

✓ #1339 AD

RECEIVED

MAR 22 2016



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

DEPARTMENT OF ENVIRONMENTAL QUALITY
 STATE A.Q. PROGRAM
 Cover Sheet for Air Permit Application – Permit to Construct **Form CSPTC**

Please see instructions on page 2 before filling out the form.

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER			
1. Company Name	Tri-Pro Forest Products, Inc.		
2. Facility Name	Oldtown Operation	3. Facility ID No.	017-00006
4. Brief Project Description - One sentence or less	Conversion of Tier II to PTC in Renewal		

PERMIT APPLICATION TYPE	
5. <input type="checkbox"/> New Source	<input type="checkbox"/> New Source at Existing Facility
<input type="checkbox"/> Unpermitted Existing Source	<input type="checkbox"/> Facility Emissions Cap
<input type="checkbox"/> Required by Enforcement Action: Case No.: _____	
6. <input checked="" type="checkbox"/> Minor PTC	<input type="checkbox"/> Major PTC

FORMS INCLUDED			
Included	N/A	Forms	DEQ Verify
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form CSPTC – Cover Sheet	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form GI – Facility Information	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU0 – Emissions Units General	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU1– Industrial Engine Information	Please specify number of EU1s attached: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU2– Nonmetallic Mineral Processing Plants	Please specify number of EU2s attached: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU3– Spray Paint Booth Information	Please specify number of EU3s attached: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU4– Cooling Tower Information	Please specify number of EU4s attached: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU5 – Boiler Information	Please specify number of EU5s attached: <u>1</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CBP– Concrete Batch Plant	Please specify number of CBPs attached: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form HMAP – Hot Mix Asphalt Plant	Please specify number of HMAPs attached: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PERF – Portable Equipment Relocation Form	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form AO – Afterburner/Oxidizer	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CA – Carbon Adsorber	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form CYS – Cyclone Separator	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form ESP – Electrostatic Precipitator	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form BCE– Baghouses Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form SCE– Scrubbers Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form VSCE – Venturi Scrubber Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CAM – Compliance Assurance Monitoring	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms EI-- Emissions Inventory	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PP – Plot Plan	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Forms MI1 – MI4 – Modeling	(Excel workbook, all 4 worksheets)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form FRA – Federal Regulation Applicability	<input type="checkbox"/>

Appendices: A. Emissions Calculations
 B. Regulatory Review
 C. Process Flow Diagram



Please see instructions on back page before filling out the form. All information is required. If information is missing, the application will not be processed.

Identification

1. Facility name: Oldtown Operation
 2. Existing facility identification number: 017-00006
 Check if new facility (not yet operating)
 3. Brief project description: Conversion of Tier II to PTC in Renewal

Facility Information

4. Primary facility permitting contact name: Steve Linton
 Contact type: Responsible official
 Telephone number: (208) 437-2412
 E-mail: stevel@triproforest.com
 5. Alternate facility permitting contact name: Beth Hodgson
 Alternate contact type: Facility permitting contact
 Telephone number: (509) 328-7500
 E-mail: beth@springenvironmental.com
 6. Mailing address where permit will be sent (street/city/county/state/zip code): 1122 Highway 2, Oldtown, ID 83822
 7. Physical address of permitted facility (if different than mailing address) (street/city/county/state/zip code): Same
 8. Is the equipment portable? Yes* No *If yes, complete and attach PERF; see instructions.
 9. NAICS codes: Primary NAICS: 321113 Secondary NAICS:
 10. Brief business description and principal product produced: 35 acre lumber (principally cedar) remanufacturing facility with 3.0 MMBF capacity.
 11. Identify any adjacent or contiguous facility this company owns and/or operates: N/A

12. Specify type of application Permit to construct (PTC); application fee of \$1,000 required. See instructions.
 Tier I permit Tier II permit Tier II/Permit to construct
 For Tier I permitted facilities only: If you are applying for a PTC then you must also specify how the PTC will be incorporated into the Tier I permit.
 Co-process Tier I modification and PTC Incorporate PTC at the time of Tier I renewal Administratively amend the Tier I permit to incorporate the PTC upon applicant's request (IDAPA 58.01.01.209.05.a, b, or c)

Certification

In accordance with IDAPA 58.01.01.123 (Rules for the Control of Air Pollution in Idaho), I certify based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

13. Responsible official's name: Daniel Steve Linton
 Official's title: President
 Official's address: 1122 Highway 2, Oldtown, ID 83822
 Telephone number: (208) 437-2412
 E-mail: stevel@triproforest.com
 Official's signature: *Daniel Steve Linton*
 Date: 3-17-16

14. Check here to indicate that you want to review the draft permit before final issuance.



Please see instructions on page 2 before filling out the form.

IDENTIFICATION							
1. Company Name: Tri-Pro Forest Products, Inc.		2. Facility Name: Oldtown Operation		3. Facility ID No: 017-00006			
4. Brief Project Description: Conversion of Tier II to PTC in Renewal							
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION							
5. Emissions Unit (EU) Name:		Lumber Drying Kilns (x10)					
6. EU ID Number:		KILN					
7. EU Type:		<input type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input checked="" type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:T2-050126		Date Issued: May 24, 2006			
8. Manufacturer:		TRI-PRO CEDAR PRODUCTS					
9. Model:		KILNS					
10. Maximum Capacity:		90 MMBF/YEAR					
11. Date of Construction:		CY 2000					
12. Date of Modification (if any):		N/A					
13. Is this a Controlled Emission Unit? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22.							
EMISSIONS CONTROL EQUIPMENT							
14. Control Equipment Name and ID:		N/A					
15. Date of Installation:		N/A		16. Date of Modification (if any): N/A			
17. Manufacturer and Model Number:		N/A					
18. ID(s) of Emission Unit Controlled:		N/A					
19. Is operating schedule different than emission units(s) involved?		<input type="checkbox"/> Yes <input type="checkbox"/> No					
20. Does the manufacturer guarantee the control efficiency of the control equipment?		<input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
		Pollutant Controlled					
		PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency		N/A	N/A	N/A	N/A	N/A	N/A
21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. N/A							
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)							
22. Actual Operation:		24 HRS/DAY, 365 DAYS/YEAR					
23. Maximum Operation:		24 HRS/DAY, 365 HRS/YEAR					
REQUESTED LIMITS							
24. Are you requesting any permit limits? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, indicate all that apply below)							
<input type="checkbox"/> Operation Hour Limit(s):							
<input checked="" type="checkbox"/> Production Limit(s):		90 MMBF/YEAR					
<input type="checkbox"/> Material Usage Limit(s):							
<input type="checkbox"/> Limits Based on Stack Testing:		Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:							
25. Rationale for Requesting the Limit(s):		PRE-EXISTING OPERATING LIMIT					



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Emissions Units - Industrial Boiler Information **Form EU5**

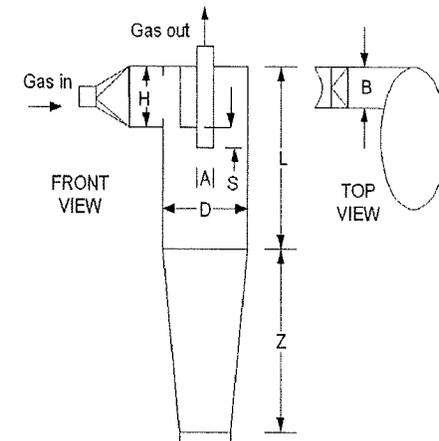
Revision 5
 08/28/08

Please see instructions on page 2 before filling out the form.

IDENTIFICATION				
1. Company Name: Tri-Pro Forest Products, Inc.		2. Facility Name: Oldtown Operation		3 Facility ID No: 017-00006
4. Brief Project Description: Conversion of Tier II to PTC in Renewal				
EXEMPTION				
Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.				
BOILER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS				
5. Type of Request: <input type="checkbox"/> New Unit <input type="checkbox"/> Unpermitted Existing Unit <input checked="" type="checkbox"/> Modification to a Unit with Permit #:T2-050126				
6. Use of Boiler: <input type="checkbox"/> % Used For Process <input checked="" type="checkbox"/> % Used For Space Heat <input type="checkbox"/> % Used For Generating Electricity <input type="checkbox"/> Other:				
7. Boiler ID Number: PROPANE		8. Rated Capacity: <input checked="" type="checkbox"/> 7.87 Million British Thermal Units Per Hour (MMBtu/hr) <input type="checkbox"/> 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)		
9. Construction Date: 2000		10. Manufacturer: Cleaver Brooks		11. Model: NA
12. Date of Modification (if applicable): NA		13. Serial Number (if available): NA		14. Control Device (if any): NONE Note: Attach applicable control equipment form(s)
FUEL DESCRIPTION AND SPECIFICATIONS				
15. Fuel Type	<input type="checkbox"/> Diesel Fuel (#) (gal/hr)	<input type="checkbox"/> Natural Gas (cf/hr)	<input type="checkbox"/> Coal (unit: /hr)	<input checked="" type="checkbox"/> Other Fuels (unit:gal /hr)
16. Full Load Consumption Rate				86
17. Actual Consumption Rate				86
18. Fuel Heat Content (Btu/unit, LHV)				91.5 MMBtu/ 1000gal
19. Sulfur Content wt%				0.0015%
20. Ash Content wt%		N/A		N/A
STEAM DESCRIPTION AND SPECIFICATIONS				
21. Steam Heat Content	NA	NA		N/A
22. Steam Temperature (°F)	N/A	N/A		N/A
23. Steam Pressure (psi)	N/A	N/A		N/A
24 Steam Type	N/A	N/A	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated
OPERATING LIMITS & SCHEDULE				
25. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.):			None	
26. Operating Schedule (hours/day, months/year, etc.):			No Limit - 8760 hr/year	
27. NSPS Applicability: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If Yes, which subpart:		



Please see instructions on page 3 before filling out the form.

IDENTIFICATION																					
1. Company Name: Tri-Pro Forest Products, Inc.	2. Facility Name: Oldtown Operation	3. Facility ID No.: 017-00006																			
4. Brief Project Description: Conversion of Tier II to PTC in Renewal																					
CYCLONE SEPARATOR INFORMATION																					
Equipment Description																					
5. Manufacturer: Tri-Pro Cedar	6. Model Number: Cyclone #2																				
7. Dimensions	 <p style="font-size: small;">Give dimensions of cyclone. (See sample diagram above.)</p> <p>1. B: 12 in. 5. Z: 120 in. 2. H: 48 in. 6. D: 96 in. 3. S: 24 in. 7. A: 36 in. 4. L: 72 in. 8. J: in.</p>		8. Particulate Size Distribution Data																		
	<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th style="width: 30%;">Micron range</th> <th style="width: 30%;">Particle size distribution weight %</th> <th style="width: 40%;">Manufacturer's guaranteed removal efficiency for each micron range</th> </tr> </thead> <tbody> <tr><td>0.5-1.0</td><td></td><td>N/A</td></tr> <tr><td>1.0-5.0</td><td></td><td>N/A</td></tr> <tr><td>5-10</td><td></td><td>N/A</td></tr> <tr><td>10-20</td><td></td><td>N/A</td></tr> <tr><td>Over 20</td><td></td><td>N/A</td></tr> </tbody> </table>	Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range	0.5-1.0		N/A	1.0-5.0		N/A	5-10		N/A	10-20		N/A	Over 20		N/A	9. Type of Cyclone <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry	
Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range																			
0.5-1.0		N/A																			
1.0-5.0		N/A																			
5-10		N/A																			
10-20		N/A																			
Over 20		N/A																			
	10. Type of Cyclone Unit <input checked="" type="checkbox"/> Single <input type="checkbox"/> Quadruple <input type="checkbox"/> Dual <input type="checkbox"/> Multiclone																				
	11. Blower Blower horsepower: 100 hp Design flow rate: 18,500 scfm Draft: <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced																				
12. Design Criteria	Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure																				
13. Pre-Treatment Device	<input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater		14. Post-Treatment Device																		
	<input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other: None																				

Process Stream Characteristics

15. Brief Description of Process	Shavings are collected through Cyclone #7 and Cyclone #2 from the planers and trimmers in the Old Planer Building and are sent pneumatically to Shavings Bin #2 before being hauled off the site.
16. Flow Data	<p>Gas stream temperature: AMBIENT degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>
17. Dust Collection Device	<p><input type="checkbox"/> Pneumatic conveyor <input checked="" type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>
18. Operating Schedule	<p>Normal: 24 hours/day 7 days/week 52 weeks/year</p> <p>Maximum: 24 hours/day 7 days/week 52 weeks/year</p>



Please see instructions on page 3 before filling out the form.

IDENTIFICATION																					
1. Company Name: Tri-Pro Forest Products, Inc.	2. Facility Name: Oldtown Operation	3. Facility ID No.: 017-00006																			
4. Brief Project Description: Conversion of Tier II to PTC in Renewal																					
CYCLONE SEPARATOR INFORMATION																					
Equipment Description																					
5. Manufacturer: Tri-Pro Cedar	6. Model Number: Cyclone #3																				
7. Dimensions	8. Particulate Size Distribution Data																				
<p style="font-size: small;">Give dimensions of cyclone. (See sample diagram above.)</p> <p>1. B: 12 in. 5. Z: 108 in. 2. H: 24 in. 6. D: 72 in. 3. S: 20 in. 7. A: 24 in. 4. L: 48 in. 8. J: in.</p>		<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th style="width: 25%;">Micron range</th> <th style="width: 25%;">Particle size distribution weight %</th> <th style="width: 50%;">Manufacturer's guaranteed removal efficiency for each micron range</th> </tr> </thead> <tbody> <tr><td>0.5-1.0</td><td></td><td>N/A</td></tr> <tr><td>1.0-5.0</td><td></td><td>N/A</td></tr> <tr><td>5-10</td><td></td><td>N/A</td></tr> <tr><td>10-20</td><td></td><td>N/A</td></tr> <tr><td>Over 20</td><td></td><td>N/A</td></tr> </tbody> </table>		Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range	0.5-1.0		N/A	1.0-5.0		N/A	5-10		N/A	10-20		N/A	Over 20		N/A
Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range																			
0.5-1.0		N/A																			
1.0-5.0		N/A																			
5-10		N/A																			
10-20		N/A																			
Over 20		N/A																			
12. Design Criteria		Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure																			
13. Pre-Treatment Device	<input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater		14. Post-Treatment Device																		
		<input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other: None																			

Process Stream Characteristics	
15. Brief Description of Process	The residual from PB3 is collected by Cyclone #3. These join the stream of shavings being sent pneumatically from Cyclone #5 and are altogether routed through Cyclone #4 and deposited in Shavings Bin #1
16. Flow Data	<p>Gas stream temperature: Ambient degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>
17. Dust Collection Device	<p><input checked="" type="checkbox"/> Pneumatic conveyor <input type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>
18. Operating Schedule	<p>Normal: 24 hours/day 7 days/week 52 weeks/year</p> <p>Maximum: 24 hours/day 7 days/week 52 weeks/year</p>



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline: 1-877-5PERMIT

Cyclone Separator - **Form CYS**
 Revision 2
 08/28/08

Please see instructions on page 3 before filling out the form.

IDENTIFICATION																					
1. Company Name: Tri-Pro Forest Products, Inc.	2. Facility Name: Oldtown Operation	3. Facility ID No.: 017-00006																			
4. Brief Project Description: Conversion of Tier II to PTC in Renewal																					
CYCLONE SEPARATOR INFORMATION																					
Equipment Description																					
5. Manufacturer: Tri-Pro Cedar	6. Model Number: Cyclone #4																				
7. Dimensions	8. Particulate Size Distribution Data																				
<p style="text-align: center;">Give dimensions of cyclone. (See sample diagram above.)</p> <p>1. B: 30 in. 5. Z: 216 in. 2. H: 48 in. 6. D: 144 in. 3. S: 48 in. 7. A: 72 in. 4. L: 120 in. 8. J: in.</p>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Micron range</th> <th style="width: 30%;">Particle size distribution weight %</th> <th style="width: 40%;">Manufacturer's guaranteed removal efficiency for each micron range</th> </tr> </thead> <tbody> <tr><td>0.5-1.0</td><td></td><td>N/A</td></tr> <tr><td>1.0-5.0</td><td></td><td>N/A</td></tr> <tr><td>5-10</td><td></td><td>N/A</td></tr> <tr><td>10-20</td><td></td><td>N/A</td></tr> <tr><td>Over 20</td><td></td><td>N/A</td></tr> </tbody> </table>		Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range	0.5-1.0		N/A	1.0-5.0		N/A	5-10		N/A	10-20		N/A	Over 20		N/A
Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range																			
0.5-1.0		N/A																			
1.0-5.0		N/A																			
5-10		N/A																			
10-20		N/A																			
Over 20		N/A																			
9. Type of Cyclone		<input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry																			
10. Type of Cyclone Unit		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Quadruple <input type="checkbox"/> Dual <input type="checkbox"/> Multiclone																			
11. Blower		Blower horsepower: 150 hp Design flow rate: 21,000 scfm Draft: <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced																			
12. Design Criteria		Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure																			
13. Pre-Treatment Device		14. Post-Treatment Device																			
<input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater		<input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other: NONE																			

Process Stream Characteristics	
15. Brief Description of Process	Shavings and chips from PB1 and PB3 are collected and separated through Cyclone #5 and Cyclone #3, respectively. The shavings streams from each combine and are routed pneumatically through Cyclone #4 to Shavings Bin #1.
16. Flow Data	<p>Gas stream temperature: AMBIENT degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>
17. Dust Collection Device	<p><input type="checkbox"/> Pneumatic conveyor <input checked="" type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>
18. Operating Schedule	<p>Normal: 24 hours/day 7 days/week 52 weeks/year</p> <p>Maximum: 24 hours/day 7 days/week 52 weeks/year</p>



Please see instructions on page 3 before filling out the form.

IDENTIFICATION																					
1. Company Name: Tri-Pro Forest Products, Inc.	2. Facility Name: Oldtown Operation	3. Facility ID No.: 017-00006																			
4. Brief Project Description: Conversion of Tier II to PTC in Renewal																					
CYCLONE SEPARATOR INFORMATION																					
Equipment Description																					
5. Manufacturer: Tri-Pro Cedar	6. Model Number: Cyclone #6																				
7. Dimensions	8. Particulate Size Distribution Data																				
<p style="font-size: small;">FRONT VIEW TOP VIEW</p>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Micron range</th> <th style="width: 30%;">Particle size distribution weight %</th> <th style="width: 40%;">Manufacturer's guaranteed removal efficiency for each micron range</th> </tr> </thead> <tbody> <tr><td>0.5-1.0</td><td></td><td>N/A</td></tr> <tr><td>1.0-5.0</td><td></td><td>N/A</td></tr> <tr><td>5-10</td><td></td><td>N/A</td></tr> <tr><td>10-20</td><td></td><td>N/A</td></tr> <tr><td>Over 20</td><td></td><td>N/A</td></tr> </tbody> </table>	Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range	0.5-1.0		N/A	1.0-5.0		N/A	5-10		N/A	10-20		N/A	Over 20		N/A	9. Type of Cyclone <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry
Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range																			
0.5-1.0		N/A																			
1.0-5.0		N/A																			
5-10		N/A																			
10-20		N/A																			
Over 20		N/A																			
Give dimensions of cyclone. (See sample diagram above.) 1. B: 12 in. 5. Z: 96 in. 2. H: 30 in. 6. D: 72 in. 3. S: 24 in. 7. A: 24 in. 4. L: 48 in. 8. J: in.		10. Type of Cyclone Unit <input checked="" type="checkbox"/> Single <input type="checkbox"/> Quadruple <input type="checkbox"/> Dual <input type="checkbox"/> Multiclone																			
12. Design Criteria Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure		11. Blower Blower horsepower: 100 hp Design flow rate: 8,000 scfm Draft: <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced																			
13. Pre-Treatment Device <input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater		14. Post-Treatment Device <input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other: None																			

Process Stream Characteristics	
15. Brief Description of Process	Chips from a hog chipper in the Old Planer Building are routed through Cyclone #6 and into the Chip Bin.
16. Flow Data	<p>Gas stream temperature: AMBIENT degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>
17. Dust Collection Device	<p><input type="checkbox"/> Pneumatic conveyor <input checked="" type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>
18. Operating Schedule	<p>Normal: 24 hours/day 7 days/week 52 weeks/year</p> <p>Maximum: 24 hours/day 7 days/week 52 weeks/year</p>



Please see instructions on page 3 before filling out the form.

IDENTIFICATION																				
1. Company Name: Tri-Pro Forest Products, Inc.	2. Facility Name: Oldtown Operation	3. Facility ID No.: 017-00006																		
4. Brief Project Description: Conversion of Tier II to PTC in Renewal																				
CYCLONE SEPARATOR INFORMATION																				
Equipment Description																				
5. Manufacturer: Tri-Pro Cedar	6. Model Number: Cyclone #7																			
7. Dimensions	8. Particulate Size Distribution Data																			
Give dimensions of cyclone. (See sample diagram above.)																				
1. B: 18 in.	5. Z: 72 in.																			
2. H: 36 in.	6. D: 96 in.																			
3. S: 24 in.	7. A: 36 in.																			
4. L: 72 in.	8. J: in.																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Micron range</th> <th style="width: 30%;">Particle size distribution weight %</th> <th style="width: 50%;">Manufacturer's guaranteed removal efficiency for each micron range</th> </tr> </thead> <tbody> <tr><td>0.5-1.0</td><td></td><td>N/A</td></tr> <tr><td>1.0-5.0</td><td></td><td>N/A</td></tr> <tr><td>5-10</td><td></td><td>N/A</td></tr> <tr><td>10-20</td><td></td><td>N/A</td></tr> <tr><td>Over 20</td><td></td><td>N/A</td></tr> </tbody> </table>			Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range	0.5-1.0		N/A	1.0-5.0		N/A	5-10		N/A	10-20		N/A	Over 20		N/A
Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range																		
0.5-1.0		N/A																		
1.0-5.0		N/A																		
5-10		N/A																		
10-20		N/A																		
Over 20		N/A																		
9. Type of Cyclone <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry																				
10. Type of Cyclone Unit <input checked="" type="checkbox"/> Single <input type="checkbox"/> Quadruple <input type="checkbox"/> Dual <input type="checkbox"/> Multiclone																				
11. Blower Blower horsepower: 150 hp Design flow rate: 7,200 scfm Draft: <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced																				
12. Design Criteria Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure																				
13. Pre-Treatment Device <input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater																				
14. Post-Treatment Device <input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other: None																				

Process Stream Characteristics	
15. Brief Description of Process	Shavings are collected through Cyclone #7 and Cyclone #2 from the planers and trimmers in the Old Planer Building and are sent pneumatically to Shavings Bin #2 before being hauled off the site.
16. Flow Data	<p>Gas stream temperature: AMBIENT degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>
17. Dust Collection Device	<p><input type="checkbox"/> Pneumatic conveyor <input checked="" type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>
18. Operating Schedule	<p>Normal: 24 hours/day 7 days/week 52 weeks/year</p> <p>Maximum: 24 hours/day 7 days/week 52 weeks/year</p>



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline: 1-877-5PERMIT

Cyclone Separator - **Form CYS**
 Revision 2
 08/28/08

Please see instructions on page 3 before filling out the form.

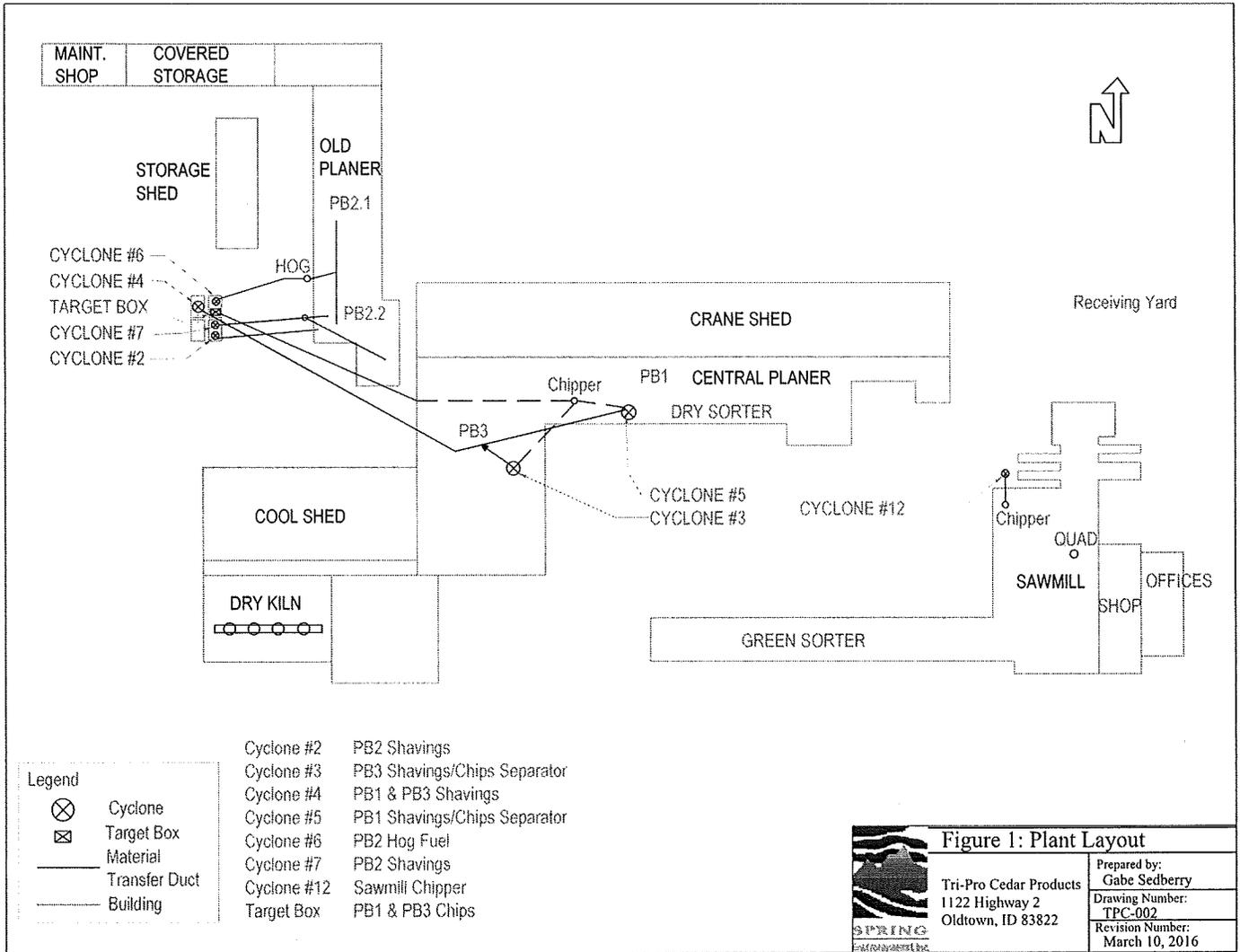
IDENTIFICATION																					
1. Company Name: Tri-Pro Forest Products, Inc.	2. Facility Name: Oldtown Operation	3. Facility ID No.: 017-00006																			
4. Brief Project Description: Conversion of Tier II to PTC in Renewal																					
CYCLONE SEPARATOR INFORMATION																					
Equipment Description																					
5. Manufacturer: Tri-Pro Cedar	6. Model Number: Cyclone #12																				
7. Dimensions	8. Particulate Size Distribution Data																				
<p style="font-size: small;">Give dimensions of cyclone. (See sample diagram above.)</p> <p>1. B: 36 in. 5. Z: 72 in. 2. H: 30 in. 6. D: 72 in. 3. S: 24 in. 7. A: 36 in. 4. L: 48 in. 8. J: in.</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Micron range</th> <th style="width: 25%;">Particle size distribution weight %</th> <th style="width: 50%;">Manufacturer's guaranteed removal efficiency for each micron range</th> </tr> </thead> <tbody> <tr><td>0.5-1.0</td><td></td><td>N/A</td></tr> <tr><td>1.0-5.0</td><td></td><td>N/A</td></tr> <tr><td>5-10</td><td></td><td>N/A</td></tr> <tr><td>10-20</td><td></td><td>N/A</td></tr> <tr><td>Over 20</td><td></td><td>N/A</td></tr> </tbody> </table>		Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range	0.5-1.0		N/A	1.0-5.0		N/A	5-10		N/A	10-20		N/A	Over 20		N/A
Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range																			
0.5-1.0		N/A																			
1.0-5.0		N/A																			
5-10		N/A																			
10-20		N/A																			
Over 20		N/A																			
12. Design Criteria		Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure																			
13. Pre-Treatment Device	<input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater	14. Post-Treatment Device	<input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other: None																		

Process Stream Characteristics	
15. Brief Description of Process	A dust pickup system collects sawdust and hog chips from the Sawmill Building. The pickup system routes the residue through Cyclone #12 and deposits it into trucks to be shipped elsewhere.
16. Flow Data	<p>Gas stream temperature: AMBIENT degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>
17. Dust Collection Device	<p><input type="checkbox"/> Pneumatic conveyor <input type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input checked="" type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>
18. Operating Schedule	<p>Normal: 24 hours/day 7 days/week 52 weeks/year</p> <p>Maximum: 24 hours/day 7 days/week 52 weeks/year</p>

Maximum Potential Emissions								
Pollutant	Propane Boiler	Drying Kilns	Wood Waste	Fugitives	TOTAL		EL	Exceeds?
Criteria	ton/yr				ton/yr			
PM10	0.26	2.05	7.1	1.6	11			
PM2.5	0.26	2.05	7.1	1.6	11			
NOx	4.90	--	--	--	5			
CO	2.83	--	--	--	3			
SO2	0.003	--	--	--	0			
VOC	0.30	16.90	--	--	17			
HAP	lb/yr				ton/yr	lb/hr	lb/hr	Y/N
Acetaldehyde	--	9868.50	--	--	4.93	1.13	0.003	Y
Acrolein	--	124.20	--	--	0.06	0.014	0.017	N
Formaldehyde	--	117.00	--	--	0.06	0.013	0.00051	Y
Methanol	--	9858.15	--	--	4.93	1.13	17.3	N
Propionaldehyde	--	98.55	--	--	0.05	0.011	0.03	N

Total HAPS: 10.03

Note: See Appendix A for detailed emissions calculations.



Legend	
	Cyclone
	Target Box
	Material
	Transfer Duct
	Building

Cyclone #2	PB2 Shavings
Cyclone #3	PB3 Shavings/Chips Separator
Cyclone #4	PB1 & PB3 Shavings
Cyclone #5	PB1 Shavings/Chips Separator
Cyclone #6	PB2 Hog Fuel
Cyclone #7	PB2 Shavings
Cyclone #12	Sawmill Chipper
Target Box	PB1 & PB3 Chips

	Figure 1: Plant Layout	
	Tri-Pro Cedar Products	Prepared by: Gabe Sedberry
	1122 Highway 2	Drawing Number: TPC-002
	Oldtown, ID 83822	Revision Number: March 10, 2016



**IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

**Preapplication Meeting Information
Form FRA (Federal Requirements Applicability) -
Regulatory Review**

In each box in the table below, CTRL+click on the blue underlined text for instructions and information.

IDENTIFICATION	
<p>1. Company Name: Tri-Pro Forest Products, Inc.</p>	<p>2. Facility Name: Oldtown Operation</p>
<p>3. Brief Project Description: Conversion of Tier II to PTC in Renewal</p>	
APPLICABILITY DETERMINATION	
<p>4. List all applicable subparts of the New Source Performance Standards (NSPS) (<u>40 CFR part 60</u>).</p> <p>List all non-applicable subparts of the NSPS which may appear to apply to the facility but do not.</p> <p>Examples of NSPS-affected emissions units include internal combustion engines, boilers, turbines, etc. Applicant must thoroughly review the list of affected emissions units.</p>	<p>List of all applicable subpart(s):</p> <p>List of all non-applicable subpart(s) which may appear to apply but do not:</p> <p><input checked="" type="checkbox"/> Not Applicable</p>
<p>5. List applicable subpart(s) of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) (<u>40 CFR part 61</u> and <u>40 CFR part 63</u>).</p> <p>List all non-applicable subparts of the NESHAP which may appear to apply to the facility but do not.</p> <p>Examples of affected emission units include solvent cleaning operations, industrial cooling towers, paint stripping and miscellaneous surface coating. Reference <u>EPA's webpage on NESHAPs</u> for more information.</p>	<p>List of all applicable subpart(s):</p> <p>List of all non-applicable subpart(s) which may appear to apply but do not: 40 CFR 63 Subpart DDDDD 40 CFR 63 Subpart JJJJJ</p> <p><input checked="" type="checkbox"/> Not Applicable</p>
<p>6. For each subpart identified above, conduct a complete regulatory analysis using the instructions and referencing the example on the following pages.</p> <p>Note - Regulatory reviews must be submitted with sufficient detail so that DEQ can verify applicability and document in legal terms why the regulation does or does not apply. Regulatory reviews submitted with insufficient detail will be determined incomplete.</p>	<p><input checked="" type="checkbox"/> A detailed regulatory review is provided (Follow instructions and example). See Appendix B</p> <p><input type="checkbox"/> DEQ has already been provided a detailed regulatory review. Give a reference to the document including the date.</p>

APPENDIX A
EMISSION INVENTORY

SOURCE - Drying Kilns
Maximum Potential Emissions (including controls)

Production: 90,000,000 BF/yr

Pollutant Criteria	Emission Factor ^{1,2} (lb/1000 BF)	Emission Estimate (BF/yr)	Emission Estimate (ton/yr)	Emission Estimate (lb/hr)	Source
PM	0.05	90,000,000	2.05	0.47	EPA Region 10 Memo
PM10	0.05	90,000,000	2.05	0.47	EPA Region 10 Memo
PM2.5	0.05	90,000,000	2.05	0.47	EPA Region 10 Memo
VOC (as propane)	0.38	90,000,000	16.90	3.86	Oregon DEQ 2014
Toxics		(lb/yr)			
VOC (as propane)	0.38	90,000,000	33791	3.86	Oregon DEQ 2014
Acetaldehyde	0.11	90,000,000	9869	1.13	Oregon DEQ 2013
Acrolein	0.0014	90,000,000	124	0.01	Oregon DEQ 2014
Formaldehyde	0.0013	90,000,000	117	0.01	Oregon DEQ 2014
Methanol	0.11	90,000,000	9858	1.13	Oregon DEQ 2014
Propionaldehyde	0.0011	90,000,000	99	0.01	Oregon DEQ 2014

Current Application		Emission Factors		
Tri-Pro Forest Distribution:	%	85.0	15.0	100
Pollutant	Units	West. Cedar	Douglas Fir	Tri-Pro Cedar
PM ^{1,3}	lb/1000 BF	0.05	0.02	0.05
VOC (as propane) ²	lb/1000 BF	0.31	0.77	0.38
Acetaldehyde ²	lb/1000 BF	0.12	0.05	0.11
Acrolein ²	lb/1000 BF	0.0015	0.0007	0.0014
Formaldehyde ²	lb/1000 BF	0.0013	0.0013	0.0013
Methanol ²	lb/1000 BF	0.12	0.04	0.11
Propionaldehyde ²	lb/1000 BF	0.0012	0.0005	0.0011

Notes:

1. Emission factor from EPA Region 10 memorandum regarding PM PTE EF for activities at sawmills located in PNW Indian Country, issued 5/8/2014
2. Emission factors from ODEQ - Final Summary of Kiln HAP and VOC Emission Factors revised August 2014
3. EF for particulate is the same for PM, PM₁₀, and PM_{2.5}

SOURCE - Propane Boiler

Maximum Potential Emissions (including controls)

Maximum Design Cap 7.87 MMBtu/hr
Propane Heating Value 91.5 MMBtu/1000 gal (per AP-42, Chap 1.5, July 2008)

Operating Hours: 8760 hrs
Propane Fuel Burned: 753,456 gal/yr
68,941 MMBtu/yr

Pollutant	Category	Emission Estimate	Emission Estimate (ton/yr)	Emission Estimate (lb/hr)	Source
PM	Criteria	0.7	0.26	0.06	AP-42 Factor
PM10	Criteria	0.7	0.26	0.06	AP-42 Factor
PM2.5	Criteria	0.7	0.26	0.06	Assume = PM10
NOx	Criteria	13	4.90	1.12	AP-42 Factor
CO	Criteria	7.5	2.83	0.65	AP-42 Factor
SO2	Criteria	0.008	0.003	0.001	AP-42 Factor ¹
VOC (= TOC - CH4)	Criteria	0.8	0.30	0.07	AP-42 Factor

Note:

1. AP-42 factor is a product of $EF=0.10S$ where S is the sulfur concentration in $gr/100ft^3$. Sulfur concentration of 15 ppm (mass) per local commercial propane supplier.

SOURCE - Wood Waste System
Maximum Potential Emissions (including controls)

DEQ#2 - Planer Building #2, Planer #2 Shavings Cyclone

Emission Rate Potential (ERP)=	(Facility Production byproduct = Shavings & Sawdust)*(Cyclone Emissions)	
	2791 lb PM/yr	1395 lb PM10/yr
	1.4 tons PM/yr	0.70 tons PM10/yr
		0.16 lb PM10/hr

DEQ#3 - Planer Buildings #3 Separating Cyclone

Emission Rate Potential (ERP)=	0 (routes exhaust to DEQ #4)	
	0 lb PM/yr	0 lb PM10/yr
	0.00 tons PM/yr	0.00 tons PM10/yr
		0.00 lb PM10/hr

DEQ#4 - Planer Building #1 and Planer Building #3 Shavings Cyclone

Emission Rate Potential (ERP)=	(Facility Production byproduct = Shavings)*(Cyclone Emissions)	
	10365 lb PM/yr	5183 lb PM10/yr
	5.18 tons PM/yr	2.59 tons PM10/yr
		0.59 lb PM10/hr

DEQ#5 - Planer Building #1 Separating/Chipper Cyclone (no emissions)

Emission Rate Potential (ERP)=	0 (routes exhaust to DEQ #3)	
	0 lb PM/yr	0 lb PM10/yr
	0 tons PM/yr	0.0 tons PM10/yr
		0.00 lb PM10/hr

DEQ#6 - Planer Building #2 Hog Chips Cyclone

Emission Rate Potential (ERP)=	(Facility Production byproduct = Planer Building # 2 Chips)*(Cyclone Emissions)	
	3987 lb PM/yr	1993 lb PM10/yr
	2.0 tons PM/yr	1.00 tons PM10/yr
		0.23 lb PM10/hr

DEQ#7 - Planer Building #2, Planer #1 Shavings Cyclone

Emission Rate Potential (ERP)=	(Facility Production byproduct = Shavings & Sawdust)*(Cyclone Emissions)	
	2791 lb PM/yr	1395 lb PM10/yr
	1.40 tons PM/yr	0.70 tons PM10/yr
		0.16 lb PM10/hr

DEQ#12 - Sawmill Hog Chips/Shavings Cyclone

Emission Rate Potential (ERP)=	(Facility Production byproduct = Sawdust + Sawmill chips)*(Cyclone Emissions)	
	6834 lb PM/yr	3417 lb PM10/yr
	3.42 tons PM/yr	1.71 tons PM10/yr
		0.39 lb PM10/hr

Planer Building #1 and Planer Building #3 Chips Target Box

Emission Rate Potential (ERP)=	(Facility Production byproduct = Planer Chips)*(Target Box Emissions)	
	1481 lb PM/yr	740 lb PM10/yr
	0.74 tons PM/yr	0.37 tons PM10/yr
		0.08 lb PM10/hr

TOTALS: 14.1 tons PM/yr 7.1 tons PM10/yr

7.1 tons PM2.5/yr
(worst-case estimate)

Wood System Parameters	
Assumptions (Tier II Operating Permit 05/24/2006):	
	90 MM bd ft/period throughput
	10% of throughput is chips (annual byproduct from sawmill)
	11% of throughput is chips (annual byproduct from planer #1)
	6% of throughput is chips (annual byproduct from planer #2)
	15% of throughput is shavings (annual byproduct from planer #1)
	8% of throughput is shavings (annual byproduct from planer #2)
Conversion Factors	
	324 Bd ft./ yd ³
	3 lb/Bd ft (wood waste)
Emission Factors (From Oregon DEQ, AQ-EF02 and AQ-EF03, issued 6/26/2003):	
	0.5 lb PM/Ton Cyclone Emissions (Chips, Shavings, Bark, Hogged Fuel)
	0.1 lb PM/Ton Target Box Emissions (Chips, Shavings, Bark, Hogged Fuel)

Fugitive Emissions

Note: Fugitive emissions calculations are based on Idaho DEQ Statement of Basis for Tier 2 permit (T2-020114) issued 09/05/2003

Log Sawing

Production Rate =	270,000 tons logs/year	*Tri-Pro Submittal (12/05/02)
Emission Rate Potential (ERP)=	(Production Rate)*(Sawing Emissions)*(1- Pneumatic Dust Pickup Control Efficiency (99%))	
	945 lb PM/yr	473 lb PM10/yr
	0.47 tons PM/yr	0.24 tons PM10/yr
		0.05 lb PM10/hr

Sawmill Screen

Production Rate =	35,280 tons chips/year	*Tri-Pro Submittal (12/05/02)
Emission Rate Potential (ERP)=	(Production Rate)*(Target Box Emissions)*(1-Building Control Efficiency (90%))	
	353 lb PM/yr	176 lb PM10/yr
	0.18 tons PM/yr	0.09 tons PM10/yr
		0.02 lb PM10/hr

Sawmill Chipper

Production Rate =	35,280 tons chips/year	*Tri-Pro Submittal (12/05/02)
Emission Rate Potential (ERP)=	(Production Rate)*(Sawing Emissions)*(1-Building Control Efficiency (90%))	
	1235 lb PM/yr	617 lb PM10/yr
	0.62 tons PM/yr	0.31 tons PM10/yr
		0.07 lb PM10/hr

Planer Hog

Production Rate =	10,800 tons chips/year	*Tri-Pro Submittal (12/05/02)
Emission Rate Potential (ERP)=	(Production Rate)*(Sawing Emissions)	
	3780 lb PM/yr	1890 lb PM10/yr
	1.89 tons PM/yr	0.95 tons PM10/yr
		0.22 lb PM10/hr

Planer Chipper Screen

Production Rate =	10,800 tons chips/year	*Tri-Pro Submittal (12/05/02)
Emission Rate Potential (ERP)=	(Production Rate)*(Target Box Emissions)*(1-Building Control Efficiency (90%))	
	108 lb PM/yr	54 lb PM10/yr
	0.05 tons PM/yr	0.03 tons PM10/yr
		0.01 lb PM10/hr

TOTALS: 3.2 tons PM/yr 1.6 tons PM10/yr

1.6 tons PM2.5/yr
(worst case estimate)

Wood System Parameters	
Emission Factors (From EPA Region 10 memorandum regarding PM PTE BF for activities at sawmills located in PNW Indian Country, issued 5/8/2014):	
	0.35 lb PM/Ton Logs (Sawing Operations)
	0.2 lb PM10/Ton Logs (Sawing Operations)
Emission Factors (From Oregon DEQ, AQ-EF02 and AQ-EF03, issued 6/26/2003):	
	0.5 lb PM/Ton Cyclone Emissions (Chips, Shavings, Bark, Hogged Fuel)
	0.1 lb PM/Ton Target Box Emissions (Chips, Shavings, Bark, Hogged Fuel)

APPENDIX B
REGULATORY REVIEW

40 CFR 63, SUBPART DDDDD B-1
40 CFR 63, SUBPART JJJJJ B-2

40 CFR 63, Subpart DDDDD
National Emission Standards for Hazardous Air Pollutants for Major Sources:
Industrial, Commercial, and Institutional Boilers and Process Heaters

Does not apply to Tri-Pro Forest Products, Inc., Oldtown Operation.

SOURCE: 76 FR 15664, Mar. 21, 2011, unless otherwise noted.

What This Subpart Covers

§63.7480 What is the purpose of this subpart?

This subpart establishes national emission limitations and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and work practice standards.

*Tri-Pro Forest Products operates a commercial boiler at their Oldtown Facility.
However, Tri-Pro Forest Products is not a major source of HAP.*

§63.7485 Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP, except as specified in §63.7491. For purposes of this subpart, a major source of HAP is as defined in §63.2, except that for oil and natural gas production facilities, a major source of HAP is as defined in §63.7575.

[78 FR 7162, Jan. 31, 2013]

*Tri-Pro Forest Products operates a commercial boiler at their Oldtown Facility.
However, Subpart DDDDD does not apply to the Tri-Pro Forest Products Oldtown Facility because this facility is not a major source of HAP as defined in §63.2.*

40 CFR 63, Subpart JJJJJ
National Emission Standards for Hazardous Air Pollutants for
Industrial, Commercial, and Institutional Boilers Area Sources

Does not apply to Tri-Pro Forest Products, Inc., Oldtown Operation.

SOURCE: 76 FR 15591, Mar. 21, 2011, unless otherwise noted.

What This Subpart Covers

§63.11193 Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195.

Tri-Pro Forest Products may appear to be subject to Subpart JJJJJ because Tri-Pro Forest Products operates an industrial boiler at the Oldtown Facility, which is an area source of hazardous air pollutants.

§63.11194 What is the affected source of this subpart?

(a) This subpart applies to each new, reconstructed, or existing affected source as defined in paragraphs (a)(1) and (2) of this section.

(1) The affected source of this subpart is the collection of all existing industrial, commercial, and institutional boilers within a subcategory, as listed in §63.11200 and defined in §63.11237, located at an area source.

(2) The affected source of this subpart is each new or reconstructed industrial, commercial, or institutional boiler within a subcategory, as listed in §63.11200 and as defined in §63.11237, located at an area source.

(b) An affected source is an existing source if you commenced construction or reconstruction of the affected source on or before June 4, 2010.

(c) An affected source is a new source if you commenced construction of the affected source after June 4, 2010, and the boiler meets the applicability criteria at the time you commence construction.

(d) An affected source is a reconstructed source if the boiler meets the reconstruction criteria as defined in §63.2, you commenced reconstruction after June 4, 2010, and the boiler meets the applicability criteria at the time you commence reconstruction.

(e) An existing dual-fuel fired boiler meeting the definition of gas-fired boiler, as defined in §63.11237, that meets the applicability requirements of this subpart after June 4, 2010 due to a fuel switch from gaseous fuel to solid fossil fuel, biomass, or liquid fuel is considered to be an existing source under this subpart as long as the boiler was designed to accommodate the alternate fuel.

(f) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or part 71 as a result of this subpart. You may, however, be required to obtain a title V permit due to another reason or reasons. *See* 40 CFR 70.3(a) and (b) or 71.3(a) and (b). Notwithstanding the exemption from title V permitting for area sources under this subpart, you must continue to comply with the provisions of this subpart.

[76 FR 15591, Mar. 21, 2011, as amended at 78 FR 7506, Feb. 1, 2013]

Tri-Pro Forest Products operates an existing industrial boiler at the Oldtown Facility since before June 4, 2010, but it is a gas-fired boiler as defined in §63.11237 and is not within a subcategory listed in §63.11200.

§63.11195 Are any boilers not subject to this subpart?

The types of boilers listed in paragraphs (a) through (k) of this section are not subject to this subpart and to any requirements in this subpart.

(a) Any boiler specifically listed as, or included in the definition of, an affected source in another standard(s) under this part.

(b) Any boiler specifically listed as an affected source in another standard(s) established under section 129 of the Clean Air Act.

(c) A boiler required to have a permit under section 3005 of the Solid Waste Disposal Act or covered by subpart EEE of this part (e.g., hazardous waste boilers), unless such units do not combust hazardous waste and combust comparable fuels.

(d) A boiler that is used specifically for research and development. This exemption does not include boilers that solely or primarily provide steam (or heat) to a process or for heating at a research and development facility. This exemption does not prohibit the use of the steam (or heat) generated from the boiler during research and development, however, the boiler must be concurrently and primarily engaged in research and development for the exemption to apply.

(e) A gas-fired boiler as defined in this subpart.

(f) A hot water heater as defined in this subpart.

(g) Any boiler that is used as a control device to comply with another subpart of this part, or part 60, part 61, or part 65 of this chapter provided that at least 50 percent of the average annual heat input during any 3 consecutive calendar years to the boiler is provided by regulated gas streams that are subject to another standard.

(h) Temporary boilers as defined in this subpart.

(i) Residential boilers as defined in this subpart.

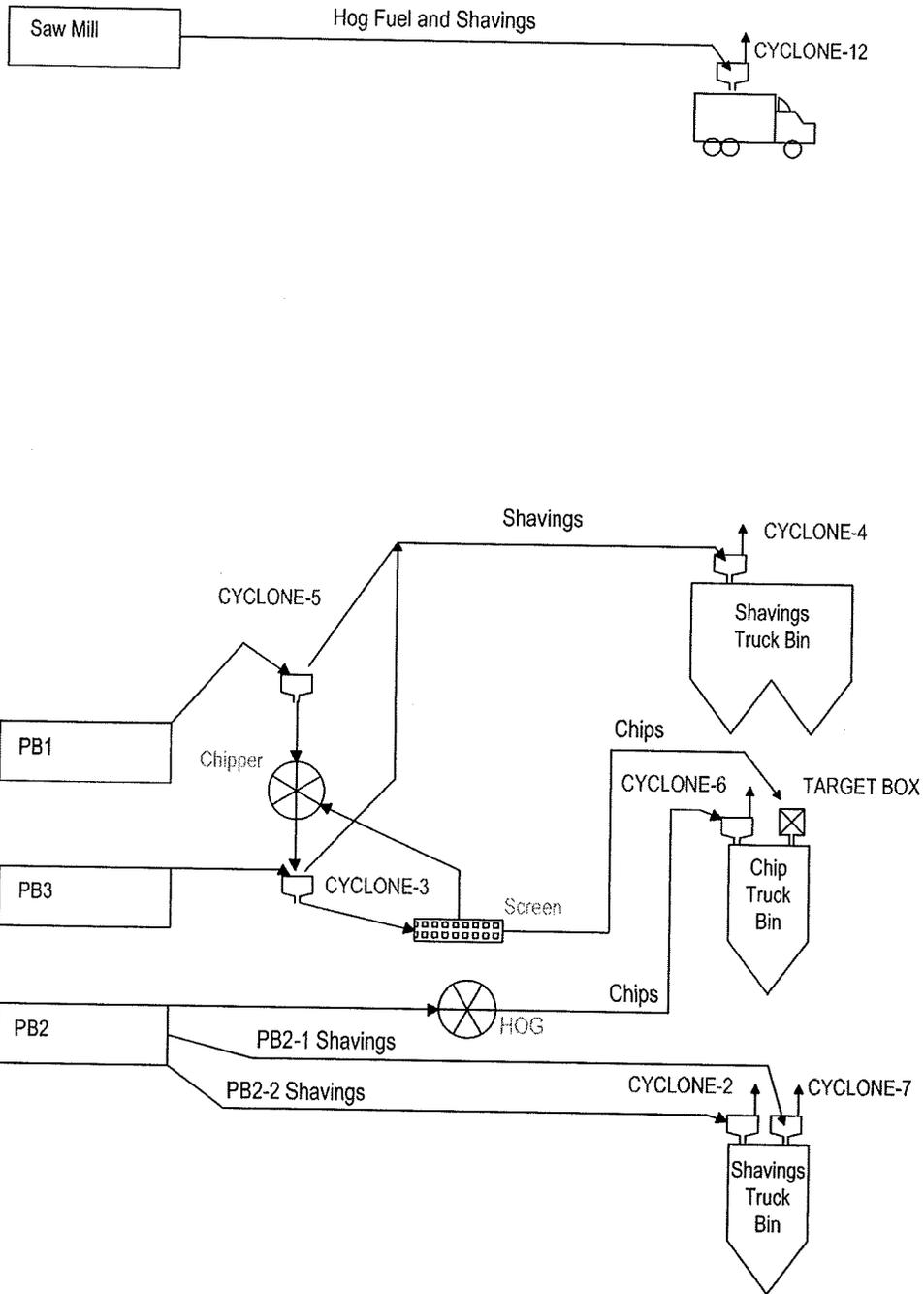
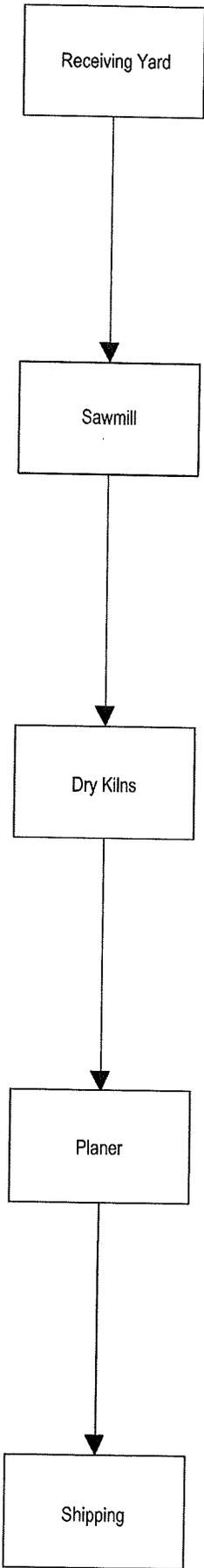
(j) Electric boilers as defined in this subpart.

(k) An electric utility steam generating unit (EGU) covered by subpart UUUUU of this part.

[76 FR 15591, Mar. 21, 2011, as amended at 78 FR 7506, Feb. 1, 2013]

Tri-Pro Forest Products is not subject to Subpart JJJJJ because the industrial boiler it operates at the Oldtown Facility is gas-fired as defined in this subpart.

APPENDIX C
PROCESS FLOW DIAGRAM



Tier II Conversion to PTC
Tri-Pro Forest Products, Inc.



Figure 2: Process Flow Diagram

Tri-Pro Cedar Products
1122 Highway 2
Oldtown, ID 83822

Prepared by:
Gabe Sedberry
Drawing Number:
TPC-002
Revision Number:
October 9, 2015