

**South Carolina**

**Department of Health and Environmental Control**

**Bureau of Air Quality**

Final Determination

for

Grant Allendale, Inc.  
Allendale County, South Carolina

November 25, 2008

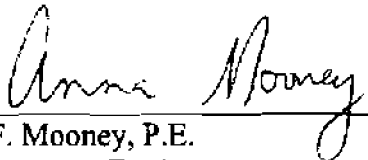
Final Determination

Grant Allendale, Inc.  
Allendale County, South Carolina

This review was performed by the Bureau of Air Quality of the South Carolina Department of Health and Environmental Control in accordance with South Carolina Regulations for the Prevention of Significant Air Quality Deterioration.

November 25, 2008

Reviewed by:

  
\_\_\_\_\_  
Anna F. Mooney, P.E.  
Environmental Engineer  
Bureau of Air Quality

Approved by:

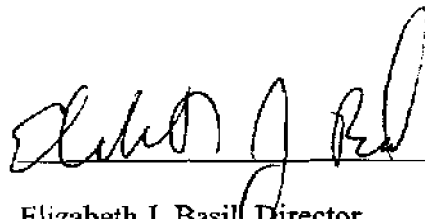
  
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Elizabeth J. Basil, Director  
Engineering Services Division  
Bureau of Air Quality

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Grant Allendale, Inc.  
Allendale County, South Carolina

**I. Time Line (Permitting Action History)**

- |                    |                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| June 22, 2007      | A meeting was held with representatives from Grant – Allendale and the South Carolina Department of Health and Environmental Control (SC DHEC), Bureau of Air Quality (BAQ) to discuss stack test results. Test results showed that emissions were above the permitted limits, and that the facility should be subject to Prevention of Significant Deterioration (PSD). |
| July 11, 2007      | Site Visit to Grant – Allendale                                                                                                                                                                                                                                                                                                                                          |
| July 12, 2007      | A meeting was held with representatives from Grant – Allendale and the South Carolina Department of Health and Environmental Control (SC DHEC), Bureau of Air Quality (BAQ) to discuss PSD application requirements.                                                                                                                                                     |
| August 28, 2007    | A meeting was held with representatives from Grant – Allendale and the South Carolina Department of Health and Environmental Control (SC DHEC), Bureau of Air Quality (BAQ) to discuss PSD application requirements.                                                                                                                                                     |
| September 13, 2007 | A conference call between representatives from Grant – Allendale and the South Carolina Department of Health and Environmental Control (SC DHEC), Bureau of Air Quality (BAQ) was held to discuss the submittal of PSD permit applications.                                                                                                                              |
| November 7, 2007   | South Carolina Department of Health and Environmental Control (SC DHEC), Bureau of Air Quality (BAQ) held an enforcement conference for PSD violations at the Grant – Allendale facility.                                                                                                                                                                                |
| November 27, 2007  | A PSD pre-application meeting was held with representatives from Grant – Allendale and the South Carolina Department of Health and Environmental Control (SC DHEC), Bureau of Air Quality (BAQ).                                                                                                                                                                         |
| December 27, 2007  | SCDHEC received a PSD permit application from Grant Allendale LP.                                                                                                                                                                                                                                                                                                        |
| January 11, 2008   | Received dispersion modeling analysis from Grant – Allendale.                                                                                                                                                                                                                                                                                                            |
| January 14, 2008   | Requested more information regarding best operating practices.                                                                                                                                                                                                                                                                                                           |

January 17, 2008	Email was received from Meredith Bond, Federal Land Manager, stating that Class I modeling is not required.
February 11, 2008	Grant – Allendale submitted a Best Management Practice Plan.
February 26, 2008	Email correspondence from Mr. Tracy Price (BAQ modeling) to John Becherer with comments on the modeling analysis.
February 29, 2008	Additional email correspondence from Mr. Tracy Price (BAQ modeling) to John Becherer with comments on the modeling analysis.
March 12, 2008	Email correspondence from Tony Jabon (Trinity Consultants) to Scott Wilson (BAQ) containing an electronic copy of Grant-Allendale’s permit application.
April 2, 2008	Email correspondence from Anna Mooney (BAQ) to Tony Jabon (Trinity Consultants) requesting emissions information.
April 11, 2008	Email correspondence from Tony Jabon (Trinity Consultants) to Anna Mooney (BAQ) containing emissions information.
May 1, 2008	Draft permit sent to Grant- Allendale for comments via email (Mooney to Griffin).
May 9, 2008	Comments received via email (Overcash to Mooney) from Grant-Allendale regarding draft permit.
May 19, 2008	A meeting was held with representatives from Grant-Allendale and SCDHEC BAQ to discuss facility comments on the draft permit.
May 27, 2008	Email correspondence (Griffin to Mooney) addressing items discussed in the May 19, 2008 meeting.
May 29, 2008	Email correspondence (Griffin to Mooney) addressing questions from Heinz Kaiser (BAQ Air Toxics).
June 6, 2008	Email correspondence (Mooney to Griffin) requesting clarification regarding a request made on May 27, 2008 from Grant-Allendale.
June 10, 2008	Email correspondence (Griffin to Mooney) addressing BAQ comments made on June 6, 2008.
July 3, 2008	Revised draft permit was sent to Grant-Allendale via email

(Mooney to Griffin) for their review.

- July 8, 2008 Email correspondence (Griffin to Mooney) containing Grant-Allendale's comments on the revised draft permit.
- July 30, 2008 Revised draft permit was sent to Grant-Allendale via email (Mooney to Griffin) addressing comments received on July 8, 2008.
- August 1, 2008 Email correspondence (Griffin to Mooney) containing Grant-Allendale's final comments on draft permit.
- August 1, 2008 Email correspondence (Mooney to Griffin) addressing Grant-Allendale's final comments on draft permit.
- August 14, 2008 Draft permit was placed on public notice in *The Allendale Sun*.
- September 11, 2008 Request for public hearing was made.
- October 9, 2008 Public hearing information was placed on public notice in *The Allendale Sun*.
- November 13, 2008 Public hearing held in Allendale to receive comments on draft permit.
- November 25, 2008 PSD Construction Permit and Final Determination issued.

## II. Introduction

Grant Allendale LP (Grant – Allendale) has submitted an application for the operation of an oriented strand board (OSB) manufacturing facility in Allendale County, South Carolina. The proposed maximum OSB production rate is 175 thousand square feet (MSF<sub>3/8</sub>) per hour and 1,200,000 MSF<sub>3/8</sub> per year.

The facility will have three (3) wood-fired furnaces which will supply direct heat to three (3) flake dryers. The two larger furnaces indirectly heat oil for use in a multi-opening press. The two larger furnaces are each rated at 334 million Btu/hr maximum heat input capacity and the third smaller furnace is rated at 197 million Btu/hr maximum heat input capacity. The two larger furnaces will be equipped with staged-combustion and flue-gas recirculation. The third smaller furnace will be equipped with staged-combustion for the control of NO<sub>x</sub>. The wood-fired furnaces, flake dryers, and wood-products press emissions will be routed to six Wet Electrostatic Precipitators (WESPs) and four Regenerative Thermal Oxidizers (RTOs) for control of PM/PM<sub>10</sub>, VOC, CO, and HAP emissions, respectively. The facility is authorized to utilize three (3) or (4) RTOs in order to meet 95% VOC destruction efficiency requirements. Emissions from the furnaces, dryers, press, WESPs, and RTOs are routed to stack IDs H1 and H2.

A Thermal Oil Heater firing natural gas and rated at 75 million Btu/hr heat input capacity will be installed and equipped with low-NO<sub>x</sub> burners for the control of NO<sub>x</sub>.

An OSB wood handling and wood processing system consisting of three (3) Greenend stranders, three (3) Wet flake storage bins, four (4) Dry flake storage bins, a Forming area, a Sanding line, and a Finishing line will be installed. The exhausts from the wood handling and processing system will be routed to eight individual bagfilters for control of PM/PM<sub>10</sub> emissions.

Two paint booths will be installed to coat board edges with a protective finish. These paint booths utilize low VOC and non-HAP coatings and are vented to the interior of the building.

One emergency generator rated at 1,400 hp fired on diesel fuel will be provided for backup power. A 525 HP diesel fire pump will be provided for fire protection.

Tanks will be installed to hold MDI resin for use in the wood-products forming line and press. Tanks will also be installed to hold diesel and gasoline for use in miscellaneous plant equipment and vehicles.

Two Propane Vaporizers will be used to vaporize propane to a usable fuel in the event natural gas is unavailable or economically unattractive.

The facility will install multiple natural gas fired space heaters throughout the plant to be used as needed for comfort heat.

Previously, on September 12, 2005, Grant – Allendale was issued a synthetic minor construction permit (Permit No. 0160-0020-CA). In June 2007, after completing preliminary stack testing, Grant – Allendale determined that the facility is a PSD major source for PM, PM<sub>10</sub>, CO, VOC, SO<sub>2</sub>, and NO<sub>x</sub>. For the purposes of this BACT Analysis, PM<sub>2.5</sub> is considered equivalent to PM<sub>10</sub> for both emissions and control equipment. Table 1 summarizes the facility’s PSD emission rates.

**Table 1: Prevention of Significant Deterioration (PSD) Emission Rates**

<b>POLLUTANT</b>	<b>POTENTIAL EMISSIONS (TONS/YR) <sup>(5)</sup></b>	<b>PSD SIGNIFICANT EMISSION RATE (TONS/YR)</b>	<b>PSD REVIEW REQUIRED? (Yes/ No) <sup>(1)</sup></b>
<b>TSP</b>	310.8	25	Yes <sup>(3)</sup>
<b>PM<sub>10</sub></b>	310.8	15	Yes
<b>SO<sub>2</sub></b>	118.9	40	Yes
<b>NO<sub>x</sub></b>	438.8	40	Yes
<b>CO</b>	1070.6	100	Yes
<b>Ozone</b>	1441.9 <sup>(4)</sup>	(2)	Yes
<b>Lead</b>	0.0091	0.6	No
1) Sources that exceed the significant threshold are required to perform an ambient impact analysis.			
2) Major for VOC’s or NO <sub>x</sub> is considered major for Ozone			
3) Although TSP exceeds the PSD significance level, there is no NAAQS value for comparison. This pollutant is addressed in the Standard 2 modeling analysis.			
4) Emissions listed are for total VOCs.			
5) Rates in this table are facility totals based on controlled emissions. Modeled rates are based on short-term instantaneous rates, which are higher.			

### **III. Final Determination**

On August 13, 2008, the Bureau of Air Quality issued a Preliminary Determination which stated that Grant Allendale, Inc. could be allowed to construct and make the proposed modifications at its facility located in Allendale County, South Carolina, provided certain conditions were met. These conditions were outlined in Draft Construction Permit 0160-0020-CB, included as Appendix E of the Preliminary Determination. On November 13, 2008, the Bureau held a public hearing at the Brandt Agricultural Building in Allendale, South Carolina. Comments received during the hearing are outlined below in Section VI – Comments and Responses. No comments were received from the United States Environmental Protection Agency (EPA) the Federal Land Managers (FLM) during the public comment period.

On November 25, 2008, the BAQ made a final determination that the proposed Grant Allendale, Inc. draft permit may be approved provided the emission limitations and conditions outlined in Construction Permit No. 0160-0020-CB are met. Appendix A of this Final Determination contains a copy of the final issued permit.

## IV. Comments and Responses

During the public comment period, the Bureau of Air Quality received comments from several citizens in Allendale County. Comments made during the public hearing held on November 13, 2008 were all recorded. A transcript of the hearing, as well as all written comments received, will be kept on file. A summary of the comments received and the Bureau's response to those comments is found below.

1. **Noise** – Comments were received during the hearing regarding noise created by the facility. DHEC does not have the authority to regulate or monitor noise. Therefore, DHEC does not have the regulatory authority to consider noise when making permitting decisions. Grant Allendale stated that a land berm planted with trees was created along the property line parallel with US Highway 321 in an effort to provide a visual and noise buffer. Grant Allendale further provided that as the trees grow to maturity, they will provide greater noise reduction effects. Any continuing noise concerns should be directed to Steve Pohl (803-632-5915) at Grant Allendale.
2. **Property Values** - A comment was received regarding the impact that the facility has on neighboring property values. The Department does not have the regulatory authority to consider current or future property values when making permitting decisions. Permitting decisions are made based on compliance with the state and federal air regulations.
3. **Health Concerns** – Concerns were voiced during the hearing regarding issues with burning eyes and one citizen commented on rashes as a result of fumes from chemicals used at the facility.
  - a. *Compliance Demonstrations with Environmental Regulations* - In order to receive an air quality permit, the facility must demonstrate that they are in compliance with air quality standards set by the Environmental Protection Agency (EPA) and DHEC. The Clean Air Act, which was last amended in 1990, requires the EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national ambient air quality standards. Primary standards set limits to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly. Secondary standards set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings. The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards (NAAQS) for six principal pollutants, which are called "criteria" pollutants: particulate matter, nitrogen dioxide, sulfur dioxide, ozone, carbon

monoxide and lead. Grant Allendale has demonstrated through air dispersion computer modeling that it can meet these standards.

The EPA has not set national ambient standards for air toxics. However, South Carolina has set maximum allowable concentrations for air toxics emissions under SC Regulation 61-62.5, Standard 8 - Toxic Air Pollutants. These standards are protective of human health. The facility demonstrated compliance with these maximum allowable concentrations using an air dispersion computer model. These computer models, which are approved by the EPA, use the facility's controlled emission rates, production levels, property lines, and real weather conditions to predict the concentration of pollutants and how the pollutants move through the air. The highest concentrations of pollutants are compared to the state maximum allowable concentrations. In order to receive an air permit, the facility's highest modeled concentrations at the property line and beyond must be at or below the standards. Grant Allendale has demonstrated that it can meet these standards through air dispersion computer modeling. The table below represents the results of the air dispersion modeling analysis. For example, the maximum allowable concentration for arsenic is 1.00 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). The maximum predicted concentration of hydrochloric acid at the Grant Allendale facility is predicted to be 0.00022 ( $\mu\text{g}/\text{m}^3$ ), which is 0.02% of the standard.

Toxic Air Pollutant (TAP)	Standard 8 Maximum Allowable Concentration (MAC) in Micrograms per Cubic Meter ( $\mu\text{g}/\text{m}^3$ )	Grant Allendale Maximum Predicted Concentration (MPC) ( $\mu\text{g}/\text{m}^3$ )	% of Standard (MPC/MAC)
Arsenic	1.00	0.00022	0.02 %
Benzene	150.00	0.05129	0.03 %
Beryllium	0.01	0.00001	0.10 %
Cadmium	0.25	0.00004	0.02 %
Cobalt	0.25	0.00007	0.03 %
Cumene	9.00	0.07527	0.84 %
Hydrochloric Acid	175.00	0.19113	0.11 %
Manganese	25.00	0.01609	0.06 %
Methylene Biphenyl Isocyanate (MDI)	2.00	0.13821	6.91 %
Mercury	0.25	0.00004	0.02 %
Nickel	0.50	0.00033	0.07 %
4-Nitrophenol	<0.005	<0.000005	0.10 %
Phosphorus	0.50	0.00027	0.05 %
2,3,7,8-Tetrachlorodibenzo-p-d	<0.005	<0.000005	0.10 %

The processes at the Grant Allendale facility are subject to Maximum Achievable Control Technology (MACT) Standard (40 CFR 63) Subpart DDDD - National Emission Standards For Hazardous Air Pollutants: Plywood And Composite Wood Products. MACT standards are developed by the EPA as required by the Clean Air Act. The purpose of the MACT standards are to protect health and the environment by reducing hazardous air pollutants (HAPs) at major sources through control technology. Major sources are those that emit more than 10 tons per year of a single HAP and/or 25 tons per year of total HAPs. Subpart DDDD requires the facility to reduce volatile organic compounds (VOC), formaldehyde, or methanol emissions from the dryers and the press by 90%. The facility is required to verify the emissions reduction through source testing. In addition, Subpart DDDD requires the facility to monitor the temperature of the regenerative thermal oxidizer (RTO) control devices to ensure that they are functioning properly. The permit requires the facility to reduce VOC emissions through the RTOs by 95%.

b. *Environmental Releases at the Facility* – Since the beginning of operation, Grant Allendale has had the following incidents at the facility:

- 1) Grant Allendale reported a hydraulic oil leak in March 2007. An estimated 150 gallons of hydraulic fluid leaked from a broken pipe onto an asphalt surface. The oil was absorbed by dry wood fines and disposed of in the furnace. The leak and cleanup were reported to DHEC.
- 2) In September 2007, approximately 6,000 gallons of ammonia hydroxide were accidentally siphoned from the holding tank into the secondary containment areas. DHEC regional staff was notified, as was the National Response Center and Allendale EMS.
- 3) Four times during 2007, DHEC was notified by Grant Allendale of fires occurring in the dry strand storage area (3x) and dryer cyclone (1x) of the mill.

Grant Allendale followed the proper regulatory requirements for notification for each event.

c. *Recurrence of Symptoms* – Any time that adverse health affects, such as burning eyes and rashes, occur please contact the following:

- 1) DHEC Region 5 Aiken EQC Office – The staff at the regional office will assist you with any concerns or complaints that you have regarding the facility.

DHEC Region 5 Aiken EQC Office

206 Beaufort Street, NE

Aiken, SC 29801

(803) 641-7670

- 2) Your Physician - Any adverse health affects that are experienced should be evaluated, documented, and treated by your physician.
  - 3) Grant Allendale – The facility encourages the public to contact them directly with any concerns. The facility environmental contact, Steve Pohl, may be contacted at (803) 632-5915, or you may call the main switchboard number at (803) 632-5900.
4. **Supporters** - DHEC received verbal comments and written comments supporting the issuance of a permit for this facility. Title 48 of the SC Code of Laws, Section 48-1-100, states that “If, after appropriate public comment procedures, as defined by Department regulations, the Department finds that the discharge from the proposed outlet or source will not be in contravention of provisions of this chapter, a permit to construct and a permit to discharge must be issued to the applicant.” The Department cannot make permitting decisions based on community approval or disapproval of the company/facility.

**Appendix A**

**PSD Construction Permit 0160-0020-CB**

BOARD:

Paul C. Aughtry, III  
Chairman

Edwin H. Cooper, III  
Vice Chairman

Steven G. Kisner  
Secretary



C. Earl Hunter, Commissioner

*Promoting and protecting the health of the public and the environment*

BOARD:

Henry C. Scott

M. David Mitchell, MD

Glenn A. McCall

Coleman F. Buckhouse, MD

November 25, 2008

Grant Allendale, Inc.  
PO Box 160, Highway 11  
Earlton, Ontario, Canada POJ 1E0

**ATTENTION:** Ed Griffin

Dear Mr. Griffin:

Enclosed is Construction Permit No. 0160-0020-CB. Please note the conditions on this permit by reading it carefully. Pursuant to the South Carolina Administrative Procedures Act, this permit decision may be appealed in accordance with applicable state law. Please see the enclosed Notice of Appeal Procedure, effective July 01, 2006, for guidelines on appeal submittals.

In addition to this permit to construct, a permit to operate is required in accordance with the Air Pollution Control Regulations and Standards for the State of South Carolina. The regulations require a written request for a new or revised operating permit to cover any new, or altered source, postmarked no later than fifteen (15) days after the actual date of initial startup of each new or altered source unless a more stringent time frame is required.

Please examine this new permit carefully for errors or omissions and notify the appropriate staff member, Anna Mooney, (803-898-4304) or e-mail at [mooneyaf@dhec.sc.gov](mailto:mooneyaf@dhec.sc.gov) promptly if any are discovered.

Sincerely,

Elizabeth J. Basil, Director  
Engineering Services Division  
Bureau of Air Quality

EJB:AFM:kal

Enclosures

cc: Air Section Manager, Region 5 Aiken EQC Office  
Mr. Dale Overcash, PE, Trinity Consultants  
Permit File: 0160-0020  
Main File: 0160-0020

**OFFICE OF ENVIRONMENTAL QUALITY CONTROL  
BUREAU OF AIR QUALITY  
PSD CONSTRUCTION PERMIT**

Grant Allendale Inc.  
U.S. Highway 321  
Fairfax, SC 29827

Permission is hereby granted to install the following equipment, listed in Table 1, with associated control devices, listed in Table 2. The listed equipment shall be used for the production of oriented strand board at an increased maximum capacity of 175 MSF<sub>3/8</sub> per hour and 1,200,000 MSF<sub>3/8</sub> per year.

The facility will have three (3) wood-fired furnaces which will supply direct heat to three (3) flake dryers. The two larger furnaces indirectly heat oil for use in a multi-opening press. The two larger furnaces are each rated at 334 million Btu/hr maximum heat input capacity and the third smaller furnace is rated at 197 million Btu/hr maximum heat input capacity. The two larger furnaces will be equipped with staged-combustion and flue-gas recirculation. The third smaller furnace will be equipped with staged-combustion for the control of NO<sub>x</sub>. The wood-fired furnaces, flake dryers, and wood-products press emissions will be routed to six Wet Electrostatic Precipitators (WESPs) and four Regenerative Thermal Oxidizers (RTOs) for control of PM/PM<sub>10</sub>, VOC, CO, and HAP emissions. The facility is authorized to utilize three (3) or (4) RTOs in order to meet 95% VOC destruction efficiency requirements. Emissions from the furnaces, dryers, press, WESPs, and RTOs are routed to stack IDs H1 and H2.

A Thermal Oil Heater firing natural gas and rated at 75 million Btu/hr heat input capacity will be installed and equipped with low-NO<sub>x</sub> burners for the control of NO<sub>x</sub>.

An OSB wood handling and wood processing system consisting of three (3) Greenend stranders, three (3) Wet flake storage bins, four (4) Dry flake storage bins, a Forming area, a Sanding line, and a Finishing line will be installed. The exhausts from the wood handling and processing system will be routed to eight individual bagfilters for control of PM/PM<sub>10</sub> emissions.

Two paint booths will be installed to coat board edges with a protective finish. These paint booths utilize low VOC and non-HAP coatings and are vented to the interior of the building.

One emergency generator rated at 1,400 hp fired on diesel fuel will be provided for backup power. A 525 HP diesel fire pump will be provided for fire protection.

Tanks will be installed to hold MDI resin for use in the wood-products forming line and press. Tanks will also be installed to hold diesel and gasoline for use in miscellaneous plant equipment and vehicles.

Two Propane Vaporizers will be used to vaporize propane to a usable fuel in the event natural gas is unavailable or economically unattractive.

**PERMIT NUMBER:** 0160-0020-CB  
**DATE OF ISSUE:** November 25, 2008  
**FACILITY SIC/NAICS CODES:** 2493/321219

**GRANT ALLENDALE, LP**  
**CONSTRUCTION PERMIT NUMBER: 0160-0020-CB**  
**DATE OF ISSUE: November 25, 2008**  
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The facility will install multiple natural gas fired space heaters throughout the plant to be used as needed for comfort heat.

**Table 1: Emission Units**

<b>Unit ID</b>	<b>Equip. ID</b>	<b>Unit Description</b>	<b>Control Device ID</b>	<b>Stack ID</b>
01	FF1	334x10 <sup>6</sup> BTU/hr Wood Fired Furnace to Heat Flake Dryer & Thermal Oil System	WESP1 and WESP2 RTO 1 to 4	H1&H2
02	FF2	334x10 <sup>6</sup> BTU/hr Wood Fired Furnace to Heat Flake Dryer & Thermal Oil System	WESP3 and WESP4, RTO 1 to 4	H1&H2
03	FF3	197x10 <sup>6</sup> BTU/hr Wood Fired Furnace to Heat Fines Dryer	WESP5, RTO 1 to 4	H1&H2
04	TOH	75x10 <sup>6</sup> BTU/hr Backup Thermal Oil Heater	---	E1
05	DRY1	95,000 lb Oven Dry /hr Rotary Flake Dryer	WESP1 and WESP2, RTO 1 to 4	H1&H2
06	DRY2	95,000 lb Oven Dry /hr Rotary Flake Dryer	WESP3 and WESP4, RTO 1 to 4	H1&H2
07	DRY3	75,000 lb Oven Dry /hr Rotary Fines Dryer	WESP5, RTO 1 to 4	H1&H2
08	PRES	Multi-opening Press	WESP6, FF1 to 3, WESP1 to 5, RTO 1 to 4	H1&H2
09	GRNS1	Flaker # 1	BH02a	D2
09	GRNS2	Flaker # 2	BH02a	D2
09	GRNS3	Flaker # 3	BH02a	D2
09	GRNS4	Hog. c/w Infeed/outfeed	BH02a	D2
09	GRNS5	Dryer Re-Feed System	BH02b	D2
09	GRNS6	Residual Material Handling	BH02b	D2
09	GRNS7	Wet Screen # 1	BH02b	D2
09	GRNS8	Wet Screen # 2	BH02b	D2
09	GRNS9	Wet Screen # 3	BH02b	D2
09	GRNS10	Wet Fines Screen	BH02b	D2
40	---	<b>VOID</b>	---	---
11	SCRN8	Blender # 1 Outfeed	BH03b	D3
11	SCRN9	Blender # 2 Outfeed	BH03b	D3
11	SCRN10	Blender # 3 Outfeed	BH03b	D3
11	SCRN11	Blender # 4 Outfeed	BH03b	D3
11	SCRN12	Fines Blender Outfeed	BH03b	D3
11	FORM1	Forming Bin / Head # 1	BH04a and BH04b	D3
11	FORM2	Forming Bin / Head # 2	BH04a and BH04b	D3
11	FORM2	Forming Bin / Head # 3	BH04a and BH04b	D3
11	FORM4	Forming Bin / Head # 4	BH04a and BH04b	D3
11	FORM5	Forming Bin / Head # 5	BH04a and BH04b	D3

**GRANT ALLENDALE, LP**  
**CONSTRUCTION PERMIT NUMBER: 0160-0020-CB**  
**DATE OF ISSUE: November 25, 2008**  
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Unit ID	Equip. ID	Unit Description	Control Device ID	Stack ID
11	FORM6	Forming Bin / Head # 6	BH04a and BH04b	D3
11	FORM7	Forming Bin Infeed Conveyors	BH04a and BH04b	D3
11	FORM8	Mat Trim Saws	BH04a and BH04b	D3
11	FORM9	FCOS #1	BH04a and BH04b	D3
11	FORM10	FCOS #2	BH04a and BH04b	D3
11	FORM11	Mat Reject System	BH04a and BH04b	D3
12	SCRN1	Dry Fines Screen	BH03a	D3a
12	SCRN1	Dry Fines Screen	BH03a	D3a
12	SCRN2	Dry Bin #1	BH03a	D3a
12	SCRN3	Dry Bin #2	BH03a	D3a
12	SCRN4	Dry Bin #3	BH03a	D3a
12	SCRN6	Fines Dry Bin	BH03a	D3a
12	SCRN7	Fines Dry Screen	BH03a	D3a
12	SCRN13	Weigh Belt #1	BH03b	D3a
12	SCRN14	Weigh Belt #2	BH03b	D3a
12	SCRN15	Weigh Belt #3	BH03b	D3a
13	FINS1	Pretrim Saw	BH01	D1
13	FINS2	Book Saw Trim	BH01	D1
13	FINS3	Tongue & Groove Trim	BH01	D1
13	FINS4	Trim Hog	BH01	D1
13	FINS5	Sander Line	BH01 or BH01a	D1 or D1a
13	FINS6	Laminating Line	BH01 or BH01a	D1 or D1a
14	PB1	Paint Booth/Stencil #1	PBF1	N/A
14	PB2	Paint Booth/Stencil #2	PBF2	N/A
15	PPVP1	Propane Vaporizer (3.0 million BTU/hr – Fuel vaporizer)	---	PPVP1
15	PPVP2	Propane Vaporizer (5.0 million BTU/hr – RTO backup)	---	PPVP2
16	DFP	525 hp Fire Water Diesel Pump (Back-up)	---	DFPE
17	EMRG1	1,400 hp Diesel Emergency Generator # 1	---	EMRG1E
18	SHTR	Natural Gas Space Heaters (14 Units)	---	SHTRE

**Table 2: Control Devices**

Control Device ID	Stack ID	Control Device Description	Pollutant(s) Controlled	Efficiency Capture (%)	Efficiency Removal (%)
RTO1	H1	18x10 <sup>6</sup> BTU/hr Regenerative Thermal Oxidizer	VOC CO	100 100	95 75
RTO2	H1	18x10 <sup>6</sup> BTU/hr Regenerative Thermal Oxidizer	VOC CO	100 100	95 75
RTO3	H2	18x10 <sup>6</sup> BTU/hr Regenerative Thermal Oxidizer	VOC CO	100 100	95 75

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Control Device ID	Stack ID	Control Device Description	Pollutant(s) Controlled	Efficiency Capture (%)	Efficiency Removal (%)
RTO4	H2	18x10 <sup>6</sup> BTU/hr Regenerative Thermal Oxidizer	VOC CO	100 100	95 75
WESP1	H1&H2	Wet Electrostatic Precipitator	PM/PM <sub>10</sub>	100	97
WESP2	H1&H2	Wet Electrostatic Precipitator	PM/PM <sub>10</sub>	100	97
WESP3	H1&H2	Wet Electrostatic Precipitator	PM/PM <sub>10</sub>	100	97
WESP4	H1&H2	Wet Electrostatic Precipitator	PM/PM <sub>10</sub>	100	97
WESP5	H1&H2	Wet Electrostatic Precipitator	PM/PM <sub>10</sub>	100	97
WESP6	H1&H2	Wet Electrostatic Precipitator	PM/PM <sub>10</sub>	100	97
BH02a	D2	Green End Baghouse	PM/PM <sub>10</sub>	100	99.9
BH02b	D2	Green End Baghouse	PM/PM <sub>10</sub>	100	99.9
BH03b	D3	Forming and Blending Baghouse	PM/PM <sub>10</sub>	100	99.9
BH04a	D3	Forming and Blending Baghouse	PM/PM <sub>10</sub>	100	99.9
BH04b	D3	Forming and Blending Baghouse	PM/PM <sub>10</sub>	100	99.9
BH03a	D3a	Screens/Dry Bins/Conveyors Baghouse	PM/PM <sub>10</sub>	100	99.9
BH01	D1	Finishing Line Baghouse	PM/PM <sub>10</sub>	100	99.9
BH01a	D1a	Sander Line Baghouse	PM/PM <sub>10</sub>	100	99.9
PBF1	F1	Filter #1	PM/PM <sub>10</sub>	100	99.6
PBF2	F2	Filter #2	PM/PM <sub>10</sub>	100	99.6

**NOTWITHSTANDING ANY OF THE CONDITIONS LISTED BELOW, NO APPLICABLE LAW, REGULATION, OR STANDARD WILL BE CONTRAVENED.**

**CONDITIONS**

1. All official correspondence, plans, permit application forms, and written statements are an integral part of this permit.
2. The owner/operator shall submit written notification to the Director of the Engineering Services Division of the date construction is commenced, postmarked no later than 30 days after such date, and written notification of the actual date of initial startup of each new or altered source, postmarked within 15 days after such date.
3. Approval to construct shall become invalid if construction is not commenced within 18 months after receipt of such approval, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time frame. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration.
4. The owner or operator shall comply with all terms, conditions, and limitations of this permit.

This is pursuant to the provisions of Section 48-1-110, 1976 *Code of Laws of South Carolina*, as amended, and the *South Carolina Air Quality Control Regulation 61-62.1*, Section II.

**I. STANDARD CONDITIONS**

- A. This permit expressly incorporates all the provisions of *South Carolina Department of Health and Environmental Control Regulation 61-62.1*, Section II, Paragraph J.

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**II. SPECIAL CONDITIONS**

**A. EMISSION LIMITATIONS**

Air pollutant emissions shall not exceed the following:

<b>TABLE 3 - EMISSION LIMITS AND STANDARDS</b>						
<b>Unit ID</b>	<b>Pollutant/Standard</b>	<b>Limit</b>	<b>Reference Method</b>	<b>Regulation</b>	<b>State Only</b>	<b>Condition Number</b>
<b>FACILITY-WIDE CONDITIONS</b>						
Facility-wide	Hazardous Air Pollutants (HAPs)	As specified in the Regulation	N/A	SC 61-62.63; 40CFR63 Subpart DDDD-National Emission Standards For Hazardous Air Pollutants For Plywood and Composite Wood Products and Subpart A	No	1.
Facility-wide	Hazardous Air Pollutants (HAPs)	As specified in the Regulation	N/A	SC 61-62.63 Subpart DDDDD-National Emission Standards For Hazardous Air Pollutants For Industrial, Commercial, and Industrial Boilers and Process Heaters and Subpart A	Yes	2.
Facility-wide	Hazardous Air Pollutants (HAPs)	As specified in the Regulation	N/A	SC 61-62.63 40CFR63 Subpart ZZZZ- National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines and Subpart A	No	3.
Facility-wide	Production Limit	1,200,000 MSF <sub>3/8</sub> /yr; 175 MSF <sub>3/8</sub> /hr	N/A	SC 61-62.5, Standard No. 7	No	4.
Stacks H1&H2 Combined	PM/PM <sub>10</sub>	58.99 lb/hr, 227.35 tpy	5, 202	SC 61-62.5, Standard No. 7	No	5.
Stacks H1&H2 Combined	NO <sub>x</sub>	119.28 lb/hr 408.95 tpy	7E	SC 61-62.5, Standard No. 7	No	5.
Stacks H1&H2 Combined	SO <sub>2</sub>	28.14 lb/hr 117.10 tpy	6C	SC 61-62.5, Standard No. 7	No	5.
Stacks H1&H2 Combined	CO	302.11 lb/hr 1035.79 tpy	10	SC 61-62.5, Standard No. 7	No	5.

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**TABLE 3 - EMISSION LIMITS AND STANDARDS**

Unit ID	Pollutant/ Standard	Limit	Reference Method	Regulation	State Only	Condition Number
Stacks H1&H2 Combined	VOC	116.39 lb/hr 399.04 tpy 95% Reduction Efficiency	25A, NCASI 98.01	SC 61-62.5, Standard No. 7	No	5.
Stacks H1&H2 Combined	VOC	116.39 lb/hr 399.04 tpy 95% Reduction Efficiency	25A, NCASI 98.01	SC 61-62.5 Std. 5.1 BACT	Yes	6.
<b>Unit ID 01 – 334x10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Flake Dryer &amp; Thermal Oil System</b>						
<b>Unit ID 02 – 334x10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Flake Dryer &amp; Thermal Oil System</b>						
01 02	Opacity	20%	9	SC 61-62.5, Std 1, I, & 40 CFR 60.43(b)	No	1. 2.
01 02	PM	0.6 lb/10 <sup>6</sup> BTU	5	SC 61-62.5, Std 1, II	No	3.
01 02	PM	0.03 lb/10 <sup>6</sup> BTU	5	40 CFR 60.43b NSPS Db	No	4.
01 02	NSPS	NSPS	N/A	40 CFR 60, Subparts A & Db	No	5.
01 02	SO <sub>2</sub>	3.5 lb/10 <sup>6</sup> BTU	6 or 6c	SC 61-62.5, Std 1, III	No	6.
01 02	Waste Firing Rate	0.06 heat input waste/design heat input of unit	N/A	SC 61-62.5, Std 3 & SC 62.1, Section I	Yes	7.
01 02	Hazardous Air Pollutants (HAPs)	As specified in the Regulation	N/A	40 CFR 63, Subpart DDDD-National Emission Standards For Hazardous Air Pollutants For Plywood and Composite Wood Products and Subpart A	No	8.
<b>Unit ID 03 - 197x10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Fines Dryer</b>						
03	Opacity	20%	9	SC 61-62.5, Std 4, IX	No	1. 2.
03	PM	34.30 lb/hr	5	SC 61-62.5, Std 4, VIII	No	3.
03	Waste Firing Rate	0.06 heat input waste/design heat input of unit	N/A	SC 61-62.5, Std 3 & SC 62.1, Section I	Yes	4.
03	Hazardous Air Pollutants (HAPs)	As specified in the Regulation	N/A	40 CFR 63, Subpart DDDD-National Emission Standards For Hazardous Air Pollutants For Plywood and Composite Wood Products and Subpart A	No	5.
<b>Unit ID 04 - 75x10<sup>6</sup> BTU/hr Backup Thermal Oil Heater</b>						
04	Opacity	20%	9	SC 61-62.5, Std 1, I & 40 CFR 60.43(c)	No	1. 2.
04	PM	0.6 lb/10 <sup>6</sup> BTU	5	SC 61-62.5, Std 1, II	No	3.

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**TABLE 3 - EMISSION LIMITS AND STANDARDS**

Unit ID	Pollutant/Standard	Limit	Reference Method	Regulation	State Only	Condition Number
04	PM	0.03 lb/10 <sup>6</sup> BTU	5	40 CFR 60.43b NSPS Dc	No	4.
04	SO <sub>2</sub>	3.5 lb/10 <sup>6</sup> BTU	6 or 6c	SC 61-62.5, Std 1, III	No	5.
04	NSPS	NSPS	N/A	40 CFR 60, Subparts A & Dc	No	6.
04	PM/PM <sub>10</sub>	0.54 lb/hr 2.38 tpy	5, 202	SC 61-62.5, Standard No. 7	No	7.
04	NO <sub>x</sub>	3.57 lb/hr 15.64 tpy	7E	SC 61-62.5, Standard No. 7	No	7.
04	SO <sub>2</sub>	0.04 lb/hr 0.19 tpy	6C	SC 61-62.5, Standard No. 7	No	7.
04	CO	6.00 lb/hr 26.28 tpy	10	SC 61-62.5, Standard No. 7	No	7.
04	VOC	0.39 lb/hr 1.72 tpy	25A, NCASI 98.01	SC 61-62.5, Standard No. 7	No	7.
<b>Unit ID 05 - 95,000 lb Oven Dry /hr Rotary Flake Dryer Unit ID 06 - 95,000 lb Oven Dry /hr Rotary Flake Dryer Unit ID 07 - 75,000 lb Oven Dry /hr Rotary Fines Dryer</b>						
05 06 07	Opacity	20%	9	SC 61-62.5, Std 4, IX	No	1.
05 06 07	PM	52.9 lb/hr	5	SC 61-62.5, Std 4, VIII	No	2
05 06 07	Hazardous Air Pollutants (HAPs)	As specified in the Regulation	N/A	40 CFR 63, Subpart DDDD-National Emission Standards For Hazardous Air Pollutants For Plywood and Composite Wood Products and Subpart A	No	3.
05 06 07	VOC, Formaldehyde or Methanol	Reduced by 90%	25A or NCASI CI/WP-98.01	40CFR63, Subpart DDDD, Table 1B,(3)	No	4.
<b>18x10<sup>6</sup> BTU/hr Regenerative Thermal Oxidizers 1 to 4</b>						
RTO1 to 4	Opacity	20%	9	SC 61-62.5, Std 3, Sec. III, I, 1	Yes	1. 2.
RTO1 to 4	PM	0.5 lb/10 <sup>6</sup> BTU total heat input	5	SC 61-62.5, Std 3, Sec. III, I, 2	Yes	3.
RTO1 to 4	Heat Input	144,000x10 <sup>6</sup> BTU/yr	N/A	SC 61-62.5, Standard No. 7	No	4.
<b>Unit ID 08 - Multi-opening Press</b>						
08	Opacity	20%	9	SC 61-62.5, Std 4, IX	No	1.
08	PM	52.9	5	SC 61-62.5, Std 4, VIII	No	2.

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**TABLE 3 - EMISSION LIMITS AND STANDARDS**

Unit ID	Pollutant/Standard	Limit	Reference Method	Regulation	State Only	Condition Number
08	Hazardous Air Pollutants (HAPs)	As specified in the Regulation	N/A	40 CFR 63, Subpart DDDD-National Emission Standards For Hazardous Air Pollutants For Plywood and Composite Wood Products and Subpart A	No	3.
08	VOC, Formaldehyde or Methanol	Reduced by 90%	25A or NCASI CI/WP-98.01	40CFR63, Subpart DDDD, Table 1B,(3)	No	4.
08	Press Enclosure	100% Capture Efficiency	Wood Products Enclosure Demonstration	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	5.
08	Free HCOH & MeOH in powder and liquid resin	See Condition	N/A	SC 61-62.5, Standard No. 7 SC 61-62.5 Std. 5.1 BACT	No	6.
<b>Unit ID 09 - Baghouse 02a and Baghouse 02b – Stranding</b>						
09	Opacity	20%	9	SC 61-62.5, Std 4, IX	No	1.
09	PM	52.9 lb/hr	5	SC 61-62.5, Std 4, VIII	No	2.
09	PM	10.19 lb/hr 44.63 tpy	5, 202	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	3.
09	VOC	185.81 lb/hr 637.06 tpy	25A & NCASI CI/WP-98.01	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	4.
<b>Unit ID 11 - Baghouse 03b, Baghouse 04a and Baghouse 04b – Forming and Blending</b>						
11	Opacity	20%	9	SC 61-62.5, Std 4, IX	No	1.
11	PM	52.9 lb/hr	5	SC 61-62.5, Std 4, VIII	No	2.
11	PM	3.64 lb/hr 15.93 tpy	5, 202	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	3.
11	VOC	79.78 lb/hr 273.53 tpy	25A & NCASI CI/WP-98.01	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	4.
11	Free HCOH & MeOH in powder and liquid resin	See Condition	N/A	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	6.
<b>Unit ID 12 - Baghouse 03a– Screens/Dry Bins/Conveyors</b>						
12	Opacity	20%	9	SC 61-62.5, Std 4, IX	No	1.
12	PM	52.9 lb/hr	5	SC 61-62.5, Std 4, VIII	No	2.
12	PM	1.01 lb/hr 4.44 tpy	5, 202	SC 61-62.5, Std. No. 7	No	3.
12	VOC	6.55 lb/hr 22.47 tpy	25A & NCASI CI/WP-98.01	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	4.

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**TABLE 3 - EMISSION LIMITS AND STANDARDS**

Unit ID	Pollutant/Standard	Limit	Reference Method	Regulation	State Only	Condition Number
12	Free HCOH & MeOH in powder and liquid resin	See Condition	N/A	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	5.
<b>Unit ID 13 - Baghouse 01 and Baghouse 01a- Finishing and Sanding</b>						
13	Opacity	20%	9	SC 61-62.5, Std 4, IX	No	1.
13	PM	52.9 lb/hr	5	SC 61-62.5, Std 4, VIII	No	2.
13	PM	Stack D1: 1.59 lb/hr 6.97 tpy  Stack D1a: 1.87 lb/hr 8.20 tpy	5, 202	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	3.
13	VOC	Stack D1: 5.53 lb/hr 18.97 tpy  Stack D1a: 6.51 lb/hr 22.32 tpy	25A & NCASI CI/WP-98.01	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	4.
13	Free HCOH & MeOH in powder and liquid resin	See Condition	N/A	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	4.
<b>Unit ID 14 -Paint Booths/Stencils</b>						
14	Hazardous Air Pollutants (HAPs)	As specified in the Regulation	N/A	40 CFR 63, Subpart DDDD-National Emission Standards For Hazardous Air Pollutants For Plywood and Composite Wood Products and Subpart A	No	1.
14	Use Non-HAP Coating (HAP content)	Below 0.1% by mass for OSHA & below 1.0% by mass for other HAPs	N/A	40CFR63, Subpart DDDD, Table 3,(5)	No	2.
14	VOC	9.24 lb/hr 40.45 tpy	25A	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	3.
<b>Unit ID 15 – Two Vaporizers</b>						
15	Heat Input	16,000 MMBtu/yr (combined)	N/A	SC 61-62.5, Std. No. 7	No	1.
15	PM/PM <sub>10</sub>	0.04 lb/hr 0.04 tpy	5, 202	SC 61-62.5, Std. No. 7	No	2.
15	NO <sub>x</sub>	1.20 lb/hr 1.20 tpy	7E	SC 61-62.5, Std. No. 7	No	2.

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**TABLE 3 - EMISSION LIMITS AND STANDARDS**

Unit ID	Pollutant/ Standard	Limit	Reference Method	Regulation	State Only	Condition Number
15	SO <sub>2</sub>	0.15 lb/hr 0.15 tpy	6C	SC 61-62.5, Std. No. 7	No	2.
15	CO	0.17 lb/hr 0.17 tpy	10	SC 61-62.5, Std. No. 7	No	2.
15	VOC	0.04 lb/hr 0.04 tpy	25A	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	3.
<b>Unit ID 16 – 525 hp Fire Water Diesel Pump (Back-up)</b>						
16	Hours of Operation	500 hr/yr	N/A	SC 61-62.5, Std. No. 7	No	1.
16	PM/PM <sub>10</sub>	0.41 lb/hr 0.10 tpy	5, 202	SC 61-62.5, Std. No. 7	No	2.
16	NO <sub>x</sub>	5.90 lb/hr 1.47 tpy	7E	SC 61-62.5, Std. No. 7	No	2.
16	SO <sub>2</sub>	0.39 lb/hr 0.10 tpy	6C	SC 61-62.5, Std. No. 7	No	2.
16	CO	1.27 lb/hr 0.32 tpy	10	SC 61-62.5, Std. No. 7	No	2.
16	VOC	0.47 lb/hr 0.12 tpy	25A	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	3.
<b>Unit ID 17 – 1,400 hp Diesel Emergency Generator</b>						
17	Hours of Operation	500 hr/yr	N/A	SC 61-62.5, Std. No. 7	No	1.
17	PM (total)  PM <sub>10</sub> (total)	0.25 lb/hr 0.06 tpy  0.20 lb/hr 0.05 tpy	5, 202	SC 61-62.5, Std. No. 7	No	2.
17	NO <sub>x</sub>	11.41 lb/hr 2.85 tpy	7E	SC 61-62.5, Std. No. 7	No	2.
17	SO <sub>2</sub>	5.40 lb/hr 1.35 tpy	6C	SC 61-62.5, Std. No. 7	No	2.
17	CO	3.03 lb/hr 0.76 tpy	10	SC 61-62.5, Std. No. 7	No	2.
17	VOC	0.32 lb/hr 0.08 tpy	25A	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	3.
<b>Unit ID 18 – 20,890,000 BTU/hr Natural Gas Space Heaters (14 Units)</b>						
18	Fuel	Natural Gas Only	N/A	SC 61-62.5, Std. No. 7	No	1.
18	PM/PM <sub>10</sub>	0.15 lb/hr 0.66 tpy	5, 202	SC 61-62.5, Std. No. 7	No	2.
18	NO <sub>x</sub>	1.99 lb/hr 8.71 tpy	7E	SC 61-62.5, Std. No. 7	No	2.
18	SO <sub>2</sub>	0.01 lb/hr 0.05 tpy	6C	SC 61-62.5, Std. No. 7	No	2.
18	CO	1.67 lb/hr 7.32 tpy	10	SC 61-62.5, Std. No. 7	No	2.

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**TABLE 3 - EMISSION LIMITS AND STANDARDS**

Unit ID	Pollutant/Standard	Limit	Reference Method	Regulation	State Only	Condition Number
18	VOC	0.11 lb/hr 0.48 tpy	25A	SC 61-62.5, Std. No. 7 SC 61-62.5 Std. 5.1 BACT	No	3.

N/A = Not Applicable

The emission limitations listed for each emission unit are based on operation at permitted capacity. Operation at less than permitted capacity must meet emission limits specified in the applicable regulations based on that operating rate. All test methods must be the most recent revisions that are published in the *Code of Federal Regulations*, in accordance with the requirements of SC Regulation 61-62.1, Section IV, Source Test.

**TABLE 4 - MONITORING, RECORD KEEPING, AND REPORTING**

Unit ID	Pollutant/Parameter	Limit	Required Monitoring	Monitoring Frequency	Reporting Frequency	Condition Number
<b>FACILITY-WIDE CONDITIONS</b>						
Facility Wide	Production	1,200,000 MSF <sub>3/8</sub> /yr; 175 MSF <sub>3/8</sub> /hr	Press Production	Monthly	Semi-annual	1. 2.
Facility Wide	See Condition	See Condition	Emission Calculations	Monthly Totals	Semi-annual	2.
Stacks H1&H2 Combined	SSMP	Record Keeping	Record Keeping	Per Occurrence	Semi-annual	3.
Stacks H1&H2 Combined	HAPs (regulated as VOC, Methanol, Formaldehyde)	90% Control Efficiency of either VOC, Methanol, or Formaldehyde	RTO Temperature	Continuous	Semi-annual	4.
Stacks H1&H2 Combined	PM/PM10 NOx CO VOCs	See Condition	Source Test	Every 2 Years	Within 30* days of test completion	5.
Stacks H1&H2 Combined	VOC	Testing Methodology	See Condition	See Condition	See Condition	6.
<b>Unit ID 01 – 334x10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Flake Dryer &amp; Thermal Oil System</b>						
<b>Unit ID 02 – 334x10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Flake Dryer &amp; Thermal Oil System</b>						
01 02	PM	0.6 lb/10 <sup>6</sup> BTU & 0.03 lb/10 <sup>6</sup> BTU	Source Test	Every 2 years	Within 30* days of test completion	1.
01 02	PM	0.6 lb/10 <sup>6</sup> BTU & 0.03 lb/10 <sup>6</sup> BTU	WESP Secondary Voltage Meters	Continuous	Semi-annual	2.

\* In accordance with SC Reg 61-62.1 Section IV.F.1, The owner or operator of a source subject to this Section shall submit a written report of the final source test results to the Department by the close of business on the 30th day following the completion of the test, unless an alternative date has been requested in and approved with the site-specific test plan prior to testing or is otherwise specified in a relevant Federal or State standard.

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**TABLE 4 - MONITORING, RECORD KEEPING, AND REPORTING**

Unit ID	Pollutant/ Parameter	Limit	Required Monitoring	Monitoring Frequency	Reporting Frequency	Condition Number
01 02	Opacity	20%	COMS	Continuous	Semi-annual	3.
01 02	Amount of fuel combusted	Record keeping	Record keeping	Daily	Semi-annual	4.
01 02	SSMP	Record keeping	Record keeping	Per occurrence	Semi-annual	5.
01 02	Waste Firing Rate	0.06	Record Keeping	Monthly	Semi-annual	6.
01 02	Waste Analysis	Record Keeping	Record Keeping	Once	Within 30 days of test completion	6.
<b>Unit ID 03 - 197x10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Fines Dryer</b>						
03	PM	34.3 lb/hr	WESP Secondary Voltage Meters	Continuous	Semi-annual	1.
03	SSMP	Record keeping	Record keeping	Per occurrence	Semi-annual	2.
03	Waste Firing Rate	0.06	Record Keeping	Monthly	Semi-annual	3.
03	Waste Analysis	Record Keeping	Record Keeping	Once	Within 30 days of test completion	3.
<b>Unit ID 04 - 75x10<sup>6</sup> BTU/hr Backup Thermal Oil Heater</b>						
04	Fuel Combusted	Record Keeping	Record Keeping	Monthly	Semi-annual	1.
04	Work Practices	See Condition	See Condition	See Condition	Semi-annual	2.
<b>Unit ID 05 - 95,000 lb Oven Dry /hr Rotary Flake Dryer (DRY1) Unit ID 06 - 95,000 lb Oven Dry /hr Rotary Flake Dryer (DRY2) Unit ID 07 - 75,000 lb Oven Dry /hr Rotary Fines Dryer (DRY3)</b>						
05 06 07	PM	52.9 lb/hr	WESP Secondary Voltage Meters	Continuous	Semi-annual	1.
<b>Wet Electrostatic Precipitators 1 to 6</b>						
WESP1 to 6	Secondary Voltage Meters	See Condition	Record keeping	Continuous	Semi-annual	1.
<b>18x10<sup>6</sup> BTU/hr Regenerative Thermal Oxidizers 1 to 4</b>						
RTO1 to 4	Temperature	Maintain the 3- hour block average firebox temperature above the minimum temperature of 1525°F (established during performance test)	Temperature Record Keeping	Continuous	Semi-annual	1.

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**TABLE 4 - MONITORING, RECORD KEEPING, AND REPORTING**

Unit ID	Pollutant/ Parameter	Limit	Required Monitoring	Monitoring Frequency	Reporting Frequency	Condition Number
RTO1 to 4	Minimum Destruction Efficiency	VOC/HAPs: 95% CO: 75%	Source Test	Every 2 Years	Within 30* days of test completion	2.
RTO1 to 4	Flow Rate	Between 30,000 and 130,000 scfm (each), Less than 390,000 scfm with 3 RTOs, Less than 520,000 scfm with 4 RTOs	Continuous Flow Rate Monitoring	Continuous	Semi-annual	3.
RTO1 to 4	Heat Input	144,000 x 10 <sup>6</sup> Btu/yr propane	Fuel Usage	Monthly	Semi-annual	4.
<b>Unit ID 08 - Multi-opening Press</b>						
08	Capture efficiency of press enclosure	Wood Products Enclosure	Wood Products Enclosure Design Calculations	Initial Demonstration	Prior to Testing	1.
08	PM	52.9 lb/hr	WESP Secondary Voltage Meters	Continuous	Semi-annual	2.
<b>Unit ID 12 - Baghouse 03A – Screens/Dry Bins/Conveyors</b>						
12	Opacity	20%	Visual Inspection	Daily	Semi-annual	1.
12	Pressure Drop	See Condition	Record Keeping	Daily	Semi-annual	2.
12	VOC	6.55 lb/hr 22.47 tpy	Source Test	Every two years	Within 30* days of test completion	3.
12	Free HCOH & MeOH in powder and liquid resin	Analytical Verification Certificate	Record keeping	Per Batch	Semi-annual	4.
<b>Unit ID 09 - Baghouse 02a and 02b – Stranding</b>						
<b>Unit ID 11 - Baghouse 03b, 04a, and 04b – Forming and Blending</b>						
<b>Unit ID 13 - Baghouse 01 and Baghouse 01a – Finishing and Sanding</b>						
09 11 13	Opacity	20%	Visual Inspection	Daily	Semi-annual	1.

\* In accordance with SC Reg 61-62.1 Section IV.F.1, The owner or operator of a source subject to this Section shall submit a written report of the final source test results to the Department by the close of business on the 30th day following the completion of the test, unless an alternative date has been requested in and approved with the site-specific test plan prior to testing or is otherwise specified in a relevant Federal or State standard.

\* In accordance with SC Reg 61-62.1 Section IV.F.1, The owner or operator of a source subject to this Section shall submit a written report of the final source test results to the Department by the close of business on the 30th day following the completion of the test, unless an alternative date has been requested in and approved with the site-specific test plan prior to testing or is otherwise specified in a relevant Federal or State standard.

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**TABLE 4 - MONITORING, RECORD KEEPING, AND REPORTING**

<b>Unit ID</b>	<b>Pollutant/ Parameter</b>	<b>Limit</b>	<b>Required Monitoring</b>	<b>Monitoring Frequency</b>	<b>Reporting Frequency</b>	<b>Condition Number</b>
09 11 13	Pressure Drop	See Condition	Record Keeping	Daily	Semi-annual	2.
09 11 13	VOC	185.81 lb/hr, 637.06 tpy (09) 79.78 lb/hr, 273.53 tpy (11) 6.51 lb/hr, 22.32 tpy (13BH01a) 5.53 lb/hr, 18.97 tpy (13BH01)	Source Test	Every two years	Within 30* days of test completion	3.
09 11 13	Free HCOH & MeOH in powder and liquid resin	Analytical Verification Certificate	Record keeping	Per Batch	Semi-annual	4.
<b>Unit ID 14 -Paint Booths/Stencils</b>						
14	Use Non-HAP Coating (HAP content)	Below 0.1% by mass for OSHA & below 1.0% by mass for other HAPs	Record keeping	Continuous	Notification of Compliance Status & Semi-annual	1.
<b>Unit ID 15 – Two Vaporizers</b>						
15	Heat Input	16,000 x 10 <sup>6</sup> Btu/yr (combined)	Record Keeping	Monthly	Semi-annual	1.
<b>Unit ID 16 – 525 hp Fire Water Diesel Pump (Back-up)</b>						
16	Hours of Operation	500 hr/yr	Record Keeping	Monthly	Semi-annual	1.
16	Work Practices	See Condition	See Condition	See Condition	Semi- Annual	2.
<b>Unit ID 17 – 1,400 hp Diesel Emergency Generator</b>						
17	Hours of Operation	500 hr/yr	Record Keeping	Monthly	Semi-annual	1.
17	Work Practices	See Condition	See Condition	See Condition	Semi- Annual	2.
<b>Unit ID 18 – 20,890,000 BTU/hr Natural Gas Space Heaters (14 Units)</b>						
18	Fuel Combusted	Record Keeping	Record Keeping	Monthly	Semi-annual	1.

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**B. CONTINUOUS MONITORING REQUIREMENTS**

ID	Pollutant	Averaging Time
Stacks H1/H2	Opacity	6-minute integrated average
RTOs	Temperature	Minimum of 1 measurement every 15 minutes with data recorded at least every successive 60 minutes

N/A = Not Applicable

**C. SOURCE TEST SCHEDULE**

ID	Pollutant	Frequency	Method
01 02	PM	Every 2 years	5
H1 H2	PM	Every 2 years	5
H1 H2	NOx	Every 2 years	7
H1 H2	CO	Every 2 years	10
H1 H2	VOC	Every 2 years	25A & NCASI CI/WP-98.01
09, 11, 12, 13	VOC	Every 2 years	25A & NCASI CI/WP-98.01

N/A = Not Applicable

**D. ADDITIONAL CONDITIONS**

Condition Number	Conditions
<b>GENERAL CONDITIONS</b>	
1.	The permittee shall pay fees in accordance with SC Regulation 61-30, SC Environmental Protection Fees.
2.	In accordance with SC Regulation 61-62.1 Section II(J), for all sources not required to have continuous emissions monitors, in the event of any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the local Environmental Quality Control (EQC) Regional office within twenty-four (24) hours after the beginning of the occurrence. The permittee shall also submit a written report within thirty (30) days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality (BAQ). The report shall contain as a minimum, the following: the identity of the emission unit and associated equipment where excess emissions occurred, the magnitude of excess emissions, the time and duration of excess emissions, the steps taken to remedy the malfunction and to prevent a recurrence, documentation that control equipment and processes were at all times maintained and operated, to the maximum extent practicable, in a manner that was consistent with good practice for minimizing emissions. Such a report shall in no way serve to excuse, otherwise justify, or in any manner affect any potential liability or enforcement action resulting from the occurrence.

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Condition Number	Conditions
3.	<p>Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in the air dispersion modeling may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment A of this permit. Higher emission rates may be administratively incorporated into Attachment A of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.</p> <p>The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment A, not to exceed the pollutant limitations of this construction permit. Should the facility wish to increase the emission rates listed in Attachment A, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified in this permit condition. This is a State Only enforceable requirement.</p>
4.	These conditions shall not supersede any State or Federal requirements such as National Emission Standards for Hazardous Air Pollutants, unless these conditions would impose a more restrictive limit.
5.	This construction permit was reviewed and issued based on the permit application submitted by the owner/operator. The owner/operator shall obtain any Bureau authorization required under South Carolina Regulation 61-62.1, Section II(A) prior to making modifications not covered under this construction permit.
6.	For sources not yet covered by an effective Title V operating permit, the owner or operator shall submit a written request to the Director of the Engineering Services Division for a new operating permit to cover any new, or altered source, postmarked no later than fifteen (15) days after the actual date of initial startup of each new or altered source. In accordance with SC Regulation 61-62.70.5(a), the owner or operator shall submit a timely and complete Part 70 permit application within 12 months of start up.
7.	The owner/operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department. If construction is certified as provided above, the permittee may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department. If construction is not built as specified in the permit application and associated construction permit(s), the owner/operator must submit to the Director of the Engineering Services Division a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation. Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit.
8.	<p>Unless elsewhere specified within this permit, all records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request.</p> <p>The semiannual periods identified in this permit shall be defined as the following calendar periods: January 1 through June 30 and July 1 through December 31.</p>
<b>FACILITY-WIDE CONDITIONS</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	This facility is subject to the provisions of SC 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and DDDD, Plywood and Composite Wood Products. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted for any specific provisions (40 CFR 63 DDDD).

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2.	This facility is subject to the provisions of SC 61-62.63, National Emission Standards for Hazardous Air Pollutants, Subparts A and DDDDD, Industrial, Commercial, and Industrial Boilers and Process Heaters. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted for any specific provisions.																				
3.	This facility is subject to the provisions of SC 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and ZZZZ, Stationary Reciprocating Internal Combustion Engines. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted for any specific provisions (40 CFR 63 ZZZZ).																				
4.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, the facility shall be limited to a maximum production rate of 1,200,000 MSF <sub>3/8</sub> /yr, based on a 12-month rolling sum. The facility shall be limited to a maximum production rate 175 MSF <sub>3/8</sub> /hr, based on a rolling 24-hr average.																				
5.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, the combined emissions from Stacks H1 and H2 are limited to the following on a 12-month rolling sum:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Pollutant</th> <th colspan="2" style="text-align: center;">Emission Limit</th> </tr> <tr> <th style="text-align: center;">lb/hr</th> <th style="text-align: center;">tpy</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">PM/PM<sub>10</sub></td> <td style="text-align: center;">58.99</td> <td style="text-align: center;">227.35</td> </tr> <tr> <td style="text-align: center;">NO<sub>x</sub></td> <td style="text-align: center;">119.28</td> <td style="text-align: center;">408.95</td> </tr> <tr> <td style="text-align: center;">SO<sub>2</sub></td> <td style="text-align: center;">28.14</td> <td style="text-align: center;">117.10</td> </tr> <tr> <td style="text-align: center;">CO</td> <td style="text-align: center;">302.11</td> <td style="text-align: center;">1035.79</td> </tr> <tr> <td style="text-align: center;">VOC</td> <td style="text-align: center;">116.39</td> <td style="text-align: center;">399.04</td> </tr> </tbody> </table> <p>Stacks H1 and H2 include emissions from the following units: Furnaces (FF1-FF3), Dryers (DRY1-3), Press, Wet Electrostatic Precipitators (WESP 1-6), Regenerative Thermal Oxidizers (RTO 1 – RTO 4). VOC emissions from Stacks H1 and H2 shall be controlled by the Regenerative Thermal Oxidizers with a 95% VOC control efficiency.</p>	Pollutant	Emission Limit		lb/hr	tpy	PM/PM <sub>10</sub>	58.99	227.35	NO <sub>x</sub>	119.28	408.95	SO <sub>2</sub>	28.14	117.10	CO	302.11	1035.79	VOC	116.39	399.04
Pollutant	Emission Limit																				
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VOC	116.39	399.04																			
6	<p>In accordance with SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, the maximum allowable discharge of VOCs resulting from Stacks H1 and H2 is 116.39 lbs/hr.</p> <p>Stacks H1 and H2 include emissions from the following units: Furnaces (FF1-FF3), Dryers (DRY1-3), Press, Wet Electrostatic Precipitators (WESP 1-6), Regenerative Thermal Oxidizers (RTO 1 – RTO 4). VOC emissions from Stacks H1 and H2 shall be controlled by the Regenerative Thermal Oxidizers with a 95% VOC control efficiency.</p>																				
<b>MONITORING RECORDKEEPING AND REPORTING</b>																					
1.	The facility must record the actual production rates monthly and calculate the 12-month rolling sum. The facility must maintain these records on site for a period of at least five (5) years from the date generated. Actual production from the press means the square footage of the final OSB panels on an MSF, 3/8 inch basis. These records shall be made available to Department personnel upon request. Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period.																				

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<b>Condition Number</b>	<b>Conditions</b>
2.	<p>The owner/operator shall maintain production rate records and any other records necessary to determine facility wide PM/PM<sub>10</sub>, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions on a monthly basis, and a twelve month rolling sum shall be calculated for total PM/PM<sub>10</sub>, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions. The maximum production rate shall not exceed 1,200,000 MSF/yr (3/8" basis). These records shall be made available to a Department representative upon request.</p> <p>Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period. An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be included in the initial report. Subsequent submittals of the algorithm and example calculations are unnecessary, unless the method of calculation is found to be unacceptable by the Bureau or if the facility changes the method of calculating emissions and/or changes emission factors.</p>
3.	<p>In order to comply with 40 CFR 63, Subpart DDDD, the facility must develop and implement a written startup, shutdown and malfunction plan (SSMP) according to the provisions of §63.6(e)(3). The facility must maintain a current startup, shutdown, and malfunction plan and must make the plan available upon request for inspection and copying by the Department. A semiannual compliance report must be submitted to the Department containing the information in §63.2281(c) through (g).</p>

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Condition Number	Conditions
4.	<p>The affected sources that are controlled by the RTOs will comply with the add-on control option by meeting the requirements listed in 40CFR63, Subpart DDDD, Table 1B.</p> <p>In order to comply with 40 CFR 63 Subpart DDDD, the combustion temperature in the RTO must be continuously measured and recorded. The temperature monitor shall take a minimum of 1 measurement every 15 minutes with this data recorded at least every successive 15 minutes. The minimum data resolution must be 50°F. Temperature readings shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur.</p> <p>The temperature sensor shall be located in an area that will provide a representative temperature of the RTO combustion zone. The sensor must have a minimum accuracy of 4°F or 0.75 percent of the temperature value, whichever is larger. If a chart recorder is used, it must have a sensitivity with minor divisions not more than 20°F. The facility must perform an electronic calibration at least semiannually according to the procedures in the manufacturer's operating manual. Following the electronic calibration, the facility must conduct a temperature sensor validation check in which a second or redundant temperature sensor placed nearby the process temperature sensor must yield a reading within 30°F of the process temperature sensor's reading. The facility shall conduct calibration and validation checks anytime the sensor exceeds the manufacturer's specified maximum operating range or install a new temperature sensor. At least quarterly, the facility shall inspect all components for integrity and all electrical connections for continuity, oxidation, and galvanic corrosion.</p> <p>At all times, the facility must maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. The facility shall record the results of each inspection, calibration, and validation check.</p> <p>The minimum operating temperature for each RTO, based on source test data, shall be set at 1525°F. A source test will be required to update the minimum operating temperature for the RTOs. RTO monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation below the operational temperature, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five (5) years. Semiannual reports, including all incidences, recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such. These reports shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of each semiannual period.</p>
5.	<p>The permittee shall conduct a PM/PM<sub>10</sub>, NO<sub>x</sub>, CO, and VOC source test within two years of the initial source test date and every two years thereafter at stacks H1 and H2. The Bureau must be notified at least 30 days prior to the performance test so that a Bureau representative may be present. The source tests shall be conducted while the facility is operating at its maximum permitted production rate or under operating conditions which result in the highest emissions. A test protocol including test methodology and procedures shall be approved by the Bureau prior to conducting the performance test. The report of the performance test results shall be submitted to the Manager of the Source Evaluation Section not later than 30 calendar days from the test date (unless an alternative date has been requested in and approved with the site-specific test plan prior to testing), and the results shall be approved by the Bureau. The test methods and procedures used shall be approved EPA test methods as approved by the Department prior to testing as sited in Regulation 62.1, Section IV.</p>

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Condition Number	Conditions
6.	Total VOC emissions shall be based on the Interim VOC Measurement Protocol for the Wood Products Industry published as EPA Method OTM 26. Total VOC's will be measured utilizing EPA Method 25A, and two individual compounds, methanol and formaldehyde, will be measured using NCASI 98.01. Based on OTM 26, the Method 25A results will be adjusted to an "as propane" basis, and corrected by subtracting the FID response for methanol to avoid double counting. The methanol and formaldehyde values "as compound" are added to the corrected Method 25A results.
<b>Unit ID 01 – 334 x 10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Flake Dryer &amp; Thermal Oil System</b> <b>Unit ID 02 – 334 x 10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Flake Dryer &amp; Thermal Oil System</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	<p>A. This unit is subject to SC Regulation 61-62.5, Standard No. 1, Emissions from Fuel Burning Operations. In accordance with Standard No. 1 this source shall not discharge into the ambient air smoke which exceeds an opacity of 20%. The twenty (20) percent opacity limit may be exceeded for sootblowing, but may not be exceeded for more than six (6) minutes in a one hour period nor be exceeded for more than a total of twenty-four (24) minutes in a twenty-four (24) hour period. Emissions caused by sootblowing shall not exceed sixty (60) percent opacity. The opacity standards set forth above do not apply during startup or shutdown. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. The owner/operator shall, for a period of at least five (5) years maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.</p> <p>B. In accordance with 40 CFR 60.43b, this source shall not discharge into the ambient air smoke which exceeds an opacity of 20% except for one six (6) minute period per hour of not more than 27%. The opacity standards set forth above do not apply during startup or shutdown. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. For the opacity standards set forth above to not apply during startup, shutdown, or malfunction the owner/operator shall, for a period of at least five (5) years maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.</p> <p>The owner/operator shall operate this unit in compliance with each regulation.</p>
2.	<p>This source is permitted to burn wood as a primary fuel. In addition, this source is also permitted to burn small quantities of waste generated by the owner/operator (WESP blow down and sludge, degrade boards, blender cleanings, paint booth cleaning, used oil, waste resin, and sump water). This source will also burn press off-gases.</p> <p>The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>
3.	In accordance with SC Regulation 61-62.5, Standard No. 1 – Emissions from Fuel Burning Operations, Section II – Particulate Matter Emissions, the allowable discharge of particulate matter resulting from the fuel burning operations is 0.6 lbs/10 <sup>6</sup> BTU input.

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4.	In accordance with 40 CFR 60.43b – NSPS Subpart Db, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, gas, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels shall cause to be discharged into the atmosphere from that affected facility any gases that contain particulate matter emissions in excess of 13 ng/J (0.030 lb/MMBtu) heat input.
5.	New Source Performance Standard (NSPS 40 CFR 60), Subpart A, General Conditions and Subpart Db, Standards Of Performance For Industrial-Commercial-Institutional Steam Generating Units, for which Construction, Reconstruction or Modification Commenced after June 19, 1984, applies to this source. The permittee shall comply with all applicable parts of Subparts A and Db.
6.	In accordance with SC Regulation 61-62.5, Standard No. 1 – Emissions from Fuel Burning Operations, Section III – Sulfur Dioxide Emissions, the maximum allowable discharge of SO <sub>2</sub> resulting from the fuel burning operations is 3.5 lbs/10 <sup>6</sup> BTU input.
7.	In accordance with SC Regulation 61-62.5, Standard No. 3, Section III.J. 6, the waste firing rate for each unit is limited to 0.06. The waste firing rate is defined as the ratio of the heat input of the waste per the design heat input of the unit.
8.	This unit is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and DDDD, Plywood and Composite Wood Products. New affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted for any specific provisions (40 CFR 63 DDDD).
<b>MONITORING RECORDKEEPING AND REPORTING</b>	
1.	This unit is subject to the periodic testing and source test regulatory requirements listed in SC Regulation 62.5, Standard No. 1, Section VI. Periodic testing shall be conducted for PM emissions within two years of the initial source test date and every two years thereafter. The Bureau must be notified at least 30 days prior to the performance test so that a Bureau representative may be present. The source tests shall be conducted while the facility is operating at its maximum permitted production rate or under operating conditions which result in the highest emissions. A test protocol including test methodology and procedures shall be approved by the Bureau prior to conducting the performance test. The report of the performance test results shall be submitted to the Manager of the Source Evaluation Section not later than 30 calendar days from the test date (unless an alternative date has been requested in and approved with the site-specific test plan prior to testing), and the results shall be approved by the Bureau. The test methods and procedures used shall be approved EPA test methods as approved by the Department prior to testing as sited in Regulation 62.1, Section IV.

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Condition Number	Conditions
2.	<p>The owner/operator shall install, operate and maintain secondary voltage meters on each WESP. All monitoring gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Gage readings shall be recorded each shift during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p> <p>The operating ranges may be updated using this procedure, following Bureau approval. WESP monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring WESP performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.</p>
3.	<p>As per 40 CFR 60.48b – Emission Monitoring For Particulate Matter, the owner or operator of an affected facility combusting wood that is subject to the opacity standards under 60.43b shall install, calibrate, maintain, and operate a COMS for measuring the opacity of the emissions discharged to the atmosphere and record the output of the system.</p> <p>All COMS for measuring opacity shall be operated in accordance with the applicable procedures under Performance Specification 1 (appendix B). The span value of the opacity COMS shall be between 60 and 80 percent. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p>
4.	<p>As per 40 CFR 60.49b – Reporting And Recordkeeping Requirements, the owner or operator shall record and maintain records of the amounts and types of each fuel combusted by this source. The amount and type of fuel combusted shall be recorded daily, and maintained on site for a period of at least five (5) years from the date generated. The reporting period for the reports required under this condition is each semiannual period. All reports shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality and shall be postmarked by the 30<sup>th</sup> day following the end of the reporting period.</p>
5.	<p>In order to comply with 40 CFR 63, Subpart DDDD, the facility must develop and implement a written startup, shutdown and malfunction plan (SSMP) according to the provisions of §63.6(e)(3) for this unit. The facility must maintain a current startup, shutdown, and malfunction plan and must make the plan available upon request for inspection and copying by the Department. A semiannual compliance report must be submitted to the Department containing the information in §63.2281(c) through (g).</p>

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Condition Number	Conditions
6.	<p>The furnaces have been granted an exemption from SC Regulation 61-62.5, Standard 3 for sources burning small quantities of waste that is generated by the owner/operator as allowed by SC Regulation 61-62.5, Standard 3, Section III Part J (6) and (7). This exemption only covers the waste streams that are permitted and generated on-site. The owner/operator shall maintain a waste analysis on-site for each waste as required by SC Regulation 61-62.5, Standard 3 Section V. The owner/operator shall record monthly waste consumption for each unit. These records shall include the amount of each type of waste burned for each unit separately, the associated waste firing rate and the appropriate calculations showing that the waste firing rate is less than 0.06 as required in the regulation for each furnace. Reports showing the waste firing rate (heat input of waste/design heat input of unit) shall be submitted on a semi-annual basis.</p> <p>Per S. C. Regulation 61-62.5, Standard No.3, Section V, the facility must perform an initial waste analysis within 180 days of startup and submit the results 30 days after the test. Records of the waste analysis must be maintained on-site for a period of at least five (5) years. These records shall be made available to Department personnel upon request.</p> <p>A chemical analysis on a sample of the used oil from this facility for Btu content, specific gravity, % sulfur, flash point, lead, arsenic, cadmium, chromium, nickel, and total halogens shall be conducted to demonstrate the used oil meets requirement for Specification Oil. If no new sources of used oil are added to the used oil stream, then no further analysis will be required. If this facility wishes to add used oil generated on-site from a new source, a new chemical analysis of the used oil must be submitted to the Bureau. Copies of all current chemical analyses shall be kept for the duration of the use of the used oil. If the facility wishes to add used oil generated on-site from a new source, a new chemical analysis of the used oil must be submitted to the Bureau. Consequently, the old chemical analysis must be kept on-site for a period of five (5) years after the implementation date of the new Specification Oil.</p>
<b>Unit ID 03 – 197 x 10<sup>6</sup> BTU/hr Wood Fired Furnace to Heat Fines Dryer</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.
2.	<p>This source is permitted to burn wood as a primary fuel. In addition, this source is also permitted to burn small quantities of waste generated by the owner/operator (WESP sludge, degrade boards, blender cleanings, paint booth cleaning, used oil, waste resin, and sump water). This source will also burn press off-gases.</p> <p>The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>
3.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ( $E = 4.10P^{0.67}$ ) and for process weight rates greater than 30 tons per hour ( $E = 55.0P^{0.11} - 40$ ) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, this unit's allowable particulate matter emission limit is 34.30 lb/hr at its nominal production rating of 23.78 tons per hr.
4.	In accordance with SC Regulation 61-62.5, Standard No. 3, Section III.J. 6, the waste firing rate for each unit is limited to 0.06. The waste firing rate is defined as the ratio of the heat input of the waste per the design heat input of the unit.

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5.	This unit is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and DDDD, Plywood and Composite Wood Products. New affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted for any specific provisions (40 CFR 63 DDDD).
<b>MONITORING RECORDKEEPING AND REPORTING</b>	
1.	<p>The owner/operator shall install, operate and maintain secondary voltage meters on each WESP. All monitoring gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Gage readings shall be recorded each shift during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p> <p>The operating ranges may be updated using this procedure, following Bureau approval. WESP monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring WESP performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.</p>
2.	In order to comply with 40 CFR 63, Subpart DDDD, the facility must develop and implement a written startup, shutdown and malfunction plan (SSMP) according to the provisions of §63.6(e)(3) for this unit. The facility must maintain a current startup, shutdown, and malfunction plan and must make the plan available upon request for inspection and copying by the Department. A semiannual compliance report must be submitted to the Department containing the information in §63.2281(c) through (g).

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Condition Number	Conditions
3.	<p>The furnace has been granted an exemption from SC Regulation 61-62.5, Standard 3 for sources burning small quantities of waste that is generated by the owner/operator as allowed by SC Regulation 61-62.5, Standard 3, Section III Part L (5) and (6). This exemption only covers the waste streams that are permitted and generated on-site. The owner/operator shall maintain a waste analysis on-site for each waste as required by SC Regulation 61-62.5, Standard 3 Section V. The owner/operator shall record monthly waste consumption for each unit. These records shall include the amount of each type of waste burned for each unit separately, the associated waste firing rate and the appropriate calculations showing that the waste firing rate is less than 0.06 as required in the regulation for each furnace. Reports showing the waste firing rate (heat input of waste/design heat input of unit) shall be submitted on a semi-annual basis.</p> <p>Per S. C. Regulation 61-62.5, Standard No.3, Section V, the facility must perform an initial waste analysis within 180 days of startup and submit the results 30 days after the test. Records of the waste analysis must be maintained on-site for a period of at least five (5) years. These records shall be made available to Department personnel upon request.</p> <p>A chemical analysis on a sample of the used oil from this facility for Btu content, specific gravity, % sulfur, flash point, lead, arsenic, cadmium, chromium, nickel, and total halogens shall be conducted to demonstrate the used oil meets requirement for Specification Oil. If no new sources of used oil are added to the used oil stream, then no further analysis will be required. If this facility wishes to add used oil generated on-site from a new source, a new chemical analysis of the used oil must be submitted to the Bureau. Copies of all current chemical analyses shall be kept for the duration of the use of the used oil. If the facility wishes to add used oil generated on-site from a new source, a new chemical analysis of the used oil must be submitted to the Bureau. Consequently, the old chemical analysis must be kept on-site for a period of five (5) years after the implementation date of the new Specification Oil.</p>
<b>Unit ID 04 – 75 x 10<sup>6</sup> BTU/hr Backup Thermal Oil Heater</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	<p>A. In accordance with SC Regulation 61-62.5, Standard No. 1, Emissions from Fuel Burning Operations, This source shall not discharge into the ambient air smoke which exceeds an opacity of 20%. The opacity standards set forth above do not apply during startup or shutdown. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. The owner/operator shall, for a period of at least five (5) years maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.</p> <p>B. In accordance with 40 CFR 60.43c, this source shall not discharge into the ambient air smoke which exceeds an opacity of 20% except for one six (6) minute period per hour of not more than 27%. The opacity standards set forth above do not apply during startup or shutdown. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. For the opacity standards set forth above to not apply during startup, shutdown, or malfunction the owner/operator shall, for a period of at least five (5) years maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.</p> <p>The owner/operator shall operate this unit in compliance with each regulation.</p>
2.	<p>This source is permitted to burn only natural gas as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>

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3.	In accordance with SC Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section II - Particulate Matter Emissions, the allowable discharge of particulate matter resulting from the fuel burning operations is 0.6 lbs/10 <sup>6</sup> BTU input.																				
4.	In accordance with 40 CFR 60.43c – NSPS Subpart Dc, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, gas, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels and has a heat input capacity of 8.7 MW (30 MMBtu/h) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that contain particulate matter emissions in excess of 13 ng/J (0.030 lb/MMBtu) heat input.																				
5.	In accordance with SC Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section III - Sulfur Dioxide Emissions, the maximum allowable discharge of SO <sub>2</sub> resulting from the fuel burning operations is 3.5 lbs/10 <sup>6</sup> BTU input.																				
6.	This source is subject to New Source Performance Standards (NSPS), 40 CFR 60 subparts A and Dc, Small Industrial-Commercial-Institutional Steam Generating Units, as applicable. Compliance with the regulation will be by burning only natural gas for fuel. The use of other fuels will subject this source to additional emission limitations and is prohibited without prior written approval from the Bureau of Air Quality.																				
7.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, the emissions from Stack E1 are limited to the following on a 12-month rolling sum:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Pollutant</th> <th colspan="2" style="text-align: center;">Emission Limit</th> </tr> <tr> <th style="text-align: center;">lb/hr</th> <th style="text-align: center;">tpy</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">PM/PM<sub>10</sub></td> <td style="text-align: center;">0.54</td> <td style="text-align: center;">2.38</td> </tr> <tr> <td style="text-align: center;">NO<sub>x</sub></td> <td style="text-align: center;">3.57</td> <td style="text-align: center;">15.64</td> </tr> <tr> <td style="text-align: center;">SO<sub>2</sub></td> <td style="text-align: center;">0.04</td> <td style="text-align: center;">0.19</td> </tr> <tr> <td style="text-align: center;">CO</td> <td style="text-align: center;">6.00</td> <td style="text-align: center;">26.28</td> </tr> <tr> <td style="text-align: center;">VOC</td> <td style="text-align: center;">0.39</td> <td style="text-align: center;">1.72</td> </tr> </tbody> </table> <p>Stack E1 includes emissions from Unit ID 04 – Thermal Oil Heater.</p>	Pollutant	Emission Limit		lb/hr	tpy	PM/PM <sub>10</sub>	0.54	2.38	NO <sub>x</sub>	3.57	15.64	SO <sub>2</sub>	0.04	0.19	CO	6.00	26.28	VOC	0.39	1.72
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<b>MONITORING RECORDKEEPING AND REPORTING</b>																					
1.	The owner or operator shall record and maintain records of the amounts and types of each fuel combusted by this source. The amount and type of fuel combusted shall be recorded monthly, and maintained on site for a period of at least five (5) years from the date generated. All records shall be made available to Department personnel upon request. Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period.																				

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Condition Number	Conditions
2.	<p>To demonstrate compliance with BACT/LAER for VOCs, the facility shall implement the following work practice standards for the thermal oil heater:</p> <p>Routines for preventative maintenance will be as detailed below based on manufacturer's recommendations.</p> <p style="text-align: center;"><b>Quarterly</b></p> <ol style="list-style-type: none"> <li>1. Inspect flame-sensing devices for condition and cleanliness.</li> <li>2. Check ignition spark electrode operation and check for gap.</li> <li>3. Check fuel supply valves and adjust as needed</li> <li>4. Check air intake on burner for cleanliness.</li> </ol> <p style="text-align: center;"><b>Annually</b></p> <ol style="list-style-type: none"> <li>1. Have a qualified service technician in for a service call.</li> </ol>
<b>Unit ID 05 - 95,000 lb Oven Dry /hr Rotary Flake Dryer</b> <b>Unit ID 06 - 95,000 lb Oven Dry /hr Rotary Flake Dryer</b> <b>Unit ID 07 - 75,000 lb Oven Dry /hr Rotary Fines Dryer</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.
2.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ( $E = 4.10P^{0.67}$ ) and for process weight rates greater than 30 tons per hour ( $E = 55.0P^{0.11} - 40$ ) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, this unit's allowable particulate matter emission limit is 52.9 lb/hr at its nominal production rating of 117.5 tons per hr.
3.	This unit is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and DDDD, Plywood and Composite Wood Products. New affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted for any specific provisions (40 CFR 63 DDDD).
4.	This source will comply with the add-on control option by meeting the requirements listed in 40CFR63, Subpart DDDD, Table 1B.
<b>MONITORING RECORDKEEPING AND REPORTING</b>	

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Condition Number	Conditions
1.	<p>The owner/operator shall install, operate and maintain secondary voltage meters on each WESP. All monitoring gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Gage readings shall be recorded each shift during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau. The operating ranges may be updated using this procedure, following Bureau approval. WESP monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring WESP performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.</p>
<b>Wet Electrostatic Precipitators 1 to 6</b>	
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>	

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Condition Number	Conditions
1.	<p>The owner/operator shall install, operate and maintain secondary voltage meters on each WESP. All monitoring gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Gage readings shall be recorded each shift during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau. The operating ranges may be updated using this procedure, following Bureau approval. WESP monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring WESP performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.</p>
<b>18 x 10<sup>6</sup> BTU/hr Regenerative Thermal Oxidizer</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	In accordance with SC Regulation 61-62.5, Standard No. 3 – Waste Combustion and Reduction, Section III, I – Industrial Incinerators, the allowable opacity resulting from this operation shall not exceed 20%.
2.	This source is permitted to burn only natural gas and propane as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.
3.	In accordance with SC Regulation 61-62.5, Standard No. 3 – Waste Combustion and Reduction, Section III, I – Industrial Incinerators, the allowable discharge of particulate matter resulting from this operation is 0.5 lbs/10 <sup>6</sup> BTU total heat input. The total heat input value from waste and virgin fuel used for production shall not exceed the BTU used to affect the combustion of the waste and shall not include any BTU input from auxiliary burners located outside of the primary combustion chamber such as those found in secondary combustion chambers, tertiary combustion chambers or after burners unless those auxiliary burners are fires with waste. In the case where waste is fired in the auxiliary burners located outside of the primary combustion chamber, only the BTU value of the fuel for the auxiliary burner which is from waste shall be added to the total heat input value.
4.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, this source is limited to a maximum heat input of 144,000 x 10 <sup>6</sup> BTU per year when combusting propane.
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>	

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Condition Number	Conditions
1.	<p>In order to comply with 40CFR63, Subpart DDDD, Table 2(1), each RTO must maintain the 3-hour block average firebox temperature above the minimum temperature established during the performance test. These records shall be made available to Department personnel upon request. Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period.</p> <p>RTOs must demonstrate continuous compliance by collecting and recording the 3-hour block average firebox temperature according to 63.2269(a) through (b) and 63.2270; and reducing the information to the specified averages in units of the applicable requirement according to 63.2270; and maintaining the 3-hour block average firebox temperature at or above the minimum temperature established during the performance test</p> <p>In order to comply with 40CFR63, Subpart DDDD, Table 9(1), a compliance report must be submitted semiannually according to the requirements in 63.2281(b) and the report must contain the information in 63.2281(c) through (g).</p> <p>The minimum RTO temperature to control VOC/HAPs by 95% and CO by 75% must be established by concurrent source test for these pollutants. Independent source testing for VOC/HAPs and CO to establish the minimum temperature is not allowed because the RTOs simultaneously control both pollutants.</p>
2.	<p>The RTOs will have a CO destruction efficiency of 75%. The permittee shall conduct a CO source test within two years of the initial source test date and every two years thereafter to demonstrate the CO destruction efficiency. The 75% CO destruction efficiency and CO emission rate will be demonstrated by testing under the following approved scenarios: four (4) RTOs online and three (3) RTOs online. The use of any other alternate operating scenario for the RTOs will require prior approval by the Department.</p> <p>In accordance with SC Regulation 61-62.5, Standard No. 5.1, the RTOs have been deemed BACT for VOCs with a destruction efficiency of 95%. The permittee shall conduct a VOC source test within two years of the initial source test date and every two years thereafter to demonstrate the VOC destruction efficiency. The 95% VOC destruction efficiency and the VOC emission rate will be demonstrated by testing under the following approved scenarios: four (4) RTOs online and three (3) RTOs on line. The use of any other alternate operating scenario for the RTOs will require prior approval by the Department.</p>

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Condition Number	Conditions
3.	<p>Each RTO flow rate must be between 30,000 and 130,000 scfm. The airflow from the common manifold to the RTOs will be equally distributed among the operating RTOs. The facility shall install, calibrate, maintain and operate a continuous flow rate monitor in Stack H1 and H2. The flow rate monitor shall comply with all of the requirements of EPA method 2. When the operating conditions of the facility require the use of four (4) RTOs, the combined flow rate of the four (4) RTOs shall be less than 520,000 scfm. When the operating conditions of the facility require the use of three (3) RTOs, the combined flow rate of the three (3) RTOs shall be less than 390,000 scfm. When the operating conditions of the facility require to change from operating three (3) RTOs to four (4) RTOs, the off-line RTO's temperature must be above the temperature established during the performance test before the off-line RTO is ducted the over flow gas stream from the manifold.</p> <p>The combined airflow rate from stacks H1 and H2 at which the facility has to commence procedures to change from operating three RTOs to four RTOs shall be derived from stack test data, which demonstrate the proper operation of the RTOs in compliance. The flow rate has been established from stack test data to provide a reasonable assurance of compliance. The facility shall maintain the previously established flow rate for these monitored parameters. The flow rate triggering the operation of the fourth RTO may be updated using this procedure, following Bureau approval.</p> <p>Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring RTO flow rate must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.</p>
4.	<p>This source is limited to a maximum combined propane heat input of <math>144,000 \times 10^6</math> Btu per year on a 12-month rolling basis. The owner/operator must calculate and record the actual heat input monthly based on propane usage. These records shall be maintained on site for a period of at least five (5) years from the date generated. These records shall be made available to a Department representative upon request. Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period.</p>
<b>Unit ID 08 – Multi-opening Press</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	<p>In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p>
2.	<p>In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour (<math>E = 4.10P^{0.67}</math>) and for process weight rates greater than 30 tons per hour (<math>E = 55.0P^{0.11} - 40</math>) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, this unit's allowable particulate matter emission limit is 52.9 lb/hr at its nominal production rating of 117.5 tons per hr.</p>

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Condition Number	Conditions									
3.	This unit is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and DDDD, Plywood and Composite Wood Products. New affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted for any specific provisions (40 CFR 63 DDDD).									
4.	This source will comply with the add-on control option by meeting the requirements listed in 40CFR63, Subpart DDDD, Table 1B.									
5.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, the minimum percent efficiency of the press enclosure is 100%. In order to demonstrate 100% efficiency, the facility must demonstrate that the press enclosure meets the definition of a wood products enclosure, as defined by 40 CFR 63 Subpart DDDD.									
6.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, the maximum free formaldehyde and methanol content in the resin is depicted in the table below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Compound</th> <th style="text-align: center;">Powder Phenolic Resin</th> <th style="text-align: center;">Liquid Phenolic Resin</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Free Formaldehyde (HCOH)</td> <td style="text-align: center;">0.2 %</td> <td style="text-align: center;">0.2 %</td> </tr> <tr> <td style="text-align: center;">Free Methanol (MeOH)</td> <td style="text-align: center;">0.0 %</td> <td style="text-align: center;">0.6%</td> </tr> </tbody> </table> <p>Free formaldehyde and free methanol content in the resin must not be greater than the above limits, as calculated on a quarterly average of actual resin usage.</p>	Compound	Powder Phenolic Resin	Liquid Phenolic Resin	Free Formaldehyde (HCOH)	0.2 %	0.2 %	Free Methanol (MeOH)	0.0 %	0.6%
Compound	Powder Phenolic Resin	Liquid Phenolic Resin								
Free Formaldehyde (HCOH)	0.2 %	0.2 %								
Free Methanol (MeOH)	0.0 %	0.6%								
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>										
1.	In order to comply with 40 CFR 63, Subpart DDDD, Table 4(9) and SC Regulation 61-62.5, Standard No. 5.1, the facility must demonstrate that the press enclosure meets the requirements of a wood products enclosure.									

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Condition Number	Conditions
2.	<p>The owner/operator shall install, operate and maintain secondary voltage meters on each WESP. All monitoring gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Gage readings shall be recorded each shift during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau. The operating ranges may be updated using this procedure, following Bureau approval. WESP monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring WESP performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.</p>
<b>Unit ID 09 - Baghouse 02a and 02b – Stranding</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX – Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.
2.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ( $E = 4.10P^{0.67}$ ) and for process weight rates greater than 30 tons per hour ( $E = 55.0P^{0.11} - 40$ ) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, this unit's allowable particulate matter emission limit is 52.9 lb/hr at its nominal production rating of 117.5 tons per hr.
3.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, particulate matter emissions from Stack D2 are limited to 10.19 lb/hr and 44.63 tpy on a 12-month rolling sum.
4.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC emissions from Stack D2 are limited to 185.81 lb/hr and 637.06 tpy on a 12-month rolling sum.
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>	

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Condition Number	Conditions
1.	The permittee shall perform a visual inspection on a daily basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semiannual reports.
2.	<p>The owner/operator shall install, operate and maintain pressure drop gauge(s) on each module of the baghouse(s). All pressure drop gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Pressure drop readings shall be recorded daily during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Baghouse monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five (5) years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring baghouse performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.</p>
3.	The permittee is required to comply with SC Regulation 61-62.5, Standard 5.1, Section III, Compliance Testing and shall conduct a VOC source test within two years of the initial source test date and every two years thereafter as required by the Department. The Bureau must be notified at least two weeks prior to the performance test so that a Bureau representative may be present. The source tests shall be conducted while the facility is operating at its maximum permitted production rate or under operating conditions which result in the highest emissions. A test protocol including test methodology and procedures shall be approved by the Bureau prior to conducting the performance test. The report of the performance test results shall be submitted to the Manager of the Source Evaluation Section not later than 30 calendar days from the test date (unless an alternative date has been requested in and approved with the site-specific test plan prior to testing), and the results shall be approved by the Bureau. The test methods and procedures used shall be approved EPA test methods as approved by the Department prior to testing as sited in Regulation 62.1, Section IV.
<b>Unit ID 11 - Baghouse 03b, 04a, and 04b – Forming and Blending</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX – Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.

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Condition Number	Conditions									
2.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ( $E = 4.10P^{0.67}$ ) and for process weight rates greater than 30 tons per hour ( $E = 55.0P^{0.11} - 40$ ) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, this unit's allowable particulate matter emission limit is 52.9 lb/hr at its nominal production rating of 117.5 tons per hr.									
3.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, particulate matter emissions from Stack D3 are limited to 3.64 lb/hr and 15.93 tpy on a 12-month rolling sum.									
4.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC emissions from Stack D3 are limited to 79.78 lb/hr and 273.53 tpy on a 12-month rolling sum.									
5.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, the maximum free formaldehyde and methanol content in the resin is depicted in the table below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Compound</th> <th style="text-align: center;">Powder Phenolic Resin</th> <th style="text-align: center;">Liquid Phenolic Resin</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Free Formaldehyde (HCOH)</td> <td style="text-align: center;">0.2 %</td> <td style="text-align: center;">0.2 %</td> </tr> <tr> <td style="text-align: center;">Free Methanol (MeOH)</td> <td style="text-align: center;">0.0 %</td> <td style="text-align: center;">0.6%</td> </tr> </tbody> </table> <p>Free formaldehyde and free methanol content in the resin must not be greater than the above limits, as calculated on a quarterly average of actual resin usage.</p>	Compound	Powder Phenolic Resin	Liquid Phenolic Resin	Free Formaldehyde (HCOH)	0.2 %	0.2 %	Free Methanol (MeOH)	0.0 %	0.6%
Compound	Powder Phenolic Resin	Liquid Phenolic Resin								
Free Formaldehyde (HCOH)	0.2 %	0.2 %								
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<b>MONITORING, RECORD KEEPING, AND REPORTING</b>										
1.	The permittee shall perform a visual inspection on a daily basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semiannual reports.									

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Condition Number	Conditions
2.	<p>The owner/operator shall install, operate and maintain pressure drop gauge(s) on each module of the baghouse(s). All pressure drop gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Pressure drop readings shall be recorded daily during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Baghouse monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five (5) years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring baghouse performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.</p>
3.	<p>The permittee is required to comply with SC Regulation 61-62.5, Standard 5.1, Section III, Compliance Testing and shall conduct a VOC source test within two years of the initial source test date and every two years thereafter, as required by the Department. The Bureau must be notified at least two weeks prior to the performance test so that a Bureau representative may be present. The source tests shall be conducted while the facility is operating at its maximum permitted production rate or under operating conditions which result in the highest emissions. A test protocol including test methodology and procedures shall be approved by the Bureau prior to conducting the performance test. The report of the performance test results shall be submitted to the Manager of the Source Evaluation Section not later than 30 calendar days from the test date (unless an alternative date has been requested in and approved with the site-specific test plan prior to testing), and the results shall be approved by the Bureau. The test methods and procedures used shall be approved EPA test methods as approved by the Department prior to testing as sited in Regulation 62.1, Section IV.</p>
4.	<p>The facility will be required to maintain vendor guarantees demonstrating that the free formaldehyde and methanol for each batch of powder and liquid resin are at or below the maximum percentage proposed by the facility. The records must be maintained for 5 years. Semiannual reports will be required demonstrating compliance with the quarterly average of actual resin usage.</p>
<b>Unit ID 12 - Baghouse 03a – Screens/Dry Bins/Conveyors</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	<p>In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX – Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p>

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Condition Number	Conditions									
2.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ( $E = 4.10P^{0.67}$ ) and for process weight rates greater than 30 tons per hour ( $E = 55.0P^{0.11} - 40$ ) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, this unit's allowable particulate matter emission limit is 52.9 lb/hr at its nominal production rating of 117.5 tons per hr.									
3.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, particulate matter emissions from Stack D3a are limited to 1.01 lb/hr and 4.44 tpy on a 12-month rolling sum.									
4.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC emissions from Stack D3a are limited to 6.55 lb/hr and 22.47 tpy on a 12-month rolling sum.									
5.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, the maximum free formaldehyde and methanol content in the resin is depicted in the table below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Compound</th> <th style="text-align: center;">Powder Phenolic Resin</th> <th style="text-align: center;">Liquid Phenolic Resin</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Free Formaldehyde (HCOH)</td> <td style="text-align: center;">0.2 %</td> <td style="text-align: center;">0.2 %</td> </tr> <tr> <td style="text-align: center;">Free Methanol (MeOH)</td> <td style="text-align: center;">0.0 %</td> <td style="text-align: center;">0.6%</td> </tr> </tbody> </table> <p>Free formaldehyde and free methanol content in the resin must not be greater than the above limits, as calculated on a quarterly average of actual resin usage.</p>	Compound	Powder Phenolic Resin	Liquid Phenolic Resin	Free Formaldehyde (HCOH)	0.2 %	0.2 %	Free Methanol (MeOH)	0.0 %	0.6%
Compound	Powder Phenolic Resin	Liquid Phenolic Resin								
Free Formaldehyde (HCOH)	0.2 %	0.2 %								
Free Methanol (MeOH)	0.0 %	0.6%								
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>										
1.	The permittee shall perform a visual inspection on a daily basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semiannual reports.									

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Condition Number	Conditions
2.	<p>The owner/operator shall install, operate and maintain pressure drop gauge(s) on each module of the baghouse(s). All pressure drop gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Pressure drop readings shall be recorded daily during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Baghouse monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five (5) years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring baghouse performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.</p>
3.	<p>The permittee is required to comply with SC Regulation 61-62.5, Standard 5.1, Section III, Compliance Testing and shall conduct a pre-controlled VOC source test within two years of the initial source test date and every two years thereafter, as required by the Department. The Bureau must be notified at least two weeks prior to the performance test so that a Bureau representative may be present. The source tests shall be conducted while the facility is operating at its maximum permitted production rate or under operating conditions which result in the highest emissions. A test protocol including test methodology and procedures shall be approved by the Bureau prior to conducting the performance test. The report of the performance test results shall be submitted to the Manager of the Source Evaluation Section not later than 30 calendar days from the test date (unless an alternative date has been requested in and approved with the site-specific test plan prior to testing), and the results shall be approved by the Bureau. The test methods and procedures used shall be approved EPA test methods as approved by the Department prior to testing as sited in Regulation 62.1, Section IV.</p>
4.	<p>The facility will be required to maintain vendor guarantees demonstrating that the free formaldehyde and methanol for each batch of powder and liquid resin are at or below the maximum percentage proposed by the facility. The records must be maintained for 5 years. Semiannual reports will be required demonstrating compliance with the quarterly average of actual resin usage.</p>

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Condition Number	Conditions
	<p>The owner/operator shall install, operate and maintain pressure drop gauge(s) on each module of the baghouse(s). All pressure drop gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Pressure drop readings shall be recorded daily during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Baghouse monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five (5) years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring baghouse performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.</p>
<b>Unit ID 13 - Baghouse 01 and Baghouse 01a – Finishing and Sanding</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX – Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.
2.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ( $E = 4.10P^{0.67}$ ) and for process weight rates greater than 30 tons per hour ( $E = 55.0P^{0.11} - 40$ ) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, this unit's allowable particulate matter emission limit is 52.9 lb/hr at its nominal production rating of 117.5 tons per hr.
3.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, particulate matter emissions from Stack D1 are limited to 1.59 lb/hr and 6.97 tpy on a 12-month rolling sum. Particulate matter emissions from Stack D1a are limited to 1.87 lb/hr and 8.20 tpy on a 12-month rolling sum.
4.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC emissions from Stack D1 are limited to 5.53 lb/hr and 18.97 tpy on a 12-month rolling sum. Emissions from Stack D1a are limited to 6.51 lb/hr and 22.32 tpy on a 12-month rolling sum.

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Condition Number	Conditions									
5.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, the maximum free formaldehyde and methanol content in the resin is depicted in the table below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Compound</th> <th style="text-align: center;">Powder Phenolic Resin</th> <th style="text-align: center;">Liquid Phenolic Resin</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Free Formaldehyde (HCOH)</td> <td style="text-align: center;">0.2 %</td> <td style="text-align: center;">0.2 %</td> </tr> <tr> <td style="text-align: center;">Free Methanol (MeOH)</td> <td style="text-align: center;">0.0 %</td> <td style="text-align: center;">0.6%</td> </tr> </tbody> </table> <p>Free formaldehyde and free methanol content in the resin must not be greater than the above limits, as calculated on a quarterly average of actual resin usage.</p>	Compound	Powder Phenolic Resin	Liquid Phenolic Resin	Free Formaldehyde (HCOH)	0.2 %	0.2 %	Free Methanol (MeOH)	0.0 %	0.6%
Compound	Powder Phenolic Resin	Liquid Phenolic Resin								
Free Formaldehyde (HCOH)	0.2 %	0.2 %								
Free Methanol (MeOH)	0.0 %	0.6%								
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>										
1.	<p>The permittee shall perform a visual inspection on a daily basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semiannual reports.</p>									
2.	<p>The owner/operator shall install, operate and maintain pressure drop gauge(s) on each module of the baghouse(s). All pressure drop gauges shall be readily accessible for verification by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Pressure drop readings shall be recorded daily during source operation and shall be made available to Department personnel upon request. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. Baghouse monitoring data shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to Department personnel upon request. Each incidence of operation outside these operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site for five (5) years. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Semiannual reports of these incidences shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 days after the end of the reporting period. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring baghouse performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.</p>									

**GRANT ALLENDALE, LP**  
**CONSTRUCTION PERMIT NUMBER: 0160-0020-CB**  
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Condition Number	Conditions
3.	The permittee is required to comply with SC Regulation 61-62.5, Standard 5.1, Section III, Compliance Testing and shall conduct a VOC source test within two years of the initial source test date and every two years thereafter, as required by the Department. The Bureau must be notified at least two weeks prior to the performance test so that a Bureau representative may be present. The source tests shall be conducted while the facility is operating at its maximum permitted production rate or under operating conditions which result in the highest emissions. A test protocol including test methodology and procedures shall be approved by the Bureau prior to conducting the performance test. The report of the performance test results shall be submitted to the Manager of the Source Evaluation Section not later than 30 calendar days from the test date (unless an alternative date has been requested in and approved with the site-specific test plan prior to testing), and the results shall be approved by the Bureau. The test methods and procedures used shall be approved EPA test methods as approved by the Department prior to testing as sited in Regulation 62.1, Section IV.
4.	The facility will be required to maintain vendor guarantees demonstrating that the free formaldehyde and methanol for each batch of powder and liquid resin are at or below the maximum percentage proposed by the facility. The records must be maintained for 5 years. Semiannual reports will be required demonstrating compliance with the quarterly average of actual resin usage.
<b>Unit ID 14 -Paint Booths/Stencils</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	This unit is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and DDDD, Plywood and Composite Wood Products. New affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted for any specific provisions (40 CFR 63 DDDD).
2.	The facility shall use Non-HAP coatings as defined in 63.2292. Non-HAP coating means a coating with HAP contents below 0.1 percent by mass for Occupational Safety Health Administration-defined carcinogens as specified in 29 CFR 1910.1200(d)(4), and below 1.0 percent by mass for other HAP compounds.
3.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC combined VOC emissions from Stack PB1 and Stack PB2 are limited to 9.24 lb/hr and 40.45 tpy on a 12-month rolling sum.
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>	
1.	In accordance with 40CFR63, Subpart DDDD, Table 6,(5), the facility will be required to meet the work practices, submit a signed statement with the Notification of Compliance Status that the facility is using non-HAP coatings within 30 days of plant startup, and have a record (MSDS on site) showing that a non-HAP coatings are being used.
<b>Unit ID 15 – Two Vaporizers</b>	
<b>EMISSION LIMITS AND STANDARDS</b>	
1.	This source is limited to a maximum combined heat input of 16,000 x 10 <sup>6</sup> Btu per year on a 12-month rolling basis.  This source is permitted to burn only propane as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.

**GRANT ALLENDALE, LP**  
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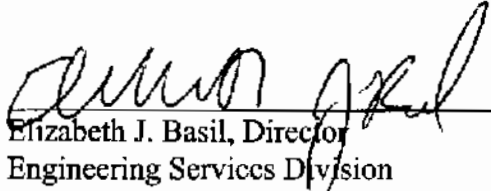
Condition Number	Conditions																		
2.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, the combined emissions from Stack PV are limited to the following on a 12-month rolling sum:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th colspan="2" style="text-align: center;">Emission Limit</th> </tr> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">lb/hr</th> <th style="text-align: center;">tpy</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">PM/PM<sub>10</sub></td> <td style="text-align: center;">0.04</td> <td style="text-align: center;">0.04</td> </tr> <tr> <td style="text-align: center;">NO<sub>x</sub></td> <td style="text-align: center;">1.20</td> <td style="text-align: center;">1.20</td> </tr> <tr> <td style="text-align: center;">SO<sub>2</sub></td> <td style="text-align: center;">0.15</td> <td style="text-align: center;">0.15</td> </tr> <tr> <td style="text-align: center;">CO</td> <td style="text-align: center;">0.17</td> <td style="text-align: center;">0.17</td> </tr> </tbody> </table>		Emission Limit		Pollutant	lb/hr	tpy	PM/PM <sub>10</sub>	0.04	0.04	NO <sub>x</sub>	1.20	1.20	SO <sub>2</sub>	0.15	0.15	CO	0.17	0.17
	Emission Limit																		
Pollutant	lb/hr	tpy																	
PM/PM <sub>10</sub>	0.04	0.04																	
NO <sub>x</sub>	1.20	1.20																	
SO <sub>2</sub>	0.15	0.15																	
CO	0.17	0.17																	
3.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC emissions from PV are limited to 0.04 lb/hr and 0.04 tpy on a 12-month rolling sum.																		
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>																			
1.	This source is limited to a maximum combined heat input of 16,000 x 10 <sup>6</sup> Btu per year on a 12-month rolling basis. The owner/operator must calculate and record the actual heat input monthly based on propane usage. These records shall be maintained on site for a period of at least five (5) years from the date generated. These records shall be made available to a Department representative upon request. Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period.																		
<b>Unit ID 16 - 525 hp Fire Water Diesel Pump (Back-up)</b>																			
<b>EMISSION LIMITS AND STANDARDS</b>																			
1.	<p>This source is limited to operate a maximum of 500 hours per year on a 12-month rolling basis.</p> <p>This source is permitted to burn only diesel as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>																		
2.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, emissions from Stack DFPE are limited to the following on a 12-month rolling sum:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th colspan="2" style="text-align: center;">Emission Limit</th> </tr> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">lb/hr</th> <th style="text-align: center;">tpy</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">PM/PM<sub>10</sub></td> <td style="text-align: center;">0.41</td> <td style="text-align: center;">0.10</td> </tr> <tr> <td style="text-align: center;">NO<sub>x</sub></td> <td style="text-align: center;">5.90</td> <td style="text-align: center;">1.47</td> </tr> <tr> <td style="text-align: center;">SO<sub>2</sub></td> <td style="text-align: center;">0.39</td> <td style="text-align: center;">0.10</td> </tr> <tr> <td style="text-align: center;">CO</td> <td style="text-align: center;">1.27</td> <td style="text-align: center;">0.32</td> </tr> </tbody> </table>		Emission Limit		Pollutant	lb/hr	tpy	PM/PM <sub>10</sub>	0.41	0.10	NO <sub>x</sub>	5.90	1.47	SO <sub>2</sub>	0.39	0.10	CO	1.27	0.32
	Emission Limit																		
Pollutant	lb/hr	tpy																	
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NO <sub>x</sub>	5.90	1.47																	
SO <sub>2</sub>	0.39	0.10																	
CO	1.27	0.32																	
3.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC emissions from DFPE are limited to 0.47 lb/hr and 0.12 tpy on a 12-month rolling sum.																		
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>																			
1.	This source is limited to operating a maximum of 500 hours per year on a 12-month rolling basis. The owner/operator must record the actual operating hours monthly and maintain these records on site for a period of at least five (5) years from the date generated. These records shall be made available to a Department representative upon request. Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period.																		

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Condition Number	Conditions																				
2.	<p>To demonstrate compliance with BACT/LAER for VOCs, the facility shall implement the following work practice standards for the fire pump:</p> <p>Routines for preventative maintenance will be as detailed below based on manufacturer's recommendations.</p> <p style="padding-left: 40px;"><b>Weekly</b> Check air cleaner, exhaust system, fuel tank, governor run-stop control, lubrication oil level, operating gauges, warning light.</p> <p style="padding-left: 40px;"><b>Annually</b> Check crankcase vent system. Clean the air cleaner and fuel lift pump strainer. Replace the fuel and oil filters and lubricating oil.</p> <p style="padding-left: 40px;"><b>Every 2 Years</b> Replace air cleaner.</p>																				
<b>Unit ID 17 – 1,400 hp Diesel Emergency Generator</b>																					
<b>EMISSION LIMITS AND STANDARDS</b>																					
1.	<p>This source is limited to operate a maximum of 500 hours per year on a 12-month rolling basis.</p> <p>This source is permitted to burn only diesel as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>																				
2.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, emissions from Stack EMRG are limited to the following on a 12-month rolling sum:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Pollutant</th> <th colspan="2" style="text-align: center;">Emission Limit</th> </tr> <tr> <th style="text-align: center;">lb/hr</th> <th style="text-align: center;">tpy</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">PM</td> <td style="text-align: center;">0.25</td> <td style="text-align: center;">0.06</td> </tr> <tr> <td style="text-align: center;">PM<sub>10</sub></td> <td style="text-align: center;">0.20</td> <td style="text-align: center;">0.05</td> </tr> <tr> <td style="text-align: center;">NO<sub>x</sub></td> <td style="text-align: center;">11.41</td> <td style="text-align: center;">2.85</td> </tr> <tr> <td style="text-align: center;">SO<sub>2</sub></td> <td style="text-align: center;">5.40</td> <td style="text-align: center;">1.35</td> </tr> <tr> <td style="text-align: center;">CO</td> <td style="text-align: center;">3.03</td> <td style="text-align: center;">0.76</td> </tr> </tbody> </table>	Pollutant	Emission Limit		lb/hr	tpy	PM	0.25	0.06	PM <sub>10</sub>	0.20	0.05	NO <sub>x</sub>	11.41	2.85	SO <sub>2</sub>	5.40	1.35	CO	3.03	0.76
Pollutant	Emission Limit																				
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CO	3.03	0.76																			
3.	<p>In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC emissions from Stack EMRG are limited to 0.32 lb/hr and 0.08 tpy on a 12-month rolling sum.</p>																				
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>																					
1.	<p>This source is limited to operating a maximum of 500 hours per year on a 12-month rolling basis. The owner/operator must record the actual operating hours monthly and maintain these records on site for a period of at least five (5) years from the date generated. These records shall be made available to a Department representative upon request. Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period.</p>																				

**GRANT ALLENDALE, LP**  
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Condition Number	Conditions																	
2.	To demonstrate compliance with BACT/LAER for VOCs, the facility shall implement the following work practice standards for the fire pump:  Routines for preventative maintenance will be performed based on the manufacturer's recommended maintenance schedule outlined in the facility's Good Management Practice for Equipment Without Emission Controls plan.																	
<b>Unit ID 18 – Natural Gas Space Heaters (14 Units)</b>																		
<b>EMISSION LIMITS AND STANDARDS</b>																		
1.	This source is permitted to burn only natural gas as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.																	
2.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration, emissions from Stack SHTRE are limited to the following on a 12-month rolling sum: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Pollutant</th> <th colspan="2" style="text-align: center;">Emission Limit</th> </tr> <tr> <th style="text-align: center;">lb/hr</th> <th style="text-align: center;">tpy</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">PM/ PM<sub>10</sub></td> <td style="text-align: center;">0.15</td> <td style="text-align: center;">0.66</td> </tr> <tr> <td style="text-align: center;">NO<sub>x</sub></td> <td style="text-align: center;">1.99</td> <td style="text-align: center;">8.71</td> </tr> <tr> <td style="text-align: center;">SO<sub>2</sub></td> <td style="text-align: center;">0.01</td> <td style="text-align: center;">0.05</td> </tr> <tr> <td style="text-align: center;">CO</td> <td style="text-align: center;">1.67</td> <td style="text-align: center;">7.32</td> </tr> </tbody> </table>	Pollutant	Emission Limit		lb/hr	tpy	PM/ PM <sub>10</sub>	0.15	0.66	NO <sub>x</sub>	1.99	8.71	SO <sub>2</sub>	0.01	0.05	CO	1.67	7.32
Pollutant	Emission Limit																	
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NO <sub>x</sub>	1.99	8.71																
SO <sub>2</sub>	0.01	0.05																
CO	1.67	7.32																
3.	In accordance with SC Regulation 61-62.5, Standard 7 – Prevention of Significant Deterioration and SC Regulation 61-62.5, Standard No. 5.1 – Best Available Control Technology (BACT) Applicable to Volatile Organic Compounds, VOC emissions from Stack SHTRE are limited to 0.11 lb/hr and 0.48 tpy on a 12-month rolling sum.																	
<b>MONITORING, RECORD KEEPING, AND REPORTING</b>																		
1.	The owner or operator shall record and maintain records of the amounts and types of each fuel combusted by this source. The amount and type of fuel combusted shall be recorded monthly, and maintained on site for a period of at least five (5) years from the date generated. All records shall be made available to Department personnel upon request. Semiannual reports including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period.																	

  
 Elizabeth J. Basil, Director  
 Engineering Services Division  
 Bureau of Air Quality

# ATTACHMENT A

## Modeled Emission Rates GRANT ALLENDALE, LP 0160-0020-CB PAGE 1 OF 4

<b>AMBIENT AIR QUALITY STANDARDS - STANDARD 2</b>					
<b>MODELED EMISSION RATES (LBS/HR)</b>					
SOURCE IDENTIFICATION	TSP	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO
POINT SOURCES					
D1ABH	1.87	1.87	--	--	--
D1BH	1.59	1.59	--	--	--
D2BH	10.19	10.19	--	--	--
D3ABH	1.01	1.01	--	--	--
D3BH	3.64	3.64	--	--	--
E1	0.54	0.54	0.04	3.57	6
H150 <sup>(2)</sup>	29.49	29.49	14.07	46.68	151.05
H166 <sup>(1)</sup>	39.33	39.33	18.76	62.24	201.4
H233 <sup>(1)</sup>	19.66	19.66	9.38	31.12	100.7
H250 <sup>(2)</sup>	29.50	29.50	14.07	46.68	151.05
PV	0.04	0.04	0.15	1.20	0.17
<b>POINT SOURCE TOTALS</b>	<b>77.87</b>	<b>77.87</b>	<b>28.33</b>	<b>98.13</b>	<b>308.27</b>
VOLUME SOURCES					
SHTRE	0.1512	0.1512	0.012	1.99	1.67
<b>VOLUME SOURCE TOTALS</b>	<b>0.1512</b>	<b>0.1512</b>	<b>0.012</b>	<b>1.99</b>	<b>1.67</b>
<b>FACILITY TOTALS</b>	<b>78.02</b>	<b>78.02</b>	<b>28.35</b>	<b>100.1</b>	<b>309.9</b>
Facility has two potential operating scenarios, labeled 3 and 4 throughout the modeling files. 3 = 3 RTOs operating and 4 = 4 RTOs operating. Worst case concentrations are listed in the summary for either of the two scenarios. The emissions shown above for the two sets of stacks are not emitted simultaneously.					
1) H166 and H233 are part of the scenario with 3 RTOs					
2) H150 and H250 are part of the scenario with 4 RTOs.					

<b>AMBIENT AIR QUALITY STANDARDS - STANDARD 2</b>		
<b>MODELED EMISSION RATES (LBS/HR)</b>		
SOURCE IDENTIFICATION	HF	LEAD
H150 <sup>(2)</sup>	--	0.00104
H166 <sup>(1)</sup>	--	0.00139
H233 <sup>(1)</sup>	--	0.00069
H250 <sup>(2)</sup>	--	0.00104
Facility Totals	--	0.0021
Facility has two potential operating scenarios, labeled 3 and 4 throughout the modeling files. 3 = 3 RTOs operating and 4 = 4 RTOs operating. Worst case concentrations are listed in the summary for either of the two scenarios. The		

# ATTACHMENT A

## Modeled Emission Rates GRANT ALLENDALE, LP 0160-0020-CB PAGE 2 OF 4

AMBIENT AIR QUALITY STANDARDS - STANDARD 2		
MODELED EMISSION RATES (LBS/HR)		
SOURCE IDENTIFICATION	HF	LEAD
emissions shown above for the two sets of stacks are not emitted simultaneously.		
1) H166 and H233 are part of the scenario with 3 RTOs		
2) H150 and H250 are part of the scenario with 4 RTOs.		

STANDARD NO. 7 - MODELED PSD CLASS II INCREMENT EMISSION RATES (LBS/HR)			
STACK ID	Minor Source Baseline Date(s)		
	12/27/2007 <sup>(3)</sup>	12/27/2007 <sup>(3)</sup>	12/27/2007 <sup>(3)</sup>
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>
POINT SOURCES			
D1ABH	1.87	--	--
D1BH	1.59	--	--
D2BH	10.19	--	--
D3ABH	1.01	--	--
D3BH	3.64	--	--
E1	0.54	0.04	3.57
H150 <sup>(2)</sup>	29.49	14.07	46.68
H166 <sup>(1)</sup>	39.33	18.76	62.24
H233 <sup>(1)</sup>	19.66	9.38	31.12
H250 <sup>(2)</sup>	29.50	14.07	46.68
PV	0.04	0.15	1.20
<b>POINT SOURCE TOTALS</b>	<b>77.87</b>	<b>28.33</b>	<b>98.13</b>
VOLUME SOURCES			
SHTRE	0.1512	0.012	1.99
<b>VOLUME SOURCE TOTALS</b>	<b>0.1512</b>	<b>0.012</b>	<b>1.99</b>
<b>FACILITY TOTALS</b>	<b>78.02</b>	<b>28.35</b>	<b>100.1</b>
Facility has two potential operating scenarios, labeled 3 and 4 throughout the modeling files. 3 = 3 RTOs operating and 4 = 4 RTOs operating. Worst case concentrations are listed in the summary for either of the two scenarios. The emissions shown above for the two sets of stacks are not emitted simultaneously.			
1) H166 and H233 are part of the scenario with 3 RTOs			
2) H150 and H250 are part of the scenario with 4 RTOs.			
3) This project sets the MSBD for PM <sub>10</sub> , SO <sub>2</sub> , and NO <sub>2</sub> in Allendale County.			

# ATTACHMENT A

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<b>STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR) - Table 1</b>				
STACK ID	Arsenic	Benzene	Beryllium	Cadmium
	7440-38-2	71-43-2	7440-41-7	7440-43-9
H150	4.75E-04	0.110319	2.38E-05	8.89E-05
H166	0.000634	0.147622	3.17E-05	1.18E-04
H233	3.17E-04	0.073652	1.59E-05	5.91E-05
H250	4.75E-04	0.110319	2.38E-05	8.89E-05
TNK1278	0	0	0	0
FACILITY TOTAL	1.90E-03	4.42E-01	9.52E-05	3.55E-04

<b>STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR) - Table 2</b>				
STACK ID	Cobalt	Cumene	HCL	Manganese
	+	98-82-8	7647-01-0	+
H150	1.40E-04	0.161907	0.411118	0.034604
H166	1.87E-04	0.215083	0.547628	0.046112
H233	9.37E-05	0.107938	0.273814	0.023096
H250	1.40E-04	0.161907	0.411118	0.034604
TNK1278	0	0	0	0
FACILITY TOTAL	5.62E-04	6.47E-01	1.64E+00	1.38E-01

<b>STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR) – Table 3</b>				
STACK ID	Mercury	MDI	Nickel	Phosphorus
	7439-97-6	101-68-8	7440-02-0	7723-14-0
H150	7.57E-05	0.00481	0.000714	0.000584
H166	1.01E-04	0.006413	0.000952	0.000779
H233	5.05E-05	0.003206	4.75E-04	3.89E-04
H250	7.57E-05	0.00481	0.000714	0.000584
TNK1278	0	0.036032	0	0
FACILITY TOTAL	3.03E-04	5.53E-02	2.85E-03	2.34E-03

<b>STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR) – Table 4</b>				
STACK ID	4-Nitrophenol	2,3,7,8-Tetrachlorodibenzo-p-d	N/A	N/A
	100-02-7	1746-01-6		
H150	2.38E-06	1.86E-10		
H166	3.17E-06	2.48E-10		

**ATTACHMENT A**

**Modeled Emission Rates  
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<b>STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR) – Table 4</b>				
<b>STACK ID</b>	4-Nitrophenol	2,3,7,8-Tetrachlorodibenzo-p-d	N/A	N/A
	100-02-7	1746-01-6		
H233	1.59E-06	1.24E-10		
H250	2.38E-06	1.86E-10		
TNK1278	0	0		
<b>FACILITY TOTAL</b>	9.52E-06	7.43E-10		

## Notice of Appeal Procedure

The following procedures are in effect beginning July 1, 2006, pursuant to 2006 Act No. 387:

1. This decision of the S.C. Department of Health and Environmental Control (Department) becomes the final agency decision 15 days after notice of the decision has been mailed to the applicant or respondent, unless a written request for final review is filed with the Department by the applicant, permittee, licensee, or affected person.
2. An applicant, permittee, licensee, or affected person who wishes to appeal this decision must file a written request for final review with the Clerk of the Board at the following address or by facsimile at 803-898-3393.

Clerk of the Board  
SC DHEC  
2600 Bull Street  
Columbia, SC 29201

3. The request for final review should include the following:
  - a. the grounds on which the Department's decision is challenged and the specific changes sought in the decision
  - b. a statement of any significant issues or factors the Board should consider in deciding how to handle the matter
  - c. a copy of the Department's decision or action under review
4. In order to be timely, a request for final review must be received by the Clerk of the Board within 15 days after notice of the decision has been mailed to the applicant or respondent. If the 15th day occurs on a weekend or State holiday, the request is due to be received by the Clerk of the Board on the next working day. The request for final review must be received by the Clerk of the Board by 5:00 p.m. on the date it is due.
5. If a timely request for final review is filed with the Clerk of the Board, the Clerk will provide additional information regarding procedures.
6. The Board of Health and Environmental Control has 60 days from the date of receipt of a request for final review to conduct a final review conference. The conference may be conducted by the Board, its designee, or a committee of three members of the Board appointed by the chair.
7. If a final review conference is not conducted within 60 days, the Department decision becomes the final agency decision, and a party may request a contested case hearing before the Administrative Law Court within 30 days after the deadline for the final review conference.

**The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.**