

Permit #: 28.4428-02  
Effective Date: May 21, 2012  
Expiration Date: May 21, 2017

The seal of the State of South Dakota is a circular emblem with a serrated outer edge. It features a central landscape scene with a river, a bridge, and a windmill. Above the scene is the motto "UNDER GOD THE PEOPLE RULE". The words "STATE OF SOUTH DAKOTA" are written in an arc at the top, and "GREAT SEAS" at the bottom. The year "1889" is prominently displayed at the bottom center. Two stars are positioned on either side of the central scene.

**SOUTH DAKOTA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES  
TITLE V AIR QUALITY PERMIT**

A handwritten signature in black ink, appearing to read "S. M. Pirner".

Steven M Pirner, Secretary

Department of Environment and Natural Resources

## **Under the South Dakota Air Pollution Control Regulations**

Pursuant to Chapter 34A-1-21 of the South Dakota Codified Laws and the Air Pollution Control Regulations of the State of South Dakota and in reliance on statements made by the owner designated below, a permit to operate is hereby issued by the Secretary of the Department of Environment and Natural Resources. This permit authorizes such owner to operate the unit(s) at the location designated below and under the listed conditions:

**A. Owner**

**1. Company Name and Address**

Countertop Inc. d.b.a. Dakota Panel  
1651 Culvert Street  
Rapid City, South Dakota 57709

**2. Legal Description**

Tract 1, Merillat Subdivision, SW 1/4, Section 17, T1N, R8E, Pennington County

**3. Permit Contact**

Wayne Bunge, Plant Manager  
(605) 348-1613

**4. Facility Contact**

Wayne Bunge, Plant Manager  
(605) 348-1613

**5. Responsible Official**

Andrew Burgess, President  
(605) 348-1613

**B. Permit Revisions or Modifications**

Not applicable

**C. Type of Operation**

Particleboard and kitchen cabinetry manufacturing

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## 1.0 Standard Conditions

**1.1 Operation of source.** In accordance with Administrative Rules of South Dakota (ARSD) 74:36:05:16.01(8), the owner or operator shall operate the units, controls, and processes as described in Table 1-1 and in accordance with the statements, representations, and supporting data contained in the permit application received on July 26, 2004, February 23, 2005, October 1, 2007, and February 10, 2011, unless modified by the conditions of this permit. Except as otherwise provided herein, the control equipment shall be operated at all times in accordance with the manufacturer's specification and in a manner that achieves compliance with the conditions of this permit. The application consists of the application forms, supporting data, and supplementary correspondence. If the owner or operator becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in an application, such information shall be promptly submitted.

*Table 1-1 – Description of Permitted Units, Operations, and Processes*

<b>Unit</b>	<b>Description</b>	<b>Maximum Operating Rate</b>	<b>Control Device</b>
#2	Two Gruendler, model 4040, hammer mills and a cyclone for collecting product.	26 oven dried tons per hour combined	1997 Clarkes/Egan cyclonic wet scrubber
#3	Pre-dryers and press vent		2008 PPC Biofilter Inc. biofilter
#3a	1989 MEC Pre-Dryer #1, model 1040, and a cyclone for collecting product. The dryer is fired with natural gas.	7 oven dried tons per hour	1994 Egan cyclonic wet scrubber and biofilter
#3b	2002 Westec Pre-Dryer #2, model 1040, and a cyclone for collecting product. The dryer is fired with natural gas.	7 oven dried tons per hour	1996 Egan cyclonic wet scrubber and biofilter
#3c	1986 MEC Pre-Dryer #6, model 1248, and a cyclone for collecting product. The dryer is fired with natural gas.	15 oven dried tons per hour	1992 Geo-Energy Corporation wet electrostatic precipitator and biofilter
	Babcock-Wilcox coen boiler.	See Unit #16	
#3d	1986 MEC Pre-Dryer #7, model 1248, and a cyclone for collecting product. The dryer is fired with natural gas.	15 oven dried tons per hour	1992 Geo-Energy Corporation wet electrostatic precipitator and biofilter
	Babcock-Wilcox coen boiler.	See Unit #16	
#3e	1973 Washington Iron Works particleboard, model 20-5x9, press vent.	20,000 square feet of three quarter inch particleboard per hour	1999 Clarkes/Egan wet scrubber and biofilter

<b>Unit</b>	<b>Description</b>	<b>Maximum Operating Rate</b>	<b>Control Device</b>
<b>#7</b>	Rotex chips, shavings and saw dust screens – pneumatic conveying system and a cyclone for collecting product.	8.5 tons per hour	1986 Clarkes reverse air baghouse
	Dry refiners – hammer mill and a cyclone for collecting product.		
<b>#8</b>	1997 Westec Final Dryer #3, model 1040, and a cyclone for collecting product. The dryer is fired on natural gas.	14 oven-dried tons per hour	1994 Clarkes/Egan wet scrubber
<b>#9</b>	1989 Westec Final Dryer #4, model 1040, and a cyclone for collecting product. The dryer is fired on natural gas.	14 oven-dried tons per hour	1994 Clarkes/Egan wet scrubber
<b>#10</b>	1989 Westec Final Dryer #5, model 1040, and a cyclone for collecting product. The dryer is fired on natural gas.	14 oven-dried tons per hour	1994 Clarkes/Egan wet scrubber
<b>#11a</b>	Particleboard cooler vents.	30,000 square feet of three quarter inch particleboard per hour	Not applicable
<b>#12</b>	Boarder line saws and trim breaker.	30,000 square feet of three quarter inch particleboard per hour	1970 Carter Day pulse jet baghouse
<b>#13a</b>	1983 Steineman 6 head panel sander. Pneumatic system collects particulate matter from the operation of the sander and passes it through a cyclone to collect product for reuse.	73,000 square feet of three quarter inch particleboard per hour	1992 Clarkes reverse air baghouse
<b>#13b</b>	1983 Steineman 6 head panel sander. Pneumatic system collects particulate matter from the operation of the sander and passes it through a cyclone to collect product for reuse.		1992 Clarkes reverse air baghouse
<b>#14</b>	Laminating line.	25,000 square feet of three quarter inch particleboard per hour	Not applicable
<b>#15</b>	Cut to size systems. Pneumatic system collects particulate matter from the cut to size systems and passes it through a cyclone to collect product for reuse.	32,000 square feet of three quarter inch particleboard per hour	A MAC baghouse
<b>#16</b>	1981/86 Babcock-Wilcox/ Coen natural gas fired boiler	50 million Btus per hour heat input	Not applicable. Exhaust gases may be routed to Unit #3c and/or #3d
<b>#18</b>	2001 Reznor, Model #PCB450, natural gas	5.625 million Btus	Not applicable

<b>Unit</b>	<b>Description</b>	<b>Maximum Operating Rate</b>	<b>Control Device</b>
	fired makeup air heaters	per hour heat input	
<b>#19</b>	2001 Reznor, Model #PCB450, natural gas fired makeup air heaters	5.625 million Btus per hour heat input	Not applicable
<b>#20</b>	2001 Reznor, Model #PCB450, natural gas fired makeup air heaters	5.625 million Btus per hour heat input	Not applicable
<b>#21</b>	1994 Baltimore Aircoil cooling tower with four cells	1,030 gallons per minute	Not applicable
<b>#22</b>	Building clean up system #1	73,000 square feet of three quarter inch particleboard per hour	A baghouse
<b>#23</b>	Building clean up system #2	73,000 square feet of three quarter inch particleboard per hour	A baghouse

**1.2 Duty to comply.** In accordance with ARSD 74:36:05:16.01(12), the owner or operator shall comply with the conditions of this permit. An owner or operator who knowingly makes a false statement in any record or report or who falsifies, tampers with, or renders inaccurate, any monitoring device or method is in violation of this permit. A violation of any condition in this permit is grounds for enforcement, reopening this permit, permit termination, or denial of a permit renewal application. The owner or operator, in an enforcement action, cannot use the defense that it would have been necessary to cease or reduce the permitted activity to maintain compliance. The owner or operator shall provide any information requested by the Secretary to determine compliance or whether cause exists for reopening or terminating this permit.

**1.3 Property rights or exclusive privileges.** In accordance with ARSD 74:36:05:16.01(12), the State's issuance of this permit, adoption of design criteria, and approval of plans and specifications does not convey any property rights of any sort, any exclusive privileges, any authorization to damage, injure or use any private property, any authority to invade personal rights, any authority to violate federal, state or local laws or regulations, or any taking, condemnation or use of eminent domain against any property owned by third parties. The State does not warrant that the owner's or operator's compliance with this permit, design criteria, approved plans and specifications, and operation under this permit, will not cause damage, injury or use of private property, an invasion of personal rights, or violation of federal, state or local laws or regulations. The owner or operator is solely and severally liable for all damage, injury or use of private property, invasion of personal rights, infringement of federal, state or local laws and regulations, or taking or condemnation of property owned by third parties, which may result from actions taken under the permit.

**1.4 Penalty for violating a permit condition.** In accordance with South Dakota Codified Laws (SDCL) 34A-1-39 and 34A-1-47, a violation of a permit condition may subject the owner or operator to civil or criminal prosecution, a state penalty of not more than \$10,000 per day per violation, injunctive action, administrative permit action, and other remedies as provided by law.

**1.5 Inspection and entry.** In accordance with SDCL 34A-1-41, the owner or operator shall allow the Secretary to:

1. Enter the premises where a regulated activity is located or where pertinent records are stored;
2. Have access to and copy any records that are required under this permit;
3. Inspect operations regulated under this permit; and/or
4. Sample or monitor any substances or parameters for the purpose of assuring compliance.

**1.6 Severability.** In accordance with ARSD 74:36:05:16.01(11), any portion of this permit that is void or challenged shall not affect the validity of the remaining permit requirements.

**1.7 Permit termination, modification, or revocation.** In accordance with ARSD 74:36:05:46, the Secretary may recommend that the Board of Minerals and Environment terminate, modify, or revoke this permit for violations of SDCL 34A-1 or the federal Clean Air Act or for nonpayment of any outstanding fee or enforcement penalty.

**1.8 Credible evidence.** In accordance with ARSD 74:36:13:07, credible evidence may be used for the purpose of establishing whether the owner or operator has violated or is violation of this permit. Credible evidence is as follows:

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at the source:
  - a. A monitoring method approved for the source pursuant to 40 CFR § 70.6(a)(3) and incorporated in this permit; or
  - b. Compliance methods specified in an applicable plan;
2. The following testing, monitoring, or information gathering methods are presumptively credible testing, monitoring, or information-gathering methods:
  - a. Any monitoring or testing methods approved in this permit, including those in 40 CFR Parts 51, 60, 61, and 75; or
  - b. Other testing, monitoring, or information-gathering methods that produce information comparable to that produced by any method in section (1) or (2)(a).

## **2.0 Permit Fees**

**2.1 Annual air fee required.** In accordance with ARSD 74:36:05:06.01, the owner or operator shall submit an annual administrative fee and an annual fee. The fee is based on actual emissions in accordance with ARSD 74:37.

**2.2 Annual operational report.** In accordance with ARSD 74:37:01:06, the Secretary will supply the owner or operator with an annual operational report in January of each year. The owner or operator shall complete and submit the annual operational report to the Secretary by March 1 of each year. The responsible official shall sign the annual operational report in the presence of a notary public.



**2.3 Annual air fee.** In accordance with ARSD 74:37:01:08, the Secretary will notify the owner or operator of the required annual air emission fee and administrative fee by June 1 of each year. The fees shall accrue on July 1 and are payable to the Department of Revenue by July 31 of each year.

### **3.0 Permit Amendments and Modifications**

**3.1 Permit flexibility.** In accordance with ARSD 74:36:05:30, the owner or operator shall have the flexibility to make changes to the source during the term of this permit. The owner or operator shall provide the Secretary written notice at least seven days in advance of the proposed change (NOTE: The Secretary will forward a copy of the written notice to EPA). The written notice shall include a brief description of the change, the date on which the change is to occur, any change in emissions, the proposed changes to the permit, and whether the requested revisions are for an administrative permit amendment, minor permit amendment, or permit modification.

The Secretary will notify the owner or operator whether the change is an administrative permit amendment, a minor permit amendment, or a permit modification. A proposed change that is considered an administrative permit amendment or a minor permit amendment can be completed immediately after the Secretary receives the written notification. The owner or operator must comply with both the applicable requirements governing the change and the proposed permit terms and conditions until the Secretary takes final action on the proposed change.

A proposed change that is considered a modification can not be constructed until the Secretary takes final action on the proposed change. Permit modifications are subject to the same procedural requirements, including public comment, as the original permit issuance except that the required review shall cover only the proposed changes.

**3.2 Administrative permit amendment.** In accordance with ARSD 74:36:05:33, the Secretary has 60 days from receipt of a written notice to verify that the proposed change is an administrative permit amendment. As provided in ASRD 74:36:01:03, the Secretary considers a proposed change an administrative permit amendment if the proposed change accomplishes one of the following:

1. Corrects typographical errors;
2. Changes the name, address, or phone number of any person identified in this permit or provides a similar minor administrative change at the source;
3. Requires more frequent monitoring or reporting by the source;
4. The ownership or operational control of a source change and the Secretary determines that no other change in this permit is necessary. However, the new owner must submit a certification of applicant form and a written statement specifying the date for transfer of operating permit responsibility, coverage, and liability; or
5. Any other changes that the Secretary and the administrator of EPA determines to be similar to those requirements in this condition.

**3.3 Minor permit amendment.** In accordance with ARSD 74:36:05:38, the Secretary has 90 days from receipt of a written notice or 15 days after the end of EPA's 45-day review period, whichever is later, to take final action on a minor permit amendment. Final action consists of issuing or denying a minor permit amendment or determining that the proposed change is a permit modification. As provided in ARSD 74:36:05:35, the Secretary considers a proposed change to be a minor permit amendment if the proposed change:

1. Does not violate any applicable requirements;
2. Does not involve significant changes to existing monitoring, reporting, or record keeping requirements;
3. Does not require or change a case-by-case determination of an emission limit or other standard, a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis; or
4. Does not seek to establish or change a permit term or condition for which the source has assumed to avoid an applicable requirement, a federally enforceable emission cap, or an alternative emission limit. An alternative emission limit is approved pursuant to regulations promulgated under section 112(i)(5) of the federal Clean Air Act.

**3.4 Permit modification.** In accordance with ARSD 74:36:05:39, an owner or operator may apply for a permit modification. A permit modification is defined in ARSD 74:36:01:10 as a physical change in or change in the operation of a source that results in at least one of the following:

1. An increase in the amount of an air pollutant emitted by the source or results in the emission of an air pollutant not previously emitted;
2. A significant change to existing monitoring, reporting, or record keeping requirements in the permit;
3. The change requires or changes a case-by-case determination of an emission limit or other standard, a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis; or
4. The change seeks to establish or change a permit term or condition for which there is a corresponding underlying applicable requirement that the source has assumed to avoid an applicable requirement, a federally enforceable emissions cap assumed to avoid classification as a modification under a provision of the Title I of the Clean Air Act, or an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Clean Air Act.

Permit modifications are subject to the same procedural requirements, including public comment, as the original permit issuance except that the required review shall cover only the proposed changes.

**3.5 Permit revision.** In accordance with ARSD 74:36:05:40, the Secretary may reopen and revise this permit to meet requirements of SDCL 34A-1 or the federal Clean Air Act.

**3.6 Testing new fuels or raw materials.** In accordance with ARSD 74:36:11:04, an owner or operator may request permission to test a new fuel or raw material to determine if it is compatible with existing equipment before requesting a permit amendment or modification. A complete test proposal shall consist of the following:

1. A written proposal that describes the new fuel or raw material, operating parameters, and parameters that will be monitored and any testing associated with air pollutant emissions during the test;
2. An estimate of the type and amount of regulated air pollutant emissions that will result from the proposed change; and
3. The proposed schedule for conducting the test. In most cases the owner or operator will be allowed to test for a maximum of one week. A request for a test period longer than one week will need additional justification. A test period shall not exceed 180 days.

The Secretary shall approve, conditionally approve, or deny in writing the test proposal within 45 days after receiving a complete proposal. Approval conditions may include changing the test schedule or pollutant sampling and analysis methods. Pollutant sampling and analysis methods may include, but are not limited to performance testing, visible emission evaluation, fuel analysis, dispersion modeling, and monitoring of raw material or fuel rates.

If the Secretary determines that the proposed change will result in an increase in the emission of a regulated air pollutant or result in the emission of an additional regulated air pollutant, the Secretary shall give public notice of the proposed test for 30 days. The Secretary shall consider all comments received during the 30-day public comment period before making a final decision on the test.

The Secretary will not approve a test if the test would cause or contribute to a violation of a national ambient air quality standard.

## **4.0 Permit Renewal**

**4.1 Permit effective.** In accordance with ARSD 74:36:05:07, this permit shall expire five years from date of issuance unless reopened or terminated for cause.

**4.2 Permit renewal.** In accordance with ARSD 74:36:05:08, the owner or operator shall submit an application for a permit renewal at least 180 days before the date of permit expiration if the owner or operator wishes to continue an activity regulated by this permit. The current permit shall not expire and shall remain in effect until the Secretary takes final action on the timely permit renewal application.

**4.3 Permit expiration.** In accordance with ARSD 74:36:05:28, permit expiration terminates the owner's or operator's right to operate any unit covered by this permit.

## 5.0 Recordkeeping and Reporting

**5.1 Recordkeeping and reporting.** In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall maintain all monitoring data, records, reports, and pertinent information specified by this permit for five years from the date of sample, measurement, report, or application unless otherwise specified in this permit. The records shall be maintained on site for the first two years and may be maintained off site for the last three years. All records must be made available to the Secretary for inspection. All notifications and reports shall be submitted to the following address:

South Dakota Department of Environment and Natural Resources  
PMB 2020, Air Quality Program  
523 E. Capitol, Joe Foss Building  
Pierre, SD 57501-3182

**5.2 Signatory Requirements.** In accordance with ARSD 74:36:05:12 and ARSD 74:36:05:16.01, all applications submitted to the Secretary shall be signed and certified by a responsible official. A responsible official for a corporation is a responsible corporate officer and for a partnership or sole proprietorship is a general partner or the proprietor, respectively. All reports or other information submitted to the Secretary shall be signed and certified by a responsible official or a duly authorized representative. A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above and submitted to the Secretary; and
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

The responsible official shall notify the Secretary if an authorization is no longer accurate. The new duly authorized representative must be designated prior to or together with any reports or information to be signed by a duly authorized representative.

**5.3 Certification statement.** In accordance with ARSD 74:36:05:16.01(14)(a), all documents required by this permit, including application forms, reports, and compliance certification, must be certified by a responsible official or a duly authorized representative. The certification shall include the following statement:

“I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document and all attachments are true, accurate, and complete.”

**5.4 Monitoring log.** In accordance with ARSD 74:36:05:16.01(9), the owner or operator must maintain a monitoring log. The monitoring log shall contain the following information:

1. Maintenance schedule for each piece of control equipment listed in Table 1-1. At a minimum, the maintenance schedule shall meet the manufacturer's recommended schedule for maintenance. The following information shall be recorded for maintenance:
  - a. Identify the unit;
  - b. The date and time maintenance was performed;
  - c. Description of the type of maintenance;
  - d. Reason for performing maintenance;
  - e. Signature of person performing maintenance;
2. The following information shall be recorded for each visible emission reading required in permit condition 8.1:
  - a. Identify the unit;
  - b. The date and time the visible emission reading was performed;
  - c. If visible emissions were observed;
  - d. Description of maintenance performed to eliminate visible emissions;
  - e. Visible emission evaluation if visible emissions are not eliminated; and
  - f. Signature of person performing visible emission reading and/or visible emission evaluation;
3. The owner or operator shall maintain relevant records of the occurrence and duration of each startup, shutdown, or malfunction of process equipment and/or air pollution control equipment;
4. The owner or operator shall maintain records of particleboard production, in million square feet of three quarter inch particleboard, per month and a 12-month rolling total; and
5. The following information shall be recorded within two days of each emergency exceedance:
  - a. The date of the emergency exceedance and the date the emergency exceedance was reported to the Secretary;
  - b. The cause(s) of the emergency;
  - c. The reasonable steps taken to minimize the emissions during the emergency; and
  - d. A statement that the permitted equipment was at the time being properly operated.

**5.5 Quarterly report.** In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall submit a quarterly report. The report shall contain the following information:

1. Name of the facility, permit number, reference to this permit condition, and identify the submittal as a quarterly report;
2. Calendar dates covered in the quarterly report; and
3. The amount of particleboard production, in million square feet of three quarter inch particleboard, for each month and the 12-month rolling total for each month in the reporting period and supporting documentation.

The first quarterly report shall be postmarked no later than the 30<sup>th</sup> day following the end of the quarter in which this permit is issued. The remaining quarterly reports shall be postmarked no later than the 30<sup>th</sup> day following the end of each calendar quarter (e.g. January 30<sup>th</sup>, April 30<sup>th</sup>, July 30<sup>th</sup>, and October 30<sup>th</sup>).

**5.6 Annual compliance certification.** In accordance with ARSD 74:36:05:16.01(14), the

owner or operator shall submit an annual compliance certification letter to the Secretary by March 1 of each year this permit is in effect (NOTE: The Secretary will forward a copy of the certification letter to EPA). The certification shall contain the following information:

1. Methods used to determine compliance, including: monitoring, record keeping, performance testing and reporting requirements;
2. The source is in compliance and will continue to demonstrate compliance with all applicable requirements;
3. In the event the source is in noncompliance, a compliance plan that indicates how the source has or will be brought into compliance; and
4. Certification statement required in permit condition 5.3.

**5.7 Reporting permit violations.** In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall report all permit violations. A permit violation should be reported as soon as possible, but no later than the first business day following the day the violation was discovered. The permit violation may be reported by telephone to the South Dakota Department of Environment and Natural Resources at (605) 773-3151 or by FAX at (605) 773-5286.

A written report shall be submitted within five days of discovering the permit violation. Upon prior approval from the Secretary, the submittal deadline for the written report may be extended up to 30 days. The written report shall contain:

1. Description of the permit violation and its cause(s);
2. Duration of the permit violation, including exact dates and times; and
3. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the permit violation.

## **6.0 Control of Regulated Air Pollutants**

**6.1 Visibility limit.** In accordance with ARSD 74:36:12:01, the owner or operator may not discharge into the ambient air an air contaminant of a density equal to or greater than that designated as 20 percent opacity from any permitted unit, operation, or process listed in Table 1-1. This provision does not apply when the presence of uncombined water is the only reason for failure to meet the requirement.

**6.2 Visibility exceedances.** In accordance with ARSD 74:36:12:01, an exceedance of the operating limit in permit conditions 6.1 is not considered a violation during brief periods of soot blowing, start-up, shutdown, or malfunctions. Malfunction means any sudden and unavoidable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. A failure caused entirely or in part by poor maintenance, careless operation, preventable equipment breakdown, or any other cause within the control of the owner or operator of the source is not a malfunction and is considered a violation.

**6.3 Total suspended particulate matter limits.** In accordance with ARSD 74:36:06:02(1) and ARSD 74:36:06:03(1), the owner or operator shall not allow the emission of total suspended

particulate matter in excess of the emission limit specified in Table 6-1 for the appropriate permitted unit, operation, and process.

**Table 6-1 – Total Suspended Particulate Emission Limit**

Unit	Description	Emission Limit
#2	Green hammer mills	35.4 pounds per hour
#3	Biofilter	pounds per hour
#7	Dry refiners	17.2 pounds per hour
#8	Final dryer #3	24.0 pounds per hour
#9	Final dryer #4	24.0 pounds per hour
#10	Final dryer #5	24.0 pounds per hour
#11a	Cooler vents	35.4 pounds per hour
#12	Saws/trim breaker	35.4 pounds per hour
#13a	Panel sander	35.4 pounds per hour
#13b	Panel sander	35.4 pounds per hour
#14	Laminating	35.4 pounds per hour
#15	Sizing saws	23.2 pounds per hour
#16	Boiler	0.5 pounds per million Btu of heat input
#18	Make-up air heater	0.6 pounds per million Btu of heat input
#19	Make-up air heater	0.6 pounds per million Btu of heat input
#20	Make-up air heater	0.6 pounds per million Btu of heat input
#21	Building clean up system #1	35.4 pounds per hour
#22	Building clean up system #2	35.4 pounds per hour

**6.4 Sulfur dioxide limit.** In accordance with ARSD 74:36:06:02(2), the owner or operator shall not allow the emission of sulfur dioxide in excess of the emission limit specified in Table 6-2 for the appropriate permitted unit, operations, and process:

**Table 6-2 – Sulfur Dioxide Emission Limit**

Unit	Description	Emission Limit
#3	Biofilter	3.0 pounds per million Btu of heat input
#8	Final dryer #3	3.0 pounds per million Btu of heat input
#9	Final dryer #4	3.0 pounds per million Btu of heat input
#10	Final dryer #5	3.0 pounds per million Btu of heat input
#16	Boiler	3.0 pounds per million Btu of heat input
#18	Make-up air heater	3.0 pounds per million Btu of heat input
#19	Make-up air heater	3.0 pounds per million Btu of heat input
#20	Make-up air heater	3.0 pounds per million Btu of heat input

Compliance with the sulfur dioxide emission limit is based on a three-hour rolling average, which is the arithmetic average of three contiguous one-hour periods.

**6.5 Air emission exceedances – emergency conditions.** In accordance with ARSD 74:36:05:16.01(18), the Secretary will allow for an unavoidable emission exceedance of a technology-based emission limit if the exceedance is caused by an emergency condition and immediate action is taken by the owner or operator to restore the operations back to normal. An emergency condition is a situation arising from a sudden and reasonably unforeseeable event beyond the control of the source, including acts of God. An emergency shall not include an emission exceedance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. The owner or operator shall notify the Secretary within two working days of the incident and take all steps possible to eliminate the excess emissions. The notification must provide a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. If the notification is submitted orally, a written report summarizing the information required by the notification shall be submitted and postmarked within 30 days of the oral notification.

**6.6 Circumvention not allowed.** In accordance with ARSD 74:36:05:47.01, the owner or operator may not install, use a device, or use a means that conceals or dilutes an air emission that would otherwise violate this permit. This includes operating a unit or control device that emits air pollutants from an opening other than the designed stack, vent, or equivalent opening.

**6.7 Minimizing emissions.** In accordance with ARSD 74:36:08:03, as referenced to 40 CFR § 63.6(e)(1)(i), the owner or operator shall at all times, including periods of startup, shutdown, and malfunction, operate and maintain any permitted unit, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires the owner or operator to reduce emissions from the permitted unit to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner or operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Secretary which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including a startup, shutdown, and malfunction plan, if required), review of operation and maintenance records, and inspection of the operation.

## **7.0 Performance Tests**

**7.1 Performance test may be required.** In accordance with ARSD 74:36:11:02, the Secretary may request a performance test during the term of this permit. A performance test shall be conducted while operating the unit at or greater than 90 percent of its maximum design capacity, unless otherwise specified by the Secretary. A performance test conducted while operating less than 90 percent of its maximum design capacity will result in the operation being limited to the percent achieved during the performance test. The Secretary has the discretion to



extend the deadline for completion of performance test required by the Secretary if circumstances reasonably warrant but will not extend the deadline past a federally required performance test deadline.

**7.2 Test methods and procedures.** In accordance with ARSD 74:36:11:01, the owner or operator shall conduct the performance test in accordance with 40 CFR Part 60, Appendix A, 40 CFR Part 63, Appendix A, and 40 CFR Part 51, Appendix M. The Secretary may approve an alternative method if a performance test specified in 40 CFR Part 60, Appendix A, 40 CFR Part 63, Appendix A, and 40 CFR Part 51, Appendix M is not federally applicable or federally required.

**7.3 Representative performance test.** In accordance with ARSD 74:36:07:01, as referenced to 40 CFR § 60.8(c), performance tests shall be conducted under such conditions as the Secretary shall specify to the owner or operator based on the representative performance of the unit being tested. The owner or operator shall make available to the Secretary such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in this permit.

**7.4 Submittal of test plan.** In accordance with ARSD 74:36:11:01, the owner or operator shall submit the proposed testing procedures to the Secretary at least 30 days prior to any performance test. The Secretary will notify the owner or operator if the proposed test procedures are approved or denied. If the proposed test procedures are denied, the Secretary will provide written notification that outlines what needs to be completed for approval.

**7.5 Notification of test.** In accordance with ARSD 74:36:11:03, the owner or operator shall notify the Secretary at least 10 days prior to the start of a performance test to arrange for an agreeable test date when the Secretary may observe the test. The Secretary may extend the deadline for the performance test in order to accommodate schedules in arranging an agreeable test date.

**7.6 Performance test report.** In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall submit a performance test report to the Secretary within 60 days after completing the performance test or by a date designated by the Secretary. The performance test report shall contain the following information:

1. A brief description of the process and the air pollution control system being tested;
2. Sampling location description(s);
3. A description of sampling and analytical procedures and any modifications to standard procedures;
4. Test results;
5. Quality assurance procedures and results;
6. Records of operating conditions during the test, preparation of standards, and calibration procedures;

7. Raw data sheets for field sampling and field and laboratory analyses;
8. Documentation of calculations;
9. All data recorded and used to establish parameters for compliance monitoring; and
10. Any other information required by the test method.

## 8.0 Monitoring

**8.1 Periodic monitoring for opacity limits.** In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall demonstrate compliance with the opacity limits in Chapter 6.0 on a periodic basis, except as otherwise specified in this permit. Periodic monitoring shall be based on the amount of visible emissions from each unit and evaluated according to the following steps:

**Step 1:** If there are no visible emissions from a unit subject to an opacity limit, periodic monitoring shall consist of a visible emission reading. A visible emission reading shall consist of a visual survey of each unit over a two-minute period to identify if there are visible emissions. The visible emission reading must be conducted while the unit is in operation; but not during periods of startup, shutdown, or malfunctions. Visible emission readings on each unit subject to an opacity limit in Chapter 6.0 shall be based on the following frequency:

- a. The owner or operator shall conduct a visible emission reading once per calendar month;
- b. If no visible emissions are observed from a unit in six consecutive monthly visible emission readings, the owner or operator may decrease the frequency of readings from monthly to semiannually for that unit; or
- c. If no visible emissions are observed from a unit in two consecutive semiannual visible emission readings, the owner or operator may decrease the frequency of testing of readings from semiannually to annually for that unit.

**Step 2:** If visible emissions are observed from a unit at any time other than periods of startup, shutdown, or malfunction, the owner or operator shall conduct a visible emission test on that unit to determine if the unit is in compliance with the opacity limit specified in Chapter 6.0. The emission test shall be for six minutes and conducted in accordance with 40 CFR Part 60, Appendix A, Method 9. The visible emission test must be conducted while the unit is in operation; but not during periods of startup, shutdown, or malfunctions. Visible emission tests shall be based on the following frequency:

- a. The visible emission test must be conducted within one hour of witnessing a visible emission from a unit during a visible emission reading;
- b. If the visible emission test required in Step 2(a) results in an opacity value less than or equal to 50 percent of the opacity limit for the unit, the owner or operator shall perform a visible emission test once per month;
- c. If the opacity value of a visible emission test is less than five percent for six straight monthly tests, the owner or operator may revert back to monthly visible emission readings as required in Step 1;

- d. If the visible emission test required in Steps 2(a) or 2(b) results in an opacity value greater than 50 percent of the opacity limit but less than the opacity limit, the owner or operator shall perform a visible emission test once per week; or
- e. If the visible emission test in Step 2(d) results in an opacity value less than or equal to 50 percent of the opacity limit for six straight weekly readings, the owner or operator may revert back to a monthly visible emission test as required in Step 2(b).

The person conducting the visible emission test must be certified in accordance with 40 CFR Part 60, Appendix A, Method 9. If a visible emission test is required before a person is certified in accordance with permit condition 8.2, the owner or operator shall notify the Secretary within 24 hours of observing the visible emissions to schedule a visible emission test performed by a state inspector.

**8.2 Certified personnel – visible emission tests.** In accordance with ARSD 74:36:13:07, within 180 days after permit issuance the owner or operator shall retain a person that is certified to perform a visible emission test in accordance with 40 CFR Part 60, Appendix A, Method 9. The owner or operator shall retain a certified person throughout the remaining term of this permit.

## **9.0 Industrial Process Cooling Tower Requirements**

**9.1 Water treatment chemical restrictions for industrial process cooling towers.** In accordance with ARSD 74:36:08:11, as referenced to 40 CFR §§ 63.402 and 63.404(b), no owner or operator shall use chromium based water treatment chemicals in an industrial process cooling tower. A cooling water sample residual hexavalent chromium concentration in excess of 0.5 parts per million by weight shall be considered a violation.

## **10.0 Unit #3 – Plywood and Composite Wood Products**

**10.1 Formaldehyde emission reductions.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2240(b), the owner or operator shall reduce formaldehyde emissions by 90 percent from the operations associated with Unit #3 by installing, operating and maintaining a biofilter system.

**10.2 Operating requirements for biofilter system.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2240(b), the owner or operator shall maintain the 24-hour block biofilter bed temperature within the range established in the initial stack performance test or the most recent stack performance test that has demonstrated compliance with the formaldehyde reductions required in permit condition 10.1.

**10.3 Operational requirements for final dryers.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2241(a), the owner or operator shall process furnish with a 24-block average inlet moisture content of less than or equal to 30 percent (by weight, dry basis) and operate with a 24-hour block average inlet dryer temperature of less than or equal to 600 °F from the

operations associated with Units #8, #9, and #10.

**10.4 Compliance requirements.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2250(a), the owner or operator shall be in compliance with permit condition 10.1, 10.2, and 10.3 at all times, except during periods of process unit or control device startup, shutdown, and malfunction. The requirements in permit condition 10.1, 10.2, and 10.3 do not apply during times when the process unit(s) are not operating or during periods of startup, shutdown, and malfunctions. Startup and shutdown periods shall not exceed the minimum amount of times necessary for the event.

**10.5 General duty to minimize emissions.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2250(b), the owner or operator shall at all times operate and maintain the operations associated with Unit #3, #8, #9, and #10, including associated air pollution control and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner or operator to make any further efforts to reduce emissions if levels required by permit condition 10.1 have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Secretary which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the operations associated with Unit #3, #8, #9, and #10.

**10.6 Startup, shutdown, and malfunction plan.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2250(c), the owner or operator shall develop a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the operations associated with Unit #3 during periods of startup, shutdown, and malfunction. The plan shall include a program of corrective action for malfunction process, air pollution control, and monitoring equipment used to comply with the relevant standards in this chapter. The startup, shutdown, and malfunction plan does not need to address any scenario that would not cause the operations associated with Unit #3, #8, #9, and #10 to exceed an applicable emission standard in permit conditions 10.1, 10.2 and 10.3.

**10.7 Establishing biofilter operating requirements.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2262(m), the owner or operator shall establish the biofilter operating requirements according the following:

1. During the performance test, the owner or operator shall continuously monitor the biofilter bed temperature during each of the required 1-hour test runs. To monitor biofilter bed temperature, the owner or operator may use multiple thermocouples in representative locations throughout the biofilter bed and calculate the average biofilter bed temperature across these thermocouples prior to reducing the temperature data to 15-minute averages for purposes of establishing biofilter bed temperature limits. The biofilter bed temperature range must be established as the minimum and maximum 15-minute biofilter bed temperatures monitored during the three test runs. The owner or operator may base the biofilter bed temperature range on values recorded during previous performance tests provided the data used to establish the temperature ranges have been obtained using the test methods required

in this chapter. If the owner or operator uses data from previous performance tests, the owner or operator shall certify the biofilter and associated operations with Unit #3 have not been modified subsequent to the date of the performance tests. Replacement of the biofilter media with the same type of material is not considered a modification of the biofilter for purposes of this permit condition;

2. For a new biofilter installation, the owner or operator will be allowed up to 180 days following the compliance date or 180 days following initial startup of the biofilter to complete the requirements in subparagraph (1) of this permit condition; and
3. The owner or operator may expand the biofilter bed temperature operating range by submitting the notification specified in §63.2280(g) and conducting a repeat performance test as specified in subparagraph (1) of this permit condition that demonstrates compliance with the formaldehyde reductions in permit condition 10.1.

**10.8 Performance test and operating requirements.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2262(a), (b), (c), (d), (e), (g), and (h), the owner or operator shall conduct performance tests in the following manner:

1. Each performance test shall be conducted under representative operating conditions and not during periods of startup, shutdown, or malfunctions. “Representative operating conditions” means operation of a process unit during performance testing under the condition that the process unit will typically be operating in the future, including use of representative range of materials (e.g., wood material of a typical species mix and moisture content or typical resin formulation) and representative operating temperature range. The performance test report shall include a description of the representative operating conditions for the process and control systems;
2. Each performance test shall consist of three separate test runs and each test run must last at least 1 hour;
3. The sampling sites must be located at the inlet and outlet of the control device and prior to any releases to the atmosphere;
4. The continuous temperature monitor data must be collected at least every 15 minutes during the entire performance test and determine the temperature operating requirements during the performance test using the methods described in permit condition 10.6;
5. All nondetect data must be treated as one-half of the method detection limit when determining formaldehyde emission rates; and
6. The control system efficiency shall be calculated using Equation 10-1.

***Equation 10-1 – Calculating percent reduction across biofilter***

$$PR = CE \times \frac{ER_{in} - ER_{out}}{ER_{in}} \times 100$$

Where:

- PR = Percent reduction, percent;
- CE = Capture efficiency, (as determined in condition 10.18);
- ER<sub>in</sub> = Emission rate of formaldehyde in the inlet vent stream of the control device, pounds per hour; and
- ER<sub>out</sub> = Emission rate of formaldehyde in the outlet vent stream of the control device, pounds per hour.

**10.9 Continuous temperature monitor.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2269(a) and (b), the owner or operator shall install, operate, and maintain a continuous monitoring system to record the temperature of the biofilter bed and final dryers in accordance with the following:

1. The continuous monitoring system shall be capable of completing a minimum of one cycle of operation (sampling, analyzing, and recording) for each successive 15-minute period;
2. At all times, the owner or operator shall maintain the monitoring equipment including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment;
3. Record the results of each inspection, calibration, and validation check;
4. Locate the temperature sensor in a position that provides a representative temperature;
5. Use a temperature sensor with a minimum accuracy of 4 °F or 0.75 percent of the temperature value, whichever is larger;
6. If a chart recorder is used, it must have a sensitivity with minor divisions not more than 20 °F;
7. Perform an electronic calibration at least semiannually according to the procedures in the manufacturer's owner manual. Following the electronic calibration, the owner or operator shall 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;
8. Conduct calibration and validation checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and
9. At least quarterly, inspect all components for integrity and all electrical connections for continuity, oxidation, and galvanic corrosion.

**10.10 Continuous moisture monitor.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2269(c), the owner or operator shall install, operate, and maintain a continuous monitoring system to record the moisture of the final dryers in accordance with the following:

1. The continuous monitoring system shall be capable of completing a minimum of one cycle of operation (sampling, analyzing, and recording) for each successive 15-minute period;
2. At all times, the owner or operator shall maintain the monitoring equipment including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment;
3. Record the results of each inspection, calibration, and validation check;
4. Use a continuous moisture monitor with a minimum accuracy of 1 percent (dry basis) moisture or better in the 25 to 35 percent (dry basis) moisture content range. Alternatively, you may use a continuous moisture monitor with a minimum accuracy of 5 percent (dry basis) moisture or better used to dry furnish with less than 25 percent (dry basis) moisture;
5. Locate the moisture monitor in a position that provides a representative measure of furnish moisture;
6. Calibrate the moisture monitor based on the procedures specified by the moisture monitor manufacturer at least once per semiannual compliance period (or more frequently if recommended by the moisture monitor manufacturer);
7. At least quarterly, inspect all components of the moisture monitor for integrity and all electrical connections for continuity;

8. Use equation 10-2 to convert percent moisture measurements wet basis to a dry basis.

**Equation 10-2 – Calculating percent moisture on a dry basis**

$$MC_{dry} = \left( \frac{\frac{MC_{wet}}{100}}{1 - \frac{MC_{wet}}{100}} \right) \times 100$$

Where:

- $MC_{dry}$  = Percent moisture content of wood material (weight percent, dry basis)
- $MC_{wet}$  = Percent moisture content of wood material (weight percent, wet basis)

**10.11 Demonstrating continuous compliance.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2270, the owner or operator shall collect data from the continuous temperature monitor for the biofilter bed and final dryers in accordance with the following:

1. Except for monitor malfunctions, associated repairs and required quality assurance or control activities (e.g., calibration checks and required zero and span adjustments), the owner or operator must conduct all monitoring in continuous operation at all times the process unit is operating. For purposes of calculating data averages, the owner or operator must not use data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities. The owner or operator must use all the data collected during all other periods in assessing compliance. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements;
2. The owner or operator may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities; data recorded during periods of startup, shutdown, and malfunction; or data recorded during periods of control device downtime covered in any approved routine control device maintenance exemption in data averages and calculations used to report emission or operating levels, nor may such data be used in fulfilling a minimum data availability requirement, if applicable.
3. The owner or operator must use all the data collected during all other periods in assessing the operation of the control system;
4. The owner or operator shall determine the 24-hour block average of all recorded readings, calculated after every 24 hours of operation as the average of the evenly spaced recorded readings in the previous 24 operating hours excluding the periods described in subsection (1) and (2); and
5. To calculate the data averages for each 24-hour averaging period, the owner or operator must have at least 75 percent of the required recorded readings for that period using only recorded readings that are based on valid data (e.g., not periods described in subsection (1) and (2)).

**10.12 Schedule for conducting additional performance tests.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR §§ 63.2271(a) and 63.2280(c), the owner or operator shall demonstrate continuous compliance with permit condition 10.1 by conducting additional performance tests using the testing procedures specified in permit condition 10.8 within 2 years

following the previous performance test, within 180 days after each replacement of any portion of the biofilter bed media with a different type of media, or within 180 days after each replacement of more than 50 percent, by volume, of the biofilter bed media with the same type of media. The owner or operator must submit a written notification of the intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin. The written notice of intent to conduct a performance test shall identify the dates and times of the performance test and the proposed testing procedures.

**10.13 Semiannual compliance report.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2281(a), (b), and (c), the owner or operator shall submit a semiannual compliance report covering the semiannual reporting period from January 1 through June 30 and July 1 through December 31. Each semiannual report shall be postmarked or delivered no later than July 31 or January 31 for the semiannual reporting period ending on June 30 and December 31, respectively. The semiannual compliance report shall include the following:

1. The company name, address, and a reference to this permit condition;
2. Statement by a responsible official with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
3. Date of report and beginning and ending dates of the reporting period;
4. If a startup, shutdown, or malfunction occurred during the reporting period and the owners or operators actions during the occurrence were consistent with the startup, shutdown, and malfunction plan required in permit condition 10.6, the compliance report shall include the information specified in permit condition 10.14.
5. A description of control device maintenance performed while the control device was offline and one or more of the process units controlled by the control device was operating, including the following information:
  - a. The date and time when the control device was shut down and restarted;
  - b. Identification of the process units that were operating and the number of hours that each process unit operated while the control device was offline; and
  - c. A statement that the control device maintenance was not part of an approved routine control device maintenance exemption;
6. The results of any performance tests conducted during the semiannual reporting period;
7. If there are no deviations from any applicable compliance option or operating requirement, a statement that there were no deviations from the compliance options or operating requirements during the reporting period. If a deviation occurs during the reporting period, the compliance report shall include the information specified in permit condition 10.15; and
8. If there were no periods during which the continuous temperature monitoring system was out-of-control, a statement that there were no periods during which the continuous temperature monitoring system was out-of-control during the reporting period.

**10.14 Reporting startups, shutdowns, and malfunctions.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2281(c)(4), if the owner or operator had a startup, shutdown, or malfunction during a reporting period specified in permit condition 10.11 and the owner or operator took action consistent with the startup, shutdown and malfunction plan required in permit condition 10.6, the following shall be included in the semiannual compliance report if a startup or shutdown causes Unit #3, #8, #9, and/or #10 to exceed any applicable



emission limit related to chapter 10.0 of this permit or Unit #3, #8, #9, and/or #10 experienced a malfunction during the reporting period:

1. The number, duration, and a brief description of each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limit in chapter 10.0 to be exceeded;
2. A summary of the actions taken to minimize emissions during such startups, shutdowns, and malfunctions. The summary of actions may be done in a checklist form and if the actions taken are the same for each event, only one checklist is necessary; and
3. A summary of the actions taken by the owner or operator consistent with the startup, shutdown, and malfunction plan required in permit condition 10.6 that caused Unit #3, #8, #9, and/or #10 to exceed any applicable emission limit in chapter 10.0 during a startup or shutdown or during a malfunction of Unit #3, #8, #9, and/or #10, including actions taken to correct the malfunction.

**10.15 Reporting deviations.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2281(e), for each deviation from a compliance option or operating requirement, the owner or operator shall submit the following in the semiannual report required in permit condition 10.13:

1. The date and time each malfunction started and stopped;
2. The date and time each continuous monitoring system was inoperative, except for zero (low-level) and high-level checks;
3. The date, time, and duration each continuous monitoring system was out-of-control and a description of corrective actions taken;
4. The date and time each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction; during a period of control device maintenance covered in your approved routine control device maintenance exemption; or during another period;
5. A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period;
6. A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control system problems, control device maintenance, process problems, other known causes, and other unknown causes;
7. A summary of the total duration of continuous monitoring system downtime during the reporting period and the total duration of continuous monitoring system downtime as a percent of the total source operating time during that reporting period;
8. A brief description of the process units;
9. A brief description of the continuous monitoring system;
10. The date of the latest continuous monitoring system certification or audit; and
11. A description of any changes in continuous monitoring system, processes, or controls since the last reporting period.

**10.16 Immediate reporting of startup, shutdown, and malfunctions.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2282(a), if at any time an action taken by the owner or operator during a startup or shutdown that caused Unit #3, #8, #9, and/or #10 to exceed any applicable emission limit in chapter 10.0 or a malfunction, including actions taken to correct

a malfunction, is not consistent with the procedures in the startup, shutdown and malfunction plan, the owner or operator shall report such actions by fax or telephone within 2 working days after such action occurs. Within 7 working days after the end of the event, the owner or operator shall submit a letter containing the following information:

1. Name, title, and signature of the owner, operator, or other responsible official who is certifying its accuracy;
2. Explanation of the circumstances of the event;
3. The reasons for not following the startup, shutdown, and malfunction plan in permit condition 10.6;
4. Description of all excess emissions and/or parameter monitoring exceedance which are believed to have occurred or could have occurred in the case of a malfunction; and
5. Actions taken to minimize emissions in conformance with permit condition 6.7.

**10.17 Recordkeeping requirements for Unit #3.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2282, the owner or operator shall maintain the following records:

1. A copy of each notification submitted to comply with chapter 10.0 of this permit, including all documentation supporting any initial notification or notification of compliance status;
2. A copy of each performance test;
3. A copy of each semiannual compliance report, including the startup, shutdown, and malfunction report, and deviation report;
4. A copy of any immediate reports of startup, shutdown, and malfunctions required in permit condition 10.14; and
5. Copy of the continuous monitoring system records.

**10.18 Enclosure or capture efficiency requirement for Unit #3.** In accordance with ARSD 74:36:08:70, as referenced to 40 CFR § 63.2267, the owner or operator shall maintain a wood products enclosure or measure the capture efficiency of the biofilter associated with the press (Unit #3e).

A wood products enclosure means a permanently installed containment that was designed to meet the following physical design criteria:

1. Any natural draft opening shall be at least four equivalent opening diameters from each HAP-emitting point, except for where board enters and exits the enclosure, unless otherwise specified by the EPA Administrator.
2. The total area of all natural draft openings shall not exceed 5 percent of the surface area of the enclosure's four walls, floor, and ceiling.
3. The average facial velocity of air through all natural draft openings shall be at least 3,600 meters per hour (200 feet per minute). The direction of airflow through all natural draft openings shall be into the enclosure.
4. All access doors and windows whose areas are not included in item 2 of this definition and are not included in the calculation of facial velocity in item 3 of this definition shall be closed during routine operation of the process.
5. The enclosure is designed and maintained to capture all emissions for discharge through a

control device.

The capture efficiency shall be determined by EPA Methods 204 and 204A through 204F of 40 CFR part 51, appendix M. Enclosures that do not meet the design criteria for a wood product enclosure or a permanent total enclosure as outlined in Method 204 must determine the capture efficiency by constructing a temporary total enclosure according to the requirements of by EPA Methods 204 and 204A through 204F of 40 CFR part 51, appendix M. As an alternative to EPA Methods 204 and 204A through 204F, a tracer gas method may be used as outlined in Appendix A of part 63.

A wood product enclosure or a permanent total enclosure as outlined in Method 204 is assumed to have a capture efficiency of 100 percent.

## **11.0 Exemption - PSD**

**11.1 Particleboard production limit.** In accordance with ARSD 74:36:05:16.01(8), the owner or operator shall not produce greater than 115 million square feet of three quarter inch particleboard or its equivalent per 12-month rolling period. The first month of the 12-month rolling total shall begin 12 months prior to the issuance of this permit.

**11.2 Plant wide volatile organic compound emission limit.** In accordance with ARSD 74:36:05:16.01(8), the owner or operator shall not allow volatile organic compound emissions to exceed 238 tons per 12-month rolling period. This emission limit allows the owner or operator to forgo a Prevention of Significant Deterioration review for volatile organic compounds. Any relaxation in the permit that increases volatile organic compound emissions equal to or greater than 238 tons per year may require a full Prevention of Significant Deterioration review.