

# **Statement of Basis**

**Tier I Operating Permit No. T1-2020.0023**

**Project ID 62471**

**Clearwater Paper Corp - PPD and CPD**

**Lewiston, Idaho**

**Facility ID 069-00001**

**Final**

**November 26, 2021**

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The purpose of this Statement of Basis is to set forth the legal and factual basis for the Tier I operating permit terms and conditions, including references to the applicable statutory or regulatory provisions for the terms and conditions, as required by IDAPA 58.01.01.362

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## 1. ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

ADTFP	Air Dried Tons of Finished Paper Product
ASTM	American Society for Testing and Materials
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	continuous emission monitoring system
CFR	Code of Federal Regulations
CI	compression ignition
CMS	continuous monitoring systems
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
DEQ	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	U.S. Environmental Protection Agency
gr	grains (1 lb = 7,000 grains)
HAP	hazardous air pollutants
hp	horsepower
ICE	internal combustion engines
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
lb/hr	pounds per hour
MACT	Maximum Achievable Control Technology
MMBtu	million British thermal units
MRRR	Monitoring, Recordkeeping and Reporting Requirements
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standards
O <sub>2</sub>	oxygen
PM	particulate matter
PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PSD	Prevention of Significant Deterioration
PTC	permit to construct
PTE	potential to emit
RICE	reciprocating internal combustion engines
RMP	risk management plan
<i>Rules</i>	<i>Rules for the Control of Air Pollution in Idaho</i>
scf	standard cubic feet
SIP	State Implementation Plan
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
T/yr	tons per consecutive 12 calendar month period
T1	Tier I operating permit
U.S.C.	United States Code
VOC	volatile organic compound

## 2. INTRODUCTION AND APPLICABILITY

Clearwater Paper Corp. – Consumer Products Division is a manufacturer of paper products, and is located at 803 Mill Road, Lewiston, Idaho 83501. The facility is classified as a major facility, as defined by IDAPA 58.01.01.008.10.c, because it emits or has the potential to emit PM<sub>10</sub>, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC above the major source threshold of 100 tons-per-year and has the potential to emit over 100,000 tons-per-year CO<sub>2</sub> equivalent of greenhouse gas pollutants. The facility is also classified as a major facility, as defined by Subsection 008.10.a, because it emits or has the potential to emit acetaldehyde, cresols, o-cresol, hydrochloric acid, methanol, n-hexane, and phenol above the major source thresholds of 10 tons-per-year for any single HAP and 25 tons-per-year for any combination of HAP.

As a major facility, Clearwater Paper Corp. – Consumer Products Division is required to apply for a Tier I operating permit pursuant to IDAPA 58.01.01.301. The application for a Tier I operating permit must contain a certification from Clearwater Paper Corp. – Consumer Products Division as to its compliance status with all applicable requirements (IDAPA 58.01.01.314.09).

IDAPA 58.01.01.362 requires that as part of its review of the Tier I application, DEQ shall prepare a technical memorandum (i.e. statement of basis) that sets forth the legal and factual basis for the draft Tier I operating permit terms and conditions including reference to the applicable statutory provisions or the draft denial. This document provides the basis for the draft Tier I operating permit for Clearwater Paper Corp. – Consumer Products Division.

The format of this Statement of Basis follows that of the permit. Clearwater Paper Corp. – Consumer Products Division Tier I operating permit is organized into sections. They are as follows:

### **Section 1 – Acronyms, Units, and Chemical Nomenclature**

The acronyms, units, and chemical nomenclature used in the permit are defined in this section.

### **Section 2 - Tier I Operating Permit Scope**

The scope describes this permitting action.

### **Section 3 - Facility-wide Conditions**

The Facility-wide Conditions section contains the applicable requirements (permit conditions) that apply facility-wide. Where required, monitoring, recordkeeping and reporting requirements (MRRR) sufficient to assure compliance with a permit condition follows the permit condition.

### **Sections 4 through 9 – Emissions Unit Specific Permit Sections**

The emissions unit-specific sections of the permit contain the applicable requirements that specifically apply to each regulated emissions unit. Some requirements that apply to an emissions unit (e.g. opacity limits) may be contained in the Facility-wide Conditions Section. As with the facility-wide conditions, monitoring, recordkeeping and reporting requirements (MRRR) sufficient to assure compliance with an applicable requirement follows the applicable requirement.

### **Section 10 - Non-applicable Requirements and Insignificant Activities**

This section lists those requirements that the applicant has requested as non-applicable, and DEQ proposes to grant a permit shield in accordance with IDAPA 58.01.01.325.

This section contains a list of units or activities that are insignificant on the basis of size or production rate. Units and activities listed in this section must be listed in the permit application. The regulatory citation for units and activities that are insignificant on the basis of size or production rate is IDAPA 58.01.01.317.01.b.

### **Section 11 - General Provisions**

The final section of the permit contains standard terms and conditions that apply to all major facilities subject to IDAPA 58.01.01.300. This section is the same for all Tier I facilities. The General Provisions have been reviewed by EPA and contain all terms and conditions required by IDAPA 58.01.01 et al as

well as requirements from other air quality laws, rules, and regulations. Each general provision has been paraphrased so it is more easily understood by the general public; however, there is no intent to alter the effect of the requirement. Should there be a discrepancy between a paraphrased general provision in this statement of basis and a rule or permit, the rule or permit shall govern.

### 3. FACILITY INFORMATION

#### 3.1 Facility Description

Clearwater Paper Corp. – Consumer Products Division operates an existing tissue mill. The raw material is a pulp fiber and water slurry piped from the adjacent Kraft pulp mill operated by the Pulp and Paperboard Division of Clearwater Paper Corp. The slurry is subjected to both mechanical and chemical treatment as it is made into different tissue grades. There are three tissue machines for treating the pulp slurries, forming them mixture into a sheet, pressing some of the water out mechanically, drying the sheet via a steam-heated cylinder and high velocity gas-heated air, further mechanical treatment including calendaring and slitting, and rolling into larger parent rolls for intermediate storage. Each machine has separate systems, with the exception of common storage tanks for pulp and certain additives. The stock preparation area of each paper machine contains equipment for repulping and storage of pulp or broke, pulp screening, cleaning, and blending, and storage tanks for chemical additives. Finally, converting machinery is used to transform the parent rolls into finished products ready for shipping and retail sale, or into parent rolls suitable for sale to independent converters.

#### 3.2 Facility Permitting History

Tier I Operating Permit History - Previous 5-year permit term 02/19/2016 to 02/19/2021.

The following information is the permitting history of this Tier I facility during the previous five-year permit term, which was from February 19, 2016, to February 19, 2021. This information was derived from a review of the permit files available to DEQ. Permit status is noted as active and in effect (A) or superseded (S).

February 19, 2016 T1-2014.0022, T1 permit renewal, Permit status (A but will be S by this permitting action)

Underlying Permit History - Includes every underlying permit issued to this facility

The following information is the comprehensive permitting history of all underlying applicable permits issued to this Tier I facility. This information was derived from a review of the permit files available to DEQ. Permit status is noted as active and in effect (A) or superseded (S).

July 7, 1975	Permit No. 069-00011, 3L Tissue Machine, Permit status (S)
August 22, 1984	Air Pollution Source Permit #1140-0001, 1L & 2L Tissue Machines, Permit status (E – See Section 5.2 of this Statement of Basis)
January 4, 1991	PTC No. 1140-0001, 3L Tissue Machine, Permit status (S)
February 28, 1991	PTC No. 1140-0001, 3L Tissue Machine Modification, Permit status (S)
April 12, 1994	PTC No. 1140-0001, 3L Tissue Machine Modification, Permit status (S)
July 7, 1995	PTC No. No. 069-0001, 3L Tissue Machine Modification, Permit status (S)
October 25, 1995	PTC No. No. 069-0001, 3L Tissue Machine Modification, Permit status (S)
December 5, 1997	PTC No. No. 069-0001, 3L Tissue Machine Modification, Permit status (S)
July 7 1998	PTC No. No. 069-0001, 3L Tissue Machine Modification, Permit status (A)
December 17, 2002	T1-060204, Initial Tier I permit (S)
August 18, 2006	T1-060204, Facility Name Change, Potlatch to Potlatch Forest Products, Permit status (S)

December 16, 2008	T1-2008.0181, Facility name change from Potlatch Forest Products to Clearwater Paper Corporation (S)
June 15, 2009	P-2009.0025, PTC for 1L Tissue Machine Modification, Permit status (A)
January 1, 2010	T1-2010.0029, Tier I Permit Renewal, permit was modified 3/24/10 & 3/6/12 (Will be superseded by this permit)
March 6, 2012	PTC No. 2011.0123 permit to include requirements of the July 5, 2011 Consent Order (Case E 2010.0019)

#### **4. APPLICATION SCOPE AND APPLICATION CHRONOLOGY**

##### **4.1 Application Scope**

This permit is the renewal of the facility's currently effective Tier I operating permit.

##### **4.2 Application Chronology**

June 29, 2020	DEQ received an application.
August 27, 2020	DEQ determined that the application was complete.
July 22, 2021	DEQ made available the draft permit and statement of basis for peer and regional office review.
August 6, 2021	DEQ made available the draft permit and statement of basis for applicant review.
September 28 – October 28, 2021	DEQ provided a public comment period on the proposed action.
November 4, 2021	DEQ provided the proposed permit and statement of basis for EPA review.
November 26, 2021	DEQ issued the final permit and statement of basis.

#### **5. EMISSIONS UNITS, PROCESS DESCRIPTION(S), AND EMISSIONS INVENTORY**

This section lists the emissions units, describes the production or manufacturing processes, and provides the emissions inventory for this facility. The information presented was provided by the applicant in its permit application. Also listed in this section are the insignificant activities based on size or production rate.

##### **5.1 1L and 2L Tissue Machines**

Table 5.1 lists the emissions units and control devices associated with 1L and 2L Tissue Machines.

**Table 5.1 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

<b>Emissions Unit ID No.</b>	<b>Emissions Unit Description</b>	<b>Control Device (if applicable)</b>	<b>Emission Point ID No.</b>
1L-1	<u>1L Tissue Machine – Wet End</u> Manufacturer: Valmet Date of Construction: 1963 Date of Modification: 1994 Maximum Production: 7 ADTFP/hr, 48,180 ADTFP/yr	None	23, 24, 25, 26, 32
1L-2	<u>1L Tissue Machine – Dry End and Hood Burners</u> Manufacturer: Hauck-Burner Model: BBG Beta Burners (2) Date of Construction: 1963 Date of Modification: 2009	None	29
1L-3	<u>1L Tissue Machine – Dust Collection System</u> Manufacturer: Valmet-Kleissler Dust Scrubber Date of Construction: 1963	<u>Wet Scrubber</u> Manufacturer: Kleissler Model: SR6040 Type: Venturi	28a
2L-1	<u>2L Tissue Machine – Wet End</u> Manufacturer: Beloit Date of Construction: 1979 Maximum Production: 10 ADTFP/hr, 87,600 ADTFP/yr	None	34, 35, 36, 37, 45
2L-2	<u>2L Tissue Machine – Dry End and Hood Burner</u> Manufacturer: Beloit-Hauck-Burners Date of Construction: 1980	None	39
2L-3	<u>2L Tissue Machine – Dust Collection System</u> Manufacturer: Valmet-Kleissler Scrubber Date of Construction: 1993	<u>Wet Scrubber</u> Manufacturer: Kleissler Model: SR6060 Type: Venturi	52
IC-21	<u>2L Diesel Sump Pump</u> Manufacturer: Detroit Date of Installation: 1996 Rated Horsepower: 200	None	77

The facility has three tissue machines numbered 1L, 2L, and 3L. This section of the permit is for the 1L and 2L tissue machines. Each tissue machine includes equipment for the mixing of pulp or other raw materials with water, treating it chemically and mechanically to impart desired properties, forming the mixture into a sheet, pressing some of the water out mechanically, drying the sheet via steam heat air, mechanical treatment including but not limited to calendaring and slitting, and rolling into larger rolls for storage.

**5.2 3L Tissue Machine and Valmet Rewinder**

Table 5.2 lists the emissions units and control devices associated with 3L Tissue Machine and Valmet Rewinder.

**Table 5.2 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
3L-1	<u>3L Tissue Machine – Wet End</u> Manufacturer: Valmet Model: Periformer Date of Construction: 1991 Date of Modification: 1993 Maximum Capacity: 10 ADTFP/hr, 87,600 ADTFP/yr	None	3, 4, 5, 6, 7, 14, 15
3L-2	<u>3L Tissue Machine – Dry End and Hood Burner</u> Manufacturer: Valmet, Maxon-Hauck Model: Periformer, EB7-BBC1112 Date of Construction: 1991 Date of Modification: 1993	None	12
3L-3	<u>3L Tissue Machine – Dust Collection System</u> Manufacturer: Valmet-Kleissler Scrubber Date of Construction: 1993	<u>Wet Scrubber</u> Manufacturer: Kleissler Model: SR6060 Type: Venturi	12
IC-22	<u>3L Diesel Sump Pump</u> Manufacturer: Detroit Date of Installation: 1993 Rated Horsepower: 200	<u>None</u>	19
C-1	<u>Valmet Rewinder</u> Manufacturer: Valmet Model: KL200T Date of Construction: 1991	Wet Scrubber Manufacturer: Kleissler Model: SR6025 Type: Venturi	56

The facility has three tissue machines numbered 1L, 2L, and 3L. This section of the permit includes the 3L tissue machine. Each tissue machine includes equipment for mixing pulp or other raw materials with water; treating it chemically and mechanically to impart desired properties; forming the mixture into a sheet; pressing some of the water out mechanically; drying the sheet via steam heat air; mechanical treatment including but not limited to calendaring and slitting; and rolling into larger rolls for storage.

The Valmet rewinder processes larger rolls of tissue produced in the Tissue Machines into sizes suitable for consumer products.

### 5.3 Printing and Converting Operations

Table 5.3 lists the emissions units and control devices associated with printing and converting operations.

**Table 5.3 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
C-2	Various Equipment	None	66

The Consumer Products Division conducts wide-web flexographic printing on several pieces of equipment in the facility as defined in 40 CFR 63, Subpart KK. There are four affected sources. Two household towel production lines have wide-web flexographic printing presses with associated workstation which apply laminating adhesive and water-based links on the substrate. The offline slitting rewinder has a flexographic printing station and there is one KD printer for flexographic printing of knock-down corrugated shipping container. All ink and adhesive consumption is tracked monthly along with HAP and VOC content, if applicable.

CPD also produces various tissue products (bathroom tissue, towels, napkins, facial tissues, and other products). Large rolls of tissue paper are made into one of three “tissue” machines (1L, 2L, and 3L). These large rolls, called parent rolls, are then transformed into tissue products in production lines called



converters. The converting lines use inks, adhesives, and coatings. VOC emissions from the converting lines are uncontrolled.

#### 5.4 Internal Combustion Engines

Table 5.3 lists the emissions units and control devices associated with the internal combustion engines.

**Table 5.4 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
IC-20	<u>1L Diesel Sump Pump</u> Manufacturer: Detroit Date of Installation: 1968 Maximum Rated Horsepower: 150 bhp Fuel: Diesel	None	-
IC-21	<u>2L Diesel Sump Pump</u> Manufacturer: Detroit Date of Installation: 1996 Maximum Rated Horsepower: 200 bhp Fuel: Diesel	None	-
IC-22	<u>3L Diesel Sump Pump</u> Manufacturer: Detroit Date of Installation: 1993 Maximum Rated Horsepower: 200 bhp Fuel: Diesel	None	-
IC-23	<u>Generac-for Computer/Phone Systems</u> Manufacturer: Generac Date of Installation: 2000 Maximum Rated Horsepower: 200 bhp Fuel: Natural Gas	None	-

Clearwater’s Consumer Products Division operates four emergency engines: 3 diesel fueled engines to operate sump pumps and one spark ignition natural gas fueled engine to generate backup power for computers and phones.

#### 5.5 Insignificant Emissions Units Based on Size or Production Rate

This section contains a list of units or activities that are insignificant on the basis of size or production rate. Units and activities listed in this section must be listed in the permit application. Table 5. lists the units and activities which have been determined to be insignificant on the basis of size or production rate. The regulatory authority for emissions units and activities that are insignificant on the basis of size or production rate is IDAPA 58.01.01.317.01.b.

Table 5.5

INSIGNIFICANT EMISSION UNITS AND REGULATORY AUTHORITY/JUSTIFICATION

Emissions Unit / Activity	Regulatory Authority / Justification
Portable propane-fired sump pumps	IDAPA 58.01.01.317.01.b.i.18
Space heat "salamanders", 150,000 Btu/hr	18
Acid vent lines	19
Welding shop heaters (2 units)	18
Heaters at napkins area (2 units)	5
C-Fold heaters (2 units)	5
Air washer sump room heater	18
Old warehouse heaters (17 heaters)	18
2L Air makeup units (3 units)	5
3L Air makeup units (4 units)	5
2L Backup sump pump (112 Hg)	7
2L Machine roof recirculation unit	5
1L Roof recirculation unit	5
Sulfuric acid tank; 93% solution	19
Sodium hypochlorite tank; 6% solution	19
Propane storage tanks (2 tanks)	4

### 5.6 Non-applicable Requirements for Which a Permit Shield is Requested

This section of the permit lists the regulations for which the facility has requested, and DEQ proposes to grant, a permit shield pursuant to IDAPA 58.01.01.325. The findings on which this shield is based are presented below:

- Requirements for Which a Permit Shield Will Be Granted

A permit shield is granted for all permit requirements

- Requirements for Which a Permit Shield Will Not Be Granted

There are no permit requirements for which a permit shield is not granted.

### 5.7 Emissions Inventory

Table 5. summarizes the emissions inventory for this major facility. All values are expressed in units of tons-per-year and represent the facility's potential to emit. Potential to emit is defined as the maximum capacity of a facility or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or source to emit an air pollutant, including air pollution control equipment and restrictions on hour of operation or on the type or amount of material combusted, stored or processed shall be treated as part of its design if the limitation or the effect it would have on emission is state or federally enforceable.

Listed below Table 5. are the references for the emission factors used to estimate the emissions. The documentation provided by the applicant for the emissions inventory and emission factors is provided as Appendix B of this statement of basis.

**Table 5.6 EMISSIONS INVENTORY - POTENTIAL TO EMIT (T/yr)**

Source Description	PM <sub>10</sub> T/yr	PM <sub>2.5</sub> T/yr	NO <sub>x</sub> T/yr	SO <sub>2</sub> T/yr	CO T/yr	VOC T/yr	HAP T/yr
1L Tissue Machine: Process	4.40	3.20	-	-	-	1.66	14.09
1L Tissue Machine: Hood Burner	0.65	0.65	8.59	0.05	7.21	0.47	
1L Tissue Machine: Wet Scrubber	0.90	0.90	-	-	-	-	
2L Tissue Machine: Process	8.01	5.81	-	-	-	3.02	
2L Tissue Machine: Hood Burner	1.40	1.40	18.4	0.11	15.5	1.01	
2L Tissue Machine: Wet Scrubber	8.03	8.03	-	-	-	-	
3L Tissue Machine: Process	-	-	-	-	-	3.02	
3L Tissue Machine: Hood Burner	6.10	6.10	28.0	0.12	17.0	1.11	
3L Tissue Machine: Wet Scrubber	6.40	6.40	-	-	-	-	
Valmet Rewinder	3.20	3.20	-	-	-	-	
Printing and Converting	-	-	-	-	-	39.00	
Fugitive Emissions	9.37	1.89	-	-	-	-	
IC Engine Group 1	0.30	0.30	4.24	0.28	0.82	0.35	
Emergency IC Engine for Computer/Phone Systems	0.01	0.01	1.14	0.00	1.86	0.01	
<b>Total Emissions</b>	48.77	37.89	60.37	0.56	42.39	49.65	14.09

## 6. EMISSIONS LIMITS AND MRRR

This section contains the applicable requirements for this T1 facility.

This section is divided into the following subsections.

- Facility-Wide Conditions
- 1L and 2L Tissue Machines
- 3L Tissue Machine and Valmet Rewinder
- CPD Printing
- Reciprocating Internal Combustion Engines
- Insignificant Activities
- Tier I Operating Permit General Provisions.

### ***MRRR***

Monitoring, recordkeeping and reporting requirements (MRRR) are the means with which compliance with an applicable requirement is demonstrated. In this section, the applicable requirement (permit condition) is provided first followed by the MRRR. Should an applicable requirement not include sufficient MRRR to satisfy IDAPA 58.01.01.322.06, 07, and 08, then the permit must establish adequate monitoring, recordkeeping and reporting sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the permit (i.e. gap filling). In addition to the specific MRRR provided for each applicable requirement, generally applicable facility-wide conditions and general provisions may also be provided, such as performance testing, reporting, and certification requirements.

The legal and factual basis for each permit condition is provided for in this document. If a permit condition was changed due to facility draft comments or public comments, an explanation of the changes is provided.

### ***State Enforceability***

An applicable requirement that is not required by the federal CAA and has not been approved by EPA as a SIP-approved requirement is identified as a "State-only" requirement and is enforceable only under state law. State-only requirements are not enforceable by the EPA or citizens under the CAA. State-only requirements are identified in the permit within the citation of the legal authority for the permit condition.

### ***Federal Enforceability***

Unless identified as "State-only," all applicable requirements, including MRRR, are state and federally enforceable. It should be noted that while a violation of a MRRR is a violation of the permit, it is not necessarily a violation of the underlying applicable requirement (e.g. emissions limit).

To minimize the length of this document, the following permit conditions and MRRR have been paraphrased. Refer to the permit for the complete requirements.

## **6.1 Facility-Wide Conditions**

### **Permit Condition 3.1 - Fugitive Dust**

All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651.

[IDAPA 58.01.01.650-651, 3/30/2007]

### **MRRR (Permit Conditions 3.2 through 3.4)**

- Monitor and maintain records of the frequency and the methods used to control fugitive dust emissions.
- Maintain records of all fugitive dust complaints received and the corrective action taken in response to the complaint.
- Conduct facility-wide inspections of all sources of fugitive emissions. If any of the sources of fugitive dust are not being reasonably controlled, corrective action is required.

[IDAPA 58.01.01.322.06, 07, 08, 4/5/2000]

### **Permit Condition 3.5 - Odors**

The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

[IDAPA 58.01.01.775-776 (State-only), 5/1/1994]

### **MRRR (Permit Condition 3.6)**

- Maintain records of all odor complaints received and the corrective action taken in response to the complaint; and
- Take appropriate corrective action if the complaint has merit and log the date and corrective action taken.

[IDAPA 58.01.01.322.06, 07 (State only), 5/1/1994]

### **Permit Condition 3.7 - Visible Emissions**

The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.

[IDAPA 58.01.01.625, 4/5/2000]

### **MRRR (Permit Condition 3.8 through 3.9)**

- Conduct facility-wide inspections of all emissions units subject to the visible emissions standards (or rely on continuous opacity monitoring);

- If visible emissions are observed, take appropriate corrective action and/or perform a Method 9 opacity test.
- Maintain records of the results of each visible emissions inspection.

[IDAPA 58.01.01.322.06, 07, 5/1/1994]

**Permit Conditions 3.10 through 3.14 - Excess Emissions**

The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. The provisions of IDAPA 58.01.01.130-136 shall govern in the event of conflicts between the excess emissions facility wide conditions and the regulations of IDAPA 58.01.01.130-136.

[IDAPA 58.01.01.130-136, 4/5/2000]

**MRRR (Permit Conditions 3.11 through 3.14)**

- Take appropriate action to correct, reduce, and minimize emissions from excess emissions events.
- Prohibit excess emissions during any DEQ Atmospheric Stagnation Advisory or Wood Stove Curtailment Advisory; and
- Notify DEQ of each excess emissions events as soon as possible, including information regarding upset, breakdown, or safety events.
- Submit a report for each excess emissions event to DEQ; and
- Maintain records of each excess emissions event.

[IDAPA 58.01.01.130-136, 4/5/2000]

**Permit Condition 3.15 – Fuel-Burning Equipment PM Standards**

The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid, 0.050 gr/dscf of effluent gas corrected to 8% oxygen by volume for coal, and 0.080 gr/dscf of effluent gas corrected to 8% oxygen by volume for wood products.

[IDAPA 58.01.01.676-677, 5/1/1994]

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 3.16 - Sulfur Content Limits**

The permittee shall not sell, distribute, use, or make available for use any of the following:

- Distillate fuel oil containing more than the following percentages of sulfur:
  - ASTM Grade 1 fuel oil, 0.3% by weight.
  - ASTM Grade 2 fuel oil, 0.5% by weight.
- Coal containing greater than 1.0% sulfur by weight.
- DEQ may approve an exemption from these fuel sulfur content requirements (IDAPA 58.01.01.725.01 725.04) if the permittee demonstrates that, through control measures or other means, SO2 emissions are equal to or less than those resulting from the combustion of fuels complying with these limitations.

[IDAPA 58.01.01.725, 3/29/2010]

**MRRR - (Permit Condition 3.17)**

The permittee shall maintain documentation of supplier verification of fuel sulfur content on an as received basis.

[IDAPA 58.01.01.322.06, 5/1/1994]

### **Permit Condition 3.18 - Open Burning**

The permittee shall comply with the *Rules for Control of Open Burning*, IDAPA 58.01.01.600-623.  
[IDAPA 58.01.01.600-623, 5/08/2009]

#### **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

### **Permit Condition 3.19 - Asbestos**

The permittee shall comply with all applicable requirements of 40 CFR 61, Subpart M—“National Emission Standard for Asbestos.”

[40 CFR 61, Subpart M]

#### **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

### **Permit Condition 3.20 - Accidental Release Prevention**

(a)

An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of the Chemical Accident Prevention Provisions at 40 CFR 68 no later than the latest of the following dates:

- Three years after the date on which a regulated substance present above a threshold quantity is first listed under 40 CFR 68.130.
- The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR 68.10 (a)]

(b)

This facility is subject to 40 CFR Part 68 and shall certify compliance with all requirements of 40 CFR Part 68, including the registration and submission of the RMP, as part of the annual compliance certification required by 40 CFR 70.6(c)(5).

[40 CFR 68.215(a)(2); IDAPA 58.01.01.322.11, 4/6/2005; 40 CFR 68.215(a)(ii)]

#### **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

### **Permit Condition 3.21 - Recycling and Emissions Reductions**

The permittee shall comply with applicable standards for recycling and emissions reduction of refrigerants and their substitutes pursuant to 40 CFR 82, Subpart F, Recycling and Emissions Reduction.

[40 CFR 82, Subpart F]

#### **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

### **Permit Condition 3.22 through 3.23- NSPS/NESHAP General Provisions**

This facility is subject to NESHAP Subparts KK and ZZZZ and is therefore required to comply with applicable General Provisions.

[40 CFR 60/63, Subpart A]

#### **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

### **Permit Condition 3.24 - Monitoring and Recordkeeping**

The permittee shall maintain sufficient records to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to, the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.322.06, 07, 5/1/1994]

#### **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

### **Permit Conditions 3.25 through 3.28 - Performance Testing**

If performance testing is required, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test or shorter time period as provided in a permit, order, consent decree, or by DEQ approval. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests such testing not be performed on weekends or state holidays.

All testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, prior to conducting any performance test, the permittee is encouraged to submit in writing to DEQ, at least 30 days in advance, the following for approval:

- The type of method to be used.
- Any extenuating or unusual circumstances regarding the proposed test.
- The proposed schedule for conducting and reporting the test.

[IDAPA 58.01.01.157, 4/5/2000; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/1994]

### **MRRR (Permit Conditions 3.26 and 3.28)**

The permittee shall submit compliance test report(s) to DEQ following testing.

[IDAPA 58.01.01.157, 4/5/2000; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/1994]

### **Permit Condition 3.29 - Reports and Certifications**

This permit condition establishes generally applicable MRRR for submittal of reports, certifications, and notifications to DEQ and/or EPA as specified.

[IDAPA 58.01.01.322.08, 11, 5/1/1994]

## **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

### **Permit Condition 3.30 - Incorporation of Federal Requirements by Reference**

Unless expressly provided otherwise, any reference in this permit to any document identified in IDAPA 58.01.01.107.03 shall constitute the full incorporation into this permit of that document for the purposes of the reference, including any notes and appendices therein.

[IDAPA 58.01.01.107, 4/7/2011]

## **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

## **6.2 Emissions Unit-Specific Emissions Limits and MRRR**

### **Permit Section 4 - 1L and 2L Tissue Machines**

#### **Permit Condition 4.1**

This permit condition establishes emissions limits for particulate matter on the process weight rate and IDAPA 58.01.01.702.

[IDAPA 58.01.01.702]

## **MRRR**

No specific monitoring is required to demonstrate compliance with this permit condition.

#### **Permit Condition 4.2**

This permit condition requires that the permittee maintain in good working order and operate as efficiently as practicable, the scrubbers used to control emissions from the 1L and 2L tissue machines.

[IDAPA 58.01.01.322.01]

#### **MRRR (permit condition 4.3)**

This permit condition requires that the permittee include minimum operating values for the scrubbing media flow rate and the pressure drop across the scrubber.

[PTC No. 2009.0025, 6/15/2009]

### **Permit Section 5 - 3L Tissue Machine and Valmet Rewinder**

#### **Permit Condition 5.1**

This permit condition establishes emission limits for the 3L tissue machine, the 3L tissue machine hood exhaust, and the Valmet rewinder scrubber stack for PM, PM<sub>10</sub>, and NO<sub>x</sub>.

[PTC No. 069-00001, 7/7/1998]

## **MRRR**

No specific monitoring is required to demonstrate compliance with this permit condition. Compliance is demonstrated by complying with the operating restrictions and performing the monitoring, recordkeeping, and reporting required in this permit section.

[PTC No. 069-00001, 7/7/1998]

#### **Permit Condition 5.2**



This permit condition limits scrubber pressure drop to greater than or equal to 80% of the corresponding measurement recorded during the most recent successful performance test for PM and PM<sub>10</sub>.

[PTC No. 069-00001, 7/7/1998]

**MRRR - (permit conditions 5.6 and 5.8)**

These permit conditions require that the permittee install, calibrate, maintain, and operate a monitoring device for the continuous measurement of the change in pressure of the gas stream through each of the scrubbers controlling emissions from the 3L tissue machine and Valmet rewinder. Additionally, the permittee is required to monitor and record the scrubber pressure drop daily in inches of water. Finally, the permittee is required to monitor and record all periods when the scrubbers are operating under upset conditions, non-operative, shutdown, and/or bypassed.

[PTC No. 069-00001, 7/7/1998]

**Permit Condition 5.3**

This permit condition limits the scrubbing liquid flow rate to no less or equal to than 80% of the corresponding measurement recorded during the most recent successful performance test for PM and PM<sub>10</sub>.

[PTC No. 069-00001, 7/7/1998]

**MRRR – (permit conditions 5.7 - 5.9)**

These permit conditions require that the permittee install, calibrate, maintain, and operate a device for the continuous measurement of the scrubbing liquid flow rate supplied to each of the scrubbers controlling emissions to the 3L tissue machine and Valmet rewinder. Additionally, the permittee is required to monitor and record the scrubber liquid flow rate daily in gallons per minute. Finally, the permittee is required to monitor and record all periods when the scrubbers are operating under upset conditions, non-operative, shutdown, and/or bypassed.

[PTC No. 069-00001, 7/7/1998]

**Permit Condition 5.4**

This permit condition limits the operating rate of the 3L tissue machine and the Valmet rewinder to less than 120% of the average operating rate attained during any performance test period for which a test protocol has been granted prior approval by the Department, unless (1) a more restrictive operating limit is specified elsewhere in the permit; (2) at such an operating rate, emissions would exceed any emission limit(s) set forth in the permit; or (3) the test demonstrates noncompliance.

[PTC No. 069-00001, 7/7/1998]

**MRRR – (permit condition 5.8)**

This permit condition requires that the permittee monitor and record the production rate of the 3L tissue machine and the Valmet rewinder daily in tons per hour.

[PTC No. 069-00001, 7/7/1998]

**Permit Condition 5.5**

This permit condition limits the 3L tissue machine hood burners to less than or equal to 47 MMBtu/hr.

[PTC No. 069-00001, 7/7/1998]

**MRRR – (permit condition 5.8)**

This permit condition requires that the permittee monitor and record the 3L tissue machine Yankee dryer average fuel gas feed rate daily in millions of cubic feet per hour.

[PTC No. 069-00001, 7/7/1998]

**Permit Section 6 - CPD Printing**

**Permit Condition 6.1**

This permit condition limits the permittee to no more than 400 kg organic HAP applied each month on wide-web flexographic printing presses or no more than 500 kg per month of all materials applied in such presses.

[40 CFR 63.821(b)(1) and (2)]

**MRRR – (permit conditions 6.3-6.5)**

These permit conditions require that the permittee maintain records of the total mass of each material applied on product and packaging rotogravure or wide-web flexographic printing presses each month in accordance with 40 CFR 63.829(e)(1); or that the permittee must maintain records of the total mass and organic HAP content of each material applied on product and packaging rotogravure or wide-web flexographic printing presses during each month in accordance with 40 CFR 63.829(e)(2).

[40 CFR 63.821(e), 40 CFR 63.9(b), IDAPA 58.01.01.322.02]

**Permit Condition 6.2**

This permit condition requires that if the permittee exceeds either of the limits provided in permit condition 6.1, then the permittee shall comply with all relevant parts of 40 CFR 63, Subpart KK.

[40 CFR 63.821(c)]

## **MRRR**

No specific monitoring, recordkeeping, or reporting requirements are required to demonstrate compliance with this permit condition.

### **Permit Section 7 - Converting Lines**

#### **Permit Condition 7.1**

This permit condition limits emissions of VOC from the converting lines to no more than 39 tons per consecutive 12-calendar month period.

[PTC No. P-2011.0123, 3/6/2012]

#### **MRRR – (permit condition 7.3 – 7.5)**

These permit conditions require that the permittee develop a list of each ink, adhesive, and coating used in the converting lines and maintain manufacturer supplied documentation of the VOC and HAP content of each, monitor and record the tons of each such material used each consecutive 12-month period, and calculate the tons of VOC emissions from the converting lines by assuming that all VOC content is emitted.

[PTC No. P-2011.0123, 3/6/2012]

#### **Permit Condition 7.2**

This permit condition requires that each ink, adhesive, and coating change shall qualify for a permit exemption in accordance with IDAPA 58.01.01.223 or be regulated by 40 CFR 63, Subpart KK.

[PTC No. P-2011.0123, 3/6/2012]

## **MRRR**

No specific monitoring, recordkeeping, or reporting is required to comply with this permit condition.

### **Permit Section 8 – Reciprocating Internal Combustion Engines**

This permit section is taken directly from 40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. A full description of the applicability and the requirements of this subpart are included in the regulatory section of this statement of basis.

## **6.3 General Provisions**

Unless expressly stated, there are no MRRR for the general provisions.

### **General Compliance, Duty to Comply**

The permittee must comply with the terms and conditions of the permit.

[IDAPA 58.01.01.322.15.a, 5/1/1994; 40 CFR 70.6(a)(6)(i)]

### **General Compliance, Need to Halt or Reduce Activity Not a Defense**

The permittee cannot use the fact that it would have been necessary to halt or reduce an activity as a defense in an enforcement action.

[IDAPA 58.01.01.322.15.b, 5/1/1994; 40 CFR 70.6(a)(6)(ii)]

### **General Compliance, Duty to Supplement or Correct Application**

The permittee must promptly submit such supplementary facts or corrected information upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application. The permittee must also provide information as necessary to address any new requirements that become applicable after the date a complete application has been filed but prior to the release of a draft permit.

[IDAPA 58.01.01.315.01, 5/1/1994; 40 CFR 70.5(b)]

### **Reopening, Additional Requirements, Material Mistakes, Etc.**

This term lists the instances when the permit must be reopened and revised, including times when additional requirements become applicable, when the permit contains mistakes, or when revision or revocation is necessary to assure compliance with applicable requirements.

[IDAPA 58.01.01.322.15.c, 5/1/1994; IDAPA 58.01.01.386, 3/19/99; 40 CFR 70.7(f)(1), (2); 40 CFR 70.6(a)(6)(iii)]

### **Reopening, Permitting Actions**

This term discusses modification, revocation, reopening, and/or reissuance of the permit for cause. If the permittee files a request to modify, revoke, reissue, or terminate the permit, the request does not stay any permit condition, nor does notification of planned changes or anticipated noncompliance.

[IDAPA 58.01.01.322.15.d, 5/1/1994; 40 CFR 70.6(a)(6)(iii)]

### **Property Rights**

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

[IDAPA 58.01.01.322.15.e, 5/1/1994; 40 CFR 70.6(a)(6)(iv)]

### **Information Requests**

The permittee must furnish, within a reasonable time to DEQ, any information, including records required by the permit, that is requested in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.

[Idaho Code §39-108; IDAPA 58.01.01.122, 4/5/2000; IDAPA 58.01.01.322.15.f, 4/5/2000; 40 CFR 70.6(a)(6)(v)]

### **Information Requests, Confidential Business Information**

Upon request, the permittee must furnish to DEQ copies of records required to be kept by this permit. For information claimed to be confidential, the permittee may furnish such records along with a claim of confidentiality in accordance with Idaho Code §9-342A and applicable implementing regulations including IDAPA 58.01.01.128.

[IDAPA 58.01.01.322.15.g, 5/1/1994; IDAPA 58.01.01.128, 4/5/2000; 40 CFR 70.6(a)(6)(v)]

### **Severability**

If any provision of the permit is held to be invalid, all unaffected provisions of the permit will remain in effect and enforceable.

[IDAPA 58.01.01.322.15.h, 5/1/1994; 40 CFR 70.6(a)(5)]

### **Changes Requiring Permit Revision or Notice**

The permittee may not commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining all necessary permits to construct or an approval under IDAPA 58.01.01.213, or complying with IDAPA 58.01.01.220 through 223. The permittee must comply with IDAPA 58.01.01.380 through 386 as applicable.

[IDAPA 58.01.01.200-223, 4/2/08; IDAPA 58.01.01.322.15.i, 3/19/99; IDAPA 58.01.01.380-386, 7/1/02; 40 CFR 70.4(b)(12), (14), (15), and 70.7(d), (e)]

Changes that are not addressed or prohibited by the Tier I operating permit require a Tier I operating permit revision if such changes are subject to any requirement under Title IV of the CAA, 42 U.S.C. Section 7651 through 7651c, or are modifications under Title I of the CAA, 42 U.S.C. Section 7401 through 7515. Administrative amendments (IDAPA 58.01.01.381), minor permit modifications (IDAPA 58.01.01.383), and significant permit modifications (IDAPA 58.01.01.382) require a revision to the Tier I operating permit. IDAPA 58.01.01.502(b)(10) changes are authorized in accordance with IDAPA 58.01.01.384. Off permit changes and required notice are authorized in accordance with IDAPA 58.01.01.385.

[IDAPA 58.01.01.381-385, 7/1/02; IDAPA 58.01.01.209.05, 4/11/06; 40 CFR 70.4(b)(14) and (15)]

## **Federal and State Enforceability**

All permit conditions are federally enforceable unless specified in the permit as a state or local only requirement. State and local only requirements are not required under the CAA and are not enforceable by EPA or by citizens.

[IDAPA 58.01.01.322.15.j, 5/1/1994; IDAPA 58.01.01.322.15.k, 3/23/98; Idaho Code §39-108; 40 CFR 70.6(b)(1), (2)]

## **Inspection and Entry**

Upon presentation of credentials, the facility shall allow DEQ or an authorized representative of DEQ to do the following:

- Enter upon the permittee's premises where a Tier I source is located or emissions related activity is conducted, or where records are kept under conditions of this permit.
- Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit.
- Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
- As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.l, 5/1/1994; 40 CFR 70.6(c)(2)]

## **New Applicable Requirements**

The permittee must continue to comply with all applicable requirements and must comply with new requirements on a timely basis.

[IDAPA 58.01.01.322.10, 4/5/2000; IDAPA 58.01.01.314.10.a.ii, 5/1/1994; 40 CFR 70.6(c)(3) citing 70.5(c)(8)]

## **Fees**

The owner or operator of a Tier I source shall pay annual registration fees to DEQ in accordance with IDAPA 58.01.01.387 through IDAPA 58.01.01.397.

[IDAPA 58.01.01.387, 4/2/03; 40 CFR 70.6(a)(7)]

## **Certification**

All documents submitted to DEQ shall be certified in accordance with IDAPA 58.01.01.123 and comply with IDAPA 58.01.01.124.

[IDAPA 58.01.01.322.15.o, 5/1/1994; 40 CFR 70.6(a)(3)(iii)(A); 40 CFR 70.5(d)]

## **Renewal**

The permittee shall submit an application to DEQ for a renewal of this permit at least six months before, but no earlier than 18 months before, the expiration date of this operating permit. To ensure that the term of the operating permit does not expire before the permit is renewed, the owner or operator is encouraged to submit a renewal application nine months prior to the date of expiration.

[IDAPA 58.01.01.313.03, 4/5/2000; 40 CFR 70.5(a)(1)(iii)]

If a timely and complete application for a Tier I operating permit renewal is submitted, but DEQ fails to issue or deny the renewal permit before the end of the term of this permit, then all the terms and conditions of this permit including any permit shield that may have been granted pursuant to IDAPA 58.01.01.325 shall remain in effect until the renewal permit has been issued or denied.

[IDAPA 58.01.01.322.15.p, 5/1/1994; 40 CFR 70.7(b)]

## **Permit Shield**

Compliance with the terms and conditions of the Tier I operating permit, including those applicable to all alternative operating scenarios and trading scenarios, shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- Such applicable requirements are included and are specifically identified in the Tier I operating permit; or
  - DEQ has determined that other requirements specifically identified are not applicable and all of the criteria set forth in IDAPA 58.01.01.325.01(b) have been met.
- The permit shield shall apply to permit revisions made in accordance with IDAPA 58.01.01.381.04 (administrative amendments incorporating the terms of a permit to construct), IDAPA 58.01.01.382.04 (significant modifications), and IDAPA 58.01.01.384.03 (trading under an emissions cap).
- Nothing in this permit shall alter or affect the following:
  - Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers.
  - The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.
  - The applicable requirements of the acid rain program, consistent with 42 U.S.C. Section 7651(g)(a); and
  - The ability of EPA to obtain information from a source pursuant to Section 114 of the CAA; or the ability of DEQ to obtain information from a source pursuant to Idaho Code §39-108 and IDAPA 58.01.01.122.

**[Idaho Code §39-108 and 112; IDAPA 58.01.01.122, 4/5/2000; IDAPA 58.01.01.322.15.m, 325.01, 5/1/1994; IDAPA 58.01.01.325.02, 3/19/99; IDAPA 58.01.01.381.04, 382.04, 383.05, 384.03, 385.03, 3/19/99; 40 CFR 70.6(f)]**

### **Compliance Schedule and Progress Reports**

- For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.
- For each applicable requirement that will become effective during the term of this permit and that provides a detailed compliance schedule, the permittee shall comply with such requirements in accordance with the detailed schedule.
- For each applicable requirement that will become effective during the term of this permit that does not contain a more detailed schedule, the permittee shall meet such requirements on a timely basis.
- For each applicable requirement with which the permittee is in compliance, the permittee shall continue to comply with such requirements.

**[IDAPA 58.01.01.322.10, 4/5/2000; IDAPA 58.01.01.314.9, 5/1/1994; IDAPA 58.01.01.314.10, 4/5/2000; 40 CFR 70.6(c)(3) and (4)]**

### **Periodic Compliance Certification**

The permittee shall submit compliance certifications during the term of the permit for each emissions unit to DEQ and the EPA as specified.

- Compliance certifications for all emissions units shall be submitted annually unless otherwise specified; and
- All original compliance certifications shall be submitted to DEQ and a copy of all compliance certifications shall be submitted to the EPA.

**[IDAPA 58.01.01.322.11, 4/6/2005; 40 CFR 70.6(c)(5)(iii) as amended, 62 Fed. Reg. 54900, 54946 (10/22/97); 40 CFR 70.6(c)(5)(iv)]**

### **False Statements**

The permittee may not make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

### **No Tampering**

The permittee may not render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

### **Semiannual Monitoring Reports.**

In addition to all applicable reporting requirements identified in this permit, the permittee shall submit reports of any required monitoring at least every six months as specified.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.322.08.c, 4/5/2000; 40 CFR 70.6(a)(3)(iii)]

### **Reporting Deviations and Excess Emissions**

Each and every applicable requirement, including MRRR, is subject to prompt deviation reporting. Deviations due to excess emissions must be reported in accordance Sections 130-136. All instances of deviation from Tier I operating permit requirements must be included in the deviation reports. The reports must describe the probable cause of the deviation and any corrective action or preventative measures taken. Deviation reports must be submitted at least every six months unless the permit specifies a different time period as required by IDAPA 58.01.01.322.08.c. Examples of deviations include, but are not limited to, the following:

- Any situation in which an emissions unit fails to meet a permit term or condition.
- Emission control device does not meet a required operating condition.
- Observations or collected data that demonstrate noncompliance with an emissions standard.
- Failure to comply with a permit term that requires a report.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.135, 4/11/06; 40 CFR 70.6(a)(3)(iii)]

### **Permit Revision Not Required, Emissions Trading**

No permit revision will be required, under any approved, economic incentives, marketable permits, emissions trading, and other similar programs or processes, for changes that are provided for in the permit.

[IDAPA 58.01.01.322.05.b, 4/5/2000; 40 CFR 70.6(a)(8)]

### **Emergency**

In accordance with IDAPA 58.01.01.332, an “emergency” as defined in IDAPA 58.01.01.008, constitutes an affirmative defense to an action brought for noncompliance with such technology-based emissions limitation if the conditions of IDAPA 58.01.01.332.02 are met.

[IDAPA 58.01.01.332.01, 4/5/2000; 40 CFR 70.6(g)]

## **7. REGULATORY REVIEW**

### **7.1 Attainment Designation (40 CFR 81.313)**

The facility is located in Nez Perce County which is designated as attainment or unclassifiable for PM<sub>10</sub>, PM<sub>2.5</sub>, CO, NO<sub>2</sub>, SO<sub>x</sub>, and Ozone. Reference 40 CFR 81.313.

### **7.2 Title V Classification (IDAPA 58.01.01.300, 40 CFR Part 70)**

Clearwater Paper Corporation is a Title V classified facility because it is a major source of PM<sub>10</sub>, NO<sub>x</sub>, CO, SO<sub>2</sub>, VOC, and HAPs. It is subject to the Tier 1 operating permit requirements of IDAPA 58.01.01.300.

### 7.3 PSD Classification (40 CFR 52.21)

This facility is a designated facility as defined by IDAPA 58.01.01.006.30.c and is a major facility as defined by IDAPA 58.01.01.205 because it has the potential to emit a regulated criteria air pollutant in amounts greater than or equal to 100 tons per year.

### 7.4 NSPS Applicability (40 CFR 60)

Clearwater Paper Corp. – Consumer Products Division is not subject to any subpart of 40 CFR Part 60.

### 7.5 NESHAP Applicability (40 CFR 61)

Clearwater Paper Corp. – Consumer Products Division is not subject to any subpart of 40 CFR Part 61.

### 7.6 MACT Applicability (40 CFR 63)

Clearwater Paper Corporation is subject to the following Subparts of 40 CFR part 63:

- 40 CFR 63, Subpart KK – National Emission Standards for the Printing and Publishing Industry
- 40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

The following is a breakdown of the requirements of these subparts.

### **40 CFR 63, Subpart KK – National Emission Standards for Hazardous Air Pollutants for the Printing and Publishing Industry**

#### **§63.820 Applicability.**

(a) The provisions of this subpart apply to:

(1) Each new and existing facility that is a major source of hazardous air pollutants (HAP), as defined in 40 CFR 63.2, at which publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses are operated, and

*The provisions of this subpart apply to the permittee.*

(2) Each new and existing facility at which publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses are operated for which the owner or operator chooses to commit to and meets the criteria of paragraphs (a)(2)(i) and (ii) of this section for purposes of establishing the facility to be an area source of HAP with respect to this subpart. A facility which establishes area source status through some other mechanism, as described in paragraph (a)(7) of this section, is not subject to the provisions of this subpart.

(i) Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and

(ii) Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

(3) Each facility for which the owner or operator chooses to commit to and meets the criteria stated in paragraph (a)(2) of this section shall be considered an area source, and is subject only to the provisions of §§63.829(d) and 63.830(b)(1) of this subpart.

(4) Each facility for which the owner or operator commits to the conditions in paragraph (a)(2) of this section may exclude material used in routine janitorial or facility grounds maintenance, personal uses by employees or other persons, the use of products for the purpose of maintaining electric, propane, gasoline and diesel powered motor vehicles operated by the facility, and the use of HAP contained in intake water (used for processing or noncontact cooling) or intake air (used either as compressed air or for combustion).

(5) Each facility for which the owner or operator commits to the conditions in paragraph (a)(2) of this section to become an area source, but subsequently exceeds either of the thresholds in paragraph (a)(2) of this section



for any rolling 12-month period (without first obtaining and complying with other limits that keep its potential to emit HAP below major source levels), shall be considered in violation of its commitment for that 12-month period and shall be considered a major source of HAP beginning the first month after the end of the 12-month period in which either of the HAP-use thresholds was exceeded. As a major source of HAP, each such facility would be subject to the provisions of this subpart as noted in paragraph (a)(1) of this section and would no longer be eligible to use the provisions of paragraph (a)(2) of this section, even if in subsequent 12-month periods the facility uses less HAP than the thresholds in paragraph (a)(2) of this section.

(6) An owner or operator of an affected source subject to paragraph (a)(2) of this section who chooses to no longer be subject to paragraph (a)(2) of this section shall notify the Administrator of such change. If, by no longer being subject to paragraph (a)(2) of this section, the facility at which the affected source is located becomes a major source:

(i) The owner or operator of an existing source must continue to comply with the HAP usage provisions of paragraph (a)(2) of this section until the source is in compliance with all relevant requirements for existing affected sources under this subpart;

(ii) The owner or operator of a new source must continue to comply with the HAP usage provisions of paragraph (a)(2) of this section until the source is in compliance with all relevant requirements for new affected sources under this subpart.

(7) Nothing in this paragraph is intended to preclude a facility from establishing area source status by limiting its potential to emit through other appropriate mechanisms that may be available through the permitting authority.

(b) This subpart does not apply to research or laboratory equipment.

(c) In response to an action to enforce the standards set forth in this subpart, an owner or operator may assert an affirmative defense to a claim for civil penalties for exceedances of such standards that are caused by a malfunction, as defined in §63.2. Appropriate penalties may be assessed, however, if the owner or operator fails to meet the burden of proving all the requirements in the affirmative defense. The affirmative defense shall not be available for claims for injunctive relief.

(1) To establish the affirmative defense in any action to enforce such a limit, the owners or operators of a facility must timely meet the notification requirements of paragraph (c)(2) of this section, and must prove by a preponderance of evidence that:

(i) The excess emissions were caused by a sudden, infrequent, and unavoidable failure of air pollution control and monitoring equipment, or a process to operate in a normal or usual manner; and could not have been prevented through careful planning, proper design or better operation and maintenance practices; and did not stem from any activity or event that could have been foreseen and avoided, or planned for; and were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;

(ii) Repairs were made as expeditiously as possible when the applicable emission limitations were being exceeded. Off-shift and overtime labor were used, to the extent practicable to make these repairs;

(iii) The frequency, amount, and duration of the excess emissions (including any bypass) were minimized to the maximum extent practicable during periods of such emissions;

(iv) If the excess emissions resulted from a bypass of control equipment or a process, then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(v) All possible steps were taken to minimize the impact of the excess emissions on ambient air quality, the environment, and human health;

(vi) All emissions monitoring and control systems were kept in operation, if at all possible, consistent with safety and good air pollution control practices;

(vii) All of the actions in response to the excess emissions were documented by properly signed, contemporaneous operating logs;

(viii) At all times, the facility was operated in a manner consistent with good practices for minimizing emissions; and

(ix) The owner or operator has prepared a written root cause analysis, the purpose of which is to determine, correct and eliminate the primary causes of the malfunction and the excess emissions resulting from the malfunction event at issue. The analysis shall also specify, using the best monitoring methods and engineering judgment, the amount of excess emissions that were the result of the malfunction.

(2) *Notification.* The owner or operator of the facility experiencing an exceedance of its emission limit(s) during a malfunction shall notify the Administrator by telephone or facsimile (FAX) transmission as soon as possible, but no later than 2 business days after the initial occurrence of the malfunction, if it wishes to avail itself of an affirmative defense to civil penalties for that malfunction. The owner or operator seeking to assert an affirmative defense shall also submit a written report to the Administrator within 45 days of the initial occurrence of the exceedance of the standard in this subpart to demonstrate, with all necessary supporting documentation, that it has met the requirements set forth in paragraph (c)(1) of this section. The owner or operator may seek an extension of this deadline for up to 30 additional days by submitting a written request to the Administrator before the expiration of the 45 day period. Until a request for an extension has been approved by the Administrator, the owner or operator is subject to the requirement to submit such report within 45 days of the initial occurrence of the exceedance.

### **§63.821 Designation of affected sources.**

(a) The affected sources subject to this subpart are:

(1) All of the publication rotogravure presses and all related equipment, including proof presses, cylinder and parts cleaners, ink and solvent mixing and storage equipment, and solvent recovery equipment at a facility.

(2) All of the product and packaging rotogravure or wide-web flexographic printing presses at a facility plus any other equipment at that facility which the owner or operator chooses to include in accordance with paragraphs (a)(3) or (a)(4) of this section, except

(i) Proof presses, unless the owner or operator chooses to include proof presses in the affected source in accordance with paragraph (a)(5) of this section.

(ii) Any product and packaging rotogravure or wide-web flexographic press which is used primarily for coating, laminating, or other operations which the owner or operator chooses to exclude, provided that

(A) the sum of the total mass of inks, coatings, varnishes, adhesives, primers, solvents, thinners, reducers, and other materials applied by the press using product and packaging rotogravure print stations and the total mass of inks, coatings, varnishes, adhesives, primers, solvents, thinners, reducers, and other materials applied by the press using wide-web flexographic print stations in each month never exceeds 5 percent of the total mass of inks, coatings, varnishes, adhesives, primers, solvents, thinners, reducers, and other materials applied by the press in that month, including all inboard and outboard stations; and

(B) The owner or operator maintains records as required in §63.829(f).

(3) The owner or operator of an affected source, as defined in paragraph (a)(2) of this section, may elect to include in that affected source stand-alone equipment subject to the following provisions:

(i) Stand-alone equipment meeting any of the criteria specified in this subparagraph is eligible for inclusion:

(A) The stand-alone equipment and one or more product and packaging rotogravure or wide-web flexographic presses are used to apply solids-containing materials to the same web or substrate; or

(B) The stand-alone equipment and one or more product and packaging rotogravure or wide-web flexographic presses apply a common solids-containing material; or

(C) A common control device is used to control organic HAP emissions from the stand-alone equipment and from one or more product and packaging rotogravure or wide-web flexographic printing presses;

(ii) All eligible stand-alone equipment located at the facility is included in the affected source; and

(iii) No product and packaging rotogravure or wide-web flexographic presses are excluded from the affected source under the provisions of paragraph (a)(2)(ii) of this section.

(4) The owner or operator of an affected source, as defined in paragraph (a)(2) of this section, may elect to include in that affected source narrow-web flexographic presses subject to the following provisions:

(i) Each narrow-web flexographic press meeting any of the criteria specified in this subparagraph is eligible for inclusion:

(A) The narrow-web flexographic press and one or more product and packaging rotogravure or wide-web flexographic presses are used to apply solids containing material to the same web or substrate; or

(B) The narrow-web flexographic press and one or more product and packaging rotogravure or wide-web flexographic presses apply a common solids-containing material; or

(C) A common control device is used to control organic HAP emissions from the narrow-web flexographic press and from one or more product and packaging rotogravure or wide-web flexographic presses; and

(ii) All eligible narrow-web flexographic presses located at the facility are included in the affected source.

(5) The owner or operator of an affected source, as defined in paragraph (a)(2) of this section, may elect to include in that affected source rotogravure proof presses or flexographic proof presses subject to the following provisions:

(i) Each proof press meeting any of the criteria specified in this subparagraph is eligible for inclusion.

(A) The proof press and one or more product and packaging rotogravure or wide-web flexographic presses apply a common solids-containing material; or

(B) A common control device is used to control organic HAP emissions from the proof press and from one or more product and packaging rotogravure or wide-web flexographic presses; and

(ii) All eligible proof presses located at the facility are included in the affected source.

(6) Affiliated operations such as mixing or dissolving of ink or coating ingredients prior to application; ink or coating mixing for viscosity adjustment, color tint or additive blending, or pH adjustment; cleaning of ink or coating lines and line parts; handling and storage of inks, coatings, and solvents; and conveyance and treatment of wastewater are part of the printing and publishing industry source category, but are not part of the product and packaging rotogravure or wide-web flexographic printing affected source.

(7) Other presses are part of the printing and publishing industry source category but are not part of the publication rotogravure affected source or the product and packaging rotogravure or wide-web flexographic printing affected source and are, therefore, exempt from the requirements of this subpart except as provided in paragraph (a)(3) of this section.

(8) Narrow web-flexographic presses are part of the printing and publishing industry source category but are not part of the publication rotogravure affected source or the product and packaging rotogravure or wide-web flexographic printing affected source and are, therefore, exempt from the requirements of this subpart except as provided in paragraphs (a)(3) through (5) of this section.

(b) Each product and packaging rotogravure or wide-web flexographic printing affected source at a facility that is a major source of HAP, as defined in 40 CFR 63.2, that complies with the criteria of paragraphs (b)(1) or (b)(2) on and after the applicable compliance date as specified in §63.826 of this subpart is subject only to the requirements of §§63.829(e) and 63.830(b)(1) of this subpart.

(1) The owner or operator of the affected source applies no more than 500 kilograms (kg) per month, for every month, of inks, coatings, varnishes, adhesives, primers, solvents, thinners, reducers, and other materials on product and packaging rotogravure or wide-web flexographic printing presses, or

(2) The owner or operator of the affected source applies no more than 400 kg per month, for every month, of organic HAP on product and packaging rotogravure or wide-web flexographic printing presses.

*The permittee has chosen to comply with the operating limits provided in this paragraph, so that they are only subject to the requirements of §§63.829(e) and 63.830(b)(1) of this subpart. These limits are ensured by permit condition 6.1.*

(c) Each product and packaging rotogravure or wide-web flexographic printing affected source at a facility that is a major source of HAP, as defined in 40 CFR 63.2, that complies with neither the criterion of paragraph (b)(1) nor (b)(2) of this section in any month after the applicable compliance date as specified in §63.826 of this subpart is, starting with that month, subject to all relevant requirements of this subpart and is no longer eligible to use the provisions of paragraph (b) of this section, even if in subsequent months the affected source does comply with the criteria of paragraphs (b)(1) or (b)(2) of this section.

*This requirement is ensured by permit condition 6.2.*

#### **§63.829 Recordkeeping Requirements.**

(e) The owner or operator of each facility which meets the limits and criteria of §63.821(b)(1) shall maintain records as required in paragraph (e)(1) of this section. The owner or operator of each facility which meets the limits and criteria of §63.821(b)(2) shall maintain records as required in paragraph (e)(2) of this section. Owners or operators shall maintain these records for five years, and upon request, submit them to the Administrator.

(1) For each facility which meets the criteria of §63.821(b)(1), the owner or operator shall maintain records of the total mass of each material applied on product and packaging rotogravure or wide-web flexographic printing presses during each month.

(2) For each facility which meets the criteria of §63.821(b)(2), the owner or operator shall maintain records of the total mass and organic HAP content of each material applied on product and packaging rotogravure or wide-web flexographic printing presses during each month.

*These recordkeeping requirements are ensured by permit condition 6.3.*

#### **§63.830 Reporting Requirements.**

(b) Each owner or operator of an affected source subject to this subpart shall submit the reports specified in paragraphs (b)(1) through (b)(6) of this section to the Administrator:

(1) An initial notification required in §63.9(b).

(i) Initial notifications for existing sources shall be submitted no later than one year before the compliance date specified in §63.826(a), or no later than 120 days after the source becomes subject to this subpart, whichever is later.

(ii) Initial notifications for new and reconstructed sources shall be submitted as required by §63.9(b).

(iii) For the purpose of this subpart, a Title V or part 70 permit application may be used in lieu of the initial notification required under §63.9(b), provided the same information is contained in the permit application as required by §63.9(b), and the State to which the permit application has been submitted has an approved operating permit program under part 70 of this chapter and has received delegation of authority from the EPA.

(iv) Permit applications shall be submitted by the same due dates as those specified for the initial notifications.

*These reporting requirements are ensured by permit condition 6.4.*

**40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

**§63.6580 What is the purpose of subpart ZZZZ?**

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

**§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) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

(f) The emergency stationary RICE listed in paragraphs (f)(1) through (3) of this section are not subject to this subpart. The stationary RICE must meet the definition of an emergency stationary RICE in §63.6675, which includes operating according to the provisions specified in §63.6640(f).

(1) Existing residential emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in §63.6640(f)(4)(ii).

(2) Existing commercial emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in §63.6640(f)(4)(ii).

(3) Existing institutional emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in §63.6640(f)(4)(ii).

## §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) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

### (2) New stationary RICE.

(i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

### (3) Reconstructed stationary RICE.

(i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

### (b) Stationary RICE subject to limited requirements.

(1) An affected source which meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).

(i) The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii).

(ii) The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(2) A new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis must meet the initial notification requirements of §63.6645(f) and the requirements of §§63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.

(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) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(ii) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(iii) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii).

(iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(v) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;

(c) *Stationary RICE subject to Regulations under 40 CFR Part 60.* An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

(1) A new or reconstructed stationary RICE located at an area source;

(2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;

(3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions;

(4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;

(5) 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 which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;

(6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;

(7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

**§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.

*The compliance date for the CI RICE is May 3, 2013. The compliance date for the SI RICE is October 19, 2013. This requirement is ensured by permit condition 8.2.*

(2) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart no later than August 16, 2004.

(3) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions after August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(4) If you start up your 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 before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

(5) If you start up your 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 after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(6) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

(7) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

*(b) Area sources that become major sources.* If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in paragraphs (b)(1) and (2) of this section apply to you.



(1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with this subpart upon startup of your affected source.

(2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of this subpart that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of 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.

**§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?**

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.

(a) If you own or operate an existing, new, or reconstructed spark ignition 4SRB 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 emission limitations in Table 1a to this subpart and the operating limitations in Table 1b to this subpart which apply to you.

(b) If you own or operate a new or reconstructed 2SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, a new or reconstructed 4SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, or a new or reconstructed 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 emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

(c) If you own or operate any of the following stationary 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 emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b to this subpart: an existing 2SLB stationary RICE; an existing 4SLB stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE; or a limited use stationary RICE.

(d) If you own or operate an existing non-emergency stationary CI RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

**§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?**

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. If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at major source of HAP emissions manufactured on or after January 1, 2008, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

**§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.

*The permittee shall comply with each applicable limitations in Table 2c to this subpart and will demonstrate compliance using the procedures in §63.662 and Table 4 of this subpart. These requirements are ensured by permit condition 8.3.*

**§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?**

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.

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart that apply to you.

(b) If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP that meets either paragraph (b)(1) or (2) of this section, you do not have to meet the numerical CO emission limitations specified in Table 2d of this subpart. Existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP that meet either paragraph (b)(1) or (2) of this section must meet the management practices that are shown for stationary non-emergency CI RICE with a site rating of less than or equal to 300 HP in Table 2d of this subpart.

(1) The area source is located in an area of Alaska that is not accessible by the Federal Aid Highway System (FAHS).

(2) The stationary RICE is located at an area source that meets paragraphs (b)(2)(i), (ii), and (iii) of this section.

(i) The only connection to the FAHS is through the Alaska Marine Highway System (AMHS), or the stationary RICE operation is within an isolated grid in Alaska that is not connected to the statewide electrical grid referred to as the Alaska Railbelt Grid.

(ii) At least 10 percent of the power generated by the stationary RICE on an annual basis is used for residential purposes.

(iii) The generating capacity of the area source is less than 12 megawatts, or the stationary RICE is used exclusively for backup power for renewable energy.

(c) If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located on an offshore vessel that is an area source of HAP and is a nonroad vehicle that is an Outer Continental Shelf (OCS) source as defined in 40 CFR 55.2, you do not have to meet the numerical CO emission limitations specified in Table 2d of this subpart. You must meet all of the following management practices:

(1) Change oil every 1,000 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement.

(2) Inspect and clean air filters every 750 hours of operation or annually, whichever comes first, and replace as necessary.

(3) Inspect fuel filters and belts, if installed, every 750 hours of operation or annually, whichever comes first, and replace as necessary.

(4) Inspect all flexible hoses every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.

(d) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 1 or Tier 2 emission standards in Table 1 of 40 CFR 89.112 and that is subject to an enforceable state or local standard that requires the engine to be replaced no later than June 1, 2018, you may until January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018, choose to comply with the management practices that are shown for stationary non-emergency CI RICE with a site rating of less than or equal to 300 HP in Table 2d of this subpart instead of the applicable emission limitations in Table 2d, operating limitations in Table 2b, and crankcase ventilation system requirements in §63.6625(g). You must comply with the emission limitations in Table 2d and operating limitations in Table 2b that apply for non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions by January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018. You must also comply with the crankcase ventilation system requirements in §63.6625(g) by January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018.

(e) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 3 (Tier 2 for engines above 560 kilowatt (kW)) emission standards in Table 1 of 40 CFR 89.112, you may comply with the requirements under this part by meeting the requirements for Tier 3 engines (Tier 2 for engines above 560 kW) in 40 CFR part 60 subpart IIII instead of the emission limitations and other requirements that would otherwise apply under this part for existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions.

(f) An existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP must meet the definition of remote stationary RICE in §63.6675 on the initial compliance date for the engine, October 19, 2013, in order to be considered a remote stationary RICE under this subpart. Owners and operators of existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that meet the definition of remote stationary RICE in §63.6675 of this subpart as of October 19, 2013 must evaluate the status of their stationary RICE every 12 months. Owners and operators must keep records of the initial and annual evaluation of the status of the engine. If the evaluation indicates that the stationary RICE no longer meets the definition of remote stationary RICE in §63.6675 of this subpart, the owner or operator must comply with all of the requirements for existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE within 1 year of the evaluation.

#### **§63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?**

(a) If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel.

(b) Beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates

or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

*The fuel requirements of this paragraph are ensured by permit condition 8.5.*

(c) Beginning January 1, 2015, if you own or operate a new emergency CI stationary RICE with a site rating of more than 500 brake HP and a displacement of less than 30 liters per cylinder located at a major source of HAP that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii), you must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

(d) Existing CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, at area sources in areas of Alaska that meet either §63.6603(b)(1) or §63.6603(b)(2), or are on offshore vessels that meet §63.6603(c) are exempt from the requirements of this section.

### **§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.

*This requirement is ensured by permit condition 8.4.*

### **§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?**

If you own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct the initial performance test or other initial compliance demonstrations in Table 4 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).

(b) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must demonstrate initial compliance with either the proposed emission limitations or the promulgated emission limitations no later than February 10, 2005 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(c) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, and you chose to comply with the proposed emission limitations when demonstrating initial compliance, you must

conduct a second performance test to demonstrate compliance with the promulgated emission limitations by December 13, 2007 or after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) An owner or operator is not required to conduct an initial performance test on units for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (d)(1) through (5) of this section.

- (1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.
- (2) The test must not be older than 2 years.
- (3) The test must be reviewed and accepted by the Administrator.
- (4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.
- (5) The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load.

**§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?**

If you own or operate a new or reconstructed 4SLB 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, you must conduct an initial performance test within 240 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions specified in Table 4 to this subpart, as appropriate.

**§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).

(b) An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (b)(1) through (4) of this section.

- (1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.
- (2) The test must not be older than 2 years.
- (3) The test must be reviewed and accepted by the Administrator.

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

**§63.6615 When must I conduct subsequent performance tests?**

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.

**§63.6620 What performance tests and other procedures must I use?**

(a) You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you.

(b) Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again. The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load for the stationary RICE listed in paragraphs (b)(1) through (4) of this section.

(1) Non-emergency 4SRB stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.

(2) New non-emergency 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP located at a major source of HAP emissions.

(3) New non-emergency 2SLB stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.

(4) New non-emergency CI stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.

(c) [Reserved]

(d) You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in this subpart.

(e)(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 1})$$

Where:

$C_i$  = concentration of carbon monoxide (CO), total hydrocarbons (THC), or formaldehyde at the control device inlet,

$C_o$  = concentration of CO, THC, or formaldehyde at the control device outlet, and

R = percent reduction of CO, THC, or formaldehyde emissions.

(2) You must normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO<sub>2</sub>). If pollutant concentrations are to be corrected to 15 percent oxygen and CO<sub>2</sub> concentration is measured in lieu of oxygen

concentration measurement, a CO<sub>2</sub> correction factor is needed. Calculate the CO<sub>2</sub> correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

- (i) Calculate the fuel-specific F<sub>o</sub> value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209 F_d}{F_c} \quad (\text{Eq. 2})$$

Where:

F<sub>o</sub> = Fuel factor based on the ratio of oxygen volume to the ultimate CO<sub>2</sub> volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

F<sub>d</sub> = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup>/J (dscf/10<sup>6</sup> Btu).

F<sub>c</sub> = Ratio of the volume of CO<sub>2</sub> produced to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup>/J (dscf/10<sup>6</sup> Btu)

- (ii) Calculate the CO<sub>2</sub> correction factor for correcting measurement data to 15 percent O<sub>2</sub>, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 3})$$

Where:

X<sub>CO<sub>2</sub></sub> = CO<sub>2</sub> correction factor, percent.

5.9 = 20.9 percent O<sub>2</sub>—15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.

- (iii) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O<sub>2</sub> using CO<sub>2</sub> as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \quad (\text{Eq. 4})$$

Where:

C<sub>adj</sub> = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O<sub>2</sub>.

C<sub>d</sub> = Measured concentration of CO, THC, or formaldehyde, uncorrected.

X<sub>CO<sub>2</sub></sub> = CO<sub>2</sub> correction factor, percent.

%CO<sub>2</sub> = Measured CO<sub>2</sub> concentration measured, dry basis, percent.

- (f) If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, if you comply with the emission limitation to reduce formaldehyde and you are not using NSCR, or if you comply with the emission limitation to limit the concentration of formaldehyde in the stationary RICE exhaust and you are not using an oxidation catalyst or NSCR, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the petition has been approved by the Administrator.

(g) If you petition the Administrator for approval of operating limitations, your petition must include the information described in paragraphs (g)(1) through (5) of this section.

- (1) Identification of the specific parameters you propose to use as operating limitations;
- (2) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions;
- (3) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;
- (4) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
- (5) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.

(h) If you petition the Administrator for approval of no operating limitations, your petition must include the information described in paragraphs (h)(1) through (7) of this section.

- (1) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (*e.g.*, operator adjustment, automatic controller adjustment, etc.) or unintentionally (*e.g.*, wear and tear, error, etc.) on a routine basis or over time;
- (2) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions;
- (3) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions;
- (4) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations;
- (5) For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments;
- (6) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and
- (7) A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations.

(i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.



**§63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?**

(a) If you elect to install a CEMS as specified in Table 5 of this subpart, you must install, operate, and maintain a CEMS to monitor CO and either O<sub>2</sub> or CO<sub>2</sub> according to the requirements in paragraphs (a)(1) through (4) of this section. If you are meeting a requirement to reduce CO emissions, the CEMS must be installed at both the inlet and outlet of the control device. If you are meeting a requirement to limit the concentration of CO, the CEMS must be installed at the outlet of the control device.

(1) Each CEMS must be installed, operated, and maintained according to the applicable performance specifications of 40 CFR part 60, appendix B.

(2) You must conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in §63.8 and according to the applicable performance specifications of 40 CFR part 60, appendix B as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.

(3) As specified in §63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. You must have at least two data points, with each representing a different 15-minute period, to have a valid hour of data.

(4) The CEMS data must be reduced as specified in §63.8(g)(2) and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO<sub>2</sub> concentration.

(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (6) of this section. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph (b) of this section are applicable September 6, 2011.

(1) You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of this section and in §63.8(d). As specified in §63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (b)(1) through (5) of this section in your site-specific monitoring plan.

(i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(ii) Sampling interface (*e.g.*, thermocouple) location such that the monitoring system will provide representative measurements;

(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(iv) Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1)(ii) and (c)(3); and

(v) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i).

(2) You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes (see also §63.6635).

(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(5) You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

(6) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must monitor and record your fuel usage daily with separate fuel meters to measure the volumetric flow rate of each fuel. In addition, you must operate your stationary RICE in a manner which reasonably minimizes HAP emissions.

(d) If you are operating a new or reconstructed emergency 4SLB 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, you must install a non-resettable hour meter prior to the startup of the engine.

(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;

(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;

*The permittee must comply with the requirements of paragraph (e) above. This requirement is ensured by permit condition 8.6.*

(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;

(4) An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions;

(5) An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions;

(6) An existing non-emergency, non-black start stationary RICE located at an area source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.

(7) An existing non-emergency, non-black start 4SLB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;

(8) An existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;

(9) An existing, non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and

(10) An existing, non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.

(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.

*This requirement is ensured by permit condition 8.6.*

(g) If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska that meet either §63.6603(b)(1) or §63.6603(b)(2) do not have to meet the requirements of this paragraph (g). Existing CI engines located on offshore vessels that meet §63.6603(c) do not have to meet the requirements of this paragraph (g).

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

(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.

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 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 Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the 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 changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(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 changes for the engine. The analysis program must be part of the maintenance plan for the engine.

*The operations established in paragraphs (i) and (j) are provided in permit condition 8.6.*

**§63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?**

- (a) You must demonstrate initial compliance with each emission limitation, operating limitation, and other requirement that applies to you according to Table 5 of this subpart.
- (b) During the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.
- (c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.
- (d) Non-emergency 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more can demonstrate initial compliance with the formaldehyde emission limit by testing for THC instead of formaldehyde. The testing must be conducted according to the requirements in Table 4 of this subpart. The average reduction of emissions of THC determined from the performance test must be equal to or greater than 30 percent.
- (e) The initial compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the following requirements:
  - (1) The compliance demonstration must consist of at least three test runs.
  - (2) Each test run must be of at least 15 minute duration, except that each test conducted using the method in appendix A to this subpart must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.
  - (3) If you are demonstrating compliance with the CO concentration or CO percent reduction requirement, you must measure CO emissions using one of the CO measurement methods specified in Table 4 of this subpart, or using appendix A to this subpart.
  - (4) If you are demonstrating compliance with the THC percent reduction requirement, you must measure THC emissions using Method 25A, reported as propane, of 40 CFR part 60, appendix A.
  - (5) You must measure O<sub>2</sub> using one of the O<sub>2</sub> measurement methods specified in Table 4 of this subpart. Measurements to determine O<sub>2</sub> concentration must be made at the same time as the measurements for CO or THC concentration.
  - (6) If you are demonstrating compliance with the CO or THC percent reduction requirement, you must measure CO or THC emissions and O<sub>2</sub> emissions simultaneously at the inlet and outlet of the control device.

### **§63.6635 How do I monitor and collect data to demonstrate continuous compliance?**

- (a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.
- (b) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

### **§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 according to methods specified in Table 6 to this subpart.
- (b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

*This requirement is ensured by permit condition 8.7.*

- (c) The annual compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the following requirements:
- (1) The compliance demonstration must consist of at least one test run.
  - (2) Each test run must be of at least 15 minute duration, except that each test conducted using the method in appendix A to this subpart must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.
  - (3) If you are demonstrating compliance with the CO concentration or CO percent reduction requirement, you must measure CO emissions using one of the CO measurement methods specified in Table 4 of this subpart, or using appendix A to this subpart.
  - (4) If you are demonstrating compliance with the THC percent reduction requirement, you must measure THC emissions using Method 25A, reported as propane, of 40 CFR part 60, appendix A.
  - (5) You must measure O<sub>2</sub> using one of the O<sub>2</sub> measurement methods specified in Table 4 of this subpart. Measurements to determine O<sub>2</sub> concentration must be made at the same time as the measurements for CO or THC concentration.

(6) If you are demonstrating compliance with the CO or THC percent reduction requirement, you must measure CO or THC emissions and O<sub>2</sub> emissions simultaneously at the inlet and outlet of the control device.

(7) If the results of the annual compliance demonstration show that the emissions exceed the levels specified in Table 6 of this subpart, the stationary RICE must be shut down as soon as safely possible, and appropriate corrective action must be taken (e.g., repairs, catalyst cleaning, catalyst replacement). The stationary RICE must be retested within 7 days of being restarted and the emissions must meet the levels specified in Table 6 of this subpart. If the retest shows that the emissions continue to exceed the specified levels, the stationary RICE must again be shut down as soon as safely possible, and the stationary RICE may not operate, except for purposes of startup and testing, until the owner/operator demonstrates through testing that the emissions do not exceed the levels specified in Table 6 of this subpart.

(d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).

(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, 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.

*The permittee must report each instance in which they did not meet the requirements in Table 8 of this subpart that apply. This requirement is ensured by permit condition 8.7.*

(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) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(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.

*These requirements are ensured by permit condition 8.7.*

(4) Emergency stationary RICE located at area 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. Except as provided in paragraphs (f)(4)(i) and (ii) 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 an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

(ii) 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.

**§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.

*This requirement is ensured by permit condition 8.8.*

(2) An existing stationary RICE located at an area source of HAP emissions.

(3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.

(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) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart, you must submit an Initial Notification not later than December 13, 2004, or no later than 120 days after the source becomes subject to this subpart, whichever is later.

(c) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.

(d) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart and you are required to submit an initial notification, you must submit an Initial Notification not later than July 16, 2008, or no later than 120 days after the source becomes subject to this subpart, whichever is later.

(e) If you start up your new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 and you are required to submit an initial notification, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.

(f) If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with §63.6590(b), your notification should include the information in §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

(g) 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 as required in §63.7(b)(1).



(h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

(i) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 1 or Tier 2 emission standards in Table 1 of 40 CFR 89.112 and subject to an enforceable state or local standard requiring engine replacement and you intend to meet management practices rather than emission limits, as specified in §63.6603(d), you must submit a notification by March 3, 2013, stating that you intend to use the provision in §63.6603(d) and identifying the state or local regulation that the engine is subject to.

### **§63.6650 What reports must I submit and when?**

(a) You must submit each report in Table 7 of this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.

(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.

(6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.

(7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595.

(8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.

(9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31.

(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction 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 §63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

(1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.

(8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.

(9) A brief description of the stationary RICE.

(10) A brief description of the CMS.

(11) The date of the latest CMS certification or audit.

(12) A description of any changes in CMS, processes, or controls since the last reporting period.

**(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6**

**(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A).** If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.

(1) Fuel flow rate of each fuel and the heating values that were used in your calculations. You must also demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis.

(2) The operating limits provided in your federally enforceable permit, and any deviations from these limits.

(3) Any problems or errors suspected with the meters.

(h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section.

(1) The report must contain the following information:

- (i) Company name and address where the engine is located.
- (ii) Date of the report and beginning and ending dates of the reporting period.
- (iii) Engine site rating and model year.
- (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (v) Hours operated for the purposes specified in §63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(2)(ii) and (iii).
- (vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §63.6640(f)(2)(ii) and (iii).
- (vii) Hours spent for operation for the purpose specified in §63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- (viii) If there were no deviations from the fuel requirements in §63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
- (ix) If there were deviations from the fuel requirements in §63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §63.13.

### **§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.

(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) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(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.

*These recordkeeping requirements are ensured by permit condition 8.8.*

(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.

(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must keep the records of your daily fuel usage monitors.

(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.

*This recordkeeping requirement is ensured by permit condition 8.8.*

(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.

(2) An existing stationary emergency RICE.

*This recordkeeping requirement is ensured by permit condition 8.8.*

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

(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.

(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.

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

### **§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).

*These recordkeeping requirements are ensured by permit condition 8.9.*

### **§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.

*The permittee shall comply with all applicable parts of the General Provisions in §63.1 through 63.15. This requirement is ensured by permit condition 8.9.*

### **§63.6670 Who implements and enforces this subpart?**

(a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are:

- (1) Approval of alternatives to the non-opacity emission limitations and operating limitations in §63.6600 under §63.6(g).
- (2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.
- (3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.
- (4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.
- (5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in §63.6610(b).

## **7.7 CAM Applicability (40 CFR 64)**

CAM is applicable to emissions units which have potential pre-control device emissions of a CAM applicable air pollutant that are greater than or equal to 100 tons per year. CAM is not applicable to Clearwater's Consumer Products Division since no emissions source has such pre-control potential to emit. See the CAM applicability section of the SOB associated with T1-2014.0022, issued February 19, 2016, to understand the applicability calculations (except note that the maximum capacity presented in Table 7.1 of the 2016 SOB should have units of ton/hr).

## **7.8 Acid Rain Permit (40 CFR 72-75)**

Clearwater's Consumer Products Division does not have an affected unit as defined by 40 CFR 72.6(a) subject to the Acid Rain permit requirements.

## **8. PUBLIC COMMENT**

As required by IDAPA 58.01.01.364, a public comment period was made available to the public from September 28 to October 28, 2021. During this time, comments were not submitted in response to DEQ's proposed action, except for comments submitted by the facility itself.

## **9. EPA REVIEW OF PROPOSED PERMIT**

As required by IDAPA 58.01.01.366, DEQ provided the proposed permit to EPA Region 10 for its review and comment on November 4, 2021, via the online the Electronic Permit System (EPS). On November 11, 2021, EPA Region 10 responded to DEQ via e-mail indicating no objection to issuance.

## **Appendix A - Emissions Inventory**



Summary

Clearwater Paper Corporation - Consumer Products Division Emissions Inventory Summary Table (PTE, tons/year)															
	1L-A	1L-B	1L-C	2L-A	2L-B	2L-C	3L-A	3L-B	3L-C	Valmet	P_C	FW-1	IC-Grp 1	IC-24	Total
PM	7.46	0.16	0.90	13.56	0.35	8.03		6.10	7.10	3.60		42.6	0.30	0.00	90.2
PM10	4.40	0.65	0.90	8.01	1.40	8.03		6.10	6.40	3.20		9.37	0.30	0.01	48.8
PM2.5	3.20	0.65	0.90	5.81	1.40	8.03		6.10	6.40	3.20		1.89	0.30	0.01	37.9
SO2		0.05			0.11			0.12					0.28	0.00	0.56
CO		7.21			15.5			17.0					0.82	1.86	42.3
NOx		8.59			18.4			28.0					4.24	1.14	60.4
VOC	1.66	0.47		3.02	1.01		3.02	1.11			39.00		0.35	0.01	49.7
GHGs (CO2e)		10,249			21,954			24,086					157	70	56,516
1,2,4-Trichlorobenzene	4.3E-02			7.8E-02			7.8E-02								2.0E-01
2-Methylnaphthalene		2.1E-06			4.4E-06			4.8E-06							1.1E-05
Acetaldehyde	9.8E-02			1.8E-01			1.8E-01						7.4E-04	1.4E-03	4.5E-01
Acrolein	4.3E-02			7.9E-02			7.9E-02								2.0E-01
Arsenic		1.9E-05			4.0E-05			4.4E-05							1.0E-04
Barium		3.8E-04			8.1E-04			8.9E-04							2.1E-03
Benzene	5.4E-03	1.8E-04		9.9E-03	3.9E-04		9.9E-03	4.2E-04					9.0E-04	7.9E-04	2.8E-02
Cadmium		9.4E-05			2.0E-04			2.2E-04							5.2E-04
Carbon Disulfide	1.8E-02			3.2E-02			3.2E-02								8.2E-02
Chlorobenzene	2.8E-03			5.1E-03			5.1E-03								1.3E-02
Chloroform	3.8E-03			7.0E-03			7.0E-03								1.8E-02
Chromium		1.2E-04			2.6E-04			2.8E-04							6.6E-04
Cobalt		7.2E-06			1.5E-05			1.7E-05							4.0E-05
Copper		7.3E-05			1.6E-04			1.7E-04							4.0E-04
Ethyl Benzene	1.2E-04			2.1E-04			2.1E-04								5.4E-04
Fluoranthene		2.6E-07			5.5E-07			6.1E-07							1.4E-06
Fluorene		2.4E-07			5.2E-07			5.7E-07							1.3E-06
Formaldehyde	5.5E-02	6.4E-03		1.0E-01	1.4E-02		1.0E-01	1.5E-02					1.1E-03	1.0E-02	3.0E-01
Lead		4.3E-05			9.2E-05			1.0E-04							2.4E-04
m,p-Xylene	2.2E-02			3.9E-02			3.9E-02								1.0E-01
Manganese		3.3E-05			7.0E-05			7.7E-05							1.8E-04
Mercury		2.2E-05			4.8E-05			5.2E-05							1.2E-04
Methanol	9.4E-01			1.7E+00			1.7E+00						1.5E-03		4.4E+00
Methyl Isobutyl Ketone	8.7E-03			1.6E-02			1.6E-02								4.0E-02
Methylene Chloride	4.4E-02			7.9E-02			7.9E-02							2.1E-05	2.0E-01
Naphthalene	1.0E-02	5.2E-05		1.8E-02	1.1E-04		1.8E-02	1.2E-04					8.2E-05		4.7E-02
n-Hexane	5.4E-03	1.5E-01		9.8E-03	3.3E-01		9.8E-03	3.6E-01							8.7E-01
Nickel		1.8E-04			3.9E-04			4.2E-04							9.9E-04
o-Xylene	3.3E-02			6.1E-02			6.1E-02								1.6E-01
Phenanthrene		1.5E-06			3.1E-06			3.4E-06							8.0E-06
Phenol	1.8E-01			3.2E-01			3.2E-01								8.2E-01
Propionaldehyde	1.8E-01			3.3E-01			3.3E-01								8.3E-01
Pyrene		4.3E-07			9.2E-07			1.0E-06							2.4E-06
Styrene	7.9E-03			1.4E-02			1.4E-02								3.7E-02
Tetrachloroethylene	1.2E-02			2.2E-02			2.2E-02								5.7E-02
Toluene	3.8E-03	2.9E-04		7.0E-03	6.3E-04		7.0E-03	6.9E-04					3.9E-04	2.8E-04	2.0E-02
Trichloroethylene	7.2E-06			1.3E-05			1.3E-05								3.3E-05
Xylenes (mixed isomers)	3.7E-03			6.8E-03			6.8E-03						2.7E-04	9.8E-05	1.8E-02
TOTAL HAP	1.7E+00	1.6E-01		3.1E+00	3.5E-01		3.1E+00	3.8E-01			5.3E+00		3.6E-03		1.4E+01

**Calculation 1-A**

1L Tissue Machine: Process

(Combustion emissions calculated separately in Calculation 1-B)

Emission Points: 23, 24, 25, 26, 29, 32

Input Parameters:		
Maximum production	7.0	ADTFP/hr
Maximum production	48,180	ADTFP/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM	0.31	lb/ADTFP	1	2.17	7.46	3	N/A	N/A	
PM10	0.18	lb/ADTFP	1	1.28	4.40	3	N/A	N/A	
PM2.5	0.13	lb/ADTFP	1	0.93	3.20	3	N/A	N/A	
SO2									
CO									
NOx									
VOC	0.07	lb/ADTFP	1	0.48	1.66	3	N/A	N/A	
GHGs (CO2e)									
1,2,4-Trichlorobenzene	1.8E-03	lb/ADTFP	2	1.2E-02	4.3E-02	3	N/A	N/A	
Acetaldehyde	4.1E-03	lb/ADTFP	2	2.8E-02	9.8E-02	3	N/A	N/A	
Acrolein	1.8E-03	lb/ADTFP	2	1.3E-02	4.3E-02	3	N/A	N/A	
Benzene	2.3E-04	lb/ADTFP	2	1.6E-03	5.4E-03	3	N/A	N/A	
Carbon Disulfide	7.4E-04	lb/ADTFP	2	5.2E-03	1.8E-02	3	N/A	N/A	
Chlorobenzene	1.2E-04	lb/ADTFP	2	8.1E-04	2.8E-03	3	N/A	N/A	
Chloroform	1.6E-04	lb/ADTFP	2	1.1E-03	3.8E-03	3	N/A	N/A	
Ethyl Benzene	4.8E-06	lb/ADTFP	2	3.4E-05	1.2E-04	3	N/A	N/A	
Formaldehyde	2.3E-03	lb/ADTFP	2	1.6E-02	5.5E-02	3	N/A	N/A	
m,p-Xylene	9.0E-04	lb/ADTFP	2	6.3E-03	2.2E-02	3	N/A	N/A	
Methanol	3.9E-02	lb/ADTFP	2	2.7E-01	9.4E-01	3	N/A	N/A	
Methyl Isobutyl Ketone	3.6E-04	lb/ADTFP	2	2.5E-03	8.7E-03	3	N/A	N/A	
Methylene Chloride	1.8E-03	lb/ADTFP	2	1.3E-02	4.4E-02	3	N/A	N/A	
Naphthalene	4.2E-04	lb/ADTFP	2	2.9E-03	1.0E-02	3	N/A	N/A	
n-Hexane	2.2E-04	lb/ADTFP	2	1.6E-03	5.4E-03	3	N/A	N/A	
o-Xylene	1.4E-03	lb/ADTFP	2	9.7E-03	3.3E-02	3	N/A	N/A	
Phenol	7.4E-03	lb/ADTFP	2	5.1E-02	1.8E-01	3	N/A	N/A	
Propionaldehyde	7.4E-03	lb/ADTFP	2	5.2E-02	1.8E-01	3	N/A	N/A	
Styrene	3.3E-04	lb/ADTFP	2	2.3E-03	7.9E-03	3	N/A	N/A	
Tetrachloroethylene	5.1E-04	lb/ADTFP	2	3.6E-03	1.2E-02	3	N/A	N/A	
Toluene	1.6E-04	lb/ADTFP	2	1.1E-03	3.8E-03	3	N/A	N/A	
Trichloroethylene	3.0E-07	lb/ADTFP	2	2.1E-06	7.2E-06	3	N/A	N/A	
Xylenes (mixed isomers)	1.6E-04	lb/ADTFP	2	1.1E-03	3.7E-03	3	N/A	N/A	

**Notes:**

1. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Criteria Pollutants; data for PM\_Tissue.
  2. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Air Toxics.
  3. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 1-B**

1L Tissue Machine: Hood Burner (combustion emissions)  
 (Process emissions calculated separately in Calculation 1-A)  
 Emission Point: 29

Input Parameters:		
Maximum gas input	20	mmBtu/hr
Maximum gas input	175,200	mmBtu/yr
Maximum gas input	0.02	mmscf/hr
Maximum gas input	171.8	mmscf/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM	1.9	lb/mmscf	1	0.04	0.16	4	N/A	N/A	
PM10	7.6	lb/mmscf	1	0.15	0.65	4	N/A	N/A	
PM2.5	7.6	lb/mmscf	1	0.15	0.65	4	N/A	N/A	
SO2	0.6	lb/mmscf	1	0.01	0.05	4	N/A	N/A	
CO	84	lb/mmscf	1	1.65	7.21	4	N/A	N/A	
NOx	100	lb/mmscf	1	1.96	8.59	4	N/A	N/A	
VOC	5.5	lb/mmscf	1	0.11	0.47	4	N/A	N/A	
GHGs (CO2e)	117	lb/MMBtu	2	2,340	10,249	4	N/A	N/A	
2-Methylnaphthalene	2.4E-05	lb/MMscf	3	4.7E-07	2.1E-06	4	N/A	N/A	
Arsenic	2.2E-04	lb/MMscf	3	4.3E-06	1.9E-05	4	N/A	N/A	
Barium	4.4E-03	lb/MMscf	3	8.6E-05	3.8E-04	4	N/A	N/A	
Benzene	2.1E-03	lb/MMscf	3	4.1E-05	1.8E-04	4	N/A	N/A	
Cadmium	1.1E-03	lb/MMscf	3	2.2E-05	9.4E-05	4	N/A	N/A	
Chromium	1.4E-03	lb/MMscf	3	2.7E-05	1.2E-04	4	N/A	N/A	
Cobalt	8.4E-05	lb/MMscf	3	1.6E-06	7.2E-06	4	N/A	N/A	
Copper	8.5E-04	lb/MMscf	3	1.7E-05	7.3E-05	4	N/A	N/A	
Fluoranthene	3.0E-06	lb/MMscf	3	5.9E-08	2.6E-07	4	N/A	N/A	
Fluorene	2.8E-06	lb/MMscf	3	5.5E-08	2.4E-07	4	N/A	N/A	
Formaldehyde	7.5E-02	lb/MMscf	3	1.5E-03	6.4E-03	4	N/A	N/A	
Lead	5.0E-04	lb/MMscf	3	9.8E-06	4.3E-05	4	N/A	N/A	
Manganese	3.8E-04	lb/MMscf	3	7.5E-06	3.3E-05	4	N/A	N/A	
Mercury	2.6E-04	lb/MMscf	3	5.1E-06	2.2E-05	4	N/A	N/A	
Naphthalene	6.1E-04	lb/MMscf	3	1.2E-05	5.2E-05	4	N/A	N/A	
n-Hexane	1.8E+00	lb/MMscf	3	3.5E-02	1.5E-01	4	N/A	N/A	
Nickel	2.1E-03	lb/MMscf	3	4.1E-05	1.8E-04	4	N/A	N/A	
Phenanthrene	1.7E-05	lb/MMscf	3	3.3E-07	1.5E-06	4	N/A	N/A	
Pyrene	5.0E-06	lb/MMscf	3	9.8E-08	4.3E-07	4	N/A	N/A	
Toluene	3.4E-03	lb/MMscf	3	6.7E-05	2.9E-04	4	N/A	N/A	

**Notes:**

1. EPA AP-42, Chapter 1.4; 7/98.
  3. Default emission factors from 40 CFR 98 Tables C-1 & C-2 converted to CO2e basis using GWPs from 40 CFR 98 Subpart A Table A-1.
  3. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Air Toxics.
  4. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 1-C**

1L Tissue Machine: Wet Scrubber

Emission Point: 28a

Input Parameters:		
Maximum production	7.0	ADTFP/hr
Maximum production	48,180	ADTFP/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM	0.04	lb/ADTFP	1	0.26	0.90	3	PW Eq.	N/A	4
PM10	0.04	lb/ADTFP	2	0.26	0.90	3	N/A	N/A	
PM2.5	0.04	lb/ADTFP	2	0.26	0.90	3	N/A	N/A	
SO2									
CO									
NOx									
VOC									
GHGs (CO2e)									

**Notes:**

1. Stack test, 11/3/1997 - dust scrubber.
  2. Assumed equal to PM.
  3. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
  4. Unit subject to PM limit in IDAPA 58.01.01.702 (process weight equation).
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 2-A**

2L Tissue Machine: Process

(Combustion emissions calculated separately in Calculation 2-B)

Emission Points: 34, 35, 36, 37, 45, 39

Input Parameters:		
Maximum production	10.0	ADTFP/hr
Maximum production	87,600	ADTFP/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM	0.31	lb/ADTFP	1	3.10	13.56	3	N/A	N/A	
PM10	0.18	lb/ADTFP	1	1.83	8.01	3	N/A	N/A	
PM2.5	0.13	lb/ADTFP	1	1.33	5.81	3	N/A	N/A	
SO2									
CO									
NOx									
VOC	0.07	lb/ADTFP	1	0.69	3.02	3	N/A	N/A	
GHGs (CO2e)									
1,2,4-Trichlorobenzene	1.8E-03	lb/ADTFP	2	1.8E-02	7.8E-02	3	N/A	N/A	
Acetaldehyde	4.1E-03	lb/ADTFP	2	4.1E-02	1.8E-01	3	N/A	N/A	
Acrolein	1.8E-03	lb/ADTFP	2	1.8E-02	7.9E-02	3	N/A	N/A	
Benzene	2.3E-04	lb/ADTFP	2	2.3E-03	9.9E-03	3	N/A	N/A	
Carbon Disulfide	7.4E-04	lb/ADTFP	2	7.4E-03	3.2E-02	3	N/A	N/A	
Chlorobenzene	1.2E-04	lb/ADTFP	2	1.2E-03	5.1E-03	3	N/A	N/A	
Chloroform	1.6E-04	lb/ADTFP	2	1.6E-03	7.0E-03	3	N/A	N/A	
Ethyl Benzene	4.8E-06	lb/ADTFP	2	4.8E-05	2.1E-04	3	N/A	N/A	
Formaldehyde	2.3E-03	lb/ADTFP	2	2.3E-02	1.0E-01	3	N/A	N/A	
m,p-Xylene	9.0E-04	lb/ADTFP	2	9.0E-03	3.9E-02	3	N/A	N/A	
Methanol	3.9E-02	lb/ADTFP	2	3.9E-01	1.7E+00	3	N/A	N/A	
Methyl Isobutyl Ketone	3.6E-04	lb/ADTFP	2	3.6E-03	1.6E-02	3	N/A	N/A	
Methylene Chloride	1.8E-03	lb/ADTFP	2	1.8E-02	7.9E-02	3	N/A	N/A	
Naphthalene	4.2E-04	lb/ADTFP	2	4.2E-03	1.8E-02	3	N/A	N/A	
n-Hexane	2.2E-04	lb/ADTFP	2	2.2E-03	9.8E-03	3	N/A	N/A	
o-Xylene	1.4E-03	lb/ADTFP	2	1.4E-02	6.1E-02	3	N/A	N/A	
Phenol	7.4E-03	lb/ADTFP	2	7.4E-02	3.2E-01	3	N/A	N/A	
Propionaldehyde	7.4E-03	lb/ADTFP	2	7.4E-02	3.3E-01	3	N/A	N/A	
Styrene	3.3E-04	lb/ADTFP	2	3.3E-03	1.4E-02	3	N/A	N/A	
Tetrachloroethylene	5.1E-04	lb/ADTFP	2	5.1E-03	2.2E-02	3	N/A	N/A	
Toluene	1.6E-04	lb/ADTFP	2	1.6E-03	7.0E-03	3	N/A	N/A	
Trichloroethylene	3.0E-07	lb/ADTFP	2	3.0E-06	1.3E-05	3	N/A	N/A	
Xylenes (mixed isomers)	1.6E-04	lb/ADTFP	2	1.6E-03	6.8E-03	3	N/A	N/A	

**Notes:**

1. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Criteria Pollutants; data for PM\_Tissue.
  2. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Air Toxics.
  3. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 2-B**

2L Tissue Machine: Hood Burner (combustion emissions)

(Process emissions calculated separately in Calculation 2-A)

Emission Point: 39

Input Parameters:		
Maximum gas input	43	mmBtu/hr
Maximum gas input	375,278	mmBtu/yr
Maximum gas input	0.042	mmscf/hr
Maximum gas input	367.9	mmscf/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM	1.9	lb/mmscf	1	0.08	0.35	4	N/A	N/A	
PM10	7.6	lb/mmscf	1	0.32	1.40	4	N/A	N/A	
PM2.5	7.6	lb/mmscf	1	0.32	1.40	4	N/A	N/A	
SO2	0.6	lb/mmscf	1	0.03	0.11	4	N/A	N/A	
CO	84	lb/mmscf	1	3.53	15.5	4	N/A	N/A	
NOx	100	lb/mmscf	1	4.20	18.4	4	N/A	N/A	
VOC	5.5	lb/mmscf	1	0.23	1.01	4	N/A	N/A	
GHGs (CO2e)	117	lb/MMBtu	2	5,012	21,954	4	N/A	N/A	
2-Methylnaphthalene	2.4E-05	lb/MMscf	3	1.0E-06	4.4E-06	4	N/A	N/A	
Arsenic	2.2E-04	lb/MMscf	3	9.2E-06	4.0E-05	4	N/A	N/A	
Barium	4.4E-03	lb/MMscf	3	1.8E-04	8.1E-04	4	N/A	N/A	
Benzene	2.1E-03	lb/MMscf	3	8.8E-05	3.9E-04	4	N/A	N/A	
Cadmium	1.1E-03	lb/MMscf	3	4.6E-05	2.0E-04	4	N/A	N/A	
Chromium	1.4E-03	lb/MMscf	3	5.9E-05	2.6E-04	4	N/A	N/A	
Cobalt	8.4E-05	lb/MMscf	3	3.5E-06	1.5E-05	4	N/A	N/A	
Copper	8.5E-04	lb/MMscf	3	3.6E-05	1.6E-04	4	N/A	N/A	
Fluoranthene	3.0E-06	lb/MMscf	3	1.3E-07	5.5E-07	4	N/A	N/A	
Fluorene	2.8E-06	lb/MMscf	3	1.2E-07	5.2E-07	4	N/A	N/A	
Formaldehyde	7.5E-02	lb/MMscf	3	3.2E-03	1.4E-02	4	N/A	N/A	
Lead	5.0E-04	lb/MMscf	3	2.1E-05	9.2E-05	4	N/A	N/A	
Manganese	3.8E-04	lb/MMscf	3	1.6E-05	7.0E-05	4	N/A	N/A	
Mercury	2.6E-04	lb/MMscf	3	1.1E-05	4.8E-05	4	N/A	N/A	
Naphthalene	6.1E-04	lb/MMscf	3	2.6E-05	1.1E-04	4	N/A	N/A	
n-Hexane	1.8E+00	lb/MMscf	3	7.6E-02	3.3E-01	4	N/A	N/A	
Nickel	2.1E-03	lb/MMscf	3	8.8E-05	3.9E-04	4	N/A	N/A	
Phenanthrene	1.7E-05	lb/MMscf	3	7.1E-07	3.1E-06	4	N/A	N/A	
Pyrene	5.0E-06	lb/MMscf	3	2.1E-07	9.2E-07	4	N/A	N/A	
Toluene	3.4E-03	lb/MMscf	3	1.4E-04	6.3E-04	4	N/A	N/A	

**Notes:**

1. EPA AP-42, Chapter 1.4; 7/98.

3. Default emission factors from 40 CFR 98 Tables C-1 &amp; C-2 converted to CO2e basis using GWPs from 40 CFR 98 Subpart A Table A-1.

3. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Air Toxics.

4. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)

N/A - no lb/hr or tpy emission limits applicable.

**Calculation 2-C**

2L Tissue Machine: Wet Scrubber

Emission Point: 52

Input Parameters:		
Maximum production	10.0	ADTFP/hr
Maximum production	87,600	ADTFP/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM	0.18	lb/ADTFP	1	1.83	8.03	3	PW Eq.	N/A	4
PM10	0.18	lb/ADTFP	2	1.83	8.03	3	N/A	N/A	
PM2.5	0.18	lb/ADTFP	2	1.83	8.03	3	N/A	N/A	
SO2									
CO									
NOx									
VOC									
GHGs (CO2e)									

**Notes:**

1. Stack test, 4/11/1990 - dust scrubber.
  2. Assumed equal to PM.
  3. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
  4. Unit subject to PM limit in IDAPA 58.01.01.702 (process weight equation).
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 3-A**

3L Tissue Machine: Process

(Combustion emissions calculated separately in Calculation 3-B)

Emission Points: 3, 4, 5, 6, 7, 12, 14, 15

Input Parameters:		
Maximum production	10.0	ADTFP/hr
Maximum production	87,600	ADTFP/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM				See Calculation 3-B					
PM10				See Calculation 3-B					
PM2.5				See Calculation 3-B					
SO2									
CO									
NOx									
VOC	0.07	lb/ADTFP	1	0.69	3.02	3	N/A	N/A	
GHGs (CO2e)									
1,2,4-Trichlorobenzene	1.8E-03	lb/ADTFP	2	1.8E-02	7.8E-02	3	N/A	N/A	
Acetaldehyde	4.1E-03	lb/ADTFP	2	4.1E-02	1.8E-01	3	N/A	N/A	
Acrolein	1.8E-03	lb/ADTFP	2	1.8E-02	7.9E-02	3	N/A	N/A	
Benzene	2.3E-04	lb/ADTFP	2	2.3E-03	9.9E-03	3	N/A	N/A	
Carbon Disulfide	7.4E-04	lb/ADTFP	2	7.4E-03	3.2E-02	3	N/A	N/A	
Chlorobenzene	1.2E-04	lb/ADTFP	2	1.2E-03	5.1E-03	3	N/A	N/A	
Chloroform	1.6E-04	lb/ADTFP	2	1.6E-03	7.0E-03	3	N/A	N/A	
Ethyl Benzene	4.8E-06	lb/ADTFP	2	4.8E-05	2.1E-04	3	N/A	N/A	
Formaldehyde	2.3E-03	lb/ADTFP	2	2.3E-02	1.0E-01	3	N/A	N/A	
m,p-Xylene	9.0E-04	lb/ADTFP	2	9.0E-03	3.9E-02	3	N/A	N/A	
Methanol	3.9E-02	lb/ADTFP	2	3.9E-01	1.7E+00	3	N/A	N/A	
Methyl Isobutyl Ketone	3.6E-04	lb/ADTFP	2	3.6E-03	1.6E-02	3	N/A	N/A	
Methylene Chloride	1.8E-03	lb/ADTFP	2	1.8E-02	7.9E-02	3	N/A	N/A	
Naphthalene	4.2E-04	lb/ADTFP	2	4.2E-03	1.8E-02	3	N/A	N/A	
n-Hexane	2.2E-04	lb/ADTFP	2	2.2E-03	9.8E-03	3	N/A	N/A	
o-Xylene	1.4E-03	lb/ADTFP	2	1.4E-02	6.1E-02	3	N/A	N/A	
Phenol	7.4E-03	lb/ADTFP	2	7.4E-02	3.2E-01	3	N/A	N/A	
Propionaldehyde	7.4E-03	lb/ADTFP	2	7.4E-02	3.3E-01	3	N/A	N/A	
Styrene	3.3E-04	lb/ADTFP	2	3.3E-03	1.4E-02	3	N/A	N/A	
Tetrachloroethylene	5.1E-04	lb/ADTFP	2	5.1E-03	2.2E-02	3	N/A	N/A	
Toluene	1.6E-04	lb/ADTFP	2	1.6E-03	7.0E-03	3	N/A	N/A	
Trichloroethylene	3.0E-07	lb/ADTFP	2	3.0E-06	1.3E-05	3	N/A	N/A	
Xylenes (mixed isomers)	1.6E-04	lb/ADTFP	2	1.6E-03	6.8E-03	3	N/A	N/A	

**Notes:**

1. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Criteria Pollutants.
  2. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Air Toxics.
  3. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
- N/A - no lb/hr or tpy emission limits applicable.



**Calculation 3-B**

3L Tissue Machine: Hood Burner (combustion/permit allowable emissions)

(Process emissions calculated separately in Calculation 3-A)

Emission Point: 12

Input Parameters:		
Maximum gas input	47	mmBtu/hr
Maximum gas input	411,720	mmBtu/yr
Maximum gas input	0.046	mmscf/hr
Maximum gas input	404	mmscf/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM				1.40	6.10	1	1.4	6.1	
PM10				1.40	6.10	1	N/A	N/A	
PM2.5				1.40	6.10	1	N/A	N/A	
SO2	0.6	lb/mmscf	2	0.03	0.12	5	N/A	N/A	
CO	84	lb/mmscf	2	3.87	17.0	5	N/A	N/A	
NOx				6.30	28.0	1	6.3	28	
VOC	5.5	lb/mmscf	2	0.25	1.11	5	N/A	N/A	
GHGs (CO2e)	117	lb/MMBtu	3	5,499	24,086	5	N/A	N/A	
2-Methylnaphthalene	2.4E-05	lb/MMscf	4	1.1E-06	4.8E-06	5	N/A	N/A	
Arsenic	2.2E-04	lb/MMscf	4	1.0E-05	4.4E-05	5	N/A	N/A	
Barium	4.4E-03	lb/MMscf	4	2.0E-04	8.9E-04	5	N/A	N/A	
Benzene	2.1E-03	lb/MMscf	4	9.7E-05	4.2E-04	5	N/A	N/A	
Cadmium	1.1E-03	lb/MMscf	4	5.1E-05	2.2E-04	5	N/A	N/A	
Chromium	1.4E-03	lb/MMscf	4	6.5E-05	2.8E-04	5	N/A	N/A	
Cobalt	8.4E-05	lb/MMscf	4	3.9E-06	1.7E-05	5	N/A	N/A	
Copper	8.5E-04	lb/MMscf	4	3.9E-05	1.7E-04	5	N/A	N/A	
Fluoranthene	3.0E-06	lb/MMscf	4	1.4E-07	6.1E-07	5	N/A	N/A	
Fluorene	2.8E-06	lb/MMscf	4	1.3E-07	5.7E-07	5	N/A	N/A	
Formaldehyde	7.5E-02	lb/MMscf	4	3.5E-03	1.5E-02	5	N/A	N/A	
Lead	5.0E-04	lb/MMscf	4	2.3E-05	1.0E-04	5	N/A	N/A	
Manganese	3.8E-04	lb/MMscf	4	1.8E-05	7.7E-05	5	N/A	N/A	
Mercury	2.6E-04	lb/MMscf	4	1.2E-05	5.2E-05	5	N/A	N/A	
Naphthalene	6.1E-04	lb/MMscf	4	2.8E-05	1.2E-04	5	N/A	N/A	
n-Hexane	1.8E+00	lb/MMscf	4	8.3E-02	3.6E-01	5	N/A	N/A	
Nickel	2.1E-03	lb/MMscf	4	9.7E-05	4.2E-04	5	N/A	N/A	
Phenanthrene	1.7E-05	lb/MMscf	4	7.8E-07	3.4E-06	5	N/A	N/A	
Pyrene	5.0E-06	lb/MMscf	4	2.3E-07	1.0E-06	5	N/A	N/A	
Toluene	3.4E-03	lb/MMscf	4	1.6E-04	6.9E-04	5	N/A	N/A	

**Notes:**

1. Permit limit (PM and NOx); PM10 and PM2.5 assumed equal to PM.
  2. EPA AP-42, Chapter 1.4; 7/98.
  3. Default emission factors from 40 CFR 98 Tables C-1 & C-2 converted to CO2e basis using GWPs from 40 CFR 98 Subpart A Table A-1.
  4. Master Summary Table of NCASI Emission Factors for Pulp and Paper Mills - Air Toxics.
  5. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 3-C**

3L Tissue Machine: Wet Scrubber

Emission Point: 2

Input Parameters:		
Maximum production	10.0	ADTFP/hr
Maximum production	87,600	ADTFP/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM				1.60	7.10	1	1.6	7.1	1
PM10				1.50	6.40	1	1.5	6.4	1
PM2.5				1.50	6.40	2	N/A	N/A	
SO2									
CO									
NOx									
VOC									
GHGs (CO2e)									

**Notes:**

- 1. Permit limit.
- 2. Assumed equal to PM10.
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 4**

Valmet Rewinder

Emission Point: 56

Input Parameters:	None, PTE = Allowable	

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM				0.83	3.60	1	0.83	3.6	1
PM10				0.74	3.20	1	0.74	3.2	1
PM2.5				0.74	3.20	2	N/A	N/A	
SO2									
CO									
NOx									
VOC									
GHGs (CO2e)									

**Notes:**

- 1. Permit limit.
  - 2. Assumed equal to PM10.
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 5**

CPD Printing and Converting

Emission Point: 66

Input Parameters:	None, PTE = Allowable	

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM									
PM10									
PM2.5									
SO2									
CO									
NOx									
VOC				35.6	39.0	1	N/A	39	1
GHGs (CO2e)									
Total HAP				4.90	5.29	2	N/A	5.3E+00	2

**Notes:**

1. Permit limit (tpy);  $\text{lb/hr tpy} \times 2,000 \text{ lb/ton} \div 8,760 \text{ hrs/yr} \times 4$  (to account for higher short-term emissions)
2. MACT: To remain qualified for the limited requirements applicable to "incidental printing," organic HAP applied must be no more than 400 kg/month. Potential HAP emissions estimated based on this standard as follows:  
 $\text{lb/hr} = 400 \text{ kg/m} \times 2.2046 \text{ lb/kg} \div 30 \text{ d/m} \div 24 \text{ hr/d} \times 4$  (to account for higher short-term emissions)  
 $\text{tpy} = 400 \text{ kg/m} \times 2.2046 \text{ lb/kg} \times 12 \text{ m/yr} \div 2,000 \text{ lb/ton}$   
 N/A - no lb/hr or tpy emission limits applicable.

**Calculation 6**

Division Roads - Fugitive Emissions

Emission Point: Facility-wide

Input Parameters:		
Potential/Actual ADTFP	1.2	

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				(lbs/hr)	(tons/yr)	Notes	(lbs/hr)	(tons/yr)	Notes
PM				9.73	42.6	1	N/A	N/A	
PM10				2.14	9.37	1	N/A	N/A	
PM2.5				0.43	1.89	1	N/A	N/A	
SO2									
CO									
NOx									
VOC									
GHGs (CO2e)									

**Notes:**

1. AP-42 Chapter 13.2 - Fugitive Dust, 1/2011; actual 2013 results multiplied by ratio of potential over actual total ADTFP/yr (sum of Nos. 1L, 2L & 3L PMs) = 1.2.

N/A - no lb/hr or tpy emission limits applicable.

**Calculation 7**

IC Engine Group 1  
 (Emergency CI RICE)  
 Emission Points: 84, 77, 19

**Units:**

1L Diesel Sump Pump (IC-20, 150 hp)  
 2L Diesel Sump Pump (IC-21, 200 hp)  
 3L Diesel Sump Pump (IC-23, 200 hp)

Input Parameters:		
Rated HP	550	HP
Fuel use	3.85	MMBtu/hr
Hrs/yr	500	hrs/yr
Fuel use	1,925	MMBtu/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions			Allowable Emissions		
				PTE (lb/hr)	PTE (tpy)	Notes	(lb/hr)	(tpy)	Notes
PM	0.31	lb/MMBtu	1	1.19	0.30		N/A	N/A	
PM10	0.31	lb/MMBtu	1	1.19	0.30		N/A	N/A	
PM2.5	0.31	lb/MMBtu	1	1.19	0.30		N/A	N/A	
SO2	0.29	lb/MMBtu	1	1.12	0.28		N/A	N/A	
CO	0.85	lb/MMBtu	1	3.27	0.82		N/A	N/A	
NOx	4.41	lb/MMBtu	1	17.0	4.24		N/A	N/A	
VOC	0.36	lb/MMBtu	1	1.39	0.35		N/A	N/A	
GHGs (CO2e)	164	lb/MMBtu	2	630	157		N/A	N/A	
Acetaldehyde	7.7E-04	lb/MMBtu	1	3.0E-03	7.4E-04	3	N/A	N/A	
Benzene	9.3E-04	lb/MMBtu	1	3.6E-03	9.0E-04	3	N/A	N/A	
Formaldehyde	1.1E-03	lb/MMBtu	1	4.2E-03	1.1E-03	3	N/A	N/A	
Naphthalene	8.5E-05	lb/MMBtu	1	3.3E-04	8.2E-05	3	N/A	N/A	
PAH	1.7E-04	lb/MMBtu	1	6.5E-04	1.6E-04	3	N/A	N/A	
Toluene	4.1E-04	lb/MMBtu	1	1.6E-03	3.9E-04	3	N/A	N/A	
Xylenes (mixed isomers)	2.9E-04	lb/MMBtu	1	1.1E-03	2.7E-04	3	N/A	N/A	

**Notes:**

1. AP-42 Chapter 3.3; 10/96.
  2. Default emission factors from 40 CFR 98 Tables C-1 & C-2 converted to CO2e basis using GWPs from 40 CFR 98 Subpart A Table A-1.
  3. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
- N/A - no lb/hr or tpy emission limits applicable.

**Calculation 8**

Backup Generator for Computer/Phone Systems

(Emergency SI RICE)

Emission Point: IC-24

Input Parameters:		
Rated HP	200	HP
Fuel use	2.00	MMBtu/hr
Hrs/yr	500	hrs/yr
Fuel use	1,000	MMBtu/yr

Pollutants	Emission Factor	E.F. Units	Notes	Estimated or Measured Emissions		Allowable Emissions			
				PTE (lb/hr)	PTE (tpy)	Notes	(lb/hr)	(tpy)	Notes
PM	0.01	lb/MMBtu	1	0.02	0.00		N/A	N/A	
PM10	0.02	lb/MMBtu	1	0.04	0.01		N/A	N/A	
PM2.5	0.02	lb/MMBtu	1	0.04	0.01		N/A	N/A	
SO2	0.001	lb/MMBtu	1	0.00	0.00		N/A	N/A	
CO	3.72	lb/MMBtu	1	7.44	1.86		N/A	N/A	
NOx	2.27	lb/MMBtu	1	4.54	1.14		N/A	N/A	
VOC	0.03	lb/MMBtu	1	0.06	0.01		N/A	N/A	
GHGs (CO2e)	139	lb/MMBtu	2	278.8	69.70		N/A	N/A	
1,1,2,2-Tetrachloroethane	2.5E-05	lb/MMBtu	1	5.1E-05	1.3E-05	3	N/A	N/A	
1,3-Butadiene	6.6E-04	lb/MMBtu	1	1.3E-03	3.3E-04	3	N/A	N/A	
Acetaldehyde	2.8E-03	lb/MMBtu	1	5.6E-03	1.4E-03	3	N/A	N/A	
Benzene	1.6E-03	lb/MMBtu	1	3.2E-03	7.9E-04	3	N/A	N/A	
Formaldehyde	2.1E-02	lb/MMBtu	1	4.1E-02	1.0E-02	3	N/A	N/A	
Methanol	3.1E-03	lb/MMBtu	1	6.1E-03	1.5E-03	3	N/A	N/A	
Methylene Chloride	4.1E-05	lb/MMBtu	1	8.2E-05	2.1E-05	3	N/A	N/A	
PAH	1.4E-04	lb/MMBtu	1	2.8E-04	7.1E-05	3	N/A	N/A	
Toluene	5.6E-04	lb/MMBtu	1	1.1E-03	2.8E-04	3	N/A	N/A	
Xylenes (mixed isomers)	2.0E-04	lb/MMBtu	1	3.9E-04	9.8E-05	3	N/A	N/A	

**Notes:**

1. AP-42 Chapter 3.2; 7/00; Table 3.2-3.
  2. Default emission factors from 40 CFR 98 Tables C-1 & C-2 converted to CO2e basis using GWPs from 40 CFR 98 Subpart A Table A-1.
  3. lbs/hr = EF (lb/unit) \* production rate (units/hr); tons/yr = EF (lb/unit) \* production rate (units/yr) \* (1 ton / 2000 lb)
- N/A - no lb/hr or tpy emission limits applicable.

## **Appendix B - Facility Comments on Draft Permit**

The facility had no substantive comments on the facility draft permit and statement of basis.