator fails to comply with the continuous monitoring requirements in paragraphs (a)(1) through (5), above, is a deviation.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7182, Jan. 31, 2013]

 # 021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7545]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What notifications must I submit and when?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7545 What notifications must I submit and when?

(a) You must submit to the Administrator all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply to you by the dates specified.

(b) As specified in §63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013. [NOTE: THE PERMITTEE SUBMITTED THE INITIAL NOTIFICATION TO U.S. EPA AND DEP VIA A LETTER DATED MARCH 26, 2014 (RECEIVED BY DEP ON MARCH 31, 2014)]

(c) [N/A - THE BOILER STARTUP OCCURRED BEFORE JANUARY 31, 2013]

(d) If you are required to conduct a performance test you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.

(e) If you are required to conduct an initial compliance demonstration as specified in §63.7530, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, you must submit the Notification of Compliance Status, including all performance test results and fuel

SECTION E. Source Group Restrictions.

analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to §63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8), below, as applicable. If you are not required to conduct an initial compliance demonstration as specified in §63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8), below, and must be submitted within 60 days of the compliance date specified at §63.7495(b). [NOTE: THE NOTIFICATION OF COMPLIANCE STATUS (NOCS) WAS DUE NO LATER THAN JULY 17, 2017; THE PERMITTEE SUBMITTED THE NOCS TO U.S. EPA AND DEP VIA A LETTER DATED JULY 14, 2017 (RECEIVED BY DEP ON JULY 21, 2017)]

(1) A description of the affected unit(s) including identification of which subcategory the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with MACT Subpart DDDDD, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR §241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR §241.3, and justification for the selection of fuel(s) burned during the compliance demonstration.

(2) Summary of the results of all performance tests and fuel analyses, and calculations conducted to demonstrate initial compliance including all established operating limits, and including:

(i) Identification of whether you are complying with the PM emission limit or the alternative total selected metals (TSM) emission limit.

(ii) Identification of whether you are complying with the output-based emission limits or the heat input-based (i.e., lb/mmBTU or ppm) emission limits.

(iii) Identification of whether you are complying with the arithmetic mean of all valid hours of data from the previous 30 operating days or of the previous 720 hours. This identification shall be specified separately for each operating parameter.

(3) A summary of the maximum CO emission levels recorded during the performance test to show that you have met any applicable emission standard in Tables 1, 2, or 11 through 13 to MACT Subpart DDDDD, if you are not using a CO CEMS to demonstrate compliance. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(4) Identification of whether you plan to demonstrate compliance with each applicable emission limit through performance testing, a CEMS, or fuel analysis.

(5) Identification of whether you plan to demonstrate compliance by emissions averaging and identification of whether you plan to demonstrate compliance by using efficiency credits through energy conservation:

(i) If you plan to demonstrate compliance by emissions averaging, report the emissions level that was being achieved or the control technology employed on January 31, 2013.

(ii) [Reserved]

(6) A signed certification that you have met all applicable emission limits and work practice standards.

(7) If you had a deviation from any emission limit, work practice standard, or operating limit, you must also submit a description of the deviation, the duration of the deviation, and the corrective action taken in the Notification of Compliance Status report.

(8) In addition to the information required in §63.9(h)(2), your Notification of Compliance Status must include the following certification(s) of compliance, as applicable, and signed by a responsible official:

(i) “This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR Part 63, Subpart DDDDD, at this site according to the procedures in §63.7540(a)(10)(i) through (vi).”

(ii) “This facility has had an energy assessment performed according to §63.7530(e).”

SECTION E. Source Group Restrictions.

(iii) Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in Section 129(g)(1) of the Clean Air Act, include the following: "No secondary materials that are solid waste were combusted in any affected unit."

(f) [N/A - THE BOILER DOES NOT BURN NATURAL GAS, REFINERY GAS, OR ANY OTHER GAS 1 FUELS]

(g) If you intend to commence or recommence combustion of solid waste, you must provide 30 days prior notice of the date upon which you will commence or recommence combustion of solid waste. The notification must identify:

(1) The name of the owner or operator of the affected source, as defined in §63.7490, the location of the source, the boiler(s) or process heater(s) that will commence burning solid waste, and the date of the notice.

(2) The currently applicable subcategory under MACT Subpart DDDDD.

(3) The date on which you became subject to the currently applicable emission limits.

(4) The date upon which you will commence combusting solid waste.

(h) If you have switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, you must provide notice of the date upon which you switched fuels or made the physical change within 30 days of the switch/change. The notification must identify:

(1) The name of the owner or operator of the affected source, as defined in §63.7490, the location of the source, the boiler(s) and process heater(s) that have switched fuels and/or were physically changed, and the date of the notice.

(2) The currently applicable subcategory under MACT Subpart DDDDD.

(3) The date upon which the fuel switch or physical change occurred.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7183, Jan. 31, 2013; 80 FR 72814, Nov. 20, 2015]

 # 022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What reports must I submit and when?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7550 What reports must I submit and when?

(a) You must submit each report in Table 9 to MACT Subpart DDDDD that applies to you. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 9 TO MACT SUBPART DDDDD ARE LISTED BELOW]

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report, according to paragraph (h), below, by the date in Table 9 to MACT Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4), below. For units that are subject only to a requirement to conduct subsequent annual, biennial, or 5-year tune-ups according to §63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or Table 4 operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4), below, instead of a semi-annual compliance report. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 9 TO MACT SUBPART DDDDD ARE LISTED BELOW; ALSO, THE APPLICABLE REQUIREMENTS OF TABLE 4 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(1) The first semi-annual compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for your source in §63.7495. If submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on December 31 within 1, 2, or 5 years, as applicable, after the compliance date that is specified for your source in §63.7495. [NOTE: THE RELEVANT COMPLIANCE

SECTION E. Source Group Restrictions.

DATE FOR THE BOILER WAS JANUARY 31, 2017 PURSUANT TO SECTION E (GROUP 003), CONDITION #006(b), ABOVE; THE FIRST SEMI-ANNUAL COMPLIANCE REPORT COVERED THE PERIOD OF JANUARY 31, 2017 THROUGH DECEMBER 31, 2017]

(2) The first semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in §63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31. [NOTE: THE FIRST SEMI-ANNUAL COMPLIANCE REPORT COVERING THE PERIOD OF JANUARY 31, 2017 THROUGH DECEMBER 31, 2017 WAS DUE NO LATER THAN JANUARY 31, 2018; THE PERMITTEE SUBMITTED THE FIRST SEMI-ANNUAL COMPLIANCE REPORT TO U.S. EPA (VIA CEDRI ON JANUARY 26, 2018) AND DEP (VIA A LETTER DATED JANUARY 26, 2018; RECEIVED BY DEP ON FEBRUARY 1, 2018)]

(3) Each subsequent semi-annual compliance report must cover the semi-annual reporting period from January 1 through June 30 or the semi-annual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.

(4) Each subsequent semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semi-annual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.

(5) For each affected source that is subject to permitting regulations pursuant to Part 70 or Part 71 of Chapter I, and if the permitting authority has established dates for submitting semi-annual reports pursuant to §70.6(a)(3)(iii)(A) or §71.6(a)(3)(iii)(A), you may submit the first and subsequent semi-annual compliance reports according to the dates the permitting authority has established in the permit instead of according to the dates in paragraphs (b)(1) through (4), above. [NOTE: THE FACILITY POSSESSES TITLE V OPERATING PERMIT NO. 07-05001F]

(c) A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.

(1) If the facility is subject to the requirements of a tune-up, you must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv) and (xvii), below, and paragraph (c)(5)(iv), below, for limited-use boiler or process heater.

(2) If you are complying with the fuel analysis, you must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (vi), (x), (xi), (xiii), (xv), (xvii), (xviii) and paragraph (d), below.

(3) If you are complying with the applicable emissions limit with performance testing, you must submit a compliance report with the information in (c)(5)(i) through (iii), (vi), (vii), (viii), (ix), (xi), (xiii), (xv), (xvii), (xviii) and paragraph (d), below.

(4) If you are complying with an emissions limit using a CMS, the compliance report must contain the information required in paragraphs (c)(5)(i) through (iii), (v), (vi), (xi) through (xiii), (xv) through (xviii), and paragraph (e), below.

(5)(i) Company and Facility name and address.

(ii) Process unit information, emissions limitations, and operating parameter limitations.

(iii) Date of report and beginning and ending dates of the reporting period.

(iv) The total operating time during the reporting period.

(v) If you use a CMS, including CEMS, COMS, or CPMS, you must include the monitoring equipment manufacturer(s) and model number(s) and the date of the last CMS certification or audit.

(vi) The total fuel use by each individual boiler or process heater subject to an emission limit within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by the EPA or your basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure.

SECTION E. Source Group Restrictions.

(vii) If you are conducting performance tests once every 3 years consistent with §63.7515(b) or (c), the date of the last 2 performance tests and a statement as to whether there have been any operational changes since the last performance test that could increase emissions.

(viii) A statement indicating that you burned no new types of fuel in an individual boiler or process heater subject to an emission limit. Or, if you did burn a new type of fuel and are subject to a HCl emission limit, you must submit the calculation of chlorine input, using Equation 7 of §63.7530, that demonstrates that your source is still within its maximum chlorine input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of HCl emission rate using Equation 16 of §63.7530 that demonstrates that your source is still meeting the emission limit for HCl emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel and are subject to a mercury emission limit, you must submit the calculation of mercury input, using Equation 8 of §63.7530, that demonstrates that your source is still within its maximum mercury input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of mercury emission rate using Equation 17 of §63.7530 that demonstrates that your source is still meeting the emission limit for mercury emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel and are subject to a total selected metals (TSM) emission limit, you must submit the calculation of TSM input, using Equation 9 of §63.7530, that demonstrates that your source is still within its maximum TSM input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of TSM emission rate, using Equation 18 of §63.7530, that demonstrates that your source is still meeting the emission limit for TSM emissions (for boilers or process heaters that demonstrate compliance through fuel analysis).

(ix) If you wish to burn a new type of fuel in an individual boiler or process heater subject to an emission limit and you cannot demonstrate compliance with the maximum chlorine input operating limit using Equation 7 of §63.7530 or the maximum mercury input operating limit using Equation 8 of §63.7530, or the maximum TSM input operating limit using Equation 9 of §63.7530, you must include in the compliance report a statement indicating the intent to conduct a new performance test within 60 days of starting to burn the new fuel.

(x) A summary of any monthly fuel analyses conducted to demonstrate compliance according to §§63.7521 and 63.7530 for individual boilers or process heaters subject to emission limits, and any fuel specification analyses conducted according to §§63.7521(f) and 63.7530(g).

(xi) If there are no deviations from any emission limits or operating limits in MACT Subpart DDDDD that apply to you, a statement that there were no deviations from the emission limits or operating limits during the reporting period.

(xii) If there were no deviations from the monitoring requirements including no periods during which the CMSs, including CEMS, COMS, and CPMS, were out-of-control as specified in §63.8(c)(7), a statement that there were no deviations and no periods during which the CMS were out-of-control during the reporting period.

(xiii) If a malfunction occurred during the reporting period, the report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by you during a malfunction of a boiler, process heater, or associated air pollution control device or CMS to minimize emissions in accordance with §63.7500(a)(3), including actions taken to correct the malfunction.

(xiv) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.

(xv) If you plan to demonstrate compliance by emissions averaging, certify the emissions level achieved or the control technology employed is no less stringent than the level or control technology contained in the notification of compliance status in §63.7545(e)(5)(i).

(xvi) [N/A - THE BOILER DOES NOT OPERATE ANY CEMS OR A PM CPMS]

(xvii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and

SECTION E. Source Group Restrictions.

completeness of the content of the report.

(xviii) For each instance of startup or shutdown, include the information required to be monitored, collected, or recorded according to the requirements of §63.7555(d).

(d) For each deviation from an emission limit or operating limit in MACT Subpart DDDDD that occurs at an individual boiler or process heater where you are not using a CMS to comply with that emission limit or operating limit, or from the work practice standards for periods of startup and shutdown, the compliance report must additionally contain the information required in paragraphs (d)(1) through (3), below.

(1) A description of the deviation and which emission limit, operating limit, or work practice standard from which you deviated.

(2) Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken.

(3) If the deviation occurred during an annual performance test, provide the date the annual performance test was completed.

(e) For each deviation from an emission limit, operating limit, and monitoring requirement in MACT Subpart DDDDD occurring at an individual boiler or process heater where you are using a CMS to comply with that emission limit or operating limit, the compliance report must additionally contain the information required in paragraphs (e)(1) through (9), below. This includes any deviations from your site-specific monitoring plan as required in §63.7505(d).

(1) The date and time that each deviation started and stopped and description of the nature of the deviation (i.e., what you deviated from).

(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped.

(5) A summary of the total duration of the deviation(s) during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(6) A characterization 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 CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.

(8) A brief description of the source for which there was a deviation.

(9) A description of any changes in CMSs, processes, or controls since the last reporting period for the source for which there was a deviation.

(f)-(g) [Reserved]

(h) You must submit the reports according to the procedures specified in paragraphs (h)(1) through (3), below.

(1) Within 60 days after the date of completing each performance test (as defined in §63.2) required by MACT Subpart DDDDD, you must submit the results of the performance tests, including any fuel analyses, following the procedure specified in either paragraph (h)(1)(i) or (ii), below.

(i) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT Web site (http://www.epa.gov/ttn/chief/ert/index.html), you must submit the results of the performance test to the EPA via

SECTION E. Source Group Restrictions.

the Compliance and Emissions Data Reporting Interface (CEDRI). CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/). Performance test data must be submitted in a file format generated through use of the EPA's ERT or an electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT Web site. 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 Web site, 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/OAPQS/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.

(ii) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site at the time of the test, you must submit the results of the performance test to the Administrator at the appropriate address listed in §63.13.

(2) [N/A - THE BOILER DOES NOT OPERATE ANY CEMS]

(3) You must submit all reports required by Table 9 of MACT Subpart DDDDD electronically to the EPA via the CEDRI. CEDRI can be accessed through the EPA's CDX. You must use the appropriate electronic report in CEDRI for MACT Subpart DDDDD. Instead of using the electronic report in CEDRI for MACT Subpart DDDDD, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (http://www.epa.gov/ttn/chief/cedri/index.html), once the XML schema is available. If the reporting form specific to MACT Subpart DDDDD is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in §63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI.

[78 FR 7183, Jan. 31, 2013, as amended at 80 FR 72814, Nov. 20, 2015]

Table 9 (Reporting Requirements) to 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

As stated in §63.7550, you must comply with the following requirements for reports:

(1) You must submit a semi-annual* compliance report that must contain the following:

(a) Information required in §63.7550(c)(1) through (5), above; and

(b) If there are no deviations from any emission limitation (emission limit and operating limit) that applies to you and there are no deviations from the requirements for work practice standards for periods of startup and shutdown in Table 3 to MACT Subpart DDDDD that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system (CEMS), continuous opacity monitoring system (COMS), and operating parameter monitoring systems, were out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and

(c) If you have a deviation from any emission limitation (emission limit and operating limit) where you are not using a CMS to comply with that emission limit or operating limit, or a deviation from a work practice standard for periods of startup and shutdown, during the reporting period, the report must contain the information in §63.7550(d), above; and

(d) If there were periods during which the CMSs, including CEMS, COMS, and operating parameter monitoring systems, were out-of-control as specified in §63.8(c)(7), or otherwise not operating, the report must contain the information in §63.7550(e), above.

* Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a)

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7205, Jan. 31, 2013; 80 FR 72830, Nov. 20, 2015]

SECTION E. Source Group Restrictions.

 # 023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7555]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What records must I keep?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7555 What records must I keep?

(a) You must keep records according to paragraphs (a)(1) and (2), below.

(1) A copy of each notification and report that you submitted to comply with MACT Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semi-annual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii).

(3) [N/A - THE BOILER IS NOT IN THE "LIMITED USE" SUBCATEGORY]

(b) For each CEMS, COMS, and continuous monitoring system (CMS) you must keep records according to paragraphs (b)(1) through (5), below.

(1) Records described in §63.10(b)(2)(vii) through (xi).

(2) [N/A - THE BOILER DOES NOT OPERATE A PM COMS]

(3) Previous (i.e., superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) [N/A - THE BOILER DOES NOT OPERATE A CEMS]

(5) Records of the date and time that each deviation started and stopped.

(c) You must keep the records required in Table 8 to MACT Subpart DDDDD including records of all monitoring data and calculated averages for applicable operating limits, such as opacity, pressure drop, pH, and operating load, to show continuous compliance with each emission limit and operating limit that applies to you. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 8 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7540, ABOVE]

(d) For each boiler or process heater subject to an emission limit in Tables 1, 2, or 11 through 13 to MACT Subpart DDDDD, you must also keep the applicable records in paragraphs (d)(1) through (13), below. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 2 TO MACT SUBPART DDDDD ARE LISTED UNDER §63.7500, ABOVE]

(1) You must keep records of monthly fuel use by each boiler or process heater, including the type(s) of fuel and amount(s) used.

(2) If you combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to §241.3(b)(1) and (2), you must keep a record that 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 satisfy the definition of "processing" in §241.2. 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 listed as a non-waste under §241.4(a). Units exempt from the incinerator standards under §129(g)(1) of the Clean Air Act because they are qualifying facilities burning a homogeneous waste stream do not need to maintain the records described in this paragraph.

(3) A copy of all calculations and supporting documentation of maximum chlorine fuel input, using Equation 7 of §63.7530, that were done to demonstrate continuous compliance with the HCl emission limit, for sources that demonstrate

SECTION E. Source Group Restrictions.

compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of HCl emission rates, using Equation 16 of §63.7530, that were done to demonstrate compliance with the HCl emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum chlorine fuel input or HCl emission rates. You can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, you must calculate chlorine fuel input, or HCl emission rate, for each boiler and process heater.

(4) A copy of all calculations and supporting documentation of maximum mercury fuel input, using Equation 8 of §63.7530, that were done to demonstrate continuous compliance with the mercury emission limit for sources that demonstrate compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of mercury emission rates, using Equation 17 of §63.7530, that were done to demonstrate compliance with the mercury emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum mercury fuel input or mercury emission rates. You can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, you must calculate mercury fuel input, or mercury emission rates, for each boiler and process heater.

(5) If, consistent with §63.7515(b), you choose to performance (stack) test less frequently than annually, you must keep a record that documents that your emissions in the previous performance (stack) test(s) were less than 75% of the applicable emission limit (or, in specific instances noted in Tables 1 and 2 or 11 through 13 to MACT Subpart DDDDD, less than 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.

(6) Records of the occurrence and duration of each malfunction of the boiler or process heater, or of the associated air pollution control and monitoring equipment.

(7) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in §63.7500(a)(3), including corrective actions to restore the malfunctioning boiler or process heater, air pollution control, or monitoring equipment to its normal or usual manner of operation.

(8) A copy of all calculations and supporting documentation of maximum total selected metals (TSM) fuel input, using Equation 9 of §63.7530, that were done to demonstrate continuous compliance with the TSM emission limit for sources that demonstrate compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of TSM emission rates, using Equation 18 of §63.7530, that were done to demonstrate compliance with the TSM emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum TSM fuel input or TSM emission rates. You can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, you must calculate TSM fuel input, or TSM emission rates, for each boiler and process heater.

(9) You must maintain records of the calendar date, time, occurrence and duration of each startup and shutdown.

(10) You must maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown.

(11) For each startup period, for units selecting paragraph (2) of the definition of “startup” in §63.7575, you must maintain records of the time that clean fuel combustion begins; the time when you start feeding fuels that are not clean fuels; the time when useful thermal energy is first supplied; and the time when the PM controls are engaged.

(12) If you choose to rely on paragraph (2) of the definition of “startup” in §63.7575, for each startup period, you must maintain records of the hourly steam temperature, hourly steam pressure, hourly steam flow, hourly flue gas temperature, and all hourly average CMS data (e.g., CEMS, PM CPMS, COMS, ESP total secondary electric power input, scrubber pressure drop, scrubber liquid flow rate) collected during each startup period to confirm that the control devices are engaged. In addition, if compliance with the PM emission limit is demonstrated using a PM control device, you must maintain records as specified in paragraphs (d)(12)(i) through (iii), below.

(i) For a boiler or process heater with an electrostatic precipitator (ESP), record the number of fields in service, as well as each field's secondary voltage and secondary current during each hour of startup.

SECTION E. Source Group Restrictions.

(ii) [N/A - THE BOILER DOES NOT OPERATE A FABRIC FILTER CONTROL]

(iii) For a boiler or process heater with a wet scrubber needed for filterable PM control, record the scrubber's liquid flow rate and the pressure drop during each hour of startup.

(13) If you choose to use paragraph (2) of the definition of "startup" in §63.7575 and you find that you are unable to safely engage and operate your PM control(s) within one (1) hour of first firing of non-clean fuels, you may choose to rely on paragraph (1) of the definition of "startup" in §63.7575 or you may submit to the delegated permitting authority a request for a variance with the PM controls requirement, as described below.

(i) The request shall provide evidence of a documented manufacturer-identified safety issue.

(ii) The request shall provide information to document that the PM control device is adequately designed and sized to meet the applicable PM emission limit.

(iii) In addition, the request shall contain documentation that:

(A) The unit is using clean fuels to the maximum extent possible to bring the unit and PM control device up to the temperature necessary to alleviate or prevent the identified safety issues prior to the combustion of primary fuel;

(B) The unit has explicitly followed the manufacturer's procedures to alleviate or prevent the identified safety issue; and

(C) Identifies with specificity the details of the manufacturer's statement of concern.

(iv) You must comply with all other work practice requirements, including but not limited to data collection, recordkeeping, and reporting requirements.

(e) If you elect to average emissions consistent with §63.7522, you must additionally keep a copy of the emission averaging implementation plan required in §63.7522(g), all calculations required under §63.7522, including monthly records of heat input or steam generation, as applicable, and monitoring records consistent with §63.7541.

(f) If you elect to use efficiency credits from energy conservation measures to demonstrate compliance according to §63.7533, you must keep a copy of the Implementation Plan required in §63.7533(d) and copies of all data and calculations used to establish credits according to §63.7533(b), (c), and (f).

(g) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS AND IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

(h) [N/A - THE BOILER DOES NOT BURN ANY GASEOUS FUELS AND IS IN THE "STOKERS/SLOPED GRATE/OTHER UNITS DESIGNED TO BURN WET BIOMASS/BIO-BASED SOLID" SUBCATEGORY]

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7185, Jan. 31, 2013; 80 FR 72816, Nov. 20, 2015]

 # 024 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7560]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

In what form and how long must I keep my records?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7560 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site, or they must be accessible from on-site (for example, through a computer network),

SECTION E. Source Group Restrictions.

for at least two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off-site for the remaining three (3) years.

 # 025 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7565]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What parts of the General Provisions apply to me?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

§63.7565 What parts of the General Provisions apply to me?

Table 10 to MACT Subpart DDDDD shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

 # 026 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7575]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What definitions apply to this subpart?

[Additional authority for this permit condition is also derived from Plan Approval No. 07-05001F]

Terms used in 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as well as Section E, Group 003, are defined in the Clean Air Act (CAA); in 40 CFR §63.2 (General Provisions); and in 40 CFR §63.7575.

[78 FR 15664, Mar. 21, 2011, as amended at 78 FR 7163, Jan. 31, 2013; 80 FR 72817, Nov. 20, 2015]

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 004

Group Description: CEM Conditions

Sources included in this group

ID	Name
033	NO. 4 POWER BOILER NAT GAS/#6 OIL/#2 OIL
038	#3 RECOVERY BOILER (BLACK LIQ.SOLIDS/#6 OIL)

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following continuous emission monitoring system (CEMS) and components must be installed, approved by the Department, operated and maintained in accordance with the requirements of 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the Submittal and Approval, Record Keeping and Reporting, and Quality Assurance requirements of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

1. PB4 COMS

(a) Source Combination to be Monitored: PB4
(b) Parameter to be Reported: Opacity
(c) Units of Measurement to be Reported: percent
(d) Moisture Basis of Measurement to be Reported: NA
(e) Correction basis of Measurements to be Reported: NA
(f) Emission Standard: see conditions for Source 033
(g) Averaging Period: see conditions for Source 033

2. PB4 NOx CEMS

(a) Source Combination to be Monitored: PB4

SECTION E. Source Group Restrictions.

(b) Parameter to be Reported: NOx
(c) Units of Measurement to be Reported: lb/MMBtu
(d) Moisture Basis of Measurement to be Reported: N/A
(e) Correction basis of Measurements to be Reported: N/A
(f) Emission Standard: see conditions for Source 033/Subpart Db
(g) Averaging Period: 30-Day Average, Rolling by 1 Day

3. RB3 TRS CEMS

(a) Source Combination to be Monitored: RB3
(b) Parameter to be Reported: TRS
(c) Units of Measurement to be Reported: ppmv
(d) Moisture Basis of Measurement to be Reported: dry
(e) Correction basis of Measurements to be Reported: 8% O2
(f) Emission Standard: 5 ppmv
(g) Averaging Period: 12-Hour Average, Block

4. RB3 East COMS

(a) Source Combination to be Monitored: RB3 East
(b) Parameter to be Reported: Opacity
(c) Units of Measurement to be Reported: percent
(d) Moisture Basis of Measurement to be Reported: NA
(e) Correction basis of Measurements to be Reported: NA
(f) Emission Standard: see conditions for Source 038
(g) Averaging Period: see conditions for Source 038

5. RB3 West COMS

(a) Source Combination to be Monitored: RB3 West
(b) Parameter to be Reported: Opacity
(c) Units of Measurement to be Reported: percent
(d) Moisture Basis of Measurement to be Reported: NA
(e) Correction basis of Measurements to be Reported: NA
(f) Emission Standard: see conditions for Source 038
(g) Averaging Period: see conditions for Source 038

Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the regulations.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) In accordance with 25 Pa. Code Section 139.103(2), opacity monitoring systems shall meet at least one of the following minimum data availability requirements:

(1) At least 90% of the hours in each calendar month shall be valid hours as set forth in the quality assurance section of the manual referenced in § 139.102(3).

(2) At least 95% of the hours in each calendar quarter shall be valid hours as set forth in the quality assurance section of the manual referenced in § 139.102(3).

(b) In accordance with 25 Pa. Code Section 139.108, TRS monitoring systems shall meet at least one of the following minimum data availability requirements:

(1) At least 75% of the 12-hour averages during each calendar month shall be valid 12-hour averages as set forth in the quality assurance section of the manual referenced in § 139.102(3).

(2) At least 85% of the 12-hour averages in each calendar quarter shall be valid 12-hour averages as set forth in the quality

SECTION E. Source Group Restrictions.

assurance section of the manual referenced in §139.102(3).

(c) In accordance with 25 Pa. Code §139.101(12), required monitoring for NOx shall, at a minimum, meet one of the following data availability requirements:

(1) In each calendar month, at least 90% of the time periods for which each emission standard applies, shall be valid as set forth in the Quality Assurance section of the manual referenced in § 139.102(3). or;

(2) In each calendar quarter, at least 95% of the hours shall be valid as set forth in the Quality Assurance section of the manual referenced in § 139.102(3).

Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the regulations.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Certification and Testing Requirements:

A. Initial Application (Phase I): A proposal containing information as listed in the Phase I section of the Department's Continuous Source Monitoring Manual for the CEMS must be submitted at least 180 days prior to the planned initial CEM startup date.

B. Performance Testing (Phase II): Testing as listed in the Phase II section of the Department's Continuous Source Monitoring Manual must be completed for the CEMS no later than 180 days after initial source startup date.

C. Final Approval (Phase III): The final report of testing as listed in the Phase III section of the Department's Continuous Source Monitoring Manual must be submitted to the Department no later than 60 days after completion of testing.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the Record Keeping and Reporting requirements as established in Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001, and

The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.

Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.

Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.

Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with the recordkeeping requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the Record Keeping and Reporting requirements in Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

Records shall be retained for at least 5 years and shall be made available to the Department upon request.

SECTION E. Source Group Restrictions.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Continuous Emission Monitoring Systems and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) and the Quality Assurance requirements in Revision No 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 005

Group Description: Boilers Subject to Presumptive RACT 2

Sources included in this group

ID	Name
033	NO. 4 POWER BOILER NAT GAS/#6 OIL/#2 OIL
036	#3 POWER BOILER (COAL/BARK/SLUDGE/WOOD)

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

25 Pa. Code §129.97 - Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

(a) The owner and operator of a source listed in one or more of parts (b)-(h), below, located at a major NOx-emitting facility or major VOC-emitting facility subject to 25 Pa. Code §129.96 (relating to applicability) shall comply with the applicable presumptive RACT requirement or RACT emission limitation, or both, beginning with the specified compliance date as follows, unless an alternative compliance schedule is submitted and approved under parts (k)-(m) or 25 Pa. Code §129.99 (relating to alternative RACT proposal and petition for alternative compliance schedule):

(1) January 1, 2017, for a source subject to 25 Pa. Code §129.96(a).

(2) [N/A - THE GROUP 005 BOILERS ARE NOT SUBJECT TO 25 Pa. Code §129.96(b)]

(b) The owner and operator of a source specified in this part (25 Pa. Code §129.97(b)), which is located at a major NOx-emitting facility or major VOC-emitting facility subject to 25 Pa. Code §129.96, shall comply with the following:

(1) [N/A - THE GROUP 005 BOILERS EACH HAVE A RATED HEAT INPUT EQUAL TO OR GREATER THAN 50 MILLION BTU/HOUR]

(2) [N/A - THE GROUP 005 BOILERS ARE NOT SUBJECT TO A PRESUMPTIVE RACT TUNE-UP REQUIREMENT]

(3) The applicable recordkeeping requirements of 25 Pa. Code §129.100(d), (e) or (f) (relating to compliance demonstration and recordkeeping requirements).

(c) [N/A - THE GROUP 005 BOILERS DO NOT SATISFY ANY OF THE CATEGORIES SPECIFIED IN (1)-(8) OF THIS SUBSECTION (25 Pa. Code §129.97(c))]

(d) Except as specified under part (c), above, the owner and operator of a combustion unit or other combustion source located at a major VOC-emitting facility subject to 25 Pa. Code §129.96 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices for the control of the VOC emissions from the combustion unit or other combustion source. [NOTE: IN ACCORDANCE WITH 25 Pa. Code §129.100(d), THE PERMITTEE SHALL MAINTAIN A COPY OF THE MANUFACTURER'S SPECIFICATIONS AND RECORDS OF GOOD OPERATING PRACTICES]

(e) [N/A - THE FACILITY IS NOT A MUNICIPAL SOLID WASTE LANDFILL]

(f) [N/A - THE GROUP 005 BOILERS ARE NOT MUNICIPAL WASTE COMBUSTORS]

(g) Except as specified under part (c), above, the owner and operator of a NOx air contamination source specified in this part (25 Pa. Code §129.97(g)), which is located at a major NOx-emitting facility or a VOC air contamination source specified in this part (25 Pa. Code §129.97(g)), which is located at a major VOC-emitting facility subject to 25 Pa. Code §129.96 may not cause, allow or permit NOx or VOCs to be emitted from the air contamination source in excess of the applicable presumptive RACT emission limitation:

(1) A combustion unit or process heater:

SECTION E. Source Group Restrictions.

(i) For a natural gas-fired combustion unit or process heater with a rated heat input equal to or greater than 50 million BTU/hour, 0.10 lb NOx/million BTU heat input. [NOTE: THIS IS APPLICABLE TO SOURCE ID 033 ONLY]

(ii) For a distillate oil-fired combustion unit or process heater with a rated heat input equal to or greater than 50 million BTU/hour, 0.12 lb NOx/million BTU heat input. [NOTE: THIS IS APPLICABLE TO SOURCE ID 033 ONLY]

(iii) For a residual oil-fired or other liquid fuel-fired combustion unit or process heater with a rated heat input equal to or greater than 50 million BTU/hour, 0.20 lb NOx/million BTU heat input. [NOTE: THIS IS APPLICABLE TO SOURCE ID 033 ONLY]

(iv) [N/A - THE GROUP 005 BOILERS DO NOT FIRE REFINERY GAS]

(v) For a coal-fired combustion unit with a rated heat input equal to or greater than 50 million BTU/hour and less than 250 million BTU/hour, 0.45 lb NOx/million Btu heat input. [NOTE: THIS IS APPLICABLE TO SOURCE ID 036 ONLY]

(vi) [N/A - THE GROUP 005 BOILERS EACH HAVE A RATED HEAT INPUT LESS THAN 250 MILLION BTU/HOUR]

(vii) For any other type of solid fuel-fired combustion unit with a rated heat input equal to or greater than 50 million BTU/hour, 0.25 lb NOx/million BTU heat input. [NOTE: THIS IS APPLICABLE TO SOURCE ID 036 ONLY]

(viii) [N/A - THE GROUP 005 BOILERS ARE NOT CONTROLLED BY SCR]

(ix) [N/A - THE GROUP 005 BOILERS ARE NOT CONTROLLED BY SNCR]

(2) [N/A - THE GROUP 005 BOILERS ARE NOT COMBUSTION TURBINES]

(3) [N/A - THE GROUP 005 BOILERS ARE NOT STATIONARY INTERNAL COMBUSTION ENGINES]

(4) A unit firing multiple fuels:

(i) The applicable RACT multiple fuel emission limit shall be determined on a total heat input fuel-weighted basis using the following equation:

EHIweighted = [Çn i = 1 (EiHIi)] / [Çn i = 1 (HIi)] {Equation 1}

Where:

EHIweighted = The heat input fuel-weighted multiple fuel emission rate or emission limitation for the compliance period, expressed in units of measure consistent with the units of measure for the emission limitation,

Ç = Symbol used to denote summation,

n = The number of different fuels used during the compliance period,

Ei = The emission rate or emission limit for fuel "i" during the compliance period, expressed in units of measure consistent with the units of measure for the emission limitation,

HIi = The total heat input for fuel "i" during the compliance period,

The symbol "/" means "divided by".

(ii) A fuel representing less than 1% of the unit's annual fuel consumption on a heat input basis is excluded when determining the applicable RACT multiple fuel emission limit calculated in accordance with part (g)(4)(i) [re: Equation 1], above.

SECTION E. Source Group Restrictions.

(iii) [N/A - THE GROUP 005 BOILERS ARE NOT STATIONARY INTERNAL COMBUSTION ENGINES]

(h) [N/A - THE GROUP 005 BOILERS ARE NOT PORTLAND CEMENT KILNS]

(i) The requirements and emission limitations of this section (25 Pa. Code §129.97) supersede the requirements and emission limitations of a RACT permit issued to the owner or operator of an air contamination source subject to one or more of parts (b)-(h) prior to April 23, 2016, under 25 Pa. Code §§129.91-129.95 (relating to stationary sources of NOx and VOCs) to control, reduce or minimize NOx emissions or VOC emissions, or both, from the air contamination source unless the permit contains more stringent requirements or emission limitations, or both.

(j) [N/A - THE GROUP 005 BOILERS ARE NOT SUBJECT TO THE REQUIREMENTS AND EMISSION LIMITATIONS OF 25 Pa. Code §§129.201-129.205, 145.111-145.113 and 145.141-145.146]

(k) [N/A - AN ALTERNATIVE COMPLIANCE SCHEDULE IS NOT REQUIRED]

(l) [N/A - AN ALTERNATIVE COMPLIANCE SCHEDULE IS NOT REQUIRED]

(m) [N/A - AN ALTERNATIVE COMPLIANCE SCHEDULE IS NOT REQUIRED]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

25 Pa. Code §129.100 - Compliance demonstration and recordkeeping requirements.

(a) Except as provided part (c), below, the owner and operator of an air contamination source subject to a NOx requirement or RACT emission limitation or VOC requirement or RACT emission limitation, or both, listed in 25 Pa. Code §129.97 (relating to presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation by performing the following monitoring or testing procedures:

(1) For an air contamination source with a CEMS, monitoring and testing in accordance with the requirements of Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) using a 30-day rolling average, except municipal waste combustors. [NOTE: THIS IS APPLICABLE TO SOURCE ID 033 ONLY, REGARDING NOx CEMS]

(i) A 30-day rolling average emission rate for an air contamination source that is a combustion unit shall be expressed in pounds per million BTU and calculated in accordance with the following procedure:

(A) Sum the total pounds of pollutant emitted from the combustion unit for the current operating day and the previous 29 operating days.

(B) Sum the total heat input to the combustion unit in million BTU for the current operating day and the previous 29 operating days.

(C) Divide the total number of pounds of pollutant emitted by the combustion unit for the 30 operating days by the total heat input to the combustion unit for the 30 operating days.

(ii) A 30-day rolling average emission rate for each applicable RACT emission limitation shall be calculated for an

SECTION E. Source Group Restrictions.

affected air contamination source for each consecutive operating day.

(iii) Each 30-day rolling average emission rate for an affected air contamination source must include the emissions that occur during the entire operating day, including emissions from start-ups, shutdowns and malfunctions.

(2) [N/A - THE GROUP 005 BOILERS ARE NOT PORTLAND CEMENT KILNS]

(3) [N/A - THE GROUP 005 BOILERS ARE NOT MUNICIPAL WASTE COMBUSTORS]

(4) For an air contamination source without a CEMS, monitoring and testing in accordance with a Department-approved emissions source test that meets the requirements of Chapter 139, Subchapter A (relating to sampling and testing methods and procedures). The source test shall be conducted one time in each 5-year calendar period. [NOTE: THIS IS APPLICABLE TO SOURCE ID 036 ONLY, REGARDING NOx SOURCE TESTING]

(b) Except as provided in 25 Pa. Code §129.97(k) and 25 Pa. Code §129.99(i) (relating to alternative RACT proposal and petition for alternative compliance schedule), the owner and operator of an air contamination source subject to part (a), above, shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation in accordance with the procedures in part (a), above, not later than:

(1) January 1, 2017, for a source subject to 25 Pa. Code §129.96(a) (relating to applicability).

(2) [N/A - THE GROUP 005 BOILERS ARE NOT SUBJECT TO 25 Pa. Code §129.96(b)]

(c) An owner or operator of an air contamination source subject to this section (25 Pa. Code §129.100), 25 Pa. Code §§129.96 and 129.97, and 25 Pa. Code §129.98 (relating to facility-wide or system-wide NOx emissions averaging plan general requirements) may request a waiver from the requirement to demonstrate compliance with the applicable emission limitation listed in 25 Pa. Code §129.97 if the following requirements are met:

(1) The request for a waiver is submitted, in writing, to the Department not later than:

(i) October 24, 2016, for a source subject to 25 Pa. Code §129.96(a). [NOTE: THE PERMITTEE SUBMITTED A NOx EMISSIONS SOURCE TEST WAIVER REQUEST FOR SOURCE ID 036 ON OCTOBER 24, 2016]

(ii) [N/A - THE GROUP 005 BOILERS ARE NOT SUBJECT TO 25 Pa. Code §129.96(b)]

(2) The request for a waiver demonstrates that a Department-approved emissions source test was performed in accordance with the requirements of Chapter 139, Subchapter A, on or after:

(i) April 23, 2015, for a source subject to 25 Pa. Code §129.96(a). [NOTE: THE PERMITTEE PERFORMED A DEPARTMENT-APPROVED NOx EMISSIONS SOURCE TEST OF SOURCE ID 036 ON OCTOBER 6, 2015]

(ii) [N/A - THE GROUP 005 BOILERS ARE NOT SUBJECT TO 25 Pa. Code §129.96(b)]

(3) The request for a waiver demonstrates to the satisfaction of the Department that the test results show that the source's rate of emissions is in compliance with the source's applicable NOx emission limitation or VOC emission limitation. [NOTE: THE PERMITTEE'S SOURCE ID 036 NOx EMISSIONS SOURCE TEST WAIVER REQUEST (RE: OCTOBER 6, 2015 NOx EMISSIONS SOURCE TEST) DEMONSTRATED TO THE DEPARTMENT'S SATISFACTION THAT THE NOx EMISSIONS SOURCE TEST RESULTS SHOWED THAT SOURCE ID 036's NOx EMISSIONS RATE WAS IN COMPLIANCE WITH SOURCE ID 036's APPLICABLE NOx EMISSION LIMITATION]

(4) The Department approves, in writing, the request for a waiver. [NOTE: THE DEPARTMENT APPROVED THE PERMITTEE'S SOURCE ID 036 NOx EMISSIONS SOURCE TEST WAIVER REQUEST (RE: OCTOBER 6, 2015 NOx EMISSIONS SOURCE TEST) VIA AN APRIL 19, 2017 E-MAIL]

(d) The owner and operator of an air contamination source subject to this section (25 Pa. Code §129.100) and 25 Pa. Code §§129.96 - 129.99 shall keep records to demonstrate compliance with 25 Pa. Code §§129.96 - 129.99 in the following manner:

SECTION E. Source Group Restrictions.

(1) The records must include sufficient data and calculations to demonstrate that the requirements of 25 Pa. Code §§129.96 - 129.99 are met.

(2) Data or information required to determine compliance shall be recorded and maintained in a time frame consistent with the averaging period of the requirement.

(e) [N/A - THE GROUP 005 BOILERS ARE NOT EXEMPT FROM THE NOx REQUIREMENTS OF 25 Pa. Code §129.97]

(f) [N/A - THE GROUP 005 BOILERS ARE NOT EXEMPT FROM THE VOC REQUIREMENTS OF 25 Pa. Code §129.97]

(g) [N/A - THE GROUP 005 BOILERS ARE NOT SUBJECT TO 25 Pa. Code §129.97(b)]

(h) [N/A - THE GROUP 005 BOILERS ARE NOT PORTLAND CEMENT KILNS]

(i) The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 006

Group Description: Sources Subject to Subpart MM 40 CFR Sections 63.860 to 63.868

Sources included in this group

ID	Name
038	#3 RECOVERY BOILER (BLACK LIQ.SOLIDS/#6 OIL)
103A	LIME KILN
108	NO. 3 SMELT TANK

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.860]

Subpart MM--National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills

Applicability and designation of affected source.

§63.860 Applicability and designation of affected source.

(a) The requirements of this subpart apply to the owner or operator of each kraft, soda, sulfite, or stand-alone semichemical pulp mill that is a major source of hazardous air pollutants (HAP) emissions as defined in §63.2.

(b) Affected sources. The requirements of this subpart apply to each new or existing affected source listed in paragraphs (b)(1) through (7) of this section:

(1) Each existing chemical recovery system (as defined in §63.861) located at a kraft or soda pulp mill.

(2) [NA NO NEW NONDIRECT CONTACT EVAPORATOR (NDCE) RECOVERY FURNACE]

(3) [NA NO NEW DIRECT CONTACT EVAPORATOR (DCE) RECOVERY FURNACE SYSTEM]

(4) [NA – NO NEW LIME KILN]

SECTION E. Source Group Restrictions.

(5) [NA – NO SULFITE COMBUSTION UNIT]

(6) [NA – NOT A SEMICHEMICAL PULP MILL]

(7) [NA – APPLIES TO A DIFFERENT SPECIFIC FACILITY]

(c) The requirements of the General Provisions in subpart A of this part that apply to the owner or operator subject to the requirements of this subpart are identified in Table 1 to this subpart.

(d) At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[66 FR 3193, Jan. 12, 2001, as amended at 68 FR 7713, Feb. 18, 2003; 82 FR 47347, Oct. 11, 2017]

§63.861 Definitions. [INCORPORATED BY REFERENCE]

§63.862 Standards.

(a) Standards for HAP metals: existing sources. (1) Each owner or operator of an existing kraft or soda pulp mill must comply with the requirements of either paragraph (a)(1)(i) or (ii) of this section.

(i) Each owner or operator of a kraft or soda pulp mill must comply with the PM emissions limits in paragraphs (a)(1)(i)(A) through (C) of this section.

(A) The owner or operator of each existing kraft or soda recovery furnace must ensure that the concentration of PM in the exhaust gases discharged to the atmosphere is less than or equal to 0.10 gram per dry standard cubic meter (g/dscm) (0.044 grain per dry standard cubic foot (gr/dscf)) corrected to 8 percent oxygen.

(B) The owner or operator of each existing kraft or soda smelt dissolving tank must ensure that the concentration of PM in the exhaust gases discharged to the atmosphere is less than or equal to 0.10 kilogram per megagram (kg/Mg) (0.20 pound per ton (lb/ton)) of black liquor solids fired.

(C) The owner or operator of each existing kraft or soda lime kiln must ensure that the concentration of PM in the exhaust gases discharged to the atmosphere is less than or equal to 0.15 g/dscm (0.064 gr/dscf) corrected to 10 percent oxygen.

(ii) As an alternative to meeting the requirements of §63.862(a)(1)(i), each owner or operator of a kraft or soda pulp mill may establish PM emissions limits for each existing kraft or soda recovery furnace, smelt dissolving tank, and lime kiln that operates 6,300 hours per year or more by:

(A) Establishing an overall PM emission limit for each existing process unit in the chemical recovery system at the kraft or soda pulp mill using the methods in §63.865(a)(1) and (2).

(B) The emissions limits for each kraft recovery furnace, smelt dissolving tank, and lime kiln that are used to establish the overall PM limit in paragraph (a)(1)(ii)(A) of this section must not be less stringent than the emissions limitations required by §60.282 of part 60 of this chapter for any kraft recovery furnace, smelt dissolving tank, or lime kiln that is subject to the requirements of §60.282. [NOTE: SOURCE ID 103A, LIME KILN IS NOT SUBJECT TO THE REQUIREMEMENTS OF SECTION 60.282]

(C) Each owner or operator of an existing kraft or soda recovery furnace, smelt dissolving tank, or lime kiln must ensure that the PM emissions discharged to the atmosphere from each of these sources are less than or equal to the applicable PM emissions limits, established using the methods in §63.865(a)(1), that are used to establish the overall PM

SECTION E. Source Group Restrictions.

emissions limits in paragraph (a)(1)(ii)(A) of this section.

(D) Each owner or operator of an existing kraft or soda recovery furnace, smelt dissolving tank, or lime kiln must reestablish the emissions limits determined in paragraph (a)(1)(ii)(A) of this section if either of the actions in paragraphs (a)(1)(ii)(D)(1) and (2) of this section are taken:

(1) The air pollution control system for any existing kraft or soda recovery furnace, smelt dissolving tank, or lime kiln for which an emission limit was established in paragraph (a)(1)(ii)(A) of this section is modified (as defined in §63.861) or replaced; or

(2) Any kraft or soda recovery furnace, smelt dissolving tank, or lime kiln for which an emission limit was established in paragraph (a)(1)(ii)(A) of this section is shut down for more than 60 consecutive days.

(iii) Each owner or operator of an existing kraft or soda recovery furnace, smelt dissolving tank, or lime kiln that operates less than 6,300 hours per year must comply with the applicable PM emissions limits for that process unit provided in paragraph (a)(1)(i) of this section.

(2) [NA – NO SULFITE COMBUSTION UNIT]

(b) [NA – SOURCES ARE EXISTING]

(c) Standards for gaseous organic HAP. (1) [NA – SOURCES ARE EXISTING]

(2) [NA – NO SEMICHEMICAL COMBUSTION UNIT]

(d) NA – APPLIES TO OTHER SPECIFIC FACILITY]

[66 FR 3193, Jan. 12, 2001, as amended at 68 FR 7713, Feb. 18, 2003; 68 FR 67954, Dec. 5, 2003; 82 FR 47347, Oct. 11, 2017]

§63.863 Compliance dates.

(a) The owner or operator of an existing affected source or process unit must comply with the requirements in this subpart no later than March 13, 2004, except as noted in paragraph (c) of this section.

(b) [NA – SOURCES ARE EXISTING]

(c) The owner or operator of an existing source or process unit must comply with the revised requirements published on October 11, 2017 no later than October 11, 2019, with the exception of the following:

(1) The first of the 5-year periodic performance tests must be conducted by October 13, 2020, and thereafter within 5 years following the previous performance test; and

(2) The date to submit performance test data through the CEDRI is within 60 days after the date of completing each performance test.

[66 FR 3193, Jan. 12, 2001, as amended at 66 FR 16408, Mar. 26, 2001; 66 FR 37593, July 19, 2001; 68 FR 46108, Aug. 5, 2003; 82 FR 47347, Oct. 11, 2017]

§63.864 Monitoring requirements.

(a)-(c) [Reserved]

(d) Continuous opacity monitoring system (COMS). The owner or operator of each affected kraft or soda recovery furnace or lime kiln equipped with an ESP must install, calibrate, maintain, and operate a COMS in accordance with Performance Specification 1 (PS-1) in appendix B to 40 CFR part 60 and the provisions in §§63.6(h) and 63.8 and paragraphs (d)(3) and (4) of this section.

SECTION E. Source Group Restrictions.

(1)-(2) [Reserved]

(3) As specified in §63.8(c)(4)(i), each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(4) As specified in §63.8(g)(2), each 6-minute COMS data average must be calculated as the average of 36 or more data points, equally spaced over each 6-minute period.

(e) Continuous parameter monitoring system (CPMS). For each CPMS required in this section, the owner or operator of each affected source or process unit must meet the requirements in paragraphs (e)(1) through (14) of this section. [APPLIES TO THE CONTINUOUS PARAMETER MONITORING SYSTEMS (CPMS) USED TO MONITOR THE PARTICULATE MATTER CONTROL DEVICES ON NO 3. RECOVERY BOILER, NO. 3 SMELT TANK AND LIME KILN.]

(1) For any kraft or soda recovery furnace or lime kiln using an ESP emission control device, the owner or operator must maintain proper operation of the ESP's automatic voltage control (AVC).

(2) [NA – NO AFFECTED UNITS ARE EQUIPPED WITH AN ESP FOLLOWED BY A WET SCRUBBER]

(3)-(9) [Reserved]

(10) The owner or operator of each affected kraft or soda recovery furnace, kraft or soda lime kiln, sulfite combustion unit, or kraft or soda smelt dissolving tank equipped with a wet scrubber must install, calibrate, maintain, and operate a CPMS that can be used to determine and record the pressure drop across the scrubber and the scrubbing liquid flow rate at least once every successive 15-minute period using the procedures in §63.8(c), as well as the procedures in paragraphs (e)(10)(i) and (ii) of this section:

(i) A monitoring device used for the continuous measurement of the pressure drop of the gas stream across the scrubber must be certified by the manufacturer to be accurate to within a gage pressure of ±500 pascals (±2 inches of water gage pressure); and

(ii) A monitoring device used for continuous measurement of the scrubbing liquid flow rate must be certified by the manufacturer to be accurate within ±5 percent of the design scrubbing liquid flow rate.

(iii) [NA – THE FACILITY MEASURES PRESSURE DROP]

(11) [NA – NO SEMICHEMICAL COMBUSTION UNIT]

(12) [NA – APPLIES TO OTHER SPECIFIC FACILITY]

(13) The owner or operator of each affected source or process unit that uses an ESP, wet scrubber, RTO, or fabric filter may monitor alternative control device operating parameters subject to prior written approval by the Administrator. The request for approval must also include the manner in which the parameter operating limit is to be set.

(14) [NA – “OTHER” CONTROL DEVICES NOT USED]

(f) Data quality assurance. The owner or operator shall keep CMS data quality assurance procedures consistent with the requirements in §63.8(d)(1) and (2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan in §63.8(d)(2) is revised, the owner or operator shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan required under §63.8(d)(2).

(g) [NA – NOT SUBJECT TO §63.862(c)(1)]

(h) Monitoring data. As specified in §63.8(g)(5), monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high level adjustments

SECTION E. Source Group Restrictions.

must not be included in any data average computed under this subpart.

(i) [Reserved]

(j) Determination of operating limits. (1) During the initial or periodic performance test required in §63.865, the owner or operator of any affected source or process unit must establish operating limits for the monitoring parameters in paragraphs (e)(1) and (2) and (e)(10) through (14) of this section, as appropriate; or [NOTE: SUBPART MM INITIAL PERFORMANCE TESTING SOURCES 103A (LIME KILN), AND 108 (NO. 3 SMELT TANK) WAS COMPLETED IN 2004. THE TESTING ESTABLISHED ACCEPTABLE RANGES OF OPERATION FOR THE SCRUBBERS ON EACH OF SOURCES 103A (LIME KILN) AND 108 (NO.3 SMELT TANK) OF: >= 23" W.C. OF PRESSURE DROP AND >=255 GPM LIQUID FLOW RATE FOR THE LIME KILN SCRUBBER (C23); AND >= 12" W.C. OF PRESSURE DROP AND >=125 GPM MANIFOLD FLOW RATE, >=75 GPM COMBINED VENTURI AND FLOODED ELBOW FLOW RATE FOR THE SMELT TANK SCRUBBER (C08)]

(2) The owner or operator may base operating limits on values recorded during previous performance tests or conduct additional performance tests for the specific purpose of establishing operating limits, provided that data used to establish the operating limits are or have been obtained during testing that used the test methods and procedures required in this subpart. The owner or operator of the affected source or process unit must certify that all control techniques and processes have not been modified subsequent to the testing upon which the data used to establish the operating parameter limits were obtained.

(3) The owner or operator of an affected source or process unit may establish expanded or replacement operating limits for the monitoring parameters listed in paragraphs (e)(1) and (2) and (e)(10) through (14) of this section and established in paragraph (j)(1) or (2) of this section during subsequent performance tests using the test methods in §63.865.

(4) The owner or operator of the affected source or process unit must continuously monitor each parameter and determine the arithmetic average value of each parameter during each performance test run. Multiple performance tests may be conducted to establish a range of parameter values. Operating outside a previously established parameter limit during a performance test to expand the operating limit range does not constitute a monitoring exceedance. Operating limits must be confirmed or reestablished during performance tests.

(5) New, expanded, or replacement operating limits for the monitoring parameter values listed in paragraphs (e)(1) and (2) and (e)(10) through (14) of this section should be determined as described in paragraphs (j)(5)(i) and (ii) of this section.

(i) The owner or operator of an affected source or process unit that uses a wet scrubber must set a minimum scrubber pressure drop operating limit as the lowest of the 1-hour average pressure drop values associated with each test run demonstrating compliance with the applicable emission limit in §63.862.

(A) For a smelt dissolving tank dynamic wet scrubber operating at ambient pressure or for low-energy entrainment scrubbers where fan speed does not vary, the minimum fan amperage operating limit must be set as the lowest of the 1-hour average fan amperage values associated with each test run demonstrating compliance with the applicable emission limit in §63.862.

(B) [Reserved]

(ii) [NOT APPLICABLE – NO RTO]

(k) On-going compliance provisions. (1) Following the compliance date, owners or operators of all affected sources or process units are required to implement corrective action if the monitoring exceedances in paragraphs (k)(1)(i) through (vii) of this section occur during times when spent pulping liquor or lime mud is fed (as applicable). Corrective action can include completion of transient startup and shutdown conditions as expediently as possible.

(i) For a new or existing kraft or soda recovery furnace or lime kiln equipped with an ESP, when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity;

(ii) For a new or existing kraft or soda recovery furnace, kraft or soda smelt dissolving tank, kraft or soda lime kiln, or sulfite combustion unit equipped with a wet scrubber, when any 3-hour average parameter value is below the minimum operating limit established in paragraph (j) of this section, with the exception of pressure drop during periods of startup and

shutdown;

(iii) [NA – NO AFFECTED UNITS ARE EQUIPPED WITH AN ESP FOLLOWED BY A WET SCRUBBER]

(iv) [NA - NO SEMICHEMICAL COMBUSTION UNIT]

(v) [NA – APPLIES TO OTHER SPECIFIC FACILITY]

(vi) For an affected source or process unit equipped with an ESP, wet scrubber, RTO, or fabric filter and monitoring alternative operating parameters established in paragraph (e)(13) of this section, when any 3-hour average value does not meet the operating limit established in paragraph (j) of this section; and

(vii) [NA – "OTHER" CONTROL DEVICE NOT USED]

(2) Following the compliance date, owners or operators of all affected sources or process units are in violation of the standards of §63.862 if the monitoring exceedances in paragraphs (k)(2)(i) through (ix) of this section occur during times when spent pulping liquor or lime mud is fed (as applicable):

(i) For an existing kraft or soda recovery furnace equipped with an ESP, when opacity is greater than 35 percent for 2 percent or more of the operating time within any semiannual period;

(ii) [NA – SOURCES ARE EXISTING]

(iii) [NA – KILN NOT EQUIPPED WITH ESP]

(iv) For a new or existing kraft or soda recovery furnace, kraft or soda smelt dissolving tank, kraft or soda lime kiln, or sulfite combustion unit equipped with a wet scrubber, when six or more 3-hour average parameter values within any 6-month reporting period are below the minimum operating limits established in paragraph (j) of this section, with the exception of pressure drop during periods of startup and shutdown;

(v) [NA – NO ESP FOLLOWED BY WET SCRUBBER]

(vi) NA - NO SEMICHEMICAL COMBUSTION UNIT]

(vii) [NA – APPLIES TO OTHER SPECIFIC FACILITY]

(viii) For an affected source or process unit equipped with an ESP, wet scrubber, RTO, or fabric filter and monitoring alternative operating parameters established in paragraph (e)(13) of this section, when six or more 3-hour average values within any 6-month reporting period do not meet the operating limits established in paragraph (j) of this section; and

(ix) [NA – "OTHER" CONTROL DEVICE NOT USED]

(3) For purposes of determining the number of nonopacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period.

[68 FR 7713, Feb. 18, 2003, as amended at 68 FR 42605, July 18, 2003; 68 FR 67955, Dec. 5, 2003; 71 FR 20458, Apr. 20, 2006; 82 FR 47348, Oct. 11, 2017]

§63.865 Performance test requirements and test methods.

The owner or operator of each affected source or process unit subject to the requirements of this subpart is required to conduct an initial performance test and periodic performance tests using the test methods and procedures listed in §63.7 and paragraph (b) of this section. The owner or operator must conduct the first of the periodic performance tests within 3 years of the effective date of the revised standards and thereafter within 5 years following the previous performance test. Performance tests shall be conducted based on representative performance (i.e., performance based on normal operating conditions) of the affected source for the period being tested. Representative conditions exclude periods of startup and shutdown. The owner or operator may not conduct performance tests during periods of malfunction. The owner or operator

SECTION E. Source Group Restrictions.

must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

(a) The owner or operator of a process unit seeking to comply with a PM emission limit under §63.862(a)(1)(ii)(A) must use the procedures in paragraphs (a)(1) and (2) of this section:

(1) Determine the overall PM emission limit for the chemical recovery system at the mill using Equation 1 of this section as follows: [SEE REGULATION FOR EQUATION]

(2) Establish an emission limit for each kraft or soda recovery furnace, smelt dissolving tank, and lime kiln; and, using these emissions limits, determine the overall PM emission rate for the chemical recovery system at the mill using the procedures in paragraphs (a)(2)(i) through (v) of this section, such that the overall PM emission rate calculated in paragraph (a)(2)(v) of this section is less than or equal to the overall PM emission limit determined in paragraph (a)(1) of this section, as appropriate.

(i) The PM emission rate from each affected recovery furnace must be determined using Equation 2 of this section as follows: [SEE REGULATION FOR EQUATION]

(ii) The PM emission rate from each affected smelt dissolving tank must be determined using Equation 3 of this section as follows: [SEE REGULATION FOR EQUATION]

(iii) The PM emission rate from each affected lime kiln must be determined using Equation 4 of this section as follows: [SEE REGULATION FOR EQUATION]

(iv) If more than one similar process unit is operated in the chemical recovery system at the kraft or soda pulp mill, Equation 5 of this section must be used to calculate the overall PM emission rate from all similar process units in the chemical recovery system at the mill and must be used in determining the overall PM emission rate for the chemical recovery system at the mill: [SEE REGULATION FOR EQUATION]

(v) The overall PM emission rate for the chemical recovery system at the mill must be determined using Equation 6 of this section as follows: [SEE REGULATION FOR EQUATION]

(vi) After the Administrator has approved the PM emissions limits for each kraft or soda recovery furnace, smelt dissolving tank, and lime kiln, the owner or operator complying with an overall PM emission limit established in §63.862(a)(1)(ii) must demonstrate compliance with the HAP metals standard by demonstrating compliance with the approved PM emissions limits for each affected kraft or soda recovery furnace, smelt dissolving tank, and lime kiln, using the test methods and procedures in paragraph (b) of this section.

(b) The owner or operator seeking to determine compliance with §63.862(a), (b), or (d) must use the procedures in paragraphs (b)(1) through (6) of this section.

(1) For purposes of determining the concentration or mass of PM emitted from each kraft or soda recovery furnace, sulfite combustion unit, smelt dissolving tank, lime kiln, or the hog fuel dryer at Cosmo Specialty Fibers' Cosmopolis, Washington facility (Emission Unit no. HD-14), Method 5 in appendix A-3 of 40 CFR part 60 or Method 29 in appendix A-8 of 40 CFR part 60 must be used, except that Method 17 in appendix A-6 of 40 CFR part 60 may be used in lieu of Method 5 or Method 29 if a constant value of 0.009 g/dscm (0.004 gr/dscf) is added to the results of Method 17, and the stack temperature is no greater than 205°C (400°F). For Methods 5, 29, and 17, the sampling time and sample volume for each run must be at least 60 minutes and 0.90 dscm (31.8 dscf), and water must be used as the cleanup solvent instead of acetone in the sample recovery procedure.

(2) For sources complying with §63.862(a) or (b), the PM concentration must be corrected to the appropriate oxygen concentration using Equation 7 of this section as follows: [SEE REGULATION FOR EQUATION]

(3) Method 3A or 3B in appendix A-2 of 40 CFR part 60 must be used to determine the oxygen concentration. The voluntary consensus standard ANSI/ASME PTC 19.10-1981—Part 10 (incorporated by reference—see §63.14) may be used as an

SECTION E. Source Group Restrictions.

alternative to using Method 3B. The gas sample must be taken at the same time and at the same traverse points as the particulate sample.

(4) For purposes of complying with §63.862(a)(1)(ii)(A), the volumetric gas flow rate must be corrected to the appropriate oxygen concentration using Equation 8 of this section as follows: [SEE REGULATION FOR EQUATION]

(5)(i) For purposes of selecting sampling port location and number of traverse points, Method 1 or 1A in appendix A-1 of 40 CFR part 60 must be used;

(ii) For purposes of determining stack gas velocity and volumetric flow rate, Method 2, 2A, 2C, 2D, or 2F in appendix A-1 of 40 CFR part 60 or Method 2G in appendix A-2 of 40 CFR part 60 must be used;

(iii) For purposes of conducting gas analysis, Method 3, 3A, or 3B in appendix A-2 of 40 CFR part 60 must be used. The voluntary consensus standard ANSI/ASME PTC 19.10-1981—Part 10 (incorporated by reference—see §63.14) may be used as an alternative to using Method 3B; and

(iv) For purposes of determining moisture content of stack gas, Method 4 in appendix A-3 of 40 CFR part 60 must be used.

(6) Process data measured during the performance test must be used to determine the black liquor solids firing rate on a dry basis and the CaO production rate.

(c) [NA – NOT SUBJECT TO 63.862(c)(1)]

(d) [NA – NOT SUBJECT TO §63.862(c)(2)]

[66 FR 3193, Jan. 12, 2001, as amended at 66 FR 37593, July 19, 2001; 68 FR 7716, Feb. 18, 2003; 68 FR 67955, Dec. 5, 2003; 82 FR 47350, Oct. 11, 2017]

§63.866 Recordkeeping requirements.

(a) [Reserved]

(b) The owner or operator of an affected source or process unit must maintain records of any occurrence when corrective action is required under §63.864(k)(1), and when a violation is noted under §63.864(k)(2).

(c) In addition to the general records required by §63.10(b)(2)(iii) and (vi) through (xiv), the owner or operator must maintain records of the information in paragraphs (c)(1) through (8) of this section:

(1) Records of black liquor solids firing rates in units of Mg/d or ton/d for all recovery furnaces and semichemical combustion units;

(2) Records of CaO production rates in units of Mg/d or ton/d for all lime kilns;

(3) Records of parameter monitoring data required under §63.864, including any period when the operating parameter levels were inconsistent with the levels established during the performance test, with a brief explanation of the cause of the monitoring exceedance, the time the monitoring exceedance occurred, the time corrective action was initiated and completed, and the corrective action taken;

(4) Records and documentation of supporting calculations for compliance determinations made under §63.865(a) through (d);

(5) Records of parameter operating limits established for each affected source or process unit;

(6) [NA – NOT SUBJECT TO §63.862(c)(1)]

(7) [NA – APPLIES TO OTHER SPECIFIC FACILITY]; and

SECTION E. Source Group Restrictions.

(8) Records demonstrating compliance with the requirement in §63.864(e)(1) to maintain proper operation of an ESP's AVC.

(d)(1) In the event that an affected unit fails to meet an applicable standard, including any emission limit in §63.862 or any opacity or CPMS operating limit in §63.864, record the number of failures. For each failure record the date, start time, and duration of each failure.

(2) For each failure to meet an applicable standard, record and retain a list of the affected sources or equipment, and the following information:

(i) For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions.

(ii) For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted over the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator.

(3) Record actions taken to minimize emissions in accordance with §63.860(d) and any corrective actions taken to return the affected unit to its normal or usual manner of operation.

[66 FR 3193, Jan. 12, 2001, as amended at 66 FR 16408, Mar. 26, 2001; 68 FR 7718, Feb. 18, 2003; 69 FR 25323, May 6, 2004; 71 FR 20458, Apr. 20, 2006; 82 FR 47351, Oct. 11, 2017]

§63.867 Reporting requirements.

(a) Notifications. (1) The owner or operator of any affected source or process unit must submit the applicable notifications from subpart A of this part, as specified in Table 1 of this subpart.

(2) [Reserved]

(3) [NA – APPLIES TO OTHER SPECIFIC FACILITY]

(b) Additional reporting requirements for HAP metals standards. (1) Any owner or operator of a group of process units in a chemical recovery system at a mill complying with the PM emissions limits in §63.862(a)(1)(ii) must submit the PM emissions limits determined in §63.865(a) for each affected kraft or soda recovery furnace, smelt dissolving tank, and lime kiln to the Administrator for approval. The emissions limits must be submitted as part of the notification of compliance status required under subpart A of this part.

(2) Any owner or operator of a group of process units in a chemical recovery system at a mill complying with the PM emissions limits in §63.862(a)(1)(ii) must submit the calculations and supporting documentation used in §63.865(a)(1) and (2) to the Administrator as part of the notification of compliance status required under subpart A of this part.

(3) After the Administrator has approved the emissions limits for any process unit, the owner or operator of a process unit must notify the Administrator before any of the actions in paragraphs (b)(3)(i) through (iv) of this section are taken:

(i) The air pollution control system for any process unit is modified or replaced;

(ii) Any kraft or soda recovery furnace, smelt dissolving tank, or lime kiln in a chemical recovery system at a kraft or soda pulp mill complying with the PM emissions limits in §63.862(a)(1)(ii) is shut down for more than 60 consecutive days;

(iii) A continuous monitoring parameter or the value or range of values of a continuous monitoring parameter for any process unit is changed; or

(iv) The black liquor solids firing rate for any kraft or soda recovery furnace during any 24-hour averaging period is increased by more than 10 percent above the level measured during the most recent performance test.

(4) An owner or operator of a group of process units in a chemical recovery system at a mill complying with the PM

SECTION E. Source Group Restrictions.

emissions limits in §63.862(a)(1)(ii) and seeking to perform the actions in paragraph (b)(3)(i) or (ii) of this section must recalculate the overall PM emissions limit for the group of process units and resubmit the documentation required in paragraph (b)(2) of this section to the Administrator. All modified PM emissions limits are subject to approval by the Administrator.

(c) Excess emissions report. The owner or operator must submit semiannual excess emissions reports containing the information specified in paragraphs (c)(1) through (5) of this section. The owner or operator must submit semiannual excess emission reports and summary reports following the procedure specified in paragraph (d)(2) of this section as specified in §63.10(e)(3)(v).

(1) If the total duration of excess emissions or process control system parameter exceedances for the reporting period is less than 1 percent of the total reporting period operating time, and CMS downtime is less than 5 percent of the total reporting period operating time, only the summary report is required to be submitted. This report will be titled “Summary Report—Gaseous and Opacity Excess Emissions and Continuous Monitoring System Performance” and must contain the information specified in paragraphs (c)(1)(i) through (x) of this section.

(i) The company name and address and name of the affected facility.

(ii) Beginning and ending dates of the reporting period.

(iii) An identification of each process unit with the corresponding air pollution control device, being included in the semiannual report, including the pollutants monitored at each process unit, and the total operating time for each process unit.

(iv) An identification of the applicable emission limits, operating parameter limits, and averaging times.

(v) An identification of the monitoring equipment used for each process unit and the corresponding model number.

(vi) Date of the last CMS certification or audit.

(vii) An emission data summary, including the total duration of excess emissions (recorded in minutes for opacity and hours for gases), the duration of excess emissions expressed as a percent of operating time, the number of averaging periods recorded as excess emissions, and reason for the excess emissions (e.g., startup/shutdown, control equipment problems, other known reasons, or other unknown reasons).

(viii) A CMS performance summary, including the total duration of CMS downtime during the reporting period (recorded in minutes for opacity and hours for gases), the total duration of CMS downtime expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total CMS downtime during the reporting period (e.g., monitoring equipment malfunction, non-monitoring equipment malfunction, quality assurance, quality control calibrations, other known causes, or other unknown causes).

(ix) A description of changes to CMS, processes, or controls since last reporting period.

(x) A certification by a certifying official of truth, accuracy and completeness. This will state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(2) [Reserved]

(3) If measured parameters meet any of the conditions specified in §63.864(k)(1) or (2), the owner or operator of the affected source must submit a semiannual report describing the excess emissions that occurred. If the total duration of monitoring exceedances for the reporting period is 1 percent or greater of the total reporting period operating time, or the total CMS downtime for the reporting period is 5 percent or greater of the total reporting period operating time, or any violations according to §63.864(k)(2) occurred, information from both the summary report and the excess emissions and continuous monitoring system performance report must be submitted. This report will be titled “Excess Emissions and Continuous Monitoring System Performance Report” and must contain the information specified in paragraphs (c)(1)(i) through (x) of this section, in addition to the information required in §63.10(c)(5) through (14), as specified in paragraphs (c)(3)(i) through (vi) of this section. Reporting monitoring exceedances does not constitute a violation of the applicable

SECTION E. Source Group Restrictions.

standard unless the violation criteria in §63.864(k)(2) and (3) are reached.

(i) An identification of the date and time identifying each period during which the CMS was inoperative except for zero (low-level) and high-level checks.

(ii) An identification of the date and time identifying each period during which the CMS was out of control, as defined in §63.8(c)(7).

(iii) The specific identification of each period of excess emissions and parameter monitoring exceedances as described in paragraphs (c)(3)(iii)(A) through (E) of this section.

(A) For opacity:

(1) The total number of 6-minute averages in the reporting period (excluding process unit downtime).

(2) [Reserved]

(3) The number of 6-minute averages in the reporting period that exceeded the relevant opacity limit.

(4) The percent of 6-minute averages in the reporting period that exceed the relevant opacity limit.

(5) An identification of each exceedance by start and end time, date, and cause of exceedance (including startup/shutdown, control equipment problems, process problems, other known causes, or other unknown causes).

(B) [Reserved]

(C) For wet scrubber operating parameters:

(1) The operating limits established during the performance test for scrubbing liquid flow rate and pressure drop across the scrubber (or fan amperage if used for smelt dissolving tank scrubbers).

(2) The number of 3-hour wet scrubber parameter averages below the minimum operating limit established during the performance test, if applicable.

(3) An identification of each exceedance by start and end time, date, and cause of exceedance (including startup/shutdown, control equipment problems, process problems, other known causes, or other unknown causes).

(D) For RTO operating temperature:

(1) The operating limit established during the performance test.

(2) The number of 1-hour and 3-hour temperature averages below the minimum operating limit established during the performance test.

(3) An identification of each exceedance by start and end time, date, and cause of exceedance including startup/shutdown, control equipment problems, process problems, other known causes, or other unknown causes).

(E) For alternative parameters established according to §63.864(e)(13) or (14) subject to the requirements of §63.864(k)(1) and (2):

(1) The type of operating parameters monitored for compliance.

(2) The operating limits established during the performance test.

(3) The number of 3-hour parameter averages outside of the operating limits established during the performance test.

(4) An identification of each exceedance by start and end time, date, and cause of exceedance including startup/shutdown,

SECTION E. Source Group Restrictions.

control equipment problems, process problems, other known causes, or other unknown causes).

(iv) The nature and cause of the event (if known).

(v) The corrective action taken or preventative measures adopted.

(vi) The nature of repairs and adjustments to the CMS that was inoperative or out of control.

(4) If a source fails to meet an applicable standard, including any emission limit in §63.862 or any opacity or CPMS operating limit in §63.864, report such events in the semiannual excess emissions report. Report the number of failures to meet an applicable standard. For each instance, report the date, time and duration of each failure. For each failure, the report must include a list of the affected sources or equipment, and for any failure to meet an emission limit under §63.862, provide an estimate of the quantity of each regulated pollutant emitted over the emission limit, and a description of the method used to estimate the emissions.

(5) The owner or operator of an affected source or process unit subject to the requirements of this subpart and subpart S of this part may combine excess emissions and/or summary reports for the mill.

(d) Electronic reporting. (1) Within 60 days after the date of completing each performance test (as defined in §63.2) required by this subpart, the owner or operator must submit the results of the performance test following the procedure specified in either paragraph (d)(1)(i) or (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 Web site (https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert) at the time of the test, the owner or operator must submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's Central Data Exchange (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 extensible markup language (XML) schema listed on the EPA's ERT Web site. If the owner or operator claims that some of the performance test information being submitted is confidential business information (CBI), the owner or operator 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 Web site, 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/OAPQS/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 (d)(1)(i).

(ii) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site at the time of the test, the owner or operator must submit the results of the performance test to the Administrator at the appropriate address listed in §63.13 unless the Administrator agrees to or specifies an alternative reporting method.

(2) The owner or operator must submit the notifications required in §63.9(b) and §63.9(h) (including any information specified in §63.867(b)) and semiannual reports to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX (https://cdx.epa.gov).) You must upload an electronic copy of each notification in CEDRI beginning with any notification specified in this paragraph that is required after October 11, 2019. The owner or operator must use the appropriate electronic report in CEDRI for this subpart listed on the CEDRI Web site (https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri) for semiannual reports. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at all the appropriate addresses listed in §63.13. Once the form has been available in CEDRI for 1 year, you must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the deadlines specified in this subpart, regardless of the method in which the reports are submitted.

(3) If you are required to electronically submit a report through CEDRI in the EPA's 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

SECTION E. Source Group Restrictions.

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.

(4) 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 and a rationale for attributing the delay in reporting beyond the regulatory deadline to 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 must occur as soon as possible after the force majeure event occurs. The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

[66 FR 3193, Jan. 12, 2001, as amended at 66 FR 16408, Mar. 26, 2001; 68 FR 7718, Feb. 18, 2003; 68 FR 42605, July 18, 2003; 68 FR 46108, Aug. 5, 2003; 69 FR 25323, May 6, 2004; 82 FR 47351, Oct. 11, 2017]

§63.868 Delegation of authority. [INCORPORATED BY REFERENCE]

Regulatory Changes

Individual sources within this source group that are subject to 40 CFR Part 63 Subpart MM shall comply with all applicable requirements of the Subpart. 40 CFR 63.13(a) requires submission of copies of all requests, reports and other communications to both the Department and the EPA. The EPA copies shall be forwarded to:

Director
Air Protection Division (3AP00)
U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 007

Group Description: Paper Machine Dryer Group

Sources included in this group

ID	Name
122	#2 PAPER MACH.IR & FLOTATION DRYER
123	#3 PAPER MACH. AIR FLOT DRYER

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from these sources in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate the air flotation drying ovens utilized by this source group on commercial natural gas only.

[Additional authority for this permit condition is derived from OP No. 07-05001A]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 008

Group Description: Paper Machine Group

Sources included in this group

ID	Name
118	NO. 1 PAPER MACHINE
119	NO. 2 PAPER MACHINE
120	NO. 3 PAPER MACHINE

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The VOC emissions from the PAPER MACHINE GROUP shall not be equal to or greater than 25 tons in any 12 consecutive month period per line.

The permittee shall keep records to show that this limit has not been exceeded and these records shall be made available to the Department upon request.

[Compliance with this emission limit exempts the sources from having to meet 25 PA Code §129.52b for paper coating as per 25 PA Code §129.52b(a)(1).]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

 # 002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep detailed records of all EPA Method 24 certification tests that have been:

(a) Provided by the manufacturer.

(b) For all new and existing organic solvent borne coatings that have undergone a compositional change.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 003 [25 Pa. Code §129.52b]

Control of VOC emissions from paper, film and foil surface coating processes.

§ 129.52b. Control of VOC emissions from paper, film and foil surface coating processes.

(a) Applicability. This section applies to the owner and operator of a paper, film or foil surface coating process, as follows, if

SECTION E. Source Group Restrictions.

the surface coating process meets one or a combination of the following:

(1) [N/A – FACILITY IS TAKING A 25 TPY VOC EMISSION RESTRICTION]

(2) The emission limit in Table II and other requirements of this section apply to the owner and operator of a paper surface coating process which emits or has emitted VOCs into the outdoor atmosphere in quantities greater than 3 pounds (1.4 kilograms) per hour, 15 pounds (7 kilograms) per day or 2.7 tons (2,455 kilograms) per year during any calendar year since January 1, 1987. For these processes, the emission limit and other requirements of this section supersede the emission limit and other requirements of §129.52.

(3) The work practice requirements for cleaning materials found in subsection (h), and the related compliance monitoring and recordkeeping and reporting requirements of subsections (d) and (e), apply to the owner and operator of a paper, film or foil surface coating process if the total actual VOC emissions from all paper, film or foil surface coating operations, including related cleaning activities, at the facility are equal to or greater than 15 pounds (6.8 kilograms) per day or 2.7 tons (2,455 kilograms) per 12-month rolling period, before consideration of controls.

(b) Existing RACT permit. The requirements of this section supersede the requirements of a RACT permit issued to the owner or operator of a source subject to subsection (a) prior to January 1, 2012, under § § 129.91—129.95 (relating to stationary sources of NOx and VOCs) to control, reduce or minimize VOCs from a paper, film or foil surface coating process, except to the extent the RACT permit contains more stringent requirements. [NOTE: THIS APPLIES ONLY TO COATING EMISSIONS FROM THE 3 PAPER MACHINES]

(c) Emission limits. Beginning January 1, 2012, a person subject to subsection (a)(1) or (2) may not cause or permit the emission into the outdoor atmosphere of VOCs from a paper, film or foil surface coating process, unless one of the following limitations is met:

(1) The VOC content of each as applied coating is equal to or less than the limit specified in Table I or Table II, as applicable. [NOTE: TABLE II APPLIES]

(i) The VOC content of the as applied coating, expressed in units of weight of VOC per weight of coating solids, shall be calculated as follows:

VOCB = (Wo)/(Wn)

Where:
VOCB = VOC content in lb VOC/lb of coating solids
Wo = Weight percent of VOC (Wv-Ww-Wex)
Wv = Weight percent of total volatiles (100%-weight percent solids)
Ww = Weight percent of water
Wex = Weight percent of exempt solvents
Wn = Weight percent of solids of the as applied coating

(ii) The VOC content of the as applied coating, expressed in units of weight of voc per volume of coating solids, shall be calculated as follows:

VOC = (Wo)(Dc)/Vn

Where:
VOC = VOC Content in lb voc/gal of coating solids
Wo = Weight percent of VOC (Wv-Ww-Wex)
Wv = Weight percent of total volatiles (100%-weight percent solids)
Ww = Weight percent of water
Wex = Weight percent of exempt solvent(s)
Dc = Density of coating, lb/gal, at 25° C
Vn = Volume percent of solids of the as applied coating

(iii) The VOC content of a dip coating, expressed in units of weight of VOC per weight of coating solids, shall be

SECTION E. Source Group Restrictions.

calculated on a 30-day rolling average basis using the following equation:

SUM(i) (Woi x Dci x Qi) + SUM (J) (WoJ x DdJ x QJ)
VOCA =
SUM(i) (Wni x Dci x Qi)

Where:

VOCA = VOC content in lb VOC/lb of coating solids for a dip coating, calculated on a 30-day rolling average basis

Woi = Percent VOC by weight of each as supplied coating (i) added to the dip coating process, expressed as a decimal fraction (that is 55% = 0.55)

Dci = Density of each as supplied coating (i) added to the dip coating process, in pounds per gallon

Qi = Quantity of each as supplied coating (i) added to the dip coating process, in gallons

Wni = Percent solids by weight of each as supplied coating (i) added to the dip coating process, expressed as a decimal fraction

WoJ = Percent VOC by weight of each thinner (J) added to the dip coating process, expressed as a decimal fraction

DdJ = Density of each thinner (J) added to the dip coating process, in pounds per gallon

QJ = Quantity of each thinner (J) added to the dip coating process, in gallons

(iv) Sampling and testing shall be done in accordance with the procedures and test methods specified in Chapter 139 (relating to sampling and testing).

(2) [N/A – NO VAPOR RECOVERY OR INCINERATION]

(d) Compliance monitoring procedures. The owner or operator of a facility subject to this section shall maintain records sufficient to demonstrate compliance as follows:

(1) The owner or operator of a facility subject to subsection (a) shall maintain daily records of the following parameters for each coating, thinner, component or cleaning solvent, as supplied:

(i) Name and identification number of the coating, thinner, component or cleaning solvent.

(ii) Volume used.

(iii) Mix ratio.

(iv) Density or specific gravity.

(v) Weight percent of total volatiles, water, solids and exempt solvents.

(vi) VOC content.

(2) In addition to the records required under paragraph (1), the owner or operator of a facility subject to subsection (a)(2) shall maintain daily records of the volume percent solids for each coating, thinner or component, as supplied.

(3) The owner or operator of a facility subject to subsection (a) shall maintain daily records of the VOC content of each as applied coating or cleaning solvent.

(e) Recordkeeping and reporting requirements. The records required under subsection (d) shall be:

SECTION E. Source Group Restrictions.

(1) Maintained for 2 years, unless a longer period is required under §127.511(b)(2) (relating to monitoring and related recordkeeping and reporting requirements).

(2) Submitted to the Department upon receipt of a written request.

(f) Coating application methods. [N/A – FACILITY NOT SUBJECT TO PARAGRAPH (a)(1)]

(g) Exempt coatings. The VOC coating content limits in Tables I and II do not apply to a coating used exclusively for determining product quality and commercial acceptance and other small quantity coatings, if the coating meets the following criteria:

(1) The quantity of coating used does not exceed 50 gallons per year for a single coating and a total of 200 gallons per year for all coatings combined for the facility.

(2) The owner or operator of the facility requests, in writing, and the Department approves, in writing, the exemption prior to use of the coating.

(h) Work practice requirements for cleaning materials. The owner or operator of a paper, film or foil surface coating process subject to subsection (a) shall comply with the following work practices for cleaning materials:

(1) Store all VOC-containing cleaning materials and used shop towels in closed containers.

(2) Ensure that mixing and storage containers used for VOC-containing cleaning materials are kept closed at all times, except when depositing or removing these materials.

(3) Minimize spills of VOC-containing cleaning materials and clean up spills immediately.

(4) Convey VOC-containing cleaning materials from one location to another in closed containers or pipes.

(5) Minimize VOC emissions from cleaning of storage, mixing and conveying equipment.

Table II

Emission Limit of VOCs for Paper Coating if Actual VOC Emissions have Exceeded 3 Pounds per Hour, 15 Pounds per Day or 2.7 Tons per Year in Any Year Since January 1, 1987

Weight of VOC per Volume of Coating Solids, as Applied

Units	RACT Limit Paper Coating
lb voc/gal coating solids	4.84
kg voc/l coating solids	0.58

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 009

Group Description: Subpart S - NESHAP from the Pulp and Paper Industry

Sources included in this group

ID	Name
001	JOHN ZINK THERMAL OXIDIZER
036	#3 POWER BOILER (COAL/BARK/SLUDGE/WOOD)
101A	BATCH DIGESTERS W/ INCINR
109	ROSENBLAD EVAPORATORS
111	BROWN STOCK WASHERS
112	KNOTTERS
114	PULP BLEACHING
116	WASTEWATER TREATMENT PLANT
121A	LVHC/HVLC VENTING
126	PULPING PROCESS CONDENSATES
127	LVHC NCG SOURCES
128	HVLC NCG SOURCES

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

§63.440 Applicability.

(a) The provisions of this subpart apply to the owner or operator of processes that produce pulp, paper, or paperboard; that are located at a plant site that is a major source as defined in §63.2 of subpart A of this part; and that use the following processes and materials:

(1) Kraft, soda, sulfite, or semi-chemical pulping processes using wood; or

SECTION E. Source Group Restrictions.

(2) Mechanical pulping processes using wood; or

(3) Any process using secondary or non-wood fibers.

(b) The affected source to which the existing sourceprovisions of this subpart apply is as follows:

(1) For the processes specified in paragraph (a)(1) of this section, the affected source is the total of all HAP emission points in the pulping and bleaching systems; or

(2) For the processes specified in paragraphs (a)(2) or (a)(3) of this section, the affected source is the total of all HAP emission points in the bleaching system.

(c) The new source provisions of this subpart apply to the total of all HAP emission points at new or existing sources as follows:

(1) [N/A - THE SOURCE DEFINED IN PARAGRAPH (b)(1) COMMENCED CONSTRUCTION BEFORE DECEMBER 17, 1993 AND HAS NOT BEEN RECONSTRUCTION];

(2) [N/A - THE PULPING OR BLEACHING SYSTEM SPECIFIED IN (a)(1)COMMENCED CONSTRUCTION BEFORE DECEMBER 17, 1993 AND HAS NOT BEEN RECONSTRUCTION];

(3) [N/A - EACH PULPING OR BLEACHING LINE SPECIFIED IN PARAGRAPH (a)(1) COMMENCED CONSTRUCTION BEFORE DECEMBER 17, 1993];

(4) [N/A - EACH AFFECTED SOURCE DEFINED IN PARAGRAPH (b)(2) COMMENCED CONSTRUCTION BEFORE MARCH 8, 1996]; or

(5) [N/A - EACH ADDITIONAL BLEACHING LINE AT THE PROCESS SPECIFIED IN PARAGRAPHS (a)(2)) AND (a)(3) OF THIS SECTION COMMENCED CONSTRUCTION BEFORE MARCH 8, 1996].

(d) [N/A - ALL COMPLIANCE DATES HAVE PASSED AND WERE MET BY COMPANY]

(e) [N/A - SOURCE IS NOT NEW AND COMPLIANCE DATE HAS PASSED]

(f) Each owner or operator of an affected source with affected process equipment shared by more than one type of pulping process, shall comply with the applicable requirement in this subpart that achieves the maximum degree of reduction in HAP emissions.

(g) Each owner or operator of an affected source specified in paragraphs (a) through (c) of this section must comply with the requirements of subpart A—General Provisions of this part, as indicated in table 1 to this subpart.

[63 FR 18617, Apr. 15, 1998, as amended at 63 FR 71389, Dec. 28, 1998]

§63.441 Definitions. [INCORPORATED BY REFERENCE]

§63.442 [Reserved]

§63.443 Standards for the pulping system at kraft, soda, and semi-chemical processes.

(a) The owner or operator of each pulping system using the kraft process subject to the requirements of this subpart shall control the total HAP emissions from the following equipment systems, as specified in paragraphs (c) and (d) of this section.

(1) At existing affected sources, the total HAP emissions from the following equipment systems shall be controlled:

(i) Each LVHC system;

SECTION E. Source Group Restrictions.

(ii) Each knotter or screen system with total HAP mass emission rates greater than or equal to the rates specified in paragraphs (a)(1)(ii)(A) or (a)(1)(ii)(B) of this section or the combined rate specified in paragraph (a)(1)(ii)(C) of this section.

(A) Each knotter system with emissions of 0.05 kilograms or more of total HAP per megagram of ODP (0.1 pounds per ton).

(B) Each screen system with emissions of 0.10 kilograms or more of total HAP per megagram of ODP (0.2 pounds per ton).

(C) Each knotter and screen system with emissions of 0.15 kilograms or more of total HAP per megagram of ODP (0.3 pounds per ton).

(iii) Each pulp washing system;

(iv) Each decker system that:

(A) Uses any process water other than fresh water or paper machine white water; or

(B) Uses any process water with a total HAP concentration greater than 400 parts per million by weight; and

(v) Each oxygen delignification system.

(2) [N/A - SOURCES ARE EXISTING]

(b) [N/A - THE MILL DOES NOT USE A SEMI-CHEMICAL OR SODA PROCESS]

(c) Equipment systems listed in paragraphs (a) and (b) of this section shall be enclosed and vented into a closed-vent system and routed to a control device that meets the requirements specified in paragraph (d) of this section. The enclosures and closed-vent system shall meet the requirements specified in §63.450.

(d) The control device used to reduce total HAP emissions from each equipment system listed in paragraphs (a) and (b) of this section shall:

(1) - (2) [N/A - THE MILL USES A THERMAL OXIDIZER TO REDUCE HAP EMISSIONS ACCORDING TO PARAGRAH (d)(3) OF THIS SECTION OR THE #3 POWER BOILER ACCORDING TO (d)(4)(ii) OF THIS SECTION]

(3) Reduce total HAP emissions using a thermal oxidizer designed and operated at a minimum temperature of 871 °C (1,600 °F) and a minimum residence time of 0.75 seconds; or

(4) Reduce total HAP emissions using one of the following:

(i) [N/A - #3 POWER BOILER HAS HEAT INPUT CAPACITY > 150 MMBTU/HR; COMPLIES WITH PARAGRAPH (d)(4)(ii) OF THIS SECTION]

(ii) A boiler or recovery furnace with a heat input capacity greater than or equal to 44 megawatts (150 million British thermal units per hour) by introducing the HAP emission stream with the combustion air.

(e) Periods of excess emissions reported under §63.455 shall not be a violation of §63.443(c) and (d) provided that the time of excess emissions divided by the total process operating time in a semi-annual reporting period does not exceed the following levels:

(1) One percent for control devices used to reduce the total HAP emissions from the LVHC system; and

(2) Four percent for control devices used to reduce the total HAP emissions from the HVLC system; and

(3) Four percent for control devices used to reduce the total HAP emissions from both the LVHC and HVLC systems.

SECTION E. Source Group Restrictions.

[63 FR 18617, Apr. 15, 1998, as amended at 64 FR 17563, Apr. 12, 1999; 66 FR 80762, Dec. 22, 2000; 77 FR 55710, Sept. 11, 2012]

§63.444 Standards for the pulping system at sulfite processes. [N/A - THE FACILITY USES KRAFT HARDWOOD PULPING]

§63.445 Standards for the bleaching system.

(a) Each bleaching system that does not use any chlorine or chlorinated compounds for bleaching is exempt from the requirements of this section. Owners or operators of the following bleaching systems shall meet all the provisions of this section:

(1) Bleaching systems that use chlorine;

(2) Bleaching systems bleaching pulp from kraft, sulfite, or soda pulping processes that use any chlorinated compounds; or

(3) Bleaching systems bleaching pulp from mechanical pulping processes using wood or from any process using secondary or non-wood fibers, that use chlorine dioxide.

(b) The equipment at each bleaching stage, of the bleaching systems listed in paragraph (a) of this section, where chlorinated compounds are introduced shall be enclosed and vented into a closed-vent system and routed to a control device that meets the requirements specified in paragraph (c) of this section. The enclosures and closed-vent system shall meet the requirements specified in §63.450. If process modifications are used to achieve compliance with the emission limits specified in paragraphs (c)(2) or (c)(3), enclosures and closed-vent systems are not required, unless appropriate. [NOTE: THE FACILITY COMPLIES USING PARAGRAPH (c)(1) OF THIS SECTION]

(c) The control device used to reduce chlorinated HAP emissions (not including chloroform) from the equipment specified in paragraph (b) of this section shall:

(1) Reduce the total chlorinated HAP mass in the vent stream entering the control device by 99 percent or more by weight;

(2)-(3) [N/A - THE FACILITY COMPLIES USING (c)(1) OF THIS SECTION]

(d) The owner or operator of each bleaching system subject to paragraph (a)(2) of this section shall comply with paragraph (d)(1) or (d)(2) of this section to reduce chloroform air emissions to the atmosphere, except the owner or operator of each bleaching system complying with extended compliance under §63.440(d)(3)(ii) shall comply with paragraph (d)(1) of this section.

(1) [N/A - THE FACILITY USED NO HYPOCHLORITE OR CHLORINE FOR BLEACHING IN THE BLEACHING SYSTEM OR LINE]

(2) Use no hypochlorite or chlorine for bleaching in the bleaching system or line.

[63 FR 18617, Apr. 15, 1998, as amended at 64 FR 17563, Apr. 12, 1999]

§63.446 Standards for kraft pulping process condensates.

(a) The requirements of this section apply to owners or operators of kraft processes subject to the requirements of this subpart.

(b) The pulping process condensates from the following equipment systems shall be treated to meet the requirements specified in paragraphs (c), (d), and (e) of this section:

(1) Each digester system;

(2) Each turpentine recovery system;

(3) Each evaporator system condensate from:

SECTION E. Source Group Restrictions.

(i) The vapors from each stage where weak liquor is introduced (feed stages); and

(ii) Each evaporator vacuum system for each stage where weak liquor is introduced (feed stages).

(4) Each HVLC collection system; and

(5) Each LVHC collection system.

(c) One of the following combinations of HAP-containing pulping process condensates generated, produced, or associated with the equipment systems listed in paragraph (b) of this section shall be subject to the requirements of paragraphs (d) and (e) of this section:

(1) All pulping process condensates from the equipment systems specified in paragraphs (b)(1) through (b)(5) of this section.

(2) [N/A - FACILITY IS SUBJECT TO (c)(1) OF THIS SECTION]

(3) [N/A - FACILITY IS SUBJECT TO (c)(1) OF THIS SECTION]

(d) The pulping process condensates from the equipment systems listed in paragraph (b) of this section shall be conveyed in a closed collection system that is designed and operated to meet the requirements specified in paragraphs (d)(1) and (d)(2) of this section.

(1) Each closed collection system shall meet the individual drain system requirements specified in §§63.960, 63.961, and 63.962 of subpart RR of this part, except for closed vent systems and control devices shall be designed and operated in accordance with §§63.443(d) and 63.450, instead of in accordance with §63.693 as specified in §63.962 (a)(3)(ii), (b)(3)(ii)(A), and (b)(5)(iii); and

(2) If a condensate tank is used in the closed collection system, the tank shall meet the following requirements:

(i) The fixed roof and all openings (e.g., access hatches, sampling ports, gauge wells) shall be designed and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million above background, and vented into a closed-vent system that meets the requirements in §63.450 and routed to a control device that meets the requirements in §63.443(d) [NOTE: FOUL CONDENSATES ARE COLLECTED IN THE FOUL CONDENSATE TANK AND VENTED TO A CLOSED-VENT SYSTEM, WHICH IS CONTROLLED BY A THERMAL OXIDIZER OPERATED IN ACCORDANCE WITH 63.443(d)(3) OR THE #3 POWER BOILER IN ACCORDANCE WITH 63.443(d)(4)(iii)]; and

(ii) Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that the tank contains pulping process condensates or any HAP removed from a pulping process condensate stream except when it is necessary to use the opening for sampling, removal, or for equipment inspection, maintenance, or repair.

(e) Each pulping process condensate from the equipment systems listed in paragraph (b) of this section shall be treated according to one of the following options:

(1) [N/A - THE FACILITY COMPLIES WITH (e)(3)]; or

(2) Discharge the pulping process condensate below the liquid surface of a biological treatment system and treat the pulping process condensates to meet the requirements specified in paragraph (e)(3), (4), or (5) of this section, and total HAP shall be measured as specified in §63.457(g); or

(3) Treat the pulping process condensates to reduce or destroy the total HAPs by at least 92 percent or more by weight [NOTE: THIS CONDITION IS MET USING THE BIOLOGICAL TREATMENT SYSTEM IDENTIFIED IN (e)(2)]; or

(4) [N/A - THE MILL PERFORMS BLEACHING]; or

(5) [N/A - THE FACILITY COMPLIES WITH (e)(3)]

SECTION E. Source Group Restrictions.

(f) [N/A - THE FACILITY COMPLIES WITH (e)(2)]

(g) [N/A - THE FACILITY COMPLIES WITH (e)(2) OF THIS SECTION]

(h) [N/A - THE FACILITY PRODUCES ONLY BLEACHED PRODUCTS]

(i) [N/A - THE FACILITY PRODUCES ONLY BLEACHED PRODUCTS]

[63 FR 18617, Apr. 15, 1998; 63 FR 42239, Aug. 7, 1998, as amended at 63 FR 49459, Sept. 16, 1998; 64 FR 17563, Apr. 12, 1999; 65 FR 80762, Dec. 22, 2000; 77 FR 55711, Sept. 11, 2012]

§63.447 Clean condensate alternative. [N/A - THE FACILITY DOES NOT USE THE CLEAN CONDENSATE ALTERNATIVE]

§§63.448-63.449 [Reserved]

§63.450 Standards for enclosures and closed-vent systems.

(a) Each enclosure and closed-vent system specified in §§63.443(c), 63.444(b), and 63.445(b) for capturing and transporting vent streams that contain HAP shall meet the requirements specified in paragraphs (b) through (d) of this section.

(b) Each enclosure shall maintain negative pressure at each enclosure or hood opening as demonstrated by the procedures specified in §63.457(e). Each enclosure or hood opening closed during the initial performance test specified in §63.457(a) shall be maintained in the same closed and sealed position as during the performance test at all times except when necessary to use the opening for sampling, inspection, maintenance, or repairs.

(c) Each component of the closed-vent system used to comply with §§63.443(c), 63.444(b), and 63.445(b) that is operated at positive pressure and located prior to a control device shall be designed for and operated with no detectable leaks as indicated by an instrument reading of less than 500 parts per million by volume above background, as measured by the procedures specified in §63.457(d).

(d) Each bypass line in the closed-vent system that could divert vent streams containing HAP to the atmosphere without meeting the emission limitations in §§63.443, 63.444, or 63.445 shall comply with either of the following requirements:

(1) On each bypass line, the owner or operator shall install, calibrate, maintain, and operate according to the manufacturer's specifications a flow indicator that is capable of taking periodic readings as frequently as specified in §63.454(e). The flow indicator shall be installed in the bypass line in such a way as to indicate flow in the bypass line; or

(2) For bypass line valves that are not computer controlled, the owner or operator shall maintain the bypass line valve in the closed position with a car seal or a seal placed on the valve or closure mechanism in such a way that valve or closure mechanism cannot be opened without breaking the seal.

[63 FR 18617, Apr. 15, 1998, as amended at 64 FR 17563, Apr. 12, 1999; 68 FR 37348, June 23, 2003]

§§63.451-63.452 [Reserved]

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

§63.453 Monitoring requirements.

(a) Each owner or operator subject to the standards specified in §§63.443(c) and (d), 63.444(b) and (c), 63.445(b) and (c), 63.446(c), (d), and (e), 63.447(b) or §63.450(d), shall install, calibrate, certify, operate, and maintain according to the manufacturer's specifications, a continuous monitoring system (CMS, as defined in §63.2 of this part) as specified in paragraphs (b) through (m) of this section, except as allowed in paragraph (m) of this section. The CMS shall include a continuous recorder.

(b) A CMS shall be operated to measure the temperature in the firebox or in the ductwork immediately downstream of the firebox and before any substantial heat exchange occurs for each thermal oxidizer used to comply with the requirements of

SECTION E. Source Group Restrictions.

§63.443(d)(1) through (d)(3). Owners and operators complying with the HAP concentration requirements in §63.443(d)(2) may install a CMS to monitor the thermal oxidizer outlet total HAP or methanol concentration, as an alternative to monitoring thermal oxidizer operating temperature. [NOTE: THERMAL OXIDIZER IS OPERATED IN ACCORDANCE WITH 63.443(d)(3)]

(c) A CMS shall be operated to measure the following parameters for each gas scrubber used to comply with the bleaching system requirements of §63.445(c) or the sulfite pulping system requirements of §63.444(c).

(1) The pH or the oxidation/reduction potential of the gas scrubber effluent;

(2) The gas scrubber vent gas inlet flow rate [NOTE: THE GAS SCRUBBER FAN MOTOR AMPERAGE MAY ALSO BE USED AS PER EPA GUIDANCE "QUESTIONS AND ANSWERS FOR THE PULP AND PAPER NESHAP" DATED SEPTEMBER 22, 1999]; and

(3) The gas scrubber liquid influent flow rate. [NOTE: DEP VIEWS MONITORING OF THE GAS SCRUBBER RECIRCULATION FLOW RATE AS BEING EQUIVALENT TO MONITORING THE GAS SCRUBBER LIQUID INFLUENT FLOW RATE]

(d) As an option to the requirements specified in paragraph (c) of this section, a CMS shall be operated to measure the chlorine outlet concentration of each gas scrubber used to comply with the bleaching system outlet concentration requirements specified in §63.445(c)(2).

(e) [COMPLIANCE PERIOD IS IN THE PAST; THE FACILITY MET APPLICABLE COMPLIANCE DATES]

(f) [N/A - THE FACILITY DOES NOT USE A SULFITE PIPING PROCESS]

(g) [N/A - THE MILL DOES NOT USE A STEAM STRIPPER TO COMPLY WITH TREATMENT REQUIREMENTS]

(h) [N/A - THE MILL DOES NOT USE A STEAM STRIPPER TO COMPLY WITH TREATMENT REQUIREMENTS]

(i) [N/A - THE THE FACILITY COLLECTS PULPING PROCESS CONDENSATES ACCORDING TO §63.446(c)(1)]

(j) Each owner or operator using an open biological treatment system to comply with §63.446(e)(2) shall perform the daily monitoring procedures specified in either paragraph (j)(1) or (2) of this section and shall conduct a performance test each quarter using the procedures specified in paragraph (j)(3) of this section.

(1) Comply with the monitoring and sampling requirements specified in paragraphs (j)(1)(i) and (ii) of this section.

(i) On a daily basis, monitor the following parameters for each open biological treatment unit:

(A) Composite daily sample of outlet soluble BOD5 concentration to monitor for maximum daily and maximum monthly average;

(B) Mixed liquor volatile suspended solids;

(C) Horsepower of aerator unit(s);

(D) Inlet liquid flow; and

(E) Liquid temperature.

(ii) If the Inlet and Outlet Concentration Measurement Procedure (Procedure 3) in appendix C of this part is used to determine the fraction of HAP compounds degraded in the biological treatment system as specified in §63.457(l), conduct the sampling and archival requirements specified in paragraphs (j)(1)(ii)(A) and (B) of this section.

(A) Obtain daily inlet and outlet liquid grab samples from each biological treatment unit to have HAP data available to perform quarterly performance tests specified in paragraph (j)(3) of this section and the compliance tests specified in paragraph (p) of this section.

SECTION E. Source Group Restrictions.

(B) Store the samples as specified in §63.457(n) until after the results of the soluble BOD5 test required in paragraph (j)(1)(i)(A) of this section are obtained. The storage requirement is needed since the soluble BOD5 test requires 5 days or more to obtain results. If the results of the soluble BOD5 test are outside of the range established during the initial performance test, then the archive sample shall be used to perform the mass removal or percent reduction determinations.

(2) As an alternative to the monitoring requirements of paragraph (j)(1) of this section, conduct daily monitoring of the site-specific parameters established according to the procedures specified in paragraph (n) of this section.

(3) Conduct a performance test as specified in §63.457(l) within 45 days after the beginning of each quarter and meet the applicable emission limit in §63.446(e)(2).

(i) The performance test conducted in the first quarter (annually) shall be performed for total HAP as specified in §63.457(g) and meet the percent reduction or mass removal emission limit specified in §63.446(e)(2).

(ii) The remaining quarterly performance tests shall be performed as specified in paragraph (j)(3)(i) of this section except owners or operators may use the applicable methanol procedure in §63.457(l)(1) or (2) and the value of r determined during the first quarter test instead of measuring the additional HAP to determine a new value of r.

(k) Each enclosure and closed-vent system used to comply with §63.450(a) shall comply with the requirements specified in paragraphs (k)(1) through (k)(6) of this section.

(1) For each enclosure opening, a visual inspection of the closure mechanism specified in §63.450(b) shall be performed at least once every 30 days to ensure the opening is maintained in the closed position and sealed.

(2) Each closed-vent system required by §63.450(a) shall be visually inspected every 30 days and at other times as requested by the Administrator. The visual inspection shall include inspection of ductwork, piping, enclosures, and connections to covers for visible evidence of defects.

(3) For positive pressure closed-vent systems or portions of closed-vent systems, demonstrate no detectable leaks as specified in §63.450(c) measured initially and annually by the procedures in §63.457(d). [NOTE: APPLIES TO LVHC AND HVLC COLLECTION SYSTEMS AND DOES NOT APPLY TO THE BLEACH PLANT COLLECTION SYSTEM]

(4) Demonstrate initially and annually that each enclosure opening is maintained at negative pressure as specified in §63.457(e).

(5) The valve or closure mechanism specified in §63.450(d)(2) shall be inspected at least once every 30 days to ensure that the valve is maintained in the closed position and the emission point gas stream is not diverted through the bypass line.

(6) If an inspection required by paragraph (k)(1) thorugh (k)(5) of this section identifies visible defects in ductwork, piping, enclosures or connections to cover required by §63.450, or if an instrument reading of 500 parts per million by volume or greater above background is measured, or if enclosure openings are not maintained at negative pressure, then the following corrective actions shall be taken as soon as practicable.

(i) A first effort to repair or correct the closed-vent ystem shall be made as soon as practicable but no later than 5 calendar days after the problem is identified.

(ii) The repair or corrective action shall be completed no later than 15 calendar days after the problem is identified. Delay of repair or corrective action is allowed if the repair or corrective action is technically infeasible without a process unit shutdown or if the owner or operator determines that the emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed by the end of the next process unit shutdown.

(l) Each pulping process condensate closed collection system used to comply with §63.446(d) shall comply with the requirements specified in paragraphs (l)(1) through (l)(3) of this section.

(1) Each pulping process condensate closed collection system shall be visually inspected every 30 days and shall comply

SECTION E. Source Group Restrictions.

with the inspection and monitoring requirements specified in §63.964 of subpart RR of this part, except:

(i) Owners or operators shall comply with the recordkeeping requirements of §63.454 instead of the requirements specified in §63.964(a)(1)(vi) and (b)(3) of subpart RR of this part.

(ii) Owners or operators shall comply with the inspection and monitoring requirements for closed-vent systems and control devices specified in paragraphs (a) and (k) of this section instead of the requirements specified in §63.964(a)(2) of subpart RR of this part.

(2) Each condensate tank used in the closed collection system shall be operated with no detectable leaks as specified in §63.446(d)(2)(i) measured initially and annually by the procedures specified in §63.457(d).

(3) If an inspection required by this section identifies visible defects in the closed collection system, or if an instrument reading of 500 parts per million or greater above background is measured, then corrective actions specified in §63.964(b) of subpart RR of this part shall be taken.

(m) Each owner or operator using a control device, technique or an alternative parameter other than those specified in paragraphs (b) through (l) of this section shall install a CMS and establish appropriate operating parameters to be monitored that demonstrate, to the Administrator's satisfaction, continuous compliance with the applicable control requirements. [NOTE - AS PER 40 CFR §63.453(m), WHILE USING THE NO. 3 POWER BOILER TO CONTROL HVLC AND LVHC SYSTEM HAS INSTALLED A CMS TO MONITOR STEAM PRODUCTION FROM THE BOILER. THE COMPANY HAS INSTALLED THE CMS AND ESTABLISHED APPROPRIATE OPERATING PARAMETERS TO BE MONITORED THAT DEMONSTRATE TO THE ADMINISTRATOR'S SATISFACTION, CONTINUOUS COMPLIANCE WITH 40 CFR 63.443(d)(4)].

(n) To establish or reestablish the value for each operating parameter required to be monitored under paragraphs (b) through (j), (l), and (m) of this section or to establish appropriate parameters for paragraphs (f), (i), (j)(2), and (m) of this section, each owner or operator shall use the following procedures:

(1) During the initial performance test required in §63.457(a) or any subsequent performance test, continuously record the operating parameter;

(2) Determinations shall be based on the control performance and parameter data monitored during the performance test, supplemented if necessary by engineering assessments and the manufacturer's recommendations;

(3) The owner or operator shall provide for the Administrator's approval the rationale for selecting the monitoring parameters necessary to comply with paragraphs (f), (i), and (m) of this section; and

(4) Provide for the Administrator's approval the rationale for the selected operating parameter value, and monitoring frequency, and averaging time. Include all data and calculations used to develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the applicable emission standard. [NOTE: THE FACILITY HAS ESTABLISHED A MINIMUM BOD5 OPERATING VALUE FOR DEMOSTRATION OF CONTINUOUS COMPLIANCE WITH §63.446(e)(3)]

(o) Each owner or operator of a control device subject to the monitoring provisions of this section shall operate the control device in a manner consistent with the minimum or maximum (as appropriate) operating parameter value or procedure required to be monitored under paragraphs (a) through (n) of this section and established under this subpart. Except as provided in paragraph (p) of this section, §63.443(e), or §63.446(g), operation of the control device below minimum operating parameter values or above maximum operating parameter values established under this subpart or failure to perform procedures required by this subpart shall constitute a violation of the applicable emission standard of this subpart and be reported as a period of excess emissions.

(p) The procedures of this paragraph apply to each owner or operator of an open biological treatment system complying with paragraph (j) of this section whenever a monitoring parameter excursion occurs, and the owner or operator chooses to conduct a performance test to demonstrate compliance with the applicable emission limit. A monitoring parameter excursion occurs whenever the monitoring parameters specified in paragraphs (j)(1)(i)(A) through (C) of this section or any of the monitoring parameters specified in paragraph (j)(2) of this section are below minimum operating parameter values or above maximum operating parameter values established in paragraph (n) of this section.

SECTION E. Source Group Restrictions.

(1) As soon as practical after the beginning of the monitoring parameter excursion, the following requirements shall be met:

(i) Before the steps in paragraph (p)(1)(ii) or (iii) of this section are performed, all sampling and measurements necessary to meet the requirements in paragraph (p)(2) of this section shall be conducted.

(ii) Steps shall be taken to repair or adjust the operation of the process to end the parameter excursion period.

(iii) Steps shall be taken to minimize total HAP emissions to the atmosphere during the parameter excursion period.

(2) A parameter excursion is not a violation of the applicable emission standard if the results of the performance test conducted using the procedures in this paragraph demonstrate compliance with the applicable emission limit in §63.446(e)(2).

(i) Conduct a performance test as specified in §63.457 using the monitoring data specified in paragraph (j)(1) or (2) of this section that coincides with the time of the parameter excursion. No maintenance or changes shall be made to the open biological treatment system after the beginning of a parameter excursion that would influence the results of the performance test.

(ii) If the results of the performance test specified in paragraph (p)(2)(i) of this section demonstrate compliance with the applicable emission limit in §63.446(e)(2), then the parameter excursion is not a violation of the applicable emission limit.

(iii) If the results of the performance test specified in paragraph (p)(2)(i) of this section do not demonstrate compliance with the applicable emission limit in §63.446(e)(2) because the total HAP mass entering the open biological treatment system is below the level needed to demonstrate compliance with the applicable emission limit in §63.446(e)(2), then the owner or operator shall perform the following comparisons:

(A) If the value of fbio (MeOH) determined during the performance test specified in paragraph (p)(2)(i) of this section is within the range of values established during the initial and subsequent performance tests approved by the Administrator, then the parameter excursion is not a violation of the applicable standard.

(B) If the value of fbio (MeOH) determined during the performance test specified in paragraph (p)(2)(i) of this section is not within the range of values established during the initial and subsequent performance tests approved by the Administrator, then the parameter excursion is a violation of the applicable standard.

(iv) The results of the performance test specified in paragraph (p)(2)(i) of this section shall be recorded as specified in §63.454(f).

(3) If an owner or operator determines that performing the required procedures under paragraph (p)(2) of this section for a nonthoroughly mixed open biological system would expose a worker to dangerous, hazardous, or otherwise unsafe conditions, all of the following procedures shall be performed:

(i) Calculate the mass removal or percent reduction value using the procedures specified in §63.457(l) except the value for fbio (MeOH) shall be determined using the procedures in appendix E to this part.

(ii) Repeat the procedures in paragraph (p)(3)(i) of this section for every day until the unsafe conditions have passed.

(iii) A parameter excursion is a violation of the standard if the percent reduction or mass removal determined in paragraph (p)(3)(i) of this section is less than the percent reduction or mass removal standards specified in §63.446(e)(2), as appropriate, unless the value of fbio (MeOH) determined using the procedures in appendix E of this section, as specified in paragraph (p)(3)(i), is within the range of fbio (MeOH) values established during the initial and subsequent performance tests previously approved by the Administrator.

(iv) The determination that there is a condition that exposes a worker to dangerous, hazardous, or otherwise unsafe conditions shall be documented according to requirements in §63.454(e) and reporting in §63.455(f).

(v) The requirements of paragraphs (p)(1) and (2) of this section shall be performed and met as soon as practical but no

SECTION E. Source Group Restrictions.

later than 24 hours after the conditions have passed that exposed a worker to dangerous, hazardous, or otherwise unsafe conditions.

(q) At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[63 FR 18617, Apr. 15, 1998, as amended at 64 FR 17563, Apr. 12, 1999; 65 FR 80762, Dec. 22, 2000; 77 FR 55711, Sept. 11, 2012]

§63.454 Recordkeeping requirements.

(a) The owner or operator of each affected source subject to the requirements of this subpart shall comply with the recordkeeping requirements of §63.10, as shown in Table 1 of this subpart, and the requirements specified in paragraphs (b) through (g) of this section for the monitoring parameters specified in §63.453.

(b) For each applicable enclosure opening, closed-vent system, and closed collection system, the owner or operator shall prepare and maintain a site-specific inspection plan including a drawing or schematic of the components of applicable affected equipment and shall record the following information for each inspection:

(1) Date of inspection;

(2) The equipment type and identification;

(3) Results of negative pressure tests for enclosures;

(4) Results of leak detection tests;

(5) The nature of the defect or leak and the method of detection (i.e., visual inspection or instrument detection);

(6) The date the defect or leak was detected and the date of each attempt to repair the defect or leak;

(7) Repair methods applied in each attempt to repair the defect or leak;

(8) The reason for the delay if the defect or leak is not repaired within 15 days after discovery;

(9) The expected date of successful repair of the defect or leak if the repair is not completed within 15 days;

(10) The date of successful repair of the defect or leak;

(11) The position and duration of opening of bypass line valves and the condition of any valve seals; and

(12) The duration of the use of bypass valves on computer controlled valves.

[NOTE: THE SCREENERS/DECKERS, ARE NOT REQUIRED TO BE COLLECTED/TREATED UNDER SUBPART S; HOWEVER ALL AIR EMISSIONS ARE VOLUNTARILY DIRECTED TO THE BLEACH PLANT SCRUBBER.]

(c) [N/A - THE FACILITY USED CHLORINE DIOXIDE FOR BLEACHING. IT DOES NOT USE CHLORINE OR HYPOCHLORITE]

(d) The owner or operator shall record the CMS parameters specified in §63.453 and meet the requirements specified in paragraph (a) of this section for any new affected process equipment or pulping process condensate stream that becomes subject to the standards in this subpart due to a process change or modification.

(e) The owner or operator shall set the flow indicator on each bypass line specified in §63.450(d)(1) to provide a record of

SECTION E. Source Group Restrictions.

the presence of gas stream flow in the bypass line at least once every 15 minutes.

(f) The owner or operator of an open biological treatment system complying with §63.453(p) shall prepare a written record specifying the results of the performance test specified in §63.453(p)(2).

(g) Recordkeeping of malfunctions. The owner or operator must maintain the following records of malfunctions:

(1) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(2) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.453(q), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[63 FR 18617, Apr. 15, 1998, as amended at 65 FR 80763, Dec. 22, 2000; 68 FR 37348, June 23, 2003; 77 FR 55711, Sept. 11, 2012]

§63.455 Reporting requirements.

(a) [N/A - INITIAL NOTIFICATION DATE PAST]

(b) [N/A - FACILITY IS COMPLIANT WITH SUBPART]

(c) [N/A - THE FACILITY USED CHLORINE DIOXIDE FOR BLEACHING. IT DOES NOT USE CHLORINE OR HYPOCHLORITE]

(d) The owner or operator shall meet the requirements specified in paragraph (a) of this section upon startup of any new affected process equipment or pulping process condensate stream that becomes subject to the standards of this subpart due to a process change or modification.

(e) If the owner or operator uses the results of the performance test required in §63.453(p)(2) to revise the approved values or ranges of the monitoring parameters specified in §63.453(j)(1) or (2), the owner or operator shall submit an initial notification of the subsequent performance test to the Administrator as soon as practicable, but no later than 15 days, before the performance test required in §63.453(p)(2) is scheduled to be conducted. The owner or operator shall notify the Administrator as soon as practicable, but no later than 24 hours, before the performance test is scheduled to be conducted to confirm the exact date and time of the performance test.

(f) To comply with the open biological treatment system monitoring provisions of §63.453(p)(3), the owner or operator shall notify the Administrator as soon as practicable of the onset of the dangerous, hazardous, or otherwise unsafe conditions that did not allow a compliance determination to be conducted using the sampling and test procedures in §63.457(l). The notification shall occur no later than 24 hours after the onset of the dangerous, hazardous, or otherwise unsafe conditions and shall include the specific reason(s) that the sampling and test procedures in §63.457(l) could not be performed.

(g) Malfunction reporting requirements. If a malfunction occurred during the reporting period, the report must include the number, duration and a brief description for each type of malfunction which occurred during the reporting period and which 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 §63.453(q), including actions taken to correct a malfunction.

(h) [N/A - PERFORMANCE TEST REQUIREMENTS PAST TENSE]

[63 FR 18617, Apr. 15, 1998, as amended at 65 FR 80763, Dec. 22, 2000; 77 FR 55711, Sept. 11, 2012]

§63.456 Affirmative defense for violation of emission standards during malfunction. [NO LONGER APPLICABLE PER COURT DECISION]

§63.457 Test methods and procedures.

SECTION E. Source Group Restrictions.

(a) Performance tests. Initial and repeat performance tests are required for the emissions sources specified in paragraphs (a)(1) and (2) of this section, except for emission sources controlled by a combustion device that is designed and operated as specified in §63.443(d)(3) or (4).

(1) Conduct an initial performance test for all emission sources subject to the limitations in §§63.443, 63.444, 63.445, 63.446, and 63.447.

(2) Conduct repeat performance tests at five-year intervals for all emission sources subject to the limitations in §§63.443, 63.444, and 63.445. The first of the 5-year repeat tests must be conducted by September 7, 2015, and thereafter within 60 months from the date of the previous performance test. Five-year repeat testing is not required for the following:

(i) Knotter or screen systems with HAP emission rates below the criteria specified in §63.443(a)(1)(ii).

(ii) Decker systems using fresh water or paper machine white water, or decker systems using process water with a total HAP concentration less than 400 parts per million by weight as specified in §63.443(a)(1)(iv).

[NOTE: PERFORMANCE TESTS ARE NOT REQUIRED FOR PULPING LINE BECAUSE EMISSIONS ARE CONTROLLED BY A COMBUSTION DEVICE THAT IS DESIGNED AND OPERATED AS SPECIFIED IN §63.443(d)(3) or (4)]

(b) Vent sampling port locations and gas stream properties. For purposes of selecting vent sampling port locations and determining vent gas stream properties, required in §§63.443, 63.444, 63.445, and 63.447, each owner or operator shall comply with the applicable procedures in paragraphs (b)(1) through (b)(6) of this section.

(1) Method 1 or 1A of part 60, appendix A-1, as appropriate, shall be used for selection of the sampling site as follows:

(i) To sample for vent gas concentrations and volumetric flow rates, the sampling site shall be located prior to dilution of the vent gas stream and prior to release to the atmosphere;

(ii) For determining compliance with percent reduction requirements, sampling sites shall be located prior to the inlet of the control device and at the outlet of the control device; measurements shall be performed simultaneously at the two sampling sites; and

(iii) For determining compliance with concentration limits or mass emission rate limits, the sampling site shall be located at the outlet of the control device.

(2) No traverse site selection method is needed for vents smaller than 0.10 meter (4.0 inches) in diameter.

(3) The vent gas volumetric flow rate shall be determined using Method 2, 2A, 2C, or 2D of part 60, appendix A-1, as appropriate.

(4) The moisture content of the vent gas shall be measured using Method 4 of part 60, appendix A-3.

(5) To determine vent gas concentrations, the owner or operator shall conduct a minimum of three test runs that are representative of normal conditions and average the resulting pollutant concentrations using the following procedures.

(i) [N/A – THE FACILITY IS NOT REQUIRED TO COMPLETE METHANOL TESTING]

(ii) Except for the modifications specified in paragraphs (b)(5)(ii)(A) through (b)(5)(ii)(K) of this section, Method 26A of part 60, appendix A-8 shall be used to determine chlorine concentration in the vent stream.

(A) Probe/sampling line. A separate probe is not required. The sampling line shall be an appropriate length of 0.64 cm (0.25 in) OD Teflon® tubing. The sample inlet end of the sampling line shall be inserted into the stack in such a way as to not entrain liquid condensation from the vent gases. The other end shall be connected to the impingers. The length of the tubing may vary from one sampling site to another, but shall be as short as possible in each situation. If sampling is conducted in sunlight, opaque tubing shall be used. Alternatively, if transparent tubing is used, it shall be covered with opaque tape.

SECTION E. Source Group Restrictions.

(B) Impinger train. Three 30 milliliter (ml) capacity midget impingers shall be connected in series to the sampling line. The impingers shall have regular tapered stems. Silica gel shall be placed in the third impinger as a desiccant. All impinger train connectors shall be glass and/or Teflon®.

(C) Critical orifice. The critical orifice shall have a flow rate of 200 to 250 ml/min and shall be followed by a vacuum pump capable of providing a vacuum of 640 millimeters of mercury (mm Hg). A 45 millimeter diameter in-line Teflon 0.8 micrometer filter shall follow the impingers to protect the critical orifice and vacuum pump.

(D) The following are necessary for the analysis apparatus:

(1) Wash bottle filled with deionized water;

(2) 25 or 50 ml graduated burette and stand;

(3) Magnetic stirring apparatus and stir bar;

(4) Calibrated pH Meter;

(5) 150-250 ml beaker or flask; and

(6) A 5 ml pipette.

(E) The procedures listed in paragraphs (b)(5)(ii)(E)(1) through (b)(5)(ii)(E)(7) of this section shall be used to prepare the reagents.

(1) To prepare the 1 molarity (M) potassium dihydrogen phosphate solution, dissolve 13.61 grams (g) of potassium dihydrogen phosphate in water and dilute to 100 ml.

(2) To prepare the 1 M sodium hydroxide solution (NaOH), dissolve 4.0 g of sodium hydroxide in water and dilute to 100 ml.

(3) To prepare the buffered 2 percent potassium iodide solution, dissolve 20 g of potassium iodide in 900 ml water. Add 50 ml of the 1 M potassium dihydrogen phosphate solution and 30 ml of the 1 M sodium hydroxide solution. While stirring solution, measure the pH of solution electrometrically and add the 1 M sodium hydroxide solution to bring pH to between 6.95 and 7.05.

(4) To prepare the 0.1 normality (N) sodium thiosulfate solution, dissolve 25 g of sodium thiosulfate, pentahydrate, in 800 ml of freshly boiled and cooled distilled water in a 1-liter volumetric flask. Dilute to volume. To prepare the 0.01 N sodium thiosulfate solution, add 10.0 ml standardized 0.1 N sodium thiosulfate solution to a 100 ml volumetric flask, and dilute to volume with water.

(5) To standardize the 0.1 N sodium thiosulfate solution, dissolve 3.249 g of anhydrous potassium bi-iodate, primary standard quality, or 3.567 g potassium iodate dried at 103 =/-2 degrees Centigrade for 1 hour, in distilled water and dilute to 1000 ml to yield a 0.1000 N solution. Store in a glass-stoppered bottle. To 80 ml distilled water, add, with constant stirring, 1 ml concentrated sulfuric acid, 10.00 ml 0.1000 N anhydrous potassium bi-iodate, and 1 g potassium iodide. Titrate immediately with 0.1 n sodium thiosulfate titrant until the yellow color of the liberated iodine is almost discharged. Add 1 ml starch indicator solution and continue titrating until the blue color disappears. The normality of the sodium thiosulfate solution is inversely proportional to the ml of sodium thiosulfate solution consumed:

NORMALITY OF SODIUM THIOSULFATE = 1/ml SODIUM THIOSULFATE CONSUMED

(6) To prepare the starch indicator solution, add a small amount of cold water to 5 g starch and grind in a mortar to obtain a thin paste. Pour paste into 1 L of boiling distilled water, stir, and let settle overnight. Use clear supernate for starch indicator solution.

(7) To prepare the 10 percent sulfuric acid solution, add 10 ml of concentrated sulfuric acid to 80 ml water in a 100 ml volumetric flask. Dilute to volume.

SECTION E. Source Group Restrictions.

(F) The procedures specified in paragraphs (b)(5)(ii)(F)(1) through (b)(5)(ii)(F)(5) of this section shall be used to perform the sampling.

(1) Preparation of collection train. Measure 20 ml buffered potassium iodide solution into each of the first two impingers and connect probe, impingers, filter, critical orifice, and pump. The sampling line and the impingers shall be shielded from sunlight.

(2) Leak and flow check procedure. Plug sampling line inlet tip and turn on pump. If a flow of bubbles is visible in either of the liquid impingers, tighten fittings and adjust connections and impingers. A leakage rate not in excess of 2 percent of the sampling rate is acceptable. Carefully remove the plug from the end of the probe. Check the flow rate at the probe inlet with a bubble tube flow meter. The flow should be comparable or slightly less than the flow rate of the critical orifice with the impingers off-line. Record the flow and turn off the pump.

(3) Sample collection. Insert the sampling line into the stack and secure it with the tip slightly lower than the port height. Start the pump, recording the time. End the sampling after 60 minutes, or after yellow color is observed in the second in-line impinger. Record time and remove the tubing from the vent. Recheck flow rate at sampling line inlet and turn off pump. If the flow rate has changed significantly, redo sampling with fresh capture solution. A slight variation (less than 5 percent) in flow may be averaged. With the inlet end of the line elevated above the impingers, add about 5 ml water into the inlet tip to rinse the line into the first impinger.

(4) Sample analysis. Fill the burette with 0.01 N sodium thiosulfate solution to the zero mark. Combine the contents of the impingers in the beaker or flask. Stir the solution and titrate with thiosulfate until the solution is colorless. Record the volume of the first endpoint (TN, ml). Add 5 ml of the 10 percent sulfuric acid solution, and continue the titration until the contents of the flask are again colorless. Record the total volume of titrant required to go through the first and to the second endpoint (TA, ml). If the volume of neutral titer is less than 0.5 ml, repeat the testing for a longer period of time. It is important that sufficient lighting be present to clearly see the endpoints, which are determined when the solution turns from pale yellow to colorless. A lighted stirring plate and a white background are useful for this purpose.

(5) Interferences. Known interfering agents of this method are sulfur dioxide and hydrogen peroxide. Sulfur dioxide, which is used to reduce oxidant residuals in some bleaching systems, reduces formed iodine to iodide in the capture solution. It is therefore a negative interference for chlorine, and in some cases could result in erroneous negative chlorine concentrations. Any agent capable of reducing iodine to iodide could interfere in this manner. A chromium trioxide impregnated filter will capture sulfur dioxide and pass chlorine and chlorine dioxide. Hydrogen peroxide, which is commonly used as a bleaching agent in modern bleaching systems, reacts with iodide to form iodine and thus can cause a positive interference in the chlorine measurement. Due to the chemistry involved, the precision of the chlorine analysis will decrease as the ratio of chlorine dioxide to chlorine increases. Slightly negative calculated concentrations of chlorine may occur when sampling a vent gas with high concentrations of chlorine dioxide and very low concentrations of chlorine.

(G) The following calculation shall be performed to determine the corrected sampling flow rate:

$Sc = Su((BP – PW)/760)(293/(273 + t))$

Where:

SC = Corrected (dry standard) sampling flow rate, liters per minute;

SU = Uncorrected sampling flow rate, L/min;

BP = Barometric pressure at time of sampling;

PW = Saturated partial pressure of water vapor, mm Hg at temperature; and

t = Ambient temperature, °C.

(H) The following calculation shall be performed to determine the moles of chlorine in the sample:

$Cl2\ Moles – 1/8000(5TN – TA) \times NThio$

SECTION E. Source Group Restrictions.

Where:

TN = Volume neutral titer, ml;

TA = Volume acid titer (total), ml; and

NThio = Normality of sodium thiosulfate titrant.

(I) The following calculation shall be performed to determine the concentration of chlorine in the sample:

Cl2 ppmv = (3005(5TN – TA) x NThio)/SC x tS

Where:

SC = Corrected (dry standard) sampling flow rate, liters per minute;

tS = Time sampled, minutes;

TN = Volume neutral titer, ml;

TA = Volume acid titer (total), ml; and

NThio = Normality of sodium thiosulfate titrant.

(J) The following calculation shall be performed to determine the moles of chlorine dioxide in the sample:

ClO2 Moles = 1/(4000(TA – TN) x NThio)

Where:

TA = Volume acid titer (total), ml;

TN = Volume neutral titer, ml; and

NThio = Normality of sodium thiosulfate titrant.

(K) The following calculation shall be performed to determine the concentration of chlorine dioxide in the sample:

ClO2 ppmv = (6010(TA – TN) x NThio)/SC x tS

Where:

SC = Corrected (dry standard) sampling flow rate, liters per minute;

tS = Time sampled, minutes;

TA = Volume acid titer (total), ml;

TN = Volume neutral titer, ml; and

NThio = Normality of sodium thiosulfate titrant.

(iii) Any other method that measures the total HAP or methanol concentration that has been demonstrated to the Administrator's satisfaction.

(6) The minimum sampling time for each of the three test runs shall be 1 hour in which either an integrated sample or four grab samples shall be taken. If grab sampling is used, then the samples shall be taken at approximately equal intervals in

SECTION E. Source Group Restrictions.

time, such as 15 minute intervals during the test run.

(c) Liquid sampling locations and properties. For purposes of selecting liquid sampling locations and for determining properties of liquid streams such as wastewaters, process waters, and condensates required in §§63.444, 63.446, and 63.447, the owner or operator shall comply with the following procedures:

(1) Samples shall be collected using the sampling procedures of the test method listed in paragraph (c)(3) of this section selected to determine liquid stream HAP concentrations;

(i) Where feasible, samples shall be taken from an enclosed pipe prior to the liquid stream being exposed to the atmosphere; and

(ii) When sampling from an enclosed pipe is not feasible, samples shall be collected in a manner to minimize exposure of the sample to the atmosphere and loss of HAP compounds prior to sampling.

(2) The volumetric flow rate of the entering and exiting liquid streams shall be determined using the inlet and outlet flow meters or other methods demonstrated to the Administrator's satisfaction. The volumetric flow rate measurements to determine actual mass removal shall be taken at the same time as the concentration measurements.

(3) The owner or operator shall conduct a minimum of three test runs that are representative of normal conditions and average the resulting pollutant concentrations. The minimum sampling time for each test run shall be 1 hour and the grab or composite samples shall be taken at approximately equally spaced intervals over the 1-hour test run period. The owner or operator shall use one of the following procedures to determine total HAP or methanol concentration:

(i) Method 305 in Appendix A of this part, adjusted using the following equation:

$C^{-} = SUM\ (i = 1\ to\ n)\ (Ci/fmi)$

Where:

C^{-} = Pollutant concentration for the liquid stream, parts per million by weight.

Ci = Measured concentration of pollutant i in the liquid stream sample determined using Method 305, parts per million by weight.

fmi = Pollutant-specific constant that adjusts concentration measured by Method 305 to actual liquid concentration; the fm for methanol is 0.85. Additional pollutant fm values can be found in table 34, subpart G of this part.

n = Number of individual pollutants, i, summed to calculate total HAP.

(ii) For determining methanol concentrations, NCASI Method DI/MEOH-94.03. This test method is incorporated by reference in §63.14(f)(1) of subpart A of this part.

(iii) Any other method that measures total HAP concentration that has been demonstrated to the Administrator's satisfaction.

(4) To determine soluble BOD5 in the effluent stream from an open biological treatment unit used to comply with §§63.446(e)(2) and 63.453(j), the owner or operator shall use Method 405.1 of part 136 of this chapter with the following modifications:

(i) Filter the sample through the filter paper, into an Erlenmeyer flask by applying a vacuum to the flask sidearm. Minimize the time for which vacuum is applied to prevent stripping of volatile organics from the sample. Replace filter paper as often as needed in order to maintain filter times of less than approximately 30 seconds per filter paper. No rinsing of sample container or filter bowl into the Erlenmeyer flask is allowed.

(ii) Perform Method 405.1 on the filtrate obtained in paragraph (c)(4) of this section. Dilution water shall be seeded with 1 milliliter of final effluent per liter of dilution water. Dilution ratios may require adjustment to reflect the lower oxygen demand

SECTION E. Source Group Restrictions.

of the filtered sample in comparison to the total BOD5. Three BOD bottles and different dilutions shall be used for each sample.

(5) If the test method used to determine HAP concentration indicates that a specific HAP is not detectable, the value determined as the minimum measurement level (MML) of the selected test method for the specific HAP shall be used in the compliance demonstration calculations. To determine the MML for a specific HAP using one of the test methods specified in paragraph (c)(3) of this section, one of the procedures specified in paragraphs (c)(5)(i) and (ii) of this section shall be performed. The MML for a particular HAP must be determined only if the HAP is not detected in the normal working range of the method.

(i) To determine the MML for a specific HAP, the following procedures shall be performed each time the method is set up. Set up is defined as the first time the analytical apparatus is placed in operation, after any shut down of 6 months or more, or any time a major component of the analytical apparatus is replaced.

(A) Select a concentration value for the specific HAP in question to represent the MML. The value of the MML selected shall not be below the calibration standard of the selected test method.

(B) Measure the concentration of the specific HAP in a minimum of three replicate samples using the selected test method. All replicate samples shall be run through the entire analytical procedure. The samples must contain the specific HAP at the selected MML concentration and should be representative of the liquid streams to be analyzed in the compliance demonstration. Spiking of the liquid samples with a known concentration of the target HAP may be necessary to ensure that the HAP concentration in the three replicate samples is at the selected MML. The concentration of the HAP in the spiked sample must be within 50 percent of the proposed MML for the demonstration to be valid. As an alternative to spiking, a field sample above the MML may be diluted to produce a HAP concentration at the MML. To be a valid demonstration, the diluted sample must have a HAP concentration within 20 percent of the proposed MML, and the field sample must not be diluted by more than a factor of five.

(C) Calculate the relative standard deviation (RSD) and the upper confidence limit at the 95 percent confidence level using the measured HAP concentrations determined in paragraph (c)(5)(i)(B) of this section. If the upper confidence limit of the RSD is less than 30 percent, then the selected MML is acceptable. If the upper confidence limit of the RSD is greater than or equal to 30 percent, then the selected MML is too low, and the procedures specified in paragraphs (c)(5)(i)(A) through (C) of this section must be repeated.

(ii) Provide for the Administrator's approval the selected value of the MML for a specific HAP and the rationale for selecting the MML including all data and calculations used to determine the MML. The approved MML must be used in all applicable compliance demonstration calculations.

(6) When using the MML determined using the procedures in paragraph (c)(5)(ii) of this section or when using the MML determined using the procedures in paragraph (c)(5)(i), except during set up, the analytical laboratory conducting the analysis must perform and meet the following quality assurance procedures each time a set of samples is analyzed to determine compliance.

(i) Using the selected test method, analyze in triplicate the concentration of the specific HAP in a representative sample. The sample must contain the specific HAP at a concentration that is within a factor of two of the MML. If there are no samples in the set being analyzed that contain the specific HAP at an appropriate concentration, then a sample below the MML may be spiked to produce the appropriate concentration, or a sample at a higher level may be diluted. After spiking, the sample must contain the specific HAP within 50 percent of the MML. If dilution is used instead, the diluted sample must contain the specific HAP within 20 percent of the MML and must not be diluted by more than a factor of five.

(ii) Calculate the RSD using the measured HAP concentrations determined in paragraph (c)(6)(i) of this section. If the RSD is less than 20 percent, then the laboratory is performing acceptably.

(d) Detectable leak procedures. To measure detectable leaks for closed-vent systems as specified in §63.450 or for pulping process wastewater collection systems as specified in §63.446(d)(2)(i), the owner or operator shall comply with the following:

(1) Method 21, of part 60, appendix A-7; and

SECTION E. Source Group Restrictions.

(2) The instrument specified in Method 21 shall be calibrated before use according to the procedures specified in Method 21 on each day that leak checks are performed. The following calibration gases shall be used:

(i) Zero air (less than 10 parts per million by volume of hydrocarbon in air); and

(ii) A mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 parts per million by volume methane or n-hexane.

(e) Negative pressure procedures. To demonstrate negative pressure at process equipment enclosure openings as specified in §63.450(b), the owner or operator shall use one of the following procedures:

(1) An anemometer to demonstrate flow into the enclosure opening;

(2) Measure the static pressure across the opening;

(3) Smoke tubes to demonstrate flow into the enclosure opening; or

(4) Any other industrial ventilation test method demonstrated to the Administrator's satisfaction.

(f) [N/A – THE FACILITY IS NOT REQUIRED TO TEST HAP CONCENTRATIONS BECAUSE HAP EMISSIONS ARE CONTROLLED IN ACCORDANCE WITH §63.443(d)(3) or (d)(4)(ii)]

(g) Condensate HAP concentration measurement. For purposes of complying with the kraft pulping condensate requirements in §63.446, the owner or operator shall measure the total HAP concentration as methanol. For biological treatment systems complying with §63.446(e)(2), the owner or operator shall measure total HAP as acetaldehyde, methanol, methyl ethyl ketone, and propionaldehyde and follow the procedures in §63.457(l)(1) or (2). [NOTE: THE FACILITY COMPLIES WITH §63.446(e)(2)]

(h) Bleaching HAP concentration measurement. For purposes of complying with the bleaching system requirements in §63.445, the owner or operator shall measure the total HAP concentration as the sum of all individual chlorinated HAPs or as chlorine.

(i) Vent gas stream calculations. To demonstrate compliance with the mass emission rate, mass emission rate per megagram of ODP, and percent reduction requirements for vent gas streams specified in §§63.443, 63.444, 63.445, and 63.447, the owner or operator shall use the following:

(1) The total HAP mass emission rate shall be calculated using the following equation:

$E = K2[SUM (j = 1 to n) (CjMj)]Qs$

Where:

E = Mass emission rate of total HAP from the sampled vent, kilograms per hour.

K2 = Constant, 2.494 × 10-6 (parts per million by volume)-1 (gram-mole per standard cubic meter) (kilogram/gram) (minutes/hour), where standard temperature for (gram-mole per standard cubic meter) is 20 °C.

Cj = Concentration on a dry basis of pollutant j in parts per million by volume as measured by the test methods specified in paragraph (b) of this section.

Mj = Molecular weight of pollutant j, gram/gram-mole.

Qs = Vent gas stream flow rate (dry standard cubic meter per minute) at a temperature of 20 °C as indicated in paragraph (b) of this section.

n = Number of individual pollutants, i, summed to calculate total HAP.

SECTION E. Source Group Restrictions.

(2) The total HAP mass emission rate per megagram of ODP shall be calculated using the following equation:

F = E/P

Where:

F = Mass emission rate of total HAP from the sampled vent, in kilograms per megagram of ODP.

E = Mass emission rate of total HAP from the sampled vent, in kilograms per hour determined as specified in paragraph (i)(1) of this section.

P = The production rate of pulp during the sampling period, in megagrams of ODP per hour.

(3) The total HAP percent reduction shall be calculated using the following equation:

R = ((Ei – Eo)/Ei)/100

Where:

R = Efficiency of control device, percent.

Ei = Inlet mass emission rate of total HAP from the sampled vent, in kilograms of pollutant per hour, determined as specified in paragraph (i)(1) of this section.

Eo = Outlet mass emission rate of total HAP from the sampled vent, in kilograms of pollutant per hour, determined as specified in paragraph (i)(1) of this section.

(j) Liquid stream calculations. To demonstrate compliance with the mass flow rate, mass per megagram of ODP, and percent reduction requirements for liquid streams specified in §63.446, the owner or operator shall use the following:

(1) The mass flow rates of total HAP or methanol entering and exiting the treatment process shall be calculated using the following equations:

Eb = (K/n x 10^6)(SUM (i = 1 to n)(VbiCbi))

Ea = (K/n x 10^6)(SUM (i = 1 to n)(VaiCai))

Where:

Eb = Mass flow rate of total HAP or methanol in the liquid stream entering the treatment process, kilograms per hour.

Ea = Mass flow rate of total HAP or methanol in the liquid exiting the treatment process, kilograms per hour.

K = Density of the liquid stream, kilograms per cubic meter.

Vbi = Volumetric flow rate of liquid stream entering the treatment process during each run i, cubic meters per hour, determined as specified in paragraph (c) of this section.

Vai = Volumetric flow rate of liquid stream exiting the treatment process during each run i, cubic meters per hour, determined as specified in paragraph (c) of this section.

Cbi = Concentration of total HAP or methanol in the stream entering the treatment process during each run i, parts per million by weight, determined as specified in paragraph (c) of this section.

Cai = Concentration of total HAP or methanol in the stream exiting the treatment process during each run i, parts per million by weight, determined as specified in paragraph (c) of this section.

SECTION E. Source Group Restrictions.

n = Number of runs.

(2) The mass of total HAP or methanol per megagram ODP shall be calculated using the following equation:

F = Ea/P

Where:

F = Mass loading of total HAP or methanol in the sample, in kilograms per megagram of ODP.

Ea = Mass flow rate of total HAP or methanol in the wastewater stream in kilograms per hour as determined using the procedures in paragraph (j)(1) of this section.

P = The production rate of pulp during the sampling period in megagrams of ODP per hour.

(3) The percent reduction of total HAP across the applicable treatment process shall be calculated using the following equation:

R = ((Eb – Ea)/Eb) x 100

Where:

R = Control efficiency of the treatment process, percent.

Eb = Mass flow rate of total HAP in the stream entering the treatment process, kilograms per hour, as determined in paragraph (j)(1) of this section.

Ea = Mass flow rate of total HAP in the stream exiting the treatment process, kilograms per hour, as determined in paragraph (j)(1) of this section.

(4) Compounds that meet the requirements specified in paragraphs (j)(4)(i) or (4)(ii) of this section are not required to be included in the mass flow rate, mass per megagram of ODP, or the mass percent reduction determinations.

(i) Compounds with concentrations at the point of determination that are below 1 part per million by weight; or

(ii) Compounds with concentrations at the point of determination that are below the lower detection limit where the lower detection limit is greater than 1 part per million by weight.

(k) [N/A – THE FACILITY COMPLIES WITH §63.446(d)(3) or (d)(4)(ii)]

(l) Biological treatment system percent reduction and mass removal calculations. To demonstrate compliance with the condensate treatment standards specified in §63.446(e)(2) and the monitoring requirements specified in §63.453(j)(3) using a biological treatment system, the owner or operator shall use one of the procedures specified in paragraphs (1)(1) and (2) of this section. Owners or operators using a nonthoroughly mixed open biological treatment system shall also comply with paragraph (1)(3) of this section.

(1) Percent reduction methanol procedure. For the purposes of complying with the condensate treatment requirements specified in §63.446(e)(2) and (3), the methanol percent reduction shall be calculated using the following equations:

R = (fbio(MeOH)/(1 + 1.087(r))) x 100

Where:

R = Percent destruction.

fbio(MeOH) = The fraction of methanol removed in the biological treatment system. The site-specific biorate constants shall be determined using the appropriate procedures specified in appendix C of this part.

SECTION E. Source Group Restrictions.

r = Ratio of the sum of acetaldehyde, methyl ethyl ketone, and propionaldehyde mass to methanol mass.

F(nonmethanol) = The sum of acetaldehyde, methyl ethyl ketone, and propionaldehyde mass flow rates (kg/Mg ODP) entering the biological treatment system determined using the procedures in paragraph (j)(2) of this section.

F(methanol) = The mass flow rate (kg/Mg ODP) of methanol entering the system determined using the procedures in paragraph (j)(2) of this section.

(2) Mass removal methanol procedure. For the purposes of complying with the condensate treatment requirements specified in §63.446(e)(2) and (4), or §63.446(e)(2) and (5), the methanol mass removal shall be calculated using the following equation:

F = Fb x (fbio(MeOH)/(1 + 1.087(r)))

Where:

F = Methanol mass removal (kg/Mg ODP).

Fb = Inlet mass flow rate of methanol (kg/Mg ODP) determined using the procedures in paragraph (j)(2) of this section.

fbio(MeOH) = The fraction of methanol removed in the biological treatment system. The site-specific biorate constants shall be determined using the appropriate procedures specified in appendix C of this part.

r = Ratio of the sum of acetaldehyde, methyl ethyl ketone, and propionaldehyde mass to methanol mass determined using the procedures in paragraph (1) of this section.

(3) The owner or operator of a nonthoroughly mixed open biological treatment system using the monitoring requirements specified in §63.453(p)(3) shall follow the procedures specified in section III.B.1 of appendix E of this part to determine the borate constant, Ks, and characterize the open biological treatment system during the initial and any subsequent performance tests.

(m) [N/A – THE FACILITY COMPLIES WITH §63.446(c)(1)]

(n) Open biological treatment system monitoring sampling storage. The inlet and outlet grab samples required to be collected in §63.453(j)(1)(ii) shall be stored at 4 °C (40 °F) to minimize the biodegradation of the organic compounds in the samples.

(o) Performance tests shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance of the affected source for the period being tested. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

[63 FR 18617, Apr. 15, 1998, as amended at 64 FR 17564, Apr. 12, 1999; 65 FR 80763, Dec. 22, 2000; 66 FR 24269, May 14, 2001; 77 FR 55712, Sept. 11, 2012]

§63.458 Implementation and enforcement.

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through

SECTION E. Source Group Restrictions.

(4) of this section.

(1) Approval of alternatives to the requirements in §§63.440, 63.443 through 63.447 and 63.450. Where these standards reference another subpart, the cited provisions will be delegated according to the delegation provisions of the referenced subpart.

(2) Approval of alternatives to using §§63.457(b)(5)(iii), 63.457(c)(3)(ii) through (iii), and 63.257(c)(5)(ii), and any major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of alternatives using §64.453(m) and any major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

[68 FR 37348, June 23, 2003]

§63.459 Alternative standards. [NOT APPLICABLE TO THIS FACILITY]

Table 1 to Subpart S of Part 63—General Provisions Applicability to Subpart S [INCORPORATED BY REFERENCE]

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 010

Group Description: NSPS Subpart Db

Sources included in this group

ID	Name
033	NO. 4 POWER BOILER NAT GAS/#6 OIL/#2 OIL

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

§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) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1984, but on or before June 19, 1986, is subject to the following standards:

(1) [N/A – THE BOILER ONLY FIRES NATURAL GAS AND #6 OIL]
(2) [N/A – THE BOILER IS LESS THAN 250 MMBTU/HR
(3) Oil-fired affected facilities having a heat input capacity between 29 and 73 MW (100 and 250 MMBtu/hr), inclusive, are subject to the NOX standards under this subpart.
(4) [N/A – THE BOILER IS LESS THAN 250 MMBTU/HR]

(c) [N/A – THE BOILER IS NOT SUBJECT TO SUBPART J OR Ja]

(d) [N/A – THE BOILER IS NOT SUBJECT TO SUBPART E]

SECTION E. Source Group Restrictions.

(e) [N/A – THE BOILER IS NOT APPLICABLE UNDER SUBPART Da]

(f) Any change to an existing steam generating unit for the sole purpose of combusting gases containing total reduced sulfur (TRS) as defined under §60.281 is not considered a modification under §60.14 and the steam generating unit is not subject to this subpart.

(g) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, the following authorities shall be retained by the Administrator and not transferred to a State.

(1) Section 60.44b(f).
(2) Section 60.44b(g).
(3) Section 60.49b(a)(4).

(h) [N/A – THE BOILER IS NOT SUBJECT TO SUBPART Ea, Eb, AAAA OR CCCC]

(i) [N/A – THE BOILER DOES NOT HAVE A HEAT RECOVERY STEAM GENERATOR APPLICABLE TO SUBPART KKKK, GG OR HAVE A DUCT BURNER]

(j) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators, §60.40).

(k) [N/A – THE BOILER IS NOT SUBJECT SUBPART Cb OR BBBB]

(l) [N/A – THE BOILER IS NOT SUBJECT TO SUBPART BB]

(m) [N/A – THE BOILER IS NOT A TEMPORARY UNIT]

[72 FR 32742, June 13, 2007, as amended at 74 FR 5084, Jan. 28, 2009; 77 FR 9459, Feb. 16, 2012]

§60.42b Standard for sulfur dioxide (SO2).

(a) [N/A - THE UNIT IS SUBJECT TO PARAGRAPH (j) OF THIS SECTION]

(b) [N/A – THE BOILER DOES NOT COMBUST COAL REFUSE IN A FLUIDIZED BED COMBUSTION STEAM GENERATING UNIT]

(c) [N/A – THE BOILER DOES NOT COMBUSTS COAL OR OIL, EITHER ALONE OR IN COMBINATION WITH ANY OTHER FUEL AND USES AN EMERGING TECHNOLOGY FOR THE CONTROL OF SO2 EMISSIONS]

(d) [N/A - BOILER IS NOT SUBJECT TO (d)(1)-(d)(4)]

(e) Except as provided in paragraph (f) of this section, compliance with the emission limits, fuel oil sulfur limits, and/or percent reduction requirements under this section are determined on a 30-day rolling average basis.

(f) [N/A - BOILER DOES NOT HAVE A FEDERALLY ENFORCEABLE PERMIT LIMITING THE ANNUAL CAPACITY FACTOR FOR OIL TO 10 PERCENT OR LESS, BOILER DOES NOT ONLY COMBUST VERY LOW SULFUR OIL AND BOILER COMBUSTS OTHER FUELS]

(g) Except as provided in paragraph (i) of this section and §60.45b(a), the SO2 emission limits and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction.

(h) [N/A – THE FACILITY DOES NOT USE FUEL PRETREATMENTS]

(i) [N/A - THE BOILER DOES NOT HAVE AN SO2 CONTROL SYSTEM]

(j) Percent reduction requirements are not applicable to affected facilities combusting only very low sulfur oil. The owner or

SECTION E. Source Group Restrictions.

operator of an affected facility combusting very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by: (1) Following the performance testing procedures as described in §60.45b(c) or §60.45b(d), and following the monitoring procedures as described in §60.47b(a) or §60.47b(b) to determine SO2 emission rate or fuel oil sulfur content; or (2) maintaining fuel records as described in §60.49b(r).

(k)(1) [N/A – THE BOILER WAS CONSTRUCTED BEFORE FEBRUARY 28, 2005]

(2) [N/A - THE BOILER IS NOT SUBJECT TO PARAGRAPH (k)(1)]

(3) [N/A - THE BOILER IS LOCATED IN A CONTINENTAL AREA]

(4) [N/A - THE BOILER IS NOT SUBJECT TO PARAGRAPH (k)(1)]

[72 FR 32742, June 13, 2007, as amended at 74 FR 5084, Jan. 28, 2009; 76 FR 3523, Jan. 20, 2011]

§60.43b Standard for particulate matter (PM).

(a) [N/A – THE BOILER DOES NOT COMBUST COAL OR MIXTURES OF COAL WITH OTHER FUELS]

(b) [N/A- THE FACILITY DOES NOT USE A CONVENTIONAL OR EMERGING TECHNOLOGY TO REDUCE SO2 EMISSIONS]

(c) [N/A – THE BOILER DOES NOT COMBUST WOOD OR WOOD WITH OTHER FUELS]

(d) [N/A – THE BOILER DOES NOT COMBUST MUNICIPAL TYPE SOLID WASTE OR MIXTURES OF MUNICIPAL TYPE SOLID WASTE WITH OTHER FUELS]

(e) [N/A - NO CAPACITY FACTOR IS USED FOR THIS BOILER]

(f) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, oil, wood, or mixtures of these fuels with any other fuels shall cause to be discharged into the atmosphere 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. An owner or operator of an affected facility that elects to install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for measuring PM emissions according to the requirements of this subpart and is subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less is exempt from the opacity standard specified in this paragraph.

(g) The PM and opacity standards apply at all times, except during periods of startup, shutdown, or malfunction.

(h)(1) [N/A – THE BOILER WAS CONSTRUCTED BEFORE FEBRUARY 28, 2005]

[72 FR 32742, June 13, 2007, as amended at 74 FR 5084, Jan. 28, 2009; 77 FR 9459, Feb. 16, 2012]

§60.44b Standard for nitrogen oxides (NOX).

(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, whichever date comes first, no owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain NOX (expressed as NO2) in excess of the following emission limits:

Fuel/steam generating unit type: Nitrogen oxide emission limits (expressed as NO2) heat input lb/MMBTU

(1) Natural gas and distillate oil:
(i) Low heat release rate 0.10
(ii) High heat release rate 0.20

(2) Residual oil:

SECTION E. Source Group Restrictions.

(i) Low heat release rate 0.30
(ii) High heat release rate 0.40

(b) 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, whichever date comes first, no owner or operator of an affected facility that simultaneously combusts mixtures of only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain NOX in excess of a limit determined by the use of the following formula:

REFER TO SUBPART FOR FORMULA

(c) [N/A – THE BOILER DOES NOT SIMULTANEOUSLY COMBUST COAL OR OIL, NATURAL GAS (OR ANY COMBINATION OF THE THREE), AND WOOD]

(d) [N/A – THE BOILER DOES NOT SIMULTANEOUSLY COMBUSTS NATURAL GAS AND/OR DISTILLATE OIL WITH WOOD, MUNICIPAL TYPE SOLID WASTE OR OTHER SOLID FUEL EXCEPT COAL]

(e) [N/A – THE BOILER DOES NOT SIMULTANEOUSLY COMBUSTS COAL, OIL, OR NATURAL GAS WITH BYPRODUCT/WASTE]

(f) [N/A – THE BOILER DOES NOT COMBUST BYPRODUCT/WASTE WITH NATURAL GAS OR OIL]

(g) [N/A – THE BOILER DOES NOT COMBUST HAZARDOUS WASTE WITH NATURAL GAS OR OIL]

(h) For purposes of paragraph (i) of this section, the NOX standards under this section apply at all times including periods of startup, shutdown, or malfunction.
(i) Except as provided under paragraph (j) of this section, compliance with the emission limits under this section is determined on a 30-day rolling average basis.

(j) Compliance with the emission limits under this section is determined on a 24-hour average basis for the initial performance test and on a 3-hour average basis for subsequent performance tests for any affected facilities that:

(1) [N/A – THE BOILER DOES NOT COMBUST, ALONE OR IN COMBINATION, ONLY NATURAL GAS, DISTILLATE OIL OR RESIDUAL OIL WITH A NITROGEN CONTENT OF 0.3 WEIGHT PERCENT OR LESS];

(2) [N/A – THE BOILER DOES NOT HAVE AN ANNUAL CAPACITY FACTOR OF 10 OR LESS WITH A NITROGEN CONTENT OF 0.30 WEIGHT PERCENT OR LESS]; and

(3) [N/A – THE BOILER IS NOT SUBJECT TO A FEDERALLY ENFORCEABLE REQUIREMENT LIMITING OPERATION OF THE UNIT TO FIRE NATURAL GAS, DISTILLATE OIL, AND/OR RESIDUAL OIL WITH A NITROGEN CONTENT OF 0.30 WEIGHT PERCENT OR LESS AND LIMITED TO A CAPACITY FACTOR OR 10 PERCENT OR LESS FOR NATURAL GAS, DISTILLATE OIL, AND RESIDUAL OIL]

(k) [N/A – THE FACILITY DOES NOT MEET THE CRITERIA DESCRIBED IN PARAGRAPHS (j)(1), (j)(2), AND (j)(3)]

(l) [N/A – THE BOILER DID NOT COMMENCE CONSTRUCTION AFTER JULY 9, 1997]

[72 FR 32742, June 13, 2007, as amended at 74 FR 5086, Jan. 28, 2009; 77 FR 9459, Feb. 16, 2012]

§60.45b Compliance and performance test methods and procedures for sulfur dioxide.

(a) [N/A - THE BOILER DOES NOT BURN COKE OVEN GAS ALONE OR IN COMBINATION]

(b) In conducting the performance tests required under §60.8, the owner or operator shall use the methods and procedures in appendix A (including fuel certification and sampling) of this part or the methods and procedures as specified in this section, except as provided in §60.8(b). Section 60.8(f) does not apply to this section. The 30-day notice required in §60.8(d) applies only to the initial performance test unless otherwise specified by the Administrator.

SECTION E. Source Group Restrictions.

(c) [N/A - THE FACILITY IS SUBJECT TO PARAGRAPH (j), AND IS NOT SUBJECT TO THE COMPLIANCE AND PERFORMANCE TESTING REQUIREMENTS OF THIS SECTION]

(d) [N/A – THE BOILER DOES NOT ONLY COMBUST VERY LOW SULFUR OIL, NATURAL GAS, OR A MIXTURE OF THESE FUELS HAS A CAPACITY FACTOR OF 10 PERCENT AND IS SUBJECT TO A FEDERALLY ENFORCEABLE REQUIREMENT LIMITING AN ANNUAL CAPACITY FACTOR OF 10 PERCENT]

(e) [N/A- NOT SUBJECT TO §60.42b(d)(1)]

(f) [N/A – THE INITIAL PERFORMANCE TEST HAS BEEN COMPLETED]

(g) [N/A - THE INITIAL PERFORMANCE TEST HAS BEEN COMPLETED]

(h) [N/A - SO2 CEMS NOT ELECTED]

(i) [N/A – THE BOILER DOES NOT HAVE A SO2 CONTROL SYSTEM]

(j) The owner or operator of an affected facility that only combusts very low sulfur oil, natural gas, or a mixture of these fuels with any other fuels not subject to an SO2 standard is not subject to the compliance and performance testing requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r).

(k) The owner or operator of an affected facility seeking to demonstrate compliance in §§60.42b(d)(4), 60.42b(j), 60.42b(k)(2), and 60.42b(k)(3) (when not burning coal) shall follow the applicable procedures in §60.49b(r).

[72 FR 32742, June 13, 2007, as amended at 74 FR 5086, Jan. 28, 2009]

§60.46b Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.

(a) The PM emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction. The NOX emission standards under §60.44b apply at all times.

(b) Compliance with the PM emission standards under §60.43b shall be determined through performance testing as described in paragraph (d) of this section, except as provided in paragraph (i) of this section.

(c) Compliance with the NOX emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.

(d) To determine compliance with the PM emission limits and opacity limits under §60.43b, the owner or operator of an affected facility shall conduct an initial performance test as required under §60.8, and shall conduct subsequent performance tests as requested by the Administrator, using the following procedures and reference methods:

(1) Method 3A or 3B of appendix A-2 of this part is used for gas analysis when applying Method 5 of appendix A-3 of this part or Method 17 of appendix A-6 of this part.
(2) Method 5, 5B, or 17 of appendix A of this part shall be used to measure the concentration of PM as follows:

(i) Method 5 of appendix A of this part shall be used at affected facilities without wet flue gas desulfurization (FGD) systems; and
(ii) Method 17 of appendix A-6 of this part may be used at facilities with or without wet scrubber systems provided the stack gas temperature does not exceed a temperature of 160 °C (320 °F). The procedures of sections 8.1 and 11.1 of Method 5B of appendix A-3 of this part may be used in Method 17 of appendix A-6 of this part only if it is used after a wet FGD system. Do not use Method 17 of appendix A-6 of this part after wet FGD systems if the effluent is saturated or laden with water droplets.
(iii) Method 5B of appendix A of this part is to be used only after wet FGD systems.

(3) Method 1 of appendix A of this part is used to select the sampling site and the number of traverse sampling points. The sampling time for each run is at least 120 minutes and the minimum sampling volume is 1.7 dscm (60 dscf) except that smaller sampling times or volumes may be approved by the Administrator when necessitated by process variables or other

SECTION E. Source Group Restrictions.

factors.

(4) For Method 5 of appendix A of this part, the temperature of the sample gas in the probe and filter holder is monitored and is maintained at 160±14 °C (320±25 °F).

(5) For determination of PM emissions, the oxygen (O2) or CO2 sample is obtained simultaneously with each run of Method 5, 5B, or 17 of appendix A of this part by traversing the duct at the same sampling location.

(6) For each run using Method 5, 5B, or 17 of appendix A of this part, the emission rate expressed in ng/J heat input is determined using:

(i) The O2 or CO2 measurements and PM measurements obtained under this section;
(ii) The dry basis F factor; and
(iii) The dry basis emission rate calculation procedure contained in Method 19 of appendix A of this part.

(7) Method 9 of appendix A of this part is used for determining the opacity of stack emissions.

(e) To determine compliance with the emission limits for NOX required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring NOX under §60.48(b).

(1) [N/A – THE INITIAL COMPLIANCE TEST HAS BEEN COMPLETED]

(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 NOX 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 NOX emission data for the preceding 30 steam generating unit operating days.

(3) [N/A – THE BOILER IS HAS A HEAT INPUT LESS THAN 250 MMBTU/HR]

(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 NOX standards in §60.44b through the use of a 30-day performance test. During periods when performance tests are not requested, NOX 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 NOX 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 NOX 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) [N/A – THE BOILER DOES NOT HAVE DUCT BURNERS USED IN COMBINED CYCLE SYSTEMS]

(g) [N/A – THE FACILITY HAS DEMONSTRATED THE MAXIMUM HEAT INPUT AS PART OF THE INITIAL PERFORMANCE TEST]

(h) [N/A – THE BOILER IS LESS THAN 250 MMBtu/hr]

(i) [N/A- THE BOILER IS NOT SUBJECT TO §60.43b(a)(4) OR §60.43b(h)(5)]

(j) [N/A - PM CEMS NOT ELECTED]

SECTION E. Source Group Restrictions.

[72 FR 32742, June 13, 2007, as amended at 74 FR 5086, Jan. 28, 2009; 76 FR 3523, Jan. 20, 2011; 77 FR 9460, Feb. 16, 2012; 79 FR 11249, Feb. 27, 2014]

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

§60.47b Emission monitoring for sulfur dioxide.

(a) [N/A - SO2 CEMS NOT ELECTED]

(b) [N/A - SO2 CEMS NOT ELECTED]

(c) [N/A - SO2 CEMS NOT ELECTED]

(d) [N/A - SO2 CEMS NOT ELECTED]

(e) [N/A - SO2 CEMS NOT ELECTED]

(f) The owner or operator of an affected facility that combusts very low sulfur oil or is demonstrating compliance under §60.45b(k) is not subject to the emission monitoring requirements under paragraph (a) of this section if the owner or operator maintains fuel records as described in §60.49b(r).

[72 FR 32742, June 13, 2007, as amended at 74 FR 5087, Jan. 28, 2009; 79 FR 11249, Feb. 27, 2014]

§60.48b Emission monitoring for particulate matter and nitrogen oxides.

(a) Except as provided in paragraph (j) of this section, the owner or operator of an affected facility subject to the opacity standard under §60.43b shall install, calibrate, maintain, and operate a continuous opacity monitoring systems (COMS) for measuring the opacity of emissions discharged to the atmosphere and record the output of the system. The owner or operator of an affected facility subject to an opacity standard under §60.43b and meeting the conditions under paragraphs (j)(1), (2), (3), (4), (5), or (6) of this section who elects not to use a COMS shall conduct a performance test using Method 9 of appendix A-4 of this part and the procedures in §60.11 to demonstrate compliance with the applicable limit in §60.43b by April 29, 2011, within 45 days of stopping use of an existing COMS, or within 180 days after initial startup of the facility, whichever is later, and shall comply with either paragraphs (a)(1), (a)(2), or (a)(3) of this section. The observation period for Method 9 of appendix A-4 of this part performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation. [NOTE: THE FACILITY USES COMS]

(1) [N/A - THE FACILITY USES COMS]

(2) [N/A - THE FACILITY USES COMS]

(3) [N/A - THE FACILITY USES COMS]

(b) Except as provided under paragraphs (g), (h), and (i) of this section, the owner or operator of an affected facility subject to a NOX standard under §60.44b shall comply with either paragraphs (b)(1) or (b)(2) of this section.

(1) Install, calibrate, maintain, and operate CEMS for measuring NOX and O2 (or CO2) emissions discharged to the atmosphere, and shall record the output of the system; or

(2) [N/A - THE FACILITY HAS NOT INSTALLED A NOX EMISSION RATE CEMS TO MEET THE REQUIREMENTS OF PART 75]

(c) The CEMS required under paragraph (b) of this section shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(d) The 1-hour average NOX emission rates measured by the continuous NOX monitor required by paragraph (b) of this

SECTION E. Source Group Restrictions.

section and required under §60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(h)(2).

(e) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

(1) [N/A - THE BOILER COMBUSTS OIL AND NATURAL GAS. THE FACILITY IS NOT COMBUSTING COAL, WOOD OR MUNICIPAL-TYPE SOLID WASTE]

(2) For affected facilities combusting coal, oil, or natural gas, the span value for NOX is determined using one of the following procedures:

(i) Except as provided under paragraph (e)(2)(ii) of this section, NOX span values shall be determined as follows:

Fuel Span values for NOX (ppm)
Natural gas 500.
Oil 500.
Coal 1,000.
Mixtures 500 (x + y) + 1,000z.

Where:
x = Fraction of total heat input derived from natural gas;
y = Fraction of total heat input derived from oil; and
z = Fraction of total heat input derived from coal.

(ii) [THE FACILITY IS NOT USING ALTERNATIVE TO (e)(2)(i)]

(3) All span values computed under paragraph (e)(2)(i) of this section for combusting mixtures of regulated fuels are rounded to the nearest 500 ppm. Span values computed under paragraph (e)(2)(ii) of this section shall be rounded off according to section 2.1.2 in appendix A to part 75 of this chapter.

(f) When NOX emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7 of appendix A of this part, Method 7A of appendix A of this part, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

(g) The owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less, and that has an annual capacity factor for residual oil having a nitrogen content of 0.30 weight percent or less, natural gas, distillate oil, gasified coal, or any mixture of these fuels, greater than 10 percent (0.10) shall:

(1) Comply with the provisions of paragraphs (b), (c), (d), (e)(2), (e)(3), and (f) of this section; or

(2) Monitor steam generating unit operating conditions and predict NOX emission rates as specified in a plan submitted pursuant to §60.49b(c).

(h) [N/A – THE BOILER DOES NOT HAVE A DUCT BURNER]

(i) [N/A - §60.44b(j) or §60.44b(k) ARE NOT APPLICABLE]

(j) [N/A - THE BOILER HAS COMS]

(k) [N/A - NO PM CEMS]

(l) [N/A - THE BOILER HAS COMS]

SECTION E. Source Group Restrictions.

[72 FR 32742, June 13, 2007, as amended at 74 FR 5087, Jan. 28, 2009; 76 FR 3523, Jan. 20, 2011; 77 FR 9460, Feb. 16, 2012]

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

§60.49b Reporting and recordkeeping requirements.

(a) [N/A – THE FACILITY HAS SUBMITTED NOTIFICATION OF INITIAL STARTUP]

(b) [N/A - REQUIREMENT IS IN THE PAST]

(c) [N/A - THE UNIT HAS NOX CEMS]

(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) [N/A - THE FACILITY USES THE ALTERNATIVE METHOD IN (d)(2) BELOW]

(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) [N/A - THE COMPANY MEET THE REQUIREMENTS OF §60.46b(e)(4) - NOX CEMS WITH HIGH AND LOW SPANS AND ARE NOT REQUIRED TO PERFORM NITROGEN TESTING AS INDICATED IN THIS SECTION]

(f) For an affected facility subject to the opacity standard in §60.43b, the owner or operator shall maintain records of opacity. In addition, an owner or operator that elects to monitor emissions according to the requirements in §60.48b(a) shall maintain records according to the requirements specified in paragraphs (f)(1) through (3) of this section, as applicable to the visible emissions monitoring method used.

(1) [N/A - THE BOILER HAS COMS]

(2) [N/A - THE BOILER HAS COMS]

(3) For each digital opacity compliance system, the owner or operator shall maintain records and submit reports according to the requirements specified in the site-specific monitoring plan approved by the Administrator.

(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the NOX 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 NOX emission rates (expressed as NO2) (ng/J or lb/MMBtu heat input) measured or predicted;

(3) The 30-day average NOX 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 NOX emission rates are in excess of the NOX emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions 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

SECTION E. Source Group Restrictions.

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 NOX 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 NOX 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).
(4) For purposes of §60.48b(g)(1), excess emissions are defined as any calculated 30-day rolling average NOX 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 NOX under §60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.

(j) The owner or operator of any affected facility subject to the SO2 standards under §60.42b shall submit reports.

(k) For each affected facility subject to the compliance and performance testing requirements of §60.45b and the reporting requirement in paragraph (j) of this section, the following information shall be reported to the Administrator:

(1) Calendar dates covered in the reporting period;
(2) [N/A - NOT SUBJECT TO 30-DAY AVERAGE SO2 RATE]
(3) [N/A - NOT SUBJECT TO 30-DAY AVERAGE SO2 RATE]
(4) [N/A - NO SO2 CEMS]
(5) [N/A - NO SO2 CEMS]
(6) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
(7) Identification of times when hourly averages have been obtained based on manual sampling methods;
(8)-(10) [N/A - NO SO2 CEMS]; and
(11) [N/A - NO CAPACITY FACTOR]

(l) [N/A - BOILER NOT SUBJECT TO §60.45b(d)]

(m) [N/A - SECTION §60.47b(c) FOR CEMS DO NOT APPLY]

(n) [N/A - FUEL TREATMENT OPTION NOT USED]

(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.

SECTION E. Source Group Restrictions.

(p) [N/A - SECTIONS §60.44b(j) or (k) DO NOT APPLY]

(q) [N/A - SECTIONS §60.44b(j) or §60.44b(k) DO NOT APPLY]

(r) The owner or operator of an affected facility who elects to use the fuel based compliance alternatives in §60.42b or §60.43b shall either:

(1) The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only very low sulfur oil, natural gas, wood, a mixture of these fuels, or any of these fuels (or a mixture of these fuels) in combination with other fuels that are known to contain an insignificant amount of sulfur in §60.42b(j) or §60.42b(k) shall obtain and maintain at the affected facility fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that the oil meets the definition of distillate oil and gaseous fuel meets the definition of natural gas as defined in §60.41b and the applicable sulfur limit. For the purposes of this section, the distillate oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting this definition, natural gas, wood, and/or other fuels that are known to contain insignificant amounts of sulfur were combusted in the affected facility during the reporting period; or
(2) The owner or operator of an affected facility who elects to demonstrate compliance based on fuel analysis in §60.42b or §60.43b shall develop and submit a site-specific fuel analysis plan to the Administrator for review and approval no later than 60 days before the date you intend to demonstrate compliance. Each fuel analysis plan shall include a minimum initial requirement of weekly testing and each analysis report shall contain, at a minimum, the following information:

(i) The potential sulfur emissions rate of the representative fuel mixture in ng/J heat input;
(ii) The method used to determine the potential sulfur emissions rate of each constituent of the mixture. For distillate oil and natural gas a fuel receipt or tariff sheet is acceptable;
(iii) The ratio of different fuels in the mixture; and
(iv) The owner or operator can petition the Administrator to approve monthly or quarterly sampling in place of weekly sampling.

(s) [N/A – ONLY FOR FACILITY SPECIFIC SOURCE]

(t) [N/A – ONLY FOR FACILITY SPECIFIC SOURCE]

(u) [N/A – ONLY FOR FACILITY SPECIFIC SOURCE]

(v) The owner or operator of an affected facility may submit electronic quarterly reports for SO2 and/or NOX 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 30th day following the end of the reporting period.

(x) [N/A – ONLY FOR FACILITY SPECIFIC SOURCE]

(y) [N/A – ONLY FOR FACILITY SPECIFIC SOURCE]

[72 FR 32742, June 13, 2007, as amended at 74 FR 5089, Jan. 28, 2009; 77 FR 9461, Feb. 16, 2012]

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 011

Group Description: Sources Subject to Alternative (Case-by-Case) RACT 2

Sources included in this group

ID	Name
038	#3 RECOVERY BOILER (BLACK LIQ.SOLIDS/#6 OIL)
101A	BATCH DIGESTERS W/ INCINR
103A	LIME KILN
108	NO. 3 SMELT TANK
109	ROSENBLAD EVAPORATORS
111	BROWN STOCK WASHERS
112	KNOTTERS
113A	DECKER
114	PULP BLEACHING
115	MANUFACTURE OF CHLORINE DIOXIDE
116	WASTEWATER TREATMENT PLANT
118	NO. 1 PAPER MACHINE
119	NO. 2 PAPER MACHINE
120	NO. 3 PAPER MACHINE
121A	LVHC/HVLC VENTING
127	LVHC NCG SOURCES
128	HVLC NCG SOURCES

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [25 Pa. Code §129.99]

Alternative RACT proposal and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.99, the following requirements constitute alternative RACT 2 for the No. 3 Recovery Boiler

SECTION E. Source Group Restrictions.

(Source ID 038):

(a) The No. 3 Recovery Boiler shall not emit NOx (expressed as NO2) in excess of 0.27 lb/mmBTU of heat input.

(b) Once per calendar year, the permittee shall conduct a performance test of the No. 3 Recovery Boiler to collect emissions data to verify compliance with the NOx emission limit of (a), above. The performance test shall be conducted as per Chapter 139 (Subchapter A) and the Department's Source Testing Manual. The performance test shall be conducted while the No. 3 Recovery Boiler is firing black liquor solids fuel exclusively and operating at its maximum normal operating capacity.

(c) The permittee shall calculate and record the No. 3 Recovery Boiler's actual annual NOx emissions using appropriate emissions factors from U.S. EPA Publication AP-42 or appropriate alternative emission factors based on the Department's review, coupled with appropriate operational and throughput data.

(d)(1) The permittee shall operate and maintain the No. 3 Recovery Boiler in accordance with the manufacturer's specifications and with good operating practices for the control of NOx emissions. The permittee shall maintain an operations and maintenance plan (O&M Plan) for the No. 3 Recovery Boiler. The permittee shall maintain records of any maintenance or modifications performed on the No. 3 Recovery Boiler.

(d)(2) The permittee shall maintain written documentation of the current O&M Plan for the No. 3 Recovery Boiler and any maintenance or modifications performed on the No. 3 Recovery Boiler for five years. The records shall be made available to the Department upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

 # 002 [25 Pa. Code §129.99]

Alternative RACT proposal and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.99, the following requirements constitute alternative RACT 2 for the Decker (Source ID 113A) and Pulp Bleaching (Source ID 114) and the Manufacture of Chlorine Dioxide (Source ID 115):

(a) The permittee shall operate and maintain Source IDs 113A, 114 and 115, and the Source ID C33 scrubber, in accordance with the manufacturer's specifications and with good operating practices for the control of VOC emissions. The permittee shall maintain an operations and maintenance plan (O&M Plan) for Source IDs 113A, 114 and 115, and the Source ID C33 scrubber, which shall address, at a minimum, the following: continuous monitoring of the scrubber recirculation flow rate, continuous monitoring and automated controls for scrubber recirculation flow pH, external inspection of the scrubber system once per month, and internal inspections of the scrubber performed every 18 months, or to coincide with extended maintenance outages.

(b) The permittee shall maintain records of any maintenance or modifications performed on Source IDs 113A, 114 and 115, and the Source ID C33 scrubber.

(c) The permittee shall calculate and record the actual annual VOC emissions from Source IDs 113A, 114 and 115 using appropriate emissions factors from U.S. EPA Publication AP-42 or appropriate alternative emission factors based on the Department's review, coupled with appropriate operational and throughput data.

(d) The permittee shall maintain written documentation of the current O&M Plan identified in part (a), above, and any maintenance or modifications performed on Source IDs 113A, 114 and 115, and the Source ID C33 scrubber for five years. The records shall be made available to the Department upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

 # 003 [25 Pa. Code §129.99]

Alternative RACT proposal and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.99, the below requirements constitute alternative RACT 2 for the HVLC/LVHC Sources, which consist of the following sources:

Batch Digesters (Source ID 101A); LVHC gas stream;
Rosenblad Evaporators (Source ID 109); LVHC gas stream;
Brown Stock Washers (Source ID 111); HVLC gas stream;
Knotters (Source ID 112); HVLC gas stream;
LVHC/HVLC Venting (Source ID 121A); emergency venting;
LVHC NCG Sources (Source ID 127); and

SECTION E. Source Group Restrictions.

HVLC NCG Sources (Source ID 128).

(a) Pursuant to 40 CFR Part 63, Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry (MACT Subpart S), the permittee shall utilize either the John Zink Thermal Oxidizer (Source ID CD001) or the No. 3 Power Boiler (Source ID CDPB3) to incinerate VOC emissions from the following sources: Source ID 101A, Source ID 109, Source ID 111, Source ID 112, Source ID 127, and Source ID 128.

(b) Source IDs 101A, 109, 111, 112, 121A, 127, and 128 are subject to MACT Subpart S and shall comply with all applicable requirements of MACT Subpart S, including all applicable portions of 40 CFR Part 63, Subpart A (General Provisions).

(c) The permittee shall calculate and record Source ID 121A's actual annual VOC emissions using appropriate emissions factors from U.S. EPA Publication AP-42 or appropriate alternative emission factors based on the Department's review, coupled with appropriate operational and throughput data.

(d)(1) The permittee shall operate and maintain Source IDs 101A, 109, 111, 112, 121A, 127, and 128 in accordance with the manufacturer's specifications and with good operating practices for the control of VOC emissions. The permittee shall maintain an operations and maintenance plan (O&M Plan) for Source IDs 101A, 109, 111, 112, 121A, 127, and 128, which shall address, but not be limited to, regularly scheduled preventative maintenance on all of the LVHC and HVLC system emissions units, venting system components, and control devices, and compliance with the leak detection and repair provisions of MACT Subpart S for minimizing emergency venting to the atmosphere. The permittee shall maintain records of any maintenance or modifications performed on Source IDs 101A, 109, 111, 112, 121A, 127, and 128.

(d)(2) The permittee shall maintain written documentation of the current O&M Plan for Source IDs 101A, 109, 111, 112, 121A, 127, and 128 and any maintenance or modifications performed on these sources for five years. The records shall be made available to DEP upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

 # 004 [25 Pa. Code §129.99]

Alternative RACT proposal and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.99, the following requirements constitute alternative RACT 2 for the Wastewater Treatment Plant (Source ID 116):

(a) With regard to the Wastewater Treatment Plant, the permittee shall comply with all of the relevant requirements of 40 CFR Part 63, Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry (MACT Subpart S).

(b) The permittee shall calculate and record the Wastewater Treatment Plant's actual annual VOC emissions using appropriate emissions factors from U.S. EPA Publication AP-42 or appropriate alternative emission factors based on the Department's review, coupled with appropriate operational and throughput data.

(c) The permittee shall operate and maintain the Wastewater Treatment Plant in accordance with the manufacturer's specifications and with good operating practices for the control of VOC emissions.

 # 005 [25 Pa. Code §129.99]

Alternative RACT proposal and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.99, the following requirements constitute alternative RACT 2 for the Nos. 1, 2 and 3 Paper Machines (Source IDs 118, 119 and 120, respectively):

(a) The permittee shall operate and maintain Source IDs 118, 119 and 120 in accordance with the manufacturer's specifications and with good operating practices for the control of VOC emissions. The permittee shall maintain an operations and maintenance plan (O&M Plan) for Source IDs 118, 119 and 120, which shall address at least the following: automated defect detection equipment, daily inspections of paper machines, and periodic inspections of dryer and vent systems.

(b) The permittee shall maintain records of any maintenance or modifications performed on Source IDs 118, 119 and 120.

(c) The permittee shall calculate and record the actual annual VOC emissions from Source IDs 118, 119 and 120 using appropriate emissions factors from U.S. EPA Publication AP-42 or appropriate alternative emission factors based on the Department's review, coupled with appropriate operational and throughput data

SECTION E. Source Group Restrictions.

(d) The permittee shall maintain written documentation of the current O&M Plan identified in (a), and any maintenance or modifications performed on Source IDs 118, 119 and 120 for five years. The records shall be made available to the Department upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

 # 006 [25 Pa. Code §129.99]

Alternative RACT proposal and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.99, the following requirements constitute alternative RACT 2 for the Lime Kiln (Source ID 103A):

(a) The Lime Kiln shall not emit NOx (expressed as NO2) in excess of 0.36 lb/mmBTU of heat input.

(b) Once per calendar year, the permittee shall conduct a performance test of the Lime Kiln to collect emissions data to verify compliance with the NOx emission limit of (a), above. The performance test shall be conducted as per Chapter 139 (Subchapter A) and the Department's Source Testing Manual. The performance test shall be conducted while the Lime Kiln is firing natural gas fuel exclusively and operating at its maximum normal operating capacity.

(c) The permittee shall calculate and record the Lime Kiln's actual annual NOx emissions using appropriate emissions factors from U.S. EPA Publication AP-42 or appropriate alternative emission factors based on the Department's review, coupled with appropriate operational and throughput data.

(d)(1) The permittee shall operate and maintain the Lime Kiln in accordance with the manufacturer's specifications and with good operating practices for the control of NOx emissions. The permittee shall maintain an operations and maintenance plan (O&M Plan) for the Lime Kiln. The permittee shall maintain records of any maintenance or modifications performed on the Lime Kiln.

(d)(2) The permittee shall maintain written documentation of the current O&M Plan for the Lime Kiln and any maintenance or modifications performed on the Lime Kiln for five years. The records shall be made available to the Department upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

 # 007 [25 Pa. Code §129.99]

Alternative RACT proposal and petition for alternative compliance schedule.

Pursuant to 25 Pa. Code §129.99, the following requirements constitute alternative RACT 2 for the No. 3 Smelt Tank (Source ID 108):

(a) The permittee shall operate and maintain the No. 3 Smelt Tank in accordance with the manufacturer's specifications and with good operating practices for the control of VOC emissions. The permittee shall maintain an operations and maintenance plan (O&M Plan) for the No. 3 Smelt Tank, which shall address, at a minimum, the following: continuous monitoring of scrubber flow rates and scrubber differential pressure through the Mill's distributed control system (DCS), and bimonthly scrubber flow meter verification.

(b) The permittee shall maintain records of any maintenance or modifications performed on the No. 3 Smelt Tank.

(c) The permittee shall calculate and record the No. 3 Smelt Tank's actual annual VOC emissions using appropriate emissions factors from U.S. EPA Publication AP-42 or appropriate alternative emission factors based on the Department's review, coupled with appropriate operational and throughput data.

(d) The permittee shall maintain written documentation of the current O&M Plan for the No. 3 Smelt Tank and any maintenance or modifications performed on the No. 3 Smelt Tank for five years. The records shall be made available to the Department upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 012

Group Description: Sources Controlled by the Source ID C33 Scrubber

Sources included in this group

ID	Name
113A	DECKER
114	PULP BLEACHING
115	MANUFACTURE OF CHLORINE DIOXIDE

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

In the event that the VOC emissions from the Source ID C33 scrubber controlling Source IDs 113A, 114 and 115 exceed 32.8 tons during any consecutive 12-month period, the permittee shall report this to the Department within 60 days of its occurrence and shall provide a revised RACT 2 analysis to the Department within 6 months of the occurrence. The permittee shall maintain records of VOC emissions for the Source ID C33 scrubber controlling Source IDs 113A, 114 and 115 for each calendar month and each consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 013

Group Description: MACT Subpart 4Z Requirements for Emergency Engines

Sources included in this group

ID	Name
124	EMERGENCY GENERATOR
133	LIME KILN TURNING EMERGENCY ENGINE

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Am I subject to this subpart?

Individual sources within this source group that are subject to 40 CFR Part 63 Subpart ZZZZ -National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines shall comply with all applicable requirements of the Subpart. 40 CFR 63.13(a) requires submission of copies of all requests, reports and other communications to both the Department and the EPA. The EPA copies shall be forwarded to:

Associate Director
Office of Air Enforcement and Compliance Assistance 3AP20
U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

SECTION E. Source Group Restrictions.

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

 # 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Am I subject to this subpart?

§ 63.6585 Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

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

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c)-(d) [NA – FACILITY IS MAJOR FOR HAP]

(e) [NA – NATIONAL SECURITY EXEMPTION DOES NOT APPLY]

(f) [NA – NOT RESIDENTIAL/COMMERCIAL/INSTITUTIONAL]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008; 78 FR 6700, Jan. 30, 2013]

§ 63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source.

(a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) Existing stationary RICE.

(i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.

(ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iii) [NA – FACILITY IS MAJOR FOR HAP]

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) [NA – ENGINE(S) ARE EXISTING]

(3) [NA – ENGINE(S) ARE EXISTING]

SECTION E. Source Group Restrictions.

(b) Stationary RICE subject to limited requirements. (1) [NA – ENGINE(S) ARE EXISTING]

(2) [NA – ENGINE(S) ARE EXISTING]

(3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:

(i) [NA – SPARK IGNITION ENGINE(S) <500 HP]

(ii) [NA – SPARK IGNITION ENGINE(S) <500 HP]

(iii) [N/A – 40 CFR Section 63.6640(f)(2)(ii) & (iii) VACTED AS OF 5/2/16 PER COURT ORDER]

(iv) [ENGINE(S) ARE NOT LIMITED USE]

(v) [NA – ENGINE(S) DO NOT COMBUST LANDFILL GAS OR DIGESTER GAS]

(c) [NA – ENGINE(S) ARE EXISTING]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

§ 63.6595 When do I have to comply with this subpart?

(a) Affected sources. (1) If you have an EXISTING STATIONARY RICE, EXCLUDING EXISTING NON-EMERGENCY CI STATIONARY RICE, WITH A SITE RATING OF MORE THAN 500 BRAKE HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. IF YOU HAVE AN EXISTING STATIONARY SI RICE WITH A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.

(2)-(7) [NA – ENGINE(S) ARE EXISTING]

(b) [NA – FACILITY IS MAJOR FOR HAP]

(c) If you own or operate an affected source, you must meet the applicable notification requirements in § 63.6645 and in 40 CFR part 63, subpart A.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 78 FR 6701, Jan. 30, 2013]

Emission and Operating Limitations

63.6600 What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

[NA – NO EMISSION LIMITATIONS OR OPERATING LIMITATIONS FOR EMERGENCY STATIONARY RICE >500 HP AT MAJOR HAP SOURCE]

§ 63.6601 What emission limitations must I meet if I own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than or equal to 500 brake HP located at a major source of HAP emissions?

SECTION E. Source Group Restrictions.

[NA – ENGINE(S) ARE EXISTING]

§ 63.6602 What emission limitations and other requirements must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.

TABLE 2c REQUIREMENTS: Item 1

For each Emergency stationary CI RICE*, you must meet the following requirement, except during periods of startup:

a. Change oil and filter every 500 hours of operation or annually, whichever comes first.**

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.***

TABLE 2c REQUIREMENTS: Item 6

For each Emergency stationary SI RICE*, you must meet the following requirement, except during periods of startup:

a. Change oil and filter every 500 hours of operation or annually, whichever comes first.**

b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.***

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.***

* If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.
** Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2c of this subpart.
*** Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[78 FR 6701, Jan. 30, 2013]

§ 63.6603 What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

[NA – FACILITY IS MAJOR FOR HAP]

§ 63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?

(a) [NA – ENGINE(S) ARE EMERGENCY]

SECTION E. Source Group Restrictions.

(b) [NA – 40 CFR Section 63.6640(f)(2)(ii) and (iii) VACTED AS OF 5/2/16 PER COURT ORDER AND FACILITY IS MAJOR FOR HAP]

(c) [NA – ENGINE(S) ARE EXISTING]

(d) [NA – ENGINE(S) NOT IN SPECIFIED GEOGRAPHICAL AREAS]

[78 FR 6702, Jan. 30, 2013]

General Compliance Requirements

§ 63.6605 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[75 FR 9675, Mar. 3, 2010, as amended at 78 FR 6702, Jan. 30, 2013]

Testing and Initial Compliance Requirements

§ 63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

[NA – PER TABLE 4, NO TESTING APPLIES TO EMERGENCY ENGINES]

§ 63.6611 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a new or reconstructed 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?

[NA – ENGINE(S) ARE EXISTING]

§ 63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in § 63.6595 and according to the provisions in § 63.7(a)(2). [PER TABLES 4 AND 5, NO TESTING APPLIES TO EMERGENCY ENGINES]

(b) [PER TABLES 4 AND 5, NO TESTING APPLIES TO EMERGENCY ENGINES]

[75 FR 9676, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010]

§ 63.6615 When must I conduct subsequent performance tests?

SECTION E. Source Group Restrictions.

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart. [PER TABLE 3, NO TESTING APPLIES TO EMERGENCY ENGINES]

§ 63.6620 What performance tests and other procedures must I use?

[PER TABLES 3 AND 4, NO TESTING APPLIES TO EMERGENCY ENGINES]

§ 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?

(a) [NA – NO CEMS REQUIRED OR ELECTED]

(b) [NA – NO CPMS REQUIRED OR ELECTED]

(c) [NA – LFG NOT USED]

(d) [NA – ENGINE(S) ARE EXISTING]

(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

(1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions; [NOTE: ONLY APPLIES TO SOURCE 133]

(2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions; [NOTE: ONLY APPLIES TO SOURCE 133]

(3)-(10) [NA – FACILITY IS MAJOR FOR HAP]

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed. [NOTE: ONLY APPLIES TO SOURCE 133]

(g) [NA – ENGINE(S) ARE EMERGENCY]

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply. [NOTE: ONLY APPLIES TO SOURCE 133 & ONLY TABLE 2c APPLIES]

(i) [NA – TABLES 2c & 2d DO NOT APPLY TO CI RICE]

(j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil

SECTION E. Source Group Restrictions.

changes for the engine. The analysis program must be part of the maintenance plan for the engine. [NOTE: ONLY APPLIES TO SOURCE 133 & ONLY TABLE 2c APPLIES]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6703, Jan. 30, 2013]

§ 63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?

(a)-(b) [PER TABLE 5, NO TESTING APPLIES TO EMERGENCY ENGINES]

(c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in § 63.6645. [NOTE: ONLY APPLIES TO SOURCE 133]

(d) [NA – ENGINE(S) ARE EMERGENCY]

(e) [NA – ENGINE(S) ARE EMERGENCY]

[69 FR 33506, June 15, 2004, as amended at 78 FR 6704, Jan. 30, 2013]

Continuous Compliance Requirements

§ 63.6635 How do I monitor and collect data to demonstrate continuous compliance?

[NA – NO EMISSION OR OPERATING LIMITATIONS]

§ 63.6640 How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

(a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you [NOTE: ONLY APPLIES TO SOURCE 133 & ONLY TABLE 2c APPLIES] according to methods specified in Table 6 to this subpart.

TABLE 6 REQUIREMENTS: Item 9

For each existing emergency and black start stationary RICE <=500 HP located at a major source of HAP, complying with the requirement to “Work or Management practices”, you must demonstrate continuous compliance by:

i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

END OF TABLE 6 REQUIREMENTS

(b) [NA – NO EMISSION OR OPERATING LIMITATIONS]

(c) [NA – FACILITY IS MAJOR FOR HAP]

(d) [NA – ENGINE(S) ARE EXISTING]

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions,

SECTION E. Source Group Restrictions.

or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE. [NOTE: ONLY APPLIES TO SOURCE 133]

(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(ii)-(iii) [VACATED AS OF 5/2/16 PER COURT ORDER]

(3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(4) [NA – FACILITY IS MAJOR FOR HAP]

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

Notifications, Reports, and Records

§ 63.6645 What notifications must I submit and when?

(a) You must submit all of the notifications in §§ 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;

(1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions. [NOTE: ONLY APPLIES TO SOURCE 133]

(2) [NA – FACILITY IS MAJOR FOR HAP]

SECTION E. Source Group Restrictions.

(3) [NA TO EMERGENCY ENGINES PER (a)(5)]

(4) [NA – ENGINE(S) ARE EXISTING]

(5) THIS REQUIREMENT DOES NOT APPLY IF YOU OWN OR OPERATE an existing stationary RICE less than 100 HP, AN EXISTING STATIONARY EMERGENCY RICE, or an existing stationary RICE that is not subject to any numerical emission standards.

(b)-(f) [NA – PER (a)(5)]

(g) [NA – NO TESTING REQUIRED]

(h) [NA – NO TESTING REQUIRED]

(i) [NA – FACILITY IS MAJOR FOR HAP]

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6705, Jan. 30, 2013]

§ 63.6650 What reports must I submit and when? [NOTE: ONLY APPLIES TO SOURCE 133]

(a) [NA - TABLE 7 NO LONGER APPLIES TO EMERGENCY ENGINES PER 5/2/16 VACATUR OF 40 CFR §63.6640(f)(2)(ii) and (iii)]

§ 63.6655 What records must I keep?

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section. [NOTE: ONLY APPLIES TO SOURCE 133]

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in § 63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) [NA – NO TESTING REQUIRED]

(4) [NA – NO EMISSION OR OPERATING LIMITATIONS]

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) [NA – NO EMISSION OR OPERATING LIMITATIONS]

(c) [NA – ENGINE(S) ARE EXISTING]

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

(1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions. [NOTE: ONLY APPLIES TO SOURCE 133]

SECTION E. Source Group Restrictions.

(2) An existing stationary emergency RICE.

(3) [NA – FACILITY IS MAJOR FOR HAP]

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in § 63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [NOTE: NO RECORDS PERTAINING TO §63.6640(f)(2)(ii) OR (iii) ARE REQUIRED PER 5/2/16 VACATUR]

(1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. [NOTE: ONLY APPLIES TO SOURCE 133]

(2) [NA – FACILITY IS MAJOR FOR HAP]

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 78 FR 6706, Jan. 30, 2013]

§ 63.6660 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review according to § 63.10(b)(1).

(b) As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1).

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

Other Requirements and Information

§ 63.6665 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§ 63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE. [NOTE: ONLY APPLIES TO SOURCE 133]

[75 FR 9678, Mar. 3, 2010]

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 014

Group Description: NSPS Subpart 4I Requirements for Emergency Engines

Sources included in this group

ID	Name
134	OUTDOOR AIR COMPRESSOR ENGINE

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

 # 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Am I subject to this subpart?

§60.4200 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) [N/A – NOT AN ENGINE MANUFACTURER]

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

(i) Manufactured after April 1, 2006, and are not fire pump engines, or

(ii) [N/A – NOT A FIRE PUMP ENGINE]

(3) [N/A – ENGINE(S) NOT MODIFIED OR RECONSTRUCTED]

SECTION E. Source Group Restrictions.

(4) The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

(b) [N/A – ENGINE(S) NOT BEING TESTED AT A TEST CELL/STAND]

(c) [N/A – FACILITY IS MAJOR SOURCE OF HAPS]

(d) [N/A – ENGINE(S) DO NOT MEET ENGINE CATEGORIES DESCRIBED IN 40 CFR Part 1068, Subpart C]

(e) [N/A – NOT A TEMPORARY REPLACEMENT UNIT]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011]

EMISSION STANDARDS FOR MANUFACTURERS

§60.4201 What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?

[N/A – ENGINE(S) ARE EMERGENCY]

§60.4202 What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?

[N/A – NOT AN ENGINE MANUFACTURER]

§60.4203 How long must my engines meet the emission standards if I am a manufacturer of stationary CI internal combustion engines?

[N/A – NOT AN ENGINE MANUFACTURER]

EMISSION STANDARDS FOR OWNERS AND OPERATORS

§60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

[N/A – ENGINE(S) ARE EMERGENCY]

§60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in Table 1 to this subpart. Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [NOTE: DISPLACEMENT LESS THAN 10 LITERS PER CYLINDER; TABLE 1 APPLIES]

TABLE 1 REQUIREMENTS

As stated in §§60.4201(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards:

Maximum engine power:	Emission Standards in g/HP-hr:			
	HC	NOx	CO	PM
300 =< HP < 600	1.0	6.9	8.5	0.40

END TABLE 1 REQUIREMENTS

SECTION E. Source Group Restrictions.

(b) [N/A – MODEL YEAR IS PRE-2007]

(c) [N/A – NOT A FIRE PUMP ENGINE]

(d) [N/A – DISPLACEMENT LESS THAN 30 LITERS PER CYLINDER]

(e) Owners and operators of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in §60.4212.

(f) [N/A – ENGINE(S) NOT MODIFIED OR RECONSTRUCTED]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

§60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.

[76 FR 37969, June 28, 2011]

FUEL REQUIREMENTS FOR OWNERS AND OPERATORS

§60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

(a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

(c) [Reserved]

(d) [N/A – DISPLACEMENT LESS THAN 30 LITERS PER CYLINDER]

(e) [N/A – ENGINE(S) NOT USED FOR NATIONAL SECURITY PURPOSES]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011; 78 FR 6695, Jan. 30, 2013]

OTHER REQUIREMENTS FOR OWNERS AND OPERATORS

§60.4208 What is the deadline for importing or installing stationary CI ICE produced in previous model years?

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

(b) [N/A – ENGINE(S) OVER 25 HP]

(c)-(g) [N/A – ENGINE(S) ARE EMERGENCY]

(h) [N/A – NOT AN IMPORT]

(i) [N/A – ENGINE(S) NOT MODIFIED OR RECONSTRUCTED]

SECTION E. Source Group Restrictions.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

§60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

(a) If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.

(b) [N/A – NOT SUBJECT TO §60.4204]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

COMPLIANCE REQUIREMENTS

§60.4210 What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?

[N/A – NOT AN ENGINE MANUFACTURER]

§60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:

(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

(2) Change only those emission-related settings that are permitted by the manufacturer; and

(3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

(b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(a) or §60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.

(c) [N/A – MODEL YEAR IS PRE-2007]

(d) [N/A – NOT SUBJECT TO §§60.4204(c) OR 60.4205(d)]

SECTION E. Source Group Restrictions.

(e) [N/A – ENGINE(S) NOT MODIFIED OR RECONSTRUCTED]

(f) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

(ii)-(iii) [N/A – VACATED AS OF 5/2/16 PER COURT ORDER]

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(ii) [Reserved]

(g) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

(1) [N/A – ENGINE(S) > 100 HP]

SECTION E. Source Group Restrictions.

(2) If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

(3) [N/A – ENGINE(S) < 500 HP]

(h) [N/A – ENGINE(S) NOT EQUIPPED WITH AUXILIARY EMISSION CONTROL DEVICES]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37970, June 28, 2011; 78 FR 6695, Jan. 30, 2013; 81 FR 44219, July 7, 2016]

TESTING REQUIREMENTS FOR OWNERS AND OPERATORS

§60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (e) of this section.

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR part 1042, subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.

(b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

NTE requirement for each pollutant = (1.25) x (STD) (Eq. 1)

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

(d) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in paragraph (c) of this section.

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

SECTION E. Source Group Restrictions.

(e) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1042 must not exceed the NTE standards for the same model year and maximum engine power as required in 40 CFR 1042.101(c).

[71 FR 39172, July 11, 2006, as amended at 76 FR 37971, June 28, 2011]

§60.4213 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?

[N/A – DISPLACEMENT LESS THAN 30 LITERS PER CYLINDER]

NOTIFICATION, REPORTS, AND RECORDS FOR OWNERS AND OPERATORS

§60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) [N/A – ENGINE(S) ARE EMERGENCY]

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

(c) [N/A – NOT SUBJECT TO §60.4204]

(d) [N/A – NOT OPERATED FOR DEMAND RESPONSE, VOLTAGE DEVIATION, OR TO SUPPLY POWER AS PART OF A FINANCIAL AGREEMENT]

(e) [N/A – ENGINE(S) NOT EQUIPPED WITH AUXILIARY EMISSION CONTROL DEVICES]

[71 FR 39172, July 11, 2006, as amended at 78 FR 6696, Jan. 30, 2013; 81 FR 44219, July 7, 2016]

SPECIAL REQUIREMENTS

§60.4215 What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?

[N/A – FACILITY NOT LOCATED IN THE SPECIFIED GEOGRAPHIC AREAS]

§60.4216 What requirements must I meet for engines used in Alaska?

[N/A – FACILITY NOT LOCATED IN ALASKA]

§60.4217 What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?

[N/A – ENGINE(S) NOT USING SPECIAL FUELS.

GENERAL PROVISIONS

§60.4218 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

SECTION E. Source Group Restrictions.

***** Permit Shield in Effect. *****

SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

SECTION H. Miscellaneous.

NOTE: The capacities/throughputs listed in Section A are for informational use only and should not be used as enforceable limitations.

This operating permit renewal incorporates the requirements of the following plan approvals:
07-05001B Bleach Plant
07-05001C Foul Condensate Collection and Treatment
07-05001D HVLC Project Phase I
07-05001E HVLC Project Phase II
07-05001F Boiler MACT Controls

Source 131 PM Sources Controlled By Fabric Filters includes the following sources:
Digester area dust collection system
Chip screen building dust collector
No. 3 Power Boiler ash handling system - a weekly pressure drop measurement is not required on the No. 3 Power Boiler ash handling system. This system is set up so that ashes cannot be pulled unless the air washer is on and has sufficient water supply pressure.

The following sources and activities are not subject to any work practice standards, testing, monitoring, recordkeeping or reporting requirements:

#1 & #2 ventilation systems
Routine office equipment
Paper Trimmers
Janitorial services
Plant maintenance and upkeep activities (including painting, welding, paving, and cleaning)
Boiler water treatment and associated dust collection
Lube oil consoles and storage
Hydraulic oil consoles and storage
Power washers and water pumps
Forklifts
Stretch wrapping
Caustic storage tanks
Carbon Silos and associated filter
Fire water pump
Chipping and debarking operations
Cable Vent for blow towers
Old screen room
Salt storage tank and associated filters
White liquor and green liquor storage tanks and vents
Mud filter vents
High density storage tower
Lime kiln oil storage tank
Bleach liquor make-up system
ERCO reboiler
ERCO condensate
ERCO water tank
#1, #2, and #3 paper web exhaust
Weak Black Liquor Filters
GPC starch cooker
Steam box exhausts
Window and Roof fans
Pop off valve exhausts
Dyno chest and clay system
Chemical unloading system
Clay storage
Acid storage

SECTION H. Miscellaneous.

Vacuum pumps
Coating Prep Area Dust Collectors
Ethylated starch hopper dust collector (exhausts inside a building)
#3 Recovery Boiler tube replacement project as approved
Bark grinder (used semi-annually)
Used/Waste Oil burner in mobile equipment garage
The firing of #6 oily sludge in #3 Power Boiler for containment tank cleaning or repair.
Roadway and Haul Roads

The permittee was required to cease operation of Power Boilers #1 & #2 as a requirement of the operating permit (07-302-031) for the # 4 Power Boiler that was issued March 17, 1999.

The permittee was required to cease operation of the IBW boiler as a requirement of operating permit (07-05001A) for the #2 and #3 Paper Machines - Air Flotation Drying Ovens that was issued on August 2, 1999.

-113A (Deckers) are not subject to NESHAP Subpart S pulping or bleaching per the last Title V renewal because the wash water in the Bleach Plant 1st stage filtrate does not contain HAPs. The sources are also not subject to the bleaching standards because they are used to thicken pulp before the bleach plant. Nonetheless, the Deckers are vented to the bleach plant scrubber for industrial hygiene purposes (Department approved RFD)

- Source 115: ERCO process was upgraded from R3 to R11 process in 2000. The S10 vent scrubber is the only remaining scrubber in ERCO and vents to the bleach plant scrubber. The S10 scrubber utilizes water as a filtering media.

****** End of Report ******