

United States Environmental Protection Agency
Region 10, Office of Air, Waste and Toxics
AWT-150
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101-3140

Permit Number: R10NT500502
Issued: February 18, 2016
Replaces: R10NT500501
AFS Plant I.D. Number: 53-047-00001

Non – Title V Air Quality Operating Permit Revision No. 2

This permit is issued in accordance with the provisions of 40 CFR § 49.139 and applicable rules and regulations, to

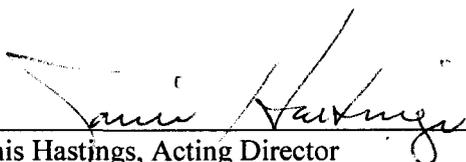
Omak Forest Products, LLC

for operations in accordance with the conditions listed in this permit, at the following location:

Colville Reservation
1100 Eighth Avenue East
Omak, Washington 98841
Latitude: 48° 24' 2" Longitude: 119° 31' 6"

Facility Contact: David Niessner
General Manager
Omak Forest Products, LLC
P.O. Box 2119
Omak, Washington 98841-2119
Phone: 509.557.4805
Email: dniessner@omakwood.com

A technical support document that describes the bases for conditions contained in this permit is also available.



Janis Hastings, Acting Director
Office of Air, Waste and Toxics
U.S. Environmental Protection Agency, Region 10

2/18/2016
Date

1. General Conditions

- 1.1. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Air Act.
- 1.2. Compliance with the terms of this permit does not relieve or exempt the permittee from compliance with other applicable Clean Air Act requirements or other applicable federal requirements, tribal, state or local laws or regulations.

2. Emission Limits and Work Practice Requirements

- 2.1. HAP emissions from this facility shall not exceed 24 tons per year as determined on a rolling 12-month average basis by calculating the emissions (tons) for each month and adding the emissions (tons) for the previous eleven months. Monthly HAP emissions (tons) shall be determined by multiplying appropriate emission factors (lb/unit) by the recorded monthly operation/production rates (units/month) and dividing by 2000 lb/ton.
 - 2.1.1. Hydrogen chloride emission factors shall be based on the most recent fuel sampling results. Prior to the first fuel analyses being conducted, the permittee shall use the hydrogen chloride emission factors in Section 4.3.3 of the technical support document.
- 2.2. Emissions of any single HAP from this facility shall not exceed 9 tons per year as determined on a rolling 12-month average basis by calculating the emissions (tons) for each month and adding the emissions (tons) for the previous eleven months. Monthly emissions of any single HAP (tons) shall be determined by multiplying appropriate emission factors (lb/unit) by the recorded monthly operation/production rates (units/month) and dividing by 2000 lb/ton.
 - 2.2.1. Hydrogen chloride emission factors shall be based on the most recent fuel sampling results. Prior to the first fuel analyses being conducted, the permittee shall use the hydrogen chloride emission factors in Section 4.3.3 of the technical support document.

3. Monitoring and Recordkeeping Requirements

- 3.1. Each month, the permittee shall calculate and record facility-wide monthly and rolling 12-month total emissions (tons) for all HAP-emitting activities at the facility.
 - 3.1.1. The permittee shall track and record the operations and production for each HAP-emitting activity at the facility, such that facility-wide HAP emissions can be calculated on a monthly and 12-month basis.
- 3.2. Within 90 days of issuance of this permit, and no less frequently than quarterly thereafter, the permittee shall sample and analyze the wood fuel for chloride content.
- 3.3. Sampling and analysis procedures to determine chloride content in the wood fuel shall follow the procedures specified in 40 CFR 63.7521. The results of the analyses shall be used to determine a hydrogen chloride emission factor (lb/MMBtu) for the boiler as specified in 40 CFR 63.7521.
- 3.4. The permittee shall maintain records of emission calculations and parameters used to calculate emissions for at least five years.

4. Reporting Requirements

- 4.1. Once each year, on or before August 24, the permittee shall, along with the annual registration required by 40 CFR § 49.138(e)(2), submit to EPA a report containing the twelve monthly rolling 12-month emissions calculations for the previous calendar year.
 - 4.1.1. The report required under Condition 4.1 shall contain a description of all emissions estimating methods used, including emission factors and their sources, assumptions made and production data.

**Non-Title V Air Quality Operating Permit
Technical Support Document for Administratively Amended Permit
No. R10NT500502**

February 18, 2016

**Omak Forest Products, LLC
Colville Reservation
Omak, Washington**

On February 10, 2016, EPA received a request to revise the non-Title V operating permit to reflect that Omak Forest Products, LLC would be the new operator of the plywood mill located in Omak, Washington. The facility will continue to be owned by Colville Tribal Federal Corporation. No other changes were requested to the permit. The permit is being reissued with only permittee information and the permit number being updated. The compliance obligations remain unchanged and the bases in the original September 24, 2007 and subsequent July 2, 2013 technical support documents (see Appendix) still apply. Since this permit action is purely administrative, public comment is not required.

Technical Support Document Appendix
Omak Forest Products, LLC
February 18, 2016

United States Environmental Protection Agency
Region 10, Office of Air, Waste and Toxics
AWT-107
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

Permit Number: R10NT500501
Issued: July 2, 2013
AFS Plant I.D. Number: 53-047-00001

Technical Support Document

Non-Title V Air Quality Operating Permit

Permit Writer: Pat Nair

Omak Wood Products LLC
Colville Reservation
Omak, Washington

Purpose of Owner-Requested Non-Title V Operating Permit and Technical Support Document

Title 40 Code of Federal Regulations Section 49.139 establishes a permitting program to provide for the establishment of Federally-enforceable requirements for air pollution sources located within Indian reservations in Idaho, Oregon and Washington. The owner or operator of an air pollution source who wishes to obtain a Federally-enforceable limitation on the source's actual emissions or potential to emit must submit an application to the Regional Administrator requesting such limitation.

The United States Environmental Protection Agency (EPA) then develops the permit via a public process. The permit remains in effect until it is modified, revoked or terminated by EPA in writing.

This document, the Technical Support Document, fulfills the requirement of 40 CFR § 49.139(c)(3) by describing the proposed limitation and its effect on the actual emissions and/or potential to emit of the air pollution source. Unlike the air quality operating permit, this document is not legally enforceable. The permittee is obligated to follow the terms of the permit. Any errors or omissions in the summaries provided here do not excuse the permittee from the requirements of the permit.

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Appendix A – Letter from Kate Kelly, U.S. EPA, to Richard Yarbrough, Omak Wood Products LLC

Appendix B – Technical Support Document for Non-Title V Operating Permit Issued to Colville Indian Power and Veneer on September 24, 2007

1. EPA Authority to Issue Non-Title V Permits

On April 8, 2005 EPA adopted regulations (70 FR 18074) codified at 40 CFR Parts 9 and 49, establishing Federal Implementation Plans (FIPs) under the Clean Air Act for Indian reservations in Idaho, Oregon and Washington. The FIPs, commonly referred to as the Federal Air Rules for Reservations (FARR), put in place basic air quality regulations to protect health and welfare on Indian reservations located in the Pacific Northwest. 40 CFR § 49.139 creates a permitting program for establishing Federally-enforceable requirements for air pollution sources on Indian reservations. This permit has been developed pursuant to 40 CFR § 49.139.

2. Facility Information and Background

The Omak Wood Products LLC facility is located near Omak, Washington. The facility is within the outer boundaries of the Colville Reservation.

Tribal Contact: Gary Passmore
Environmental Programs Manager
Environmental Trust Department
Confederated Tribes of the Colville Reservation
P.O. Box 150
Nespelem, WA 99116 OR 99155
Phone: 509-634-2426
Fax: 509-634-2387

This facility was previously known as Colville Indian Power and Veneer (CIPV). On September 24, 2007, EPA issued a non-Title V operating permit (Permit No. R10NT500500) to the CIPV facility. The purpose of the non-Title V operating permit was to establish enforceable emission limits on the facility's potential to emit hazardous air pollutants (HAPs). As a result of these emission limits, the facility would be a synthetic minor for HAPs, and would not be considered a major source of HAPs.

The CIPV facility was idled in 2009, because of an economic slowdown that affected the entire building products industry. Since then the facility owners have sought ways to restart the facility. Omak Wood Products sent a letter, dated April 9, 2013, seeking confirmation that resuming operations at the CIPV facility would not be considered a new facility under the New Source Review (NSR) program. EPA responded on May 8, 2013 with a letter confirming that based on the information provided by Omak Wood Products LLC, resumption of operations at the facility would not be considered a new NSR source (see Appendix A).

3. Project Scope

On May 31, 2013, EPA received a report of ownership change, from the applicant, regarding the former CIPV facility, as well as a request to revise the non-Title V operating permit to reflect that Omak Wood Products would be the new operator of the facility. The facility will be owned by Colville Tribal Federal Corporation, 5515 Birch Street, Coulee Dam, WA 99116. No other changes were requested to the permit. The permit is being reissued with only permittee information and the permit number being updated. The compliance obligations remain unchanged and the bases in the original technical support document (see Appendix B) still apply. Since this permit action is purely administrative, public comment is not required.

Appendix A

**Letter from Kate Kelly,
U.S. EPA
To
Richard Yarbrough,
Omak Wood Products LLC**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10

1200 Sixth Avenue, Suite 900
Seattle, WA 98101-3140

MAY 08 2013

OFFICE OF
AIR, WASTE AND TOXICS

Richard Yarbrough
President
Omak Wood Products LLC
729 Jackson Street
Omak, Washington 98841

Dear Mr. Yarbrough:

This is in response to your letter of April 9, 2013, to Dennis McLerran, Regional Administrator of the U.S. Environmental Protection Agency (EPA) Region 10. Your letter describes a pending lease agreement under which the Colville Indian Plywood and Veneer (CIPV) facility in Omak, Washington would be leased to Omak Wood Products LLC. In your letter, you asked us to respond to your conclusion that resumption of operations at the CIPV facility would not be considered a new source according to the EPA's Reactivation Policy (the September 6, 1978, memorandum from Edward E. Reich to Stephen A. Dvorkin, and the factors articulated in the June 11, 1999, Order from the EPA Administrator regarding Entergy Louisiana Inc.'s Monroe Electric Generating Plant). We agree with your conclusion as follows.

Duration of Shutdown. Your letter indicates that the facility was idled in July 2009. If the facility was to resume operations in the next few months, it would have been idle for a period of about four years.

Cause and Intent of Shutdown. We understand, from your letter, that the cause of the facility shutdown was the economic slowdown that affected the entire building products industry, and that the intent, as stated by the facility owners, was that the facility would be reopened once market conditions improved.

Continuous Intent to Resume Operations. You have also provided details on how the owners of the facility have sought to enter into agreements with other entities to restart the mill. Discussions between the owners and your representatives started as early as November 2010.

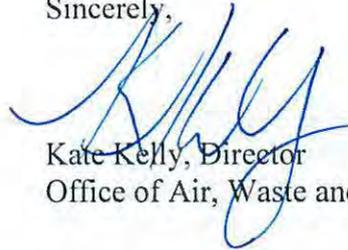
Ongoing Maintenance. We understand that ongoing maintenance of key machine centers was appropriately and properly executed in accordance with a protective lay-up plan to assure an effective restart. Once the protective lay-up plan was complete, contractors were retained to maintain equipment and security.

Permitting Agency Handling of Facility and Status of Permits. During the time that the CIPV facility was idled, the air quality permits issued by the EPA were maintained. Our records indicate that payment of emission fees are current and that, with the exception of events that resulted in a Notice of Violation in December 2010, emissions reports and registration reports have been submitted as required by the Federal Air Rules for Reservations. During this period, the EPA has made no efforts to treat CIPV as other than an active, permitted facility.

Based on our review of the information submitted in your letter, the EPA agrees with your conclusion that resumption of operations at the CIPV facility does not constitute a new source under the New Source Review program. We understand that Omak Wood Products LLC will not make any modifications before restarting the facility. Consequently, while a permit amendment will be necessary to update the name of the owner/operator of the facility, production operations at the facility may be resumed under the facility's existing Part 71 permit.

If you have any questions, please contact Don Dossett of my staff at 206-553-1783.

Sincerely,



Kate Kelly, Director
Office of Air, Waste and Toxics

cc: Gary Passmore
Colville Tribe

Appendix B

**Technical Support Document
for Non-Title V Operating Permit
Issued to
Colville Indian Power and Veneer
on September 24, 2007**

United States Environmental Protection Agency
Region 10, Office of Air, Waste and Toxics
AWT-107
1200 Sixth Avenue
Seattle, Washington 98101

Permit Number: R10NT500500
Issued: September 24, 2007
AFS Plant I.D. Number: 53-047-00001

Technical Support Document

Non-Title V Air Quality Operating Permit

Permit Writer: Pat Nair

Colville Indian Power and Veneer
Colville Reservation
Omak, Washington

Purpose of Owner-Requested Non-Title V Operating Permit and Technical Support Document

Title 40 Code of Federal Regulations Section 49.139 establishes a permitting program to provide for the establishment of Federally-enforceable requirements for air pollution sources located within Indian reservations in Idaho, Oregon and Washington. The owner or operator of an air pollution source who wishes to obtain a Federally-enforceable limitation on the source's actual emissions or potential to emit must submit an application to the Regional Administrator requesting such limitation.

The United States Environmental Protection Agency (EPA) then develops the permit via a public process. The permit remains in effect until it is modified, revoked or terminated by EPA in writing.

This document, the Technical Support Document, fulfils the requirement of 40 CFR § 49.139(c)(3) by describing the proposed limitation and its effect on the actual emissions and/or potential to emit of the air pollution source. Unlike the air quality operating permit, this document is not legally enforceable. The permittee is obligated to follow the terms of the permit. Any errors or omissions in the summaries provided here do not excuse the permittee from the requirements of the permit.

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1. EPA Authority to Issue Non-Title V Permits

On April 8, 2005 EPA adopted regulations (70 FR 18074) codified at 40 CFR Parts 9 and 49, establishing Federal Implementation Plans (FIPs) under the Clean Air Act for Indian reservations in Idaho, Oregon and Washington. The FIPs, commonly referred to as the Federal Air Rules for Reservations (FARR), put in place basic air quality regulations to protect health and welfare on Indian reservations located in the Pacific Northwest. 40 CFR § 49.139 creates a permitting program for establishing Federally-enforceable requirements for air pollution sources on Indian reservations. This permit has been developed pursuant to 40 CFR § 49.139.

2. Facility Information

The Colville Indian Power and Veneer facility is located near Omak, Washington. The facility is within the outer boundaries of the Colville Reservation.

Tribal Contact: Gary Passmore
Environmental Programs Manager
Environmental Trust Department
Confederated Tribes of the Colville Reservation
P.O. Box 150
Nespelem, WA 99116 OR 99155
Phone: 509-634-2426
Fax: 509-634-2387

3. Project Description

3.1 Background

In the second quarter of 2007, EPA Region 10 permit staff learned of new information on hazardous air pollutants (HAP) emissions from lumber drying kilns. Permit staff attended a technical meeting in Corvallis, OR, where the principal investigator, Dr. Mike Milota of Oregon State University, shared the results of his testing of various wood species. The results of these tests indicated that emissions of HAPs from lumber drying are significantly higher than previously thought. As a result, Region 10 believed that a number of sawmill facilities previously thought to be minor might in fact be major sources of HAP. Major sources of HAP are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPs) in 40 CFR Part 63. These standards are also referred to as Maximum Achievable Control Technology (MACT). Major HAP source sawmills with lumber kilns are potentially subject to the requirements of two MACTs:

1. 40 CFR, Part 63, Subpart DDDD — National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products; and
2. 40 CFR, Part 63, Subpart DDDDD — National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.

On July 30, 2007 the United States Court of Appeals for District of Columbia Circuit vacated Subpart DDDDD in its entirety. As a result, sources that would have been subject to this MACT must comply with the case-by-case MACT requirements of section 112(j) of the Clean Air Act. The details of exactly how this will be implemented have not yet been finalized, and EPA headquarters is expected to issue

guidance that can be implemented consistently across the country. Major HAP source sawmills with lumber kilns would have to comply with the requirements of 112(j).

This situation is even more complex in the case of Subpart DDDD. The United States Court of Appeals for District of Columbia Circuit issued their opinion for a partial vacatur and remand of this MACT. The partial vacatur involved changing the effective date of the regulation from October 1, 2008 to October 1, 2007. This ties in with EPA's once-in-always-in policy whereby a source that is major at the effective date of a MACT cannot subsequently assume enforceable limits to not be subject to that MACT.

Region 10 recognized that (partially as a result of the latest kiln emissions data) many sawmills would be considered a major HAP source based on their potential to emit (PTE) HAPs, but their actual emissions would be much lower because their actual throughputs and/or species dried were less than worst case. These types of facilities were good candidates to assume a synthetic minor limit to ensure that their PTE remained below major source thresholds and which could use monitoring, recordkeeping and reporting to assure that their actual emissions remain below the new emission limits.

Rather than select facilities based on preliminary calculations of HAP emissions PTE, EPA elected to notify all of the sawmills known to be in Region 10 Indian Country. On August 8, 2007, EPA sent letters to all 10 sawmills to apprise them these recent events and of a streamlined process to obtain permits with the necessary HAP emission limits. If a facility wanted to take advantage of this streamlined permit opportunity, utilizing the FARR non-Title V operating permit program, EPA requested completed applications no later than August 15, 2007.

3.2 HAP Limit Request

On August 15, 2007, EPA received an application from the applicant in response to the letter described in Section 3.1. In the application, the applicant requested emission limits of 9 tons per year of any single hazardous pollutant (HAP) and 24 tons per year of all HAPs. The emission limits would apply to all HAP-emitting activities at the facility.

The applicant requested the HAP limits in order to avoid being considered a major source of HAP emissions.

4. *Regulatory Analysis and Permit Content*

4.1 Evaluation of HAP Limit Request

A source is considered a major source of HAPs if the facility's potential to emit is 10 tons per year (tpy) or more of a single HAP, or 25 tpy or more of all HAPs in aggregate. The applicant has requested emission limits that will ensure that the facility would be considered a minor source of HAPs. Because of rounding, this translates to emission limits of 9 tpy (single HAP) and 24 tpy (total HAPs).

MACT-avoidance limits require compliance assurance on a rolling 12-month basis. The monitoring, recordkeeping and reporting for this permit will require the estimation of emissions from all HAP-emitting activities at least once a month. Details on the compliance assurance requirements are discussed in Section 4.3.

4.2 Other Federal Regulations

Endangered Species Act (ESA) Impacts - EPA is obligated to consider the impact that a federal project may have on listed species or critical habitats. Based on the fact that the permit contains a voluntarily-requested emission limit, it is EPA's conclusion that the issuance of this permit will not affect a listed specie or critical habitat. Therefore, no additional requirements will be added to this permit for ESA reasons. EPA's no effect determination concludes EPA's obligations under Section 7 of the ESA. (See Endangered Species Consultation Handbook: Procedures for Conducting Consultation and Conference Activities Under Section 7 of the Endangered Species Act, FWS and NMFS, March 1998, at Figure 1).

National Environmental Policy Act (NEPA) Review - Under Section 793(c) of the Energy Supply and Environmental Coordination Act of 1974, no action taken under the Clean Air Act shall be deemed a major Federal action significantly affecting the quality of the human environment within the meaning of the National Environmental Policy Act of 1969. This permit is an action taken under regulations implementing the Clean Air Act and is therefore exempt from NEPA.

National Historic Preservation Act (NHPA) – This project involves establishing a limit on emissions. No part of the facility will be physically altered directly as a result of this permit. Consequently, no adverse effects are expected, and further review under NHPA is not indicated.

4.3 Permit Content

The permit includes the requested emission limits as well as monitoring, recordkeeping and reporting requirements necessary to assure compliance with each limit. Each section of the permit is discussed below. The permit is organized into four sections as follow:

4.3.1 Permit Section 1: General Conditions

This section of the permit contains conditions of a general nature that apply to the facility. Permit Condition 1.1 requires the permittee to comply with the conditions in the permit.

This permit establishes owner-requested limits and related compliance assurance provisions to restrict the facility's potential to emit HAPs. It does not contain other Clean Air Act requirements to which this facility is or may be subject, such as the FARR; New Source Performance Standards, 40 CFR Part 60, National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 61 and 63; and the Title V operating permit program, 40 CFR Part 71. As specified in Permit Condition 1.2, compliance with the terms of this permit in no way relieves or exempts the permittee from compliance with other applicable Clean Air Act requirements or of any other applicable federal, tribal, state, or local law or regulation.

4.3.2 Permit Section 2: Emission Limits and Work Practice Requirements

This section of the permit contains any emissions limits or work practice requirements that have been established as a result of the subject permit action. As discussed earlier, in Section 4.1, for this permit action, the only limits established are the 9 tpy single HAP limit and the 24 tpy total HAP limit.

4.3.3 Permit Section 3: Monitoring and Recordkeeping Requirements

Permit Condition 3.1 requires the permittee to calculate monthly emissions every month. The rolling 12-month emissions must be determined by adding the emissions calculated for the most recent month with the emissions for the immediately preceding 11 months. Emissions are to be calculated from the entire

facility. The following tables provide the emission factors that EPA currently accepts for estimating emissions from wood waste-fired boilers and from lumber kilns.

Table 1: Wood Waste-Fired Boiler Emission Factors

| Compound | Emission Factor ¹ (lb/MMBtu) | Compound | Emission Factor ¹ (lb/MMBtu) |
|--|--|---|--|
| Acetaldehyde | 8.30E-04 | Tetrachloroethene | 3.80E-05 |
| Acetophenone | 3.20E-09 | 1,1,1-Trichloroethane (methyl chloroform) | 3.10E-05 |
| Acrolein | 4.00E-03 | Trichloroethene | 3.00E-05 |
| Benzene | 4.20E-03 | Toluene | 9.20E-04 |
| bis(2-Ethylhexyl) phthalate (DEHP) | 4.70E-08 | 2,4,6-Trichlorophenol | 2.20E-08 |
| Bromomethane (methyl bromide) | 1.50E-05 | Vinyl Chloride | 1.80E-05 |
| Carbon tetrachloride | 4.50E-05 | o-Xylene | 2.50E-05 |
| Chlorine | 7.90E-04 | POM | |
| Chlorobenzene | 3.30E-05 | Benzo(a)anthracene | 6.50E-08 |
| Chloroform | 2.80E-05 | Benzo(a)pyrene | 2.60E-06 |
| Chloromethane (methyl chloride) | 2.30E-05 | Benzo(b)fluoranthene | 1.00E-07 |
| Dibenzo furans | | Chrysene | 3.80E-08 |
| Heptachlorodibenzo-p-furans | 2.40E-10 | Benzo(k)fluoranthene | 3.60E-08 |
| Hexachlorodibenzo-p-furans | 2.80E-10 | Dibenzo(a,h)anthracene | 9.10E-09 |
| Octachlorodibenzo-p-furans | 8.80E-11 | Indeno(1,2,3,c,d)pyrene | 8.70E-08 |
| Pentachlorodibenzo-p-furans | 4.20E-10 | Acenaphthene | 9.10E-07 |
| 2,3,7,8-Tetrachlorodibenzo-p-furans | 9.00E-11 | Fluorene | 3.40E-06 |
| Tetrachlorodibenzo-p-furans | 7.50E-10 | Anthracene | 3.00E-06 |
| 1,2-Dichloroethane (ethylene dichloride) | 2.90E-05 | Phenanthrene | 7.00E-06 |
| Dichloromethane (methylene chloride) | 2.90E-04 | Fluoranthene | 1.60E-06 |
| 1,2-Dichloropropane (propylene dichloride) | 3.30E-05 | Pyrene | 3.70E-06 |
| 2,4-Dinitrophenol | 1.80E-07 | Perylene | 5.20E-10 |
| Ethylbenzene | 3.10E-05 | Benzo(g,h,i)perylene | 9.30E-08 |
| Formaldehyde | 4.40E-03 | Acenaphthylene | 5.00E-06 |
| Hydrogen chloride | 1.90E-02 | Benzo(e)pyrene | 2.60E-09 |
| Naphthalene | 9.70E-05 | 2-Methylnaphthalene | 1.60E-07 |
| Pentachlorophenol | 5.10E-08 | Benzo(j,k)fluoranthene | 1.60E-07 |
| 4-Nitrophenol | 1.10E-07 | 2-Chloronaphthalene | 2.40E-09 |
| Phenol | 5.10E-05 | Antimony | 7.90E-06 |
| Polychlorinated biphenyls | | Arsenic | 2.20E-05 |
| Decachlorobiphenyl | 2.70E-10 | Beryllium | 1.10E-06 |
| Dichlorobiphenyl | 7.40E-10 | Cadmium | 4.10E-06 |
| Heptachlorobiphenyl | 6.60E-11 | Chromium (Total) | 2.10E-05 |
| Hexachlorobiphenyl | 5.50E-10 | Chromium (VI) | 3.50E-06 |
| Pentachlorobiphenyl | 1.20E-09 | Cobalt | 6.50E-06 |
| Trichlorobiphenyl | 2.60E-09 | Lead | 4.80E-05 |
| Tetrachlorobiphenyl | 2.50E-09 | Manganese | 1.60E-03 |
| Propionaldehyde | 6.10E-05 | Mercury | 3.50E-06 |
| Styrene | 1.90E-03 | Nickel | 3.30E-05 |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxins | 8.60E-12 | Selenium | 2.80E-06 |

¹ AP-42 September 2003, Tables 1.6-3 and 1.6-4

Table 2: Kiln Emission Factors

| Species | Max Kiln Temp °F | Total HAP lb/MMBF | Methanol Lb/MMBF | Formaldehyde lb/MMBF | Acetaldehyde lb/MMBF | Propionaldehyde lb/MMBF | Acrolein lb/MMBF |
|-------------------------------|------------------|-------------------|------------------|----------------------|-----------------------|-------------------------|-----------------------|
| Hemlock | ≤200°F | 199 | 82 | 1.24 | 113 | 1 | 1.6 |
| Hemlock | >200°F | 305 | 186 | 3.8 | 113 ⁽¹⁾ | 1 ⁽¹⁾ | 1.6 ⁽¹⁾ |
| Douglas Fir | ≤200°F | 97 | 38 | 1 | 57 | 0.55 | 0.65 |
| Douglas Fir | >200°F | 116 | 57 | 1 ⁽¹⁾ | 57 ⁽¹⁾ | 0.55 ⁽¹⁾ | 0.65 ⁽¹⁾ |
| White Fir | ≤200°F | 240 | 122 | 2.8 | 113 ⁽²⁾ | 1 ⁽¹⁾⁽²⁾ | 1.6 ⁽¹⁾⁽²⁾ |
| White Fir | >200°F | 301 | 183 | 2.8 ⁽¹⁾ | 113 ⁽¹⁾⁽²⁾ | 1 ⁽¹⁾⁽²⁾ | 1.6 ⁽¹⁾⁽²⁾ |
| Ponderosa Pine ⁽³⁾ | ≤200°F | 184 | 65 | 2.9 | 113 ⁽¹⁾⁽²⁾ | 1 ⁽¹⁾⁽²⁾ | 1.6 ⁽¹⁾⁽²⁾ |
| Lodgepole Pine ⁽³⁾ | ≤200°F | 73.6 | 55 | 4 | 12 | 1 ⁽¹⁾⁽²⁾ | 1.6 ⁽¹⁾⁽²⁾ |
| Lodgepole Pine ⁽³⁾ | >200°F | 78.6 | 60 | 4 ⁽⁶⁾ | 12 ⁽⁶⁾ | 1 ⁽¹⁾⁽²⁾ | 1.6 ⁽¹⁾⁽²⁾ |
| Slash Pine | >200°F | 215 | 164 | 4 ⁽⁵⁾ | 44.7 | 1 ⁽¹⁾⁽²⁾ | 1.6 ⁽¹⁾⁽²⁾ |

- (1) Assumes emissions of this HAP not temperature dependent. There is insufficient data to know for sure.
- (2) Assumes emissions are the same as hemlock.
- (3) Pine is not normally dried at temperatures > 200 °F.
- (4) No data for Slash Pine dried ≤ 200 °F.
- (5) Assume to be the same as for Lodgepole Pine.
- (6) Assumes emissions the same as for Lodgepole Pine dried at ≤ 200 °F.

It is EPA’s expectation that the permittee will use the emission factors in Tables 1 and 2 when estimating emissions from wood waste-fired boilers and from lumber kilns unless the permittee has other information showing why another technique more accurately represents its emissions. The permittee is also expected to calculate emissions from other HAP-emitting activities by using emission estimation methods that are verifiable using currently accepted engineering criteria.

Because chloride content in wood waste can vary from location to location, the facility is required (see Conditions 3.2 and 3.3) to test their wood waste fuel for chloride content and to base their facility-wide HAP emission calculations on the latest test results. Larger facilities (e.g. with a capacity > 60 MMbf/year) are required to test their fuel quarterly, while smaller facilities are required to conduct this testing on an annual basis.

The permittee is required (Condition 3.4) to maintain copies of required emissions calculations and all supporting documentation for a period of five years.

4.3.4 Permit Section 4: Reporting Requirements

Condition 4.1 requires the permittee to annually submit to EPA a record of the 12 monthly 12-month emissions calculations. For ease in coordinating submittals, this report is required to be submitted concurrently with the annual FARR registration submittal. As specified in 40 CFR § 49.139(f), the annual FARR registration submittal must be submitted with the annual emission report and fee calculation required by 40 CFR Part 71.

This annual report must include details (see Condition 4.2) on how the emissions were calculated as well as identifying the sources for various data elements.

5. Permit Procedures

5.1 Permit Revision, Termination and Reissuance

The permittee may request EPA to revise the conditions of this permit by submitting an application that contains the information specified in 40 C.F.R. 49.139(d). EPA will revise the permit using the same procedures that apply to initial permit issuance.

If the permittee wishes to terminate the permit, a written request must be submitted to EPA explaining the reasons for the request and, if necessary for continued operation, submitting applications for any Clean Air Act permits or approvals that the permittee avoided by establishment of the limits contained in this permit.

This permit may be terminated, revised, or revoked and reissued by EPA for cause. Cause exists to terminate, revise, or revoke and reissue this permit under the following circumstances:

1. This permit contains a material mistake;
2. Inaccurate statements were made in establishing the terms or conditions of this permit;
3. The permittee fails to comply with any condition of this permit; or
4. This permit must be terminated, revised, or reopened and reissued to assure compliance with Clean Air Act requirements.

EPA will use the same proceedings to terminate, revise, or revoke and reissue a permit for cause as for initial permit issuance. Before initiating proceedings to terminate, revise, or revoke and reissue a permit, EPA will provide the permittee at least 30 days' advance written notice of EPA's intent to terminate, revise, or revoke and reissue the permit, except that EPA may provide a shorter notice period in the case of an emergency.

5.2 Public Notice and Comment

As required under 40 CFR § 49.139(c), all draft owner-requested operating permits must be publicly noticed and made available for public comment. For this permit action, the requirements of 40 CFR § 49.139(c)(5) are as follow:

1. Make available for public inspection, in at least one location in the area affected by the air pollution source, a copy of the draft operating permit prepared by EPA, the technical support document for the draft permit, the application, and all supporting materials (see 40 CFR 49.139(c)(5)(i));
2. Publish public notice for this draft permit, by prominent advertisement in a newspaper of general circulation in the area affected by this source, of the availability of the draft permit to operate and supporting materials and of the opportunity to comment. Where possible, notices will also be made in the Tribal newspaper (see 40 CFR 49.139(c)(5)(ii));
3. Provide copies of the notice to the owner or operator of the air pollution source, the Tribal governing body, and the Tribal, State and local air pollution authorities having jurisdiction in areas outside of the Indian reservation potentially impacted by the air pollution source (see 40 CFR 49.139(c)(5)(iii)); and
4. Provide for a 30-day period for submittal of public comments, starting upon the date of publication of the notice. If requested, the Regional Administrator may hold a public hearing

and/or extend the public comment period for up to an additional 30 days (see 40 CFR 49.139(c)(5)(iv)).

40 CFR § 49.139(c) also contains requirements that apply after the draft permit is made available for public comment. These additional requirements must be satisfied prior to issuance of the final permit:

1. EPA will accept comments on the draft permit, during the 30 day public comment period (see 40 CFR 49.139(c)(5)(iv));
2. After the close of the public comment period, EPA will consider all comments received and prepare a final permit to operate and final technical support document. The final technical support document will include a response to all comments received during the public comment period (see 40 CFR 49.139(c)(6));

After issuance of the final permit and technical support document, the following requirements must also be satisfied:

1. Make the final permit and technical support document available at all of the locations where the draft permit was made available (see 40 CFR 49.139(c)(7)); and
2. Send the final permit and technical support document to all persons who provided comments on the draft permit to operate (see 40 CFR 49.139(c)(7)).

5.3 Response to Public Comments

The draft permit and technical support document were made available during a public comment period that lasted from August 21, 2007 to September 21, 2007. No comments were received during this time.

6. Abbreviations and Acronyms

| | |
|--------|---|
| CFR | Code of Federal Regulations |
| EPA | United States Environmental Protection Agency (also U.S. EPA) |
| FARR | Federal Air Rules for Reservations |
| FR | Federal Register |
| HAP | Hazardous air pollutant |
| NESHAP | National Emission Standards for Hazardous Air Pollutants (Title 40 CFR Parts 61 and 63) |
| PTE | Potential to emit |
| tpy | Tons per year |