



File: PA-01691

Date: **AUG 02 2007**

**REGISTERED MAIL**

West Fraser Mills Ltd. doing business as Pacific Inland Resources  
P.O. Box 3130  
Smithers, British Columbia VOJ 2N0

Dear Permittee:

Enclosed is Amended Permit PA-01691 issued under the provisions of the *Environmental Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the permit. An annual fee will be determined according to the Permit Fees Regulation.

This permit does not authorize entry upon, crossing over, or use for any purpose of private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with the permittee. This permit is issued pursuant to the provisions of the *Environmental Management Act* to ensure compliance with Section 120(3) of that statute, which makes it an offence to discharge waste, from a prescribed industry or activity, without proper authorization. It is also the responsibility of the permittee to ensure that all activities conducted under this authorization are carried out with regard to the rights of third parties, and comply with other applicable legislation that may be in force.

This decision may be appealed to the Environmental Appeal Board in accordance with Part 8 of the *Environmental Management Act*. An appeal must be delivered within 30 days from the date that notice of this decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Administration of this permit will be carried out by staff from the Skeena Region. Plans, data and reports pertinent to the permit are to be submitted to the Regional Manager, Environmental Protection, at Ministry of Environment, Regional Operations, Skeena Region, 3726 Alfred Avenue, Box 5000, Smithers, BC, V0J 2N0.

Yours truly,



Mark Love  
for Director, *Environmental Management Act*  
Skeena Region

Enclosure

cc: Environment Canada

**PERMIT  
PA-01691**

*Under the Provisions of the Environmental Management Act*

**West Fraser Mills Ltd.  
doing business as Pacific Inland Resources  
P.O. Box 3130  
Smithers, British Columbia  
V0J 2N0**

is authorized to discharge air contaminants to the air from a sawmill and planer mill complex located in Smithers, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Environmental Management Act* and may result in prosecution.

**1. AUTHORIZED DISCHARGES**

**1.1. Wood Residue Fired Energy System**

This sub-section applies to the discharge of air emissions from an electrostatic precipitator associated with the wood residue fired reciprocating grate thermal oil energy system. The site reference number for this discharge is E259317.

**1.1.1 Rate of Discharge**


The maximum authorized rate of emissions is 870 m<sup>3</sup>/min. The authorized discharge period is 24 hours/day, 365 days/year.

**1.1.2 Characteristics of the Discharge**

The maximum concentration of total particulate matter shall be equivalent to or better than 50 mg/m<sup>3</sup> (corrected to 12% CO<sub>2</sub>).

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1.1.3 Characteristics of the Wood Residue Source

For the purposes of this Permit, "wood residue" means uncontaminated wood residue which includes bark, sawdust, shavings and other waste wood, but excludes wood that is treated with pesticides, anti-sapstain chemicals or other chemicals. The Permittee is also authorized to burn combustible cellulose-based fuel spill clean up materials and clean cardboard and paper based packaging materials.

1.1.4 Authorized Works

The authorized works are a wood residue fired reciprocating grate thermal oil energy system, multicyclones, electrostatic precipitator and related appurtenances approximately located as shown on the attached site plan.

1.1.5 Location of the Source and the Point of Discharge

The location of the facilities from which the discharge originates and the point of discharge is Lot 2, Plan 4196 and part S.W. ¼ Section 19, lying north and east of District Lot 5714, Township 4, Range 5, Coast Land District.

**1.2. Discharge of Air Contaminants from the Trimmer, Edger #2 and #3 Chipper Cyclone**

This sub-section applies to the discharge of air contaminants from the Trimmer, Edger #2 and #3 Chipper Cyclone. The site reference number for this discharge is E218871.

1.2.1 Rate of Discharge

The maximum authorized rate of discharge is 950 m<sup>3</sup>/min. The discharge may occur up to 24 hours/day, 260 days/year.

1.2.2 Characteristics of the Discharge

The maximum concentration of total particulate matter shall be equivalent to or better than 230 mg/m<sup>3</sup>.

1.2.3 Authorized Works

The works authorized are a cyclone and related appurtenances located approximately as shown on the attached site plan.

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1.2.4 Location of the Source and the Point of Discharge

The location of the facilities from which the discharge originates and the point of discharge is as specified in sub-section 1.1.5.

**1.3. Discharge of Air Contaminants from the Planer Mill Chipper Cyclone**

This sub-section applies to the discharge of air contaminants from the Planer Mill Chipper Cyclone. The site reference number for this discharge is E218873.

1.3.1 Rate of Discharge

The maximum authorized rate of discharge is 200 m<sup>3</sup>/min. The discharge may occur up to 24 hours/day, 278 days/year.

1.3.2 Characteristics of the Discharge

The maximum concentration of total particulate matter shall be equivalent or better than 230 mg/m<sup>3</sup>.

1.3.3 Authorized Works

The works authorized are a cyclone and related appurtenances located approximately as shown on the attached site plan.

1.3.4 Location of the Source and the Point of Discharge

The location of the facilities from which the discharge originates and the point of discharge is as specified in sub-section 1.1.5.

**1.4. Discharge of Air Contaminants from the Shavings Bin Cyclone**

This sub-section applies to the discharge of air contaminants from the Shavings Bin Cyclone. The site reference number for this discharge is E218874.

1.4.1 Rate of Discharge

The maximum authorized rate of discharge is 1330 m<sup>3</sup>/min. The discharge may occur up to 24 hours/day, 260 days/year.

1.4.2 Characteristics of the Discharge

The maximum concentration of total particulate matter shall be equivalent to or better than 230 mg/m<sup>3</sup>.

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1.4.3 Authorized Works

The works authorized are a cyclone and related appurtenances located approximately as shown on the attached site plan.

1.4.4 Location of the Source and the Point of Discharge

The location of the facilities from which the discharge originates and the point of discharge is as specified in sub-section 1.1.5.

**1.5. Discharge of Air Contaminants from the Planer/Sawmill Chip Cyclone**

This sub-section applies to the discharge of air contaminants from the Planer/Sawmill Chip Cyclone. The site reference number for this discharge is E218875.

1.5.1 Rate of Discharge

The maximum authorized rate of discharge is 54 m<sup>3</sup>/min. The discharge may occur up to 24 hours/day, 278 days/year.

1.5.2 Characteristics of the Discharge

The maximum concentration of total particulate matter shall be equivalent to or better than 230 mg/m<sup>3</sup>.

1.5.3 Authorized Works

The works authorized are a cyclone and related appurtenances located approximately as shown on the attached site plan.

1.5.4 Location of the Source and the Point of Discharge

The location of the facilities from which the discharge originates and the point of discharge is as specified in sub-section 1.1.5.


**1.6. Discharge of Air Contaminants from the Bandmill Cyclone**

This sub-section applies to the discharge of air contaminants from the Bandmill Cyclone. The site reference number for this discharge is E218876.

1.6.1 Rate of Discharge

The maximum authorized rate of discharge is 765 m<sup>3</sup>/min. The discharge may occur up to 24 hours/day, 260 days/year.

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1.6.2 Characteristics of the Discharge

The maximum concentration of total particulate matter shall be equivalent to or better than 230 mg/m<sup>3</sup>.

1.6.3 Authorized Works

The works authorized are a cyclone and related appurtenances located approximately as shown on the attached site plan.

1.6.4 Location of the Source and the Point of Discharge

The location of the facilities from which the discharge originates and the point of discharge is as specified in sub-section 1.1.5.

**1.7. Discharge of Air Contaminants from the Farmers' Cyclone**

This sub-section applies to the discharge of air contaminants from the Farmers' Cyclone. The site reference number for this discharge is E218877.

1.7.1 Rate of Discharge

The maximum authorized rate of discharge is 270 m<sup>3</sup>/min. The discharge may occur up to 24 hours/day, 260 days/year.

1.7.2 Characteristics of the Discharge

The maximum concentration of total particulate matter shall be equivalent to or better than 230 mg/m<sup>3</sup>.

1.7.3 Authorized Works

The works authorized are a cyclone and related appurtenances located approximately as shown on the attached site plan.

1.7.4 Location of the Source and the Point of Discharge

The location of the facilities from which the discharge originates and the point of discharge is as specified in sub-section 1.1.5.

**1.8. Discharge of Air Contaminants from Eight Lumber Drying Kilns**

This sub-section applies to the discharge of air contaminants from the eight Lumber Drying Kilns. The site reference number for this discharge is E213180.

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1.8.1 Rate of Discharge

The maximum authorized rate of discharge is indeterminate. The kilns may operate up to 24 hours/day, 7 days/week, 365 days/year.

1.8.2 Characteristics of the Discharge

The characteristics of the discharge shall be typical of emissions from thermal oil energy system and natural gas fired lumber dry kilns.

1.8.3 Authorized Works

The works authorized are eight lumber drying kilns and related appurtenances located approximately as shown on the attached site plan.

1.8.4 Location of the Source and the Point of Discharge

The location of the facilities from which the discharge originates and the point of discharge is as specified in sub-section 1.1.5.

2. GENERAL REQUIREMENTS

All air and gaseous volumes specified in this Permit are at standard conditions. These are:

Standard Temperature	293.15 K
Standard Pressure	101.325 kPa
Water Vapour	zero

3. OPERATIONAL REQUIREMENTS

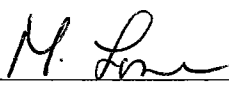
3.1 Wood Residue Fired Energy System

3.1.1 Restart Conditions

Should an emergency occur (equipment failure, power outage, etc.) that requires a restart of the Energy System, the Permittee is exempt from complying with the discharge requirements as authorized in Section 1.1.2, for a maximum of 7 hours after the restart to allow for the electrostatic precipitator to achieve optimal treatment temperature.

The maximum allowable restarts per year is 6.

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3.1.2 Notification

The Permittee shall provide written notification of a restart to the Regional Manager, Environmental Protection Program, which shall include but is not limited to: emergency details, expected restart date and time, follow up notification to confirm optimum operational status of the system.

4. MAINTENANCE OF WORKS

The Permittee shall inspect the authorized works regularly and maintain them in good working order. The Permittee shall notify the Regional Manager, Environmental Protection Program, of any malfunction of these works.

5. EMERGENCY PROCEDURES

In the event of an emergency which prevents compliance with a requirement of this Permit, that requirement shall be suspended for such time as the emergency continues or until otherwise directed by the Director provided that:

- (a) Due diligence was exercised in relation to the process, operation or event which caused the emergency and that the emergency occurred notwithstanding this exercise of due diligence;
- (b) The Regional Manager, Environmental Protection Program, is immediately notified of the emergency, and
- (c) It can be demonstrated that everything possible is being done to restore compliance in the shortest possible time.

Notwithstanding (a), (b) and (c) above, the Director may require the operation to be suspended or production levels to be reduced to protect the environment while the situation is corrected.

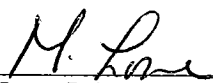
6. BYPASSES

The discharge of contaminants which have bypassed the authorized treatment works is prohibited unless the approval of the Director is obtained and confirmed in writing.

7. PROCESS MODIFICATIONS

The Regional Manager, Environmental Protection Program, shall be notified prior to implementing changes to any process that may adversely affect the quality and/or quantity of the discharges.

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8. **FUGITIVE DUST CONTROL**

Fugitive dust created within the operation area shall be suppressed. The Director may amend the permit to require additional monitoring and/or control measures on fugitive dust sources.

9. **DISPOSAL OF COMBUSTION RESIDUE**

The residue of combustion shall be removed from the wood residue burner regularly and shall be disposed of as a soil enhancer to agricultural operations and/or as lumber/log yard cover material or as approved by the Director.

10. **MONITORING AND REPORTING REQUIREMENTS**

10.1 **Wood Residue Fired Energy System**

10.1.1 **Discharge Monitoring & Reporting Program**

The Permittee shall annually sample the Wood Residue Fired Energy System discharge (sub-section 1.1 of this Permit) for the following parameters:

- Gas volumetric flow rate.
- Gas moisture and temperature.
- Total particulate matter.
- Condensible organic concentrations.

The Permittee shall submit to the Regional Manager, Environmental Protection Program, a copy of the source sampling report, including the results of the source sampling within 30 days of the stack test.

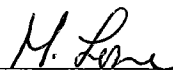
Based on the discharge results and other relevant information, the Director may amend the monitoring requirements as deemed appropriate.

10.1.2 **Sampling Facilities**

Sampling ports, electrical and pneumatic outlets, and where required, access ladders and platforms, are to be appropriately located and adequately sized on the discharge covered by, sub-section 1.1 of this Permit, such that source sampling may be safely and properly conducted.

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### 10.1.3 Sampling Procedures

Sampling is to be carried out in accordance with the procedures described in the "British Columbia Field Sampling Manual for Continuous Monitoring Plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples, 2003 Edition (Permittee)", or most recent edition, or by suitable alternative procedures as authorized by the Director.

A copy of the above manual may be purchased from the Queen's Printer Publications Centre, P. O. Box 9452, Stn. Prov. Gov't. Victoria, British Columbia, V8W 9V7 (1-800-663-6105 or (250) 387-6409). A copy of the manual is also available for inspection at all Environmental Protection offices.

### 10.2 Cyclones

Visual monitoring of the discharges authorized by sub-sections 1.2 of the Permit will be carried out by the Environmental Protection Program staff as part of the monitoring program for the entire mill operation. Based on these monitoring results, the Permittee may be required to undertake source monitoring.

### 10.3 Non-compliance Reporting

The Permittee shall immediately notify the Regional Manager, Environmental Protection Program, or designate, of any non-compliance with the requirements of this permit and take appropriate remedial action. Written confirmation of all non-compliance events, including available test results, is required by facsimile within 24 hours of the original notification unless otherwise directed by the Regional Manager, Environmental Protection Program.


For any non-compliance with the requirements of this permit, the Permittee shall submit to the Regional Manager, Environmental Protection, Program, a written report within 30 days of the non-compliance occurrence. The report shall include, but not necessarily be limited to, the following:

- a) all relevant information and test results related to the non-compliance
- b) an explanation of the most probable cause(s) of the non-compliance, and
- c) remedial action planned and/or taken to prevent similar non-compliance(s) in the future.

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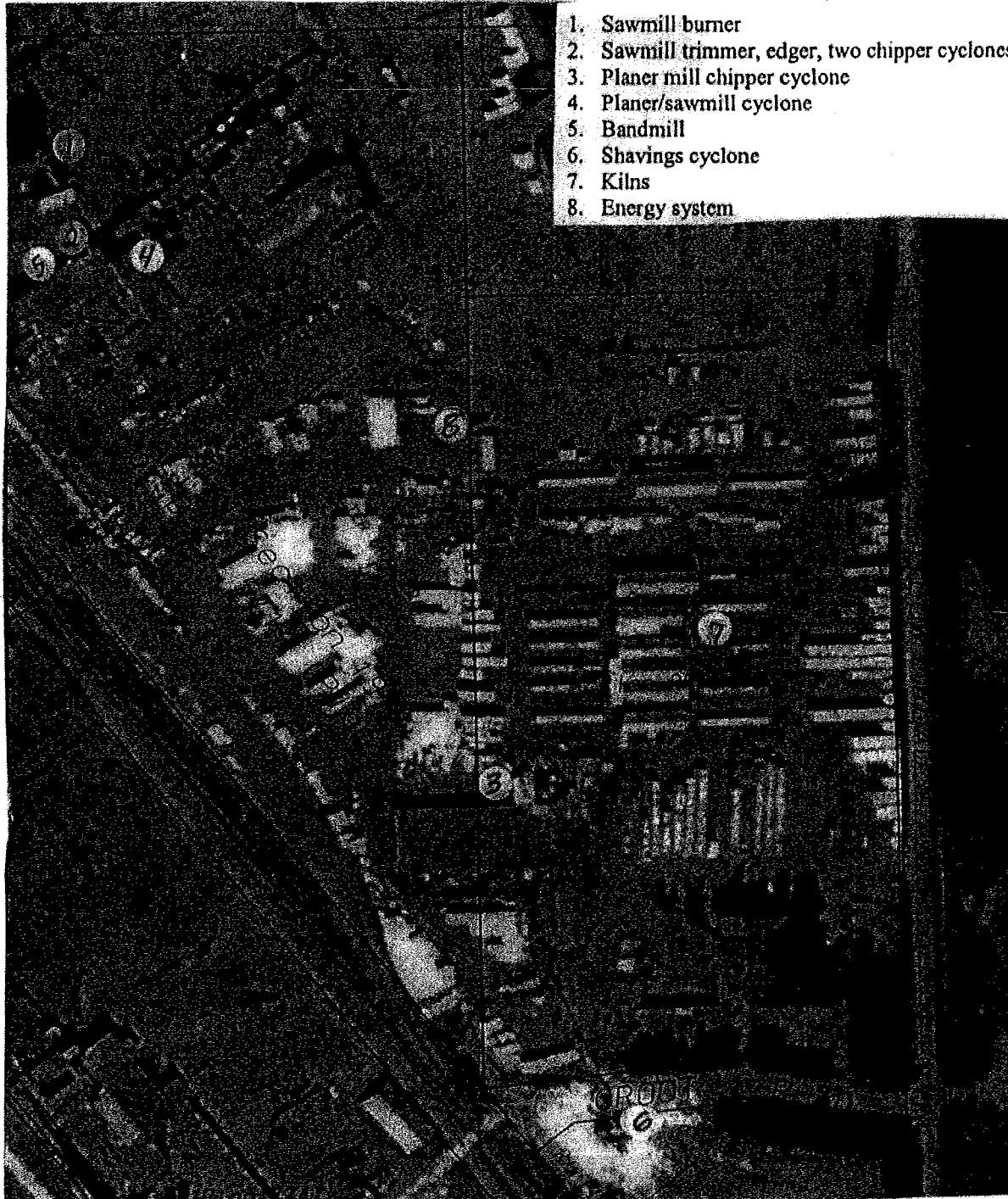
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### Site Plan



1. Sawmill burner
2. Sawmill trimmer, edger, two chipper cyclones
3. Planer mill chipper cyclone
4. Planer/sawmill cyclone
5. Bandmill
6. Shavings cyclone
7. Kilns
8. Energy system

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