

Permit #: 28.4401-44

Effective Date: August 30, 2005

Expiration Date: August 30, 2010

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 windmill, and a plow. Above the scene is a banner with the motto "UNDER GOD THE PEOPLE RULE". The words "STATE OF SOUTH DAKOTA" are written in an arc across the top, and "GREAT SEAL." is written in an arc across the bottom. The year "1889" is prominently displayed at the bottom center of the seal.

**SOUTH DAKOTA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
TITLE V AIR QUALITY OPERATING 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) listed in Table #1 under the listed conditions.

A. Owner

1. Company Name and Mailing Address

Showplace Wood Products
1 Enterprise Street
Harrisburg, South Dakota 57032

2. Actual Source Location if Different from Above

SW1/4, Section 36, T100N, R50W – Lincoln County

3. Permit Contact

Bart Brost, Plant Engineer
(605) 743-5983

4. Facility Contact

Bart Brost, Plant Engineer
(605) 743-5983

5. Responsible Official

Paul Sova, Plant Manager – COO
(605) 743-5901

B. Permit Revisions or Modifications

Not applicable

C. Type of Operation

Manufacturer bathroom and kitchen cabinets

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1.0 STANDARD CONDITIONS

1.1 Construction and operation of source. In accordance with Administrative Rules of South Dakota (ARSD) 74:36:05:16.01(8), the owner or operator shall construct and operate the units, controls, and processes as described in Table #1 in accordance with the statements, representations, and supporting data contained in the complete permit application submitted and dated November 16, 2004, unless modified by 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
Description of Permitted Units, Operations, and Processes**

Identification	Description	Control Device
Unit #2	Toner Booth #1 – 1999 JBI spray booth, model #IDB-107, with a Graco Delta high volume low pressure spray gun.	Particulate emissions controlled by a two inch thick blanket style filter.
Unit #3	Stain Booth #2 – 1999 JBI spray booth, model #IDB-167, with a Graco Delta high volume low pressure spray gun.	Particulate emissions controlled by a two inch thick blanket style filter.
Unit #4	Sealer Booth #3 – 1999 JBI spray booth, model #IDB-167, with a Binks Mach 3 high volume low pressure air assisted spray gun.	Particulate emissions controlled by a two inch thick blanket style filter.
Unit #5	Glaze Booth #4 – 1999 JBI spray booth, model #IDB-107, with a Graco Delta high volume low pressure spray gun.	Particulate emissions controlled by a two inch thick blanket style filter.
Unit #6	Topcoat Booth #5 – 1999 JBI spray booth, model #IDB-167, with a Binks Mach 3 high volume low pressure air assisted spray gun.	Particulate emissions controlled by a two inch thick blanket style filter.
Unit #7	Walk Through Topcoat Booth #6 – 1999 JBI spray booth, model #IDB-167, with a Binks Mach 3 high volume low pressure air assisted spray gun.	Particulate emissions controlled by a two inch thick blanket style filter.
Unit #8	Walk Through Stain Booth #7 – 1999 JBI spray booth, model #IDB-107, with a	Particulate emissions controlled by a two inch

Identification	Description	Control Device
	Graco Delta high volume low pressure spray gun.	thick blanket style filter.
Unit #9	Toner Booth #8 – JBI spray booth, model #IDPP-107, with a Graco Delta high volume low pressure air-atomized spray gun.	The particulate matter emissions are controlled by a two inch blanket style filter.
Unit #10	Stain Booth #9 – JBI spray booth, model #IDPP-127, with a Graco Delta high volume low pressure air-atomized spray gun.	The particulate matter emissions are controlled by a two inch blanket style filter.
Unit #11	Sealer Booth #10 – JBI spray booth, model #IDPP-127, with a Graco Delta high volume low pressure air-atomized spray gun.	The particulate matter emissions are controlled by a two inch blanket style filter.
Unit #12	Topcoat Booth #11 – JBI spray booth, model #IDPP-127, with a Graco Delta high volume low pressure air-atomized spray gun.	The particulate matter emissions are controlled by a two inch blanket style filter.
Unit #13	Toner Booth #12 – JBI spray booth, model #IDPP-107, with a Graco Delta high volume low pressure air-atomized spray gun.	The particulate matter emissions are controlled by a two inch blanket style filter.
Unit #14	Stain Booth #13 – JBI spray booth, model #IDPP-127, with a Graco Delta high volume low pressure air-atomized spray gun.	The particulate matter emissions are controlled by a two inch blanket style filter.
Unit #15	Sealer Booth #14 – JBI spray booth, model #IDPP-127, with a Graco Delta high volume low pressure air-atomized spray gun.	The particulate matter emissions are controlled by a two inch blanket style filter.
Unit #16	Topcoat Booth #15 – JBI spray booth, model #IDPP-127, with a Graco Delta high volume low pressure air-atomized spray gun.	The particulate matter emissions are controlled by a two inch blanket style filter.
During the term of this permit, the owner or operator may install and operate the following equipment:		
Unit #17	Toner Booth Line 4 – Global Finishing	The particulate emissions are

Identification	Description	Control Device
	Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	controlled by a two inch blanket style filter.
Unit #18	Stain Booth Line 4 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #19	Seal Booth 1 Line 4 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #20	Seal Booth 2 Line 4 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #21	Glaze Booth Line 4 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #22	Topcoat Booth Line 4 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #23	Toner Booth Line 5 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #24	Stain Booth Line 5 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #25	Seal Booth 1 Line 5 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #26	Seal Booth 2 Line 5 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low	The particulate emissions are controlled by a two inch blanket style filter.

Identification	Description	Control Device
	pressure spray gun.	
Unit #27	Glaze Booth Line 5 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #28	Topcoat Booth Line 5 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #29	Toner Booth Line 6 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #30	Stain Booth Line 6 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #31	Seal Booth 1 Line 6 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #32	Seal Booth 2 Line 6 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #33	Glaze Booth Line 6 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #34	Topcoat Booth Line 6 – Global Finishing Solutions spray booth, model FP-1076, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.
Unit #35	Walk-Through 2 Color Booth - Global Finishing Solutions spray booth, model FP-1676, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.

Identification	Description	Control Device
Unit #36	Walk-Through 2 Clears Booth - Global Finishing Solutions spray booth, model FP-1676, with a Graco Delta high volume low pressure spray gun.	The particulate emissions are controlled by a two inch blanket style filter.

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 SDCL 34A-1, a violation of a permit condition may subject the owner or operator to civil or criminal prosecution, fines 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.

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 operational report to the Secretary by March 1 of each year. The responsible official shall sign the 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 AMENDMENT AND MODIFICATION CONDITIONS

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, and the proposed changes to this permit.

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. 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 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. 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 any proposed change that meets the definition of a modification in ARSD 74:36:01:10 or is not an administrative amendment or a minor permit amendment. Modification is defined as a physical change or change in operation that increases the amount of air pollutant emitted by the source or results in the emission of an air pollutant not previously emitted. 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 REQUIREMENTS

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 RECORD KEEPING REQUIREMENTS

5.1 Record keeping. 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. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.10(b)(1), the owner or operator shall retain the most recent two years of data on site and may retain the last three years of data off site. All records must be made available to the Secretary for inspection.

5.2 Annual records. In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall calculate and record the following amounts from January 1 to December 31 of each year:

1. The amount of hazardous air pollutants emitted from the spray booths. The hazardous air pollutant emissions shall be based on the amount of products used and the composition of the product based on the material safety data sheets, manufacturer supplied formulation data, certified product data sheets, EPA approved test method data, or a method approved by the Secretary. See Appendix A for a list of hazardous air pollutants; and
2. The amount of volatile organic compounds emitted from the spray booths. The volatile organic compound emissions shall be based on the amount of products used and the composition of the product based on the material safety data sheets, manufacturer supplied formulation data, certified product data sheets, EPA approved test method data, or a method approved by the Secretary.

The amount hazardous air pollutant and volatile organic compound emissions shall be based on production records, consumption records, purchase records, etc. The records will be used in conjunction with the operational report required in permit condition 2.2.

5.3 Recording emission limit. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.806(b), the owner or operator shall maintain the following records:

1. A certified product data sheet for each finishing material, thinner, contact adhesive, and strippable spray booth coating subject to permit conditions 7.3, 7.4, and 7.5;
2. The volatile hazardous air pollutant content, in pounds of volatile hazardous air pollutant per pound of solids, as applied, of each finishing material and contact adhesive subject to permit conditions 7.3 and 7.4; and
3. The volatile organic compound content, in pounds of volatile organic compound per pound of solids, as applied, of each strippable booth coating subject to permit condition 7.5.

5.4 Record of averaging calculations. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.806(c), the owner or operator demonstrating compliance by permit condition 9.1 shall maintain copies of the averaging calculation for each month following the compliance date. The owner or operator shall also maintain the data on the quantity of coatings and thinners used that is necessary to support the calculation of “E” in Equation 1 of permit condition 9.1.

5.5 Record of compliant finishing materials applied with continuous coaters. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.806(d), the owner or operator demonstrating compliance by permit condition 9.2 and applying coatings using continuous coaters shall maintain the records required by permit condition 6.9 as well as records of the following:

1. Solvent and coating additions to the continuous coater reservoir;
2. Viscosity measurements; and
3. Data demonstrating that viscosity is an appropriate parameter for demonstrating compliance.

5.6 Work practice standards implementation. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.806(e), the owner or operator shall maintain onsite the work practice implementation plan and all records associated with fulfilling the requirements of that plan, including, but not limited to:

1. Records demonstrating that the operator training program required by permit condition 10.2 is in place;
2. Records collected in accordance with the inspection and maintenance plan required by permit condition 10.3;
3. Records associated with the cleaning solvent accounting system required by permit condition 10.4;
4. Records associated with the limit on the use of conventional air spray guns showing total finishing material usage and the percentage of finishing materials applied with conventional air spray guns for each semiannual period as required by permit condition 10.8;
5. Records associated with the formulation assessment plan required by permit condition 10.12; and
6. Copies of documentation such as logs developed to demonstrate that the other provisions of the work practice implementation plan are followed.

5.7 Monthly records. In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall calculate and record the amount of volatile organic compound, in tons, emitted into the ambient air from the permitted units and fugitive operations during the month and during the 12-month rolling period for that month. The amount of volatile organic compounds emitted to the ambient air from permitted units and fugitive sources shall be based on production records, consumption records, purchase records, etc.

6.0 REPORTING REQUIREMENTS

6.1 Reporting. In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall submit all notifications and reports 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

6.2 Signatory requirements. In accordance with ARSD 74:36:05:12, 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.

6.3 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.”

6.4 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.

6.5 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.

The Secretary may waive the written report on a case-by-case basis if the oral report has been received within the reporting period and dependent upon the severity of the permit violation.

6.6 Initial startup notification. In accordance with ARSD 74:36:05:16.01(14), the owner or operator shall notify the Secretary of the actual date of initial startup of Units #17 through #36. The notification shall be postmarked within 15 calendar days after such date.

6.7 Volatile hazardous air pollutant baseline level exceedance. In accordance with ARSD 74:36:08:14, as referenced to 40 C.F.R. §§ 63.803(l)(4) and 63.807(e), if the annual usage of volatile hazardous air pollutants identified in the formulation assessment plan required in permit condition 10.12 exceeds the baseline level, then the owner or operator shall provide written notification to the Secretary. The written notification shall describe the amount of the increase

and the reasons for exceeding the baseline level. The written notification shall be submitted to the Secretary no later than 30 calendar days after the end of the annual period in which the usage increase occurred. The following explanations would relieve the owner or operator from further action, unless the owner or operator is not in compliance with any other permit requirement for that volatile hazardous air pollutant:

1. The exceedance is no more than 15.0 percent above the baseline level;
2. Usage of the volatile hazardous air pollutant is below the de minimis level presented in Table #4 for that volatile hazardous air pollutant;
3. The affected source is in compliance with its State's air toxic regulations or guidelines for the volatile hazardous air pollutant; or
4. The source of the pollutant is a finishing material with a volatile organic compound content of no more than 1.0 kilograms volatile organic compounds per kilogram solids (1.0 pound volatile organic compound per pound solids, as applied).

The Secretary will notify the owner or operator if further action is necessary.

6.8 Quarterly reporting. In accordance with ARSD 74:36:06:16.01(9), the owner or operator shall submit a quarterly report to the Secretary by the end of each calendar quarter. The quarterly report shall contain the following information:

1. Name of facility, permit number, reference to this permit condition, identifying the submittal as a quarterly report, and calendar dates covered in the reporting period; and
2. The quantity of volatile organic compounds emitted, in tons, in each month and the 12-month rolling total for each month in the reporting period and supporting documentation.

The first quarterly report must be postmarked no later than 30 days after the end of the calendar quarter in which this permit is issued. The remaining reports must be postmarked no later than 30 days after the end of the reporting period (i.e., April 30th, July 30th, October 30th, and January 30th).

6.9 Semiannual report. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR §§ 63.804(g) and 63.807(c), the owner or operator shall submit a semiannual report to the Secretary with the appropriate information listed below based on the selected compliance option:

1. The owner or operator that complies with permit condition 7.3 by the procedures in permit condition 9.1 shall demonstrate continuous compliance by submitting the results of the averaging calculation for each month within that semiannual period. The compliance certification shall state that the value of "E", as calculated by Equation 1, of permit condition 9.1, is not greater than 0.8. The owner or operator is in violation of permit condition 7.3 if "E" is greater than 0.8 for any month. A violation of the monthly average is a separate violation for each day of operation during the month, unless the owner or operator can

- demonstrate through records that the violation of the monthly average can be attributed to a particular day or days during the period;
2. The owner or operator that complies with permit condition 7.3 by the procedures in permit condition 9.1 shall state that compliant coatings and thinners are being used and maintain records that demonstrate the coatings and thinners are compliant. If noncompliant coatings or thinners are used, the report shall identify the periods of noncompliance and the reasons for noncompliance. Each day a noncompliant coating or thinner is used is a single violation of permit condition 7.3;
 3. The owner or operator that complies with permit condition 7.3 by procedures in permit condition 9.1 and are applying coatings using continuous coaters shall demonstrate continuous compliance by the following procedures:
 - a. Using compliant coatings, as determined by the volatile hazardous air pollutant content of the coating in the reservoir and the volatile hazardous air pollutant content as calculated from records, using compliant thinners, and submitting a compliance certification with this semiannual report. The compliance certification shall state that compliant coatings have been used each day in the semiannual reporting period, or should otherwise identify the days of noncompliance and the reasons for noncompliance. The owner or operator is in violation whenever a noncompliant coating, as determined by records or by a sample of the coating, is used. Use of a noncompliant coating is a separate violation for each day the noncompliant coating is used; or
 - b. Using compliant coatings, as determined by the volatile hazardous air pollutant content of the coating in the reservoir, using compliant thinners, maintaining a viscosity of the coating in the reservoir that is no less than the viscosity of the initial coating by monitoring the viscosity with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added, maintaining records of solvent additions, and submitting a compliance certification with this semiannual report. The compliance certification shall state that compliant coatings, as determined by the volatile hazardous air pollutant content of the coating in the reservoir, have been used each day in the semiannual reporting period. Additionally, the certification shall state that the viscosity of the coating in the reservoir has not been less than the viscosity of the initial coating, that is, the coating that is initially mixed and placed in the reservoir, for any day in the semiannual reporting period. The owner or operator is in violation when a sample of the as-applied coating exceeds the applicable limit established in permit condition 9.1, as determined using EPA Method 311, or the viscosity of the coating in the reservoir is less than the viscosity of the initial coating; and
 - c. The compliance certification for either procedure shall be signed by a responsible official.
 4. The owner or operator that complies with permit condition 7.4 shall state that compliant contact or foam adhesives are being used or identify each day noncompliant contact or foam adhesives are used and the reasons for noncompliance. Each day a noncompliant contact or foam adhesive is used is a single violation of permit condition 7.4;
 5. The owner or operator subject to permit condition 7.5 shall state that compliant strippable spray booth coatings have been used each day or identify each day noncompliant strippable

spray booth coatings are used and the reasons for noncompliance. Each day a noncompliant strippable booth coating is used is a single violation of permit condition 7.5; and

6. The owner or operator shall include a statement that the work practice implementation plan is being followed, or should otherwise identify the provisions of the plan that have not been implemented and each day the provisions were not implemented. During any period of time that an owner or operator is required to implement the provisions of the plan, each failure to implement an obligation under the plan during any particular day is a violation.

Each semiannual report shall be submitted 30 calendar days after the end of the 6-month calendar period (July 30th and January 30th). The semiannual report must be accompanied by a compliance certification that is signed by a responsible official.

7.0 CONTROL OF REGULATED AIR POLLUTANTS

7.1 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. This provision does not apply when the presence of uncombined water is the only reason for failure to meet the requirement.

7.2 Visibility exceedances. In accordance with ARSD 74:36:12:01, an exceedance of the operating limit in permit condition 7.1 is not considered a violation during 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.

7.3 Volatile hazardous air pollutant emission limits for finishing operation. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.802(b)(1), the owner or operator shall limit volatile hazardous air pollutant emissions from finishing operations by meeting the limits presented in Table #2. Compliance with the emission limits can be demonstrated using any of the compliance methods in permit condition 9.1. A “compliant finishing material” (i.e., stain, washcoat, thinner, etc.) means a finishing material that meets the emission limits specified in Table #2.

The owner or operator using a finishing material containing formaldehyde shall calculate the formaldehyde emissions on the amount of free formaldehyde present in the finishing material when it is applied. The owner or operator using a finishing material containing styrene shall calculate the styrene emissions by multiplying the amount of styrene monomer in the finishing material, when it is applied, by a factor of 0.16.

**Table #2
Summary of Emission Limits**

Emission Point	Limit
Finishing operations:	
(a) Achieve a weighted average volatile hazardous air pollutant content across all coatings (maximum pound of volatile hazardous air pollutant/pound of solids), as applied	0.8 ^a
(b) Use compliant finishing materials (maximum pound of volatile hazardous air pollutant/pound of solids), as applied:	
i. stains	1.0 ^a
ii. washcoats	0.8 ^{a,b}
iii. sealers	0.8 ^a
iv. topcoats	0.8 ^a
v. basecoats	0.8 ^{a,b}
vi. enamels	0.8 ^{a,b}
vii. thinners (maximum percent volatile hazardous air pollutant by weight allowable); or	10.0
(c) As an alternative, use control device; or	0.8 ^c
(d) Use any combination of (a), (b), and (c)	0.8
Cleaning Operations:	
Strippable spray booth material (maximum pound of volatile organic compound/ pound solids)	0.8
Contact Adhesives:	
(a) Use compliant contact adhesives ((maximum pound of volatile hazardous air pollutant/pound of solids), as applied) based on following criteria:	
i. For aerosol adhesives, and for contact adhesives applied to nonporous substrates	^d
ii. For foam adhesives used in products that meet flammability requirements	0.2
iii. For all other contact adhesives (including foam adhesives used in products that do not meet flammability requirements); or	0.2
(b) Use a control device	0.2 ^e

^a The limits refer to the volatile hazardous air pollutant content of the coating, as applied.

^b Washcoats, basecoats, and enamels must comply with the limits presented in this table if they are purchased premade, that is, if they are not formulated onsite by thinning other finishing materials. If they are formulated onsite, they must be formulated using compliant finishing materials, i.e. those that meet the limits specified in this table, and thinners containing no more than 3.0 percent volatile hazardous air pollutant by weight.

^c The control device must operate at an efficiency that is equivalent to no greater than 1.0 kg of volatile hazardous air pollutant being emitted from the affected emission source per kg of solids used.

^d There is no limit on the volatile hazardous air pollutant content of these adhesives.

^e The control device must operate at an efficiency that is equivalent to no greater than 1.0 kg of volatile hazardous air pollutant being emitted from the affected emission source per kilogram of solids used.

7.4 Contact adhesives volatile hazardous air pollutant emission limit. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.802(b)(2), the volatile hazardous air pollutant content of the contact adhesives shall not exceed 0.2 pound of volatile hazardous air pollutant per pound of solids, as applied. This volatile hazardous air pollutant emission limit does not apply to aerosol adhesives and contact adhesives applied to nonporous substrates. Compliance with this emission limit can be demonstrated using any of the compliance methods in permit condition 9.2.

7.5 Strippable spray booth coating volatile hazardous air pollutant emission limit. In accordance with ARSD 74:36:08:14, as referenced to 40 C.F.R. § 63.802(b)(3), the owner or operator of the facility shall limit volatile hazardous air pollutant emissions from strippable spray booth coatings by using coatings that contain no more than 0.8 pounds of volatile hazardous air pollutant per pound of solids, as applied.

7.6 Compliance deadline. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.800(f), the compliance date for permit conditions 7.3 through 7.5, inclusive, is immediately upon start-up.

7.7 Plant wide volatile organic compound emission limit. In accordance with ARSD 74:36:05:16.01(8), the owner or operator shall not emit into the ambient air greater than or equal to 238 tons of volatile organic compounds per 12-month rolling period. The 12-month rolling total shall be calculated every month using that month's value and the previous 11 months' values. The issuance date of this permit shall be the first month of the 12-month rolling period.

7.8 Air emission exceedances -- emergency conditions. In accordance with ARSD 74:36:05:16.01(18), the owner or operator may exceed 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 department within two working days of the incident and take all steps possible to eliminate the excess emissions.

7.9 Circumvention not allowed. In accordance with ARSD 74:36:05:47.01 and 74:36:08:03, as referenced to 40 CFR § 63.4(b), 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.

7.10 Minimizing emissions. In accordance with ARSD 74:36:08:01, as referenced to 40 CFR § 63.6(e), the owner or operator shall at all times, when practicable, maintain and operate all permitted units in a manner that minimizes air pollution emissions.

8.0 PERFORMANCE TESTS

8.1 Performance test may be required. In accordance with ARSD 74:36:11:02, the Secretary may request a performance test. 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 that is 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.

8.2 Test methods and procedures. 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.

8.3 Representative performance test. In accordance with ARSD 74:36:07:01, as referenced to 40 CFR § 63.7(e), 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.

8.4 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.

8.5 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.

8.6 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.

8.7 Determination of volatile hazardous air pollutant content. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.805(a), 40 CFR Part 63, Appendix A, Method 311 shall be used in conjunction with formulation data to determine the volatile hazardous air pollutant content of the liquid coating. Formulation data shall be used to identify volatile hazardous air pollutant present in the coating. Method 311 shall then be used to quantify those volatile hazardous air pollutants identified through formulation data.

If Method 311 test data is a higher value than the facility's formulation data then the Method 311 test value shall govern unless the owner or operator can demonstrate to the satisfaction of the Secretary that the formulation data is correct.

8.8 Determination of solids content. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.805(a), 40 CFR Part 60, Appendix A, Method 24 shall be used to determine the solids content by weight and the density of coatings. If it is demonstrated to the satisfaction of the Secretary that a coating does not release volatile organic compound or hazardous air pollutant byproducts during the cure, then batch formulation information shall be accepted.

If Method 24 test data is a higher value than the facility's formulation data then the Method 24 test value shall govern unless the source can demonstrate to the satisfaction of the Secretary that the formulation data is correct.

9.0 MONITORING

9.1 Compliance procedures for finishing materials. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.804(d), the owner or operator shall demonstrate compliance with permit condition 7.3 using one of the following methods.

1. **Calculate average volatile hazardous air pollutant content** – In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.804(d)(1), the owner or operator shall calculate the average volatile hazardous air pollutant content of all finishing materials using Equation 1 and maintain a value of “E” no greater than 0.8;
2. **Use compliant finishing materials** – In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.804(d)(2), the owner or operator shall demonstrate compliance in accordance with the following criteria:
 - a. Demonstrate that each stain, sealer, topcoat, and thinner is in compliance with permit condition 7.3 by maintaining certified product data sheets for each coating and thinner;
 - b. Demonstrate that each washcoat, basecoat, and enamel that is purchased pre-made and each thinner is in compliance with permit condition 7.3 by maintaining certified product data sheets for each coating and thinner. “Purchased pre-made,” means it is not formulated onsite by thinning another finishing material; and
 - c. Demonstrate that each washcoat, basecoat, and enamel that is formulated at the facility is in compliance with permit condition 7.3 by maintaining certified product data sheets for each washcoat, basecoat, and enamel; or
3. **Combination of an averaging approach** – In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.804(d)(4), the owner or operator may use any combination of an averaging approach, as described in subsection (1) and (2) of this permit condition.

Equation 1

$$E = (M_{c1}C_{c1} + M_{c2}C_{c2} + M_{cn}C_{cn} + S_1W_1 + S_2W_2 + S_nW_n) / (M_{c1} + M_{c2} + M_{cn})$$

9.2 Compliance procedures for contact adhesives. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.804(e), the owner or operator shall demonstrate compliance with permit condition 7.4 by using a compliant contact adhesive and maintaining certified product data sheets for each contact adhesive.

10.0 WORK PRACTICE IMPLEMENTATION PLAN

10.1 Work practice implementation standards. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(a), the owner or operator shall prepare and maintain a written work practice implementation plan. The work practice implementation plan shall define environmentally desirable work practices for each wood furniture manufacturing operation and address each of the work practice standards presented in permit conditions 10.2 through 10.12, inclusive. The plan shall be revised no more than 60 days after start-up of Units #17 through 36, inclusive. If the Secretary determines that the plan is inadequate, the Secretary may require the owner or operator to modify the plan.

10.2 Operator training course. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(b), the owner or operator shall train all new and existing personnel, including contract personnel, who are involved in finishing, gluing, cleaning, and washoff operations; use the manufacturing equipment; or are responsible for implementation of the requirements in this permit. All personnel hired after December 7, 1998, shall be trained upon hiring. All existing personnel shall be trained by June 7, 1999. All personnel shall be given refresher training annually. The facility shall maintain a copy of the training program with the work practice implementation plan. The training program shall include, at a minimum, the following:

1. A list of current personnel by name and job description that are required to be trained;
2. An outline of the subjects to be covered in the initial and refresher training for each position or group of personnel;
3. Lesson plans for courses to be given at the initial and the annual refresher training that include, at a minimum, appropriate application techniques, appropriate cleaning and washoff procedures, appropriate equipment setup and adjustment to minimize finishing material usage and overspray, and appropriate management of cleanup wastes; and
4. A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion.

10.3 Inspection and maintenance plan. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(c), the owner or operator shall prepare and maintain with the work practice implementation plan a written leak inspection and maintenance plan that specifies:

1. A minimum visual inspection frequency of once per month for all equipment used to transfer or apply coatings, adhesives, or organic solvents;
2. An inspection schedule;
3. Methods for documenting the date and results of each inspection and any repairs that were made; and
4. If a leak is detected, a first attempt at repair shall be made no later than five calendar days after the leak is detected. Final repairs shall be made within 15 calendar days after the leak is detected, unless the leaking equipment is to be replaced by a new purchase, in which case repairs shall be completed within three months.

10.4 Cleaning and washoff solvent accounting system. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(d), the owner or operator shall develop an organic solvent accounting form. The organic solvent accounting form shall contain a record of the quantity and type of organic solvent used each month for washoff and cleaning, the number of pieces washed off, and the reason for the washoff. The form shall track the quantity of spent solvent generated from each washoff and cleaning operation each month, and whether it is recycled onsite or disposed offsite.

10.5 Chemical composition of cleaning and washoff solvents. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(e), the owner or operator shall not use cleaning or washoff solvents that contain any of the pollutants listed in Table #3 in concentrations subject to material safety data sheet (MSDS) reporting as required by the Occupational, Safety and Health Administration (OSHA).

**Table #3
Pollutants Excluded From Use in Cleaning and Washoff Solvents**

Chemical Name	CAS Number
4-Aminobiphenyl	92671
Styrene oxide	96093
Diethyl sulfate	64675
N-Nitrosomorpholine	59892
Dimethyl formamide	68122
Hexamethylphosphoramide	680319
Acetamide	60355
4,4[prime]-Methylenedianiline	101779
o-Anisidine	90040
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016
Beryllium salts	-
Benzidine	92875
N-Nitroso-N-methylurea	684935
Bis (chloromethyl) ether	542881
Dimethyl carbamoyl chloride	79447
Chromium compounds (hexavalent)	-
1,2-Propylenimine (2-Methyl aziridine)	75558
Arsenic and inorganic arsenic compounds	99999904

Chemical Name	CAS Number
Hydrazine	302012
1,1-Dimethyl hydrazine	57147
Beryllium compounds	7440417
1,2-Dibromo-3-chloropropane	96128
N-Nitrosodimethylamine	62759
Cadmium compounds	-
Benzo (a) pyrene	50328
Polychlorinated biphenyls (Aroclors)	1336363
Heptachlor	76448
3,3[prime]-Dimethyl benzidine	119937
Nickel subsulfide	12035722
Acrylamide	79061
Hexachlorobenzene	118741
Chlordane	57749
1,3-Propane sultone	1120714
1,3-Butadiene	106990
Nickel refinery dust	-
2-Acetylaminoflourine	53963
3,3[prime]-Dichlorobenzidine	53963
Lindane (hexachlorcyclohexane, gamma)	58899
2,4-Toluene diamine	95807
Dichloroethyl ether (Bis(2-chloroethyl) ether)	111444
1,2-Diphenylhydrazine	122667
Toxaphene (chlorinated camphene)	8001352
2,4-Dinitrotoluene	121142
3,3[prime]-Dimethoxybenzidine	119904
Formaldehyde	50000
4,4[prime]-Methylene bis (2-chloroaniline)	101144
Acrylonitrile	107131
Ethylene dibromide (1,2-Dibromoethane)	106934
DDE (1,1-p-chlorophenyl 1-2 dichloroethylene)	72559
Chlorobenzilate	510156

Chemical Name	CAS Number
Dichlorvos	62737
Vinyl chloride	75014
Coke Oven Emissions	-
Ethylene oxide	75218
Ethylene thiourea	96457
Vinyl bromide (bromoethene)	593602
Selenium sulfide (mono and di)	7488564
Chloroform	67663
Pentachlorophenol	87865
Ethyl carbamate (Urethane)	51796
Ethylene dichloride (1,2-Dichloroethane)	107062
Propylene dichloride (1,2-Dichloropropane)	78875
Carbon tetrachloride	56235
Benzene	71432
Methyl hydrazine	60344
Ethyl acrylate	140885
Propylene oxide	75569
Aniline	62533
1,4-Dichlorobenzene(p)	106467
2,4,6-Trichlorophenol	88062
Bis (2-ethylhexyl) phthalate (DEHP)	117817
o-Toluidine	95534
Propoxur	114261
1,4-Dioxane (1,4-Diethyleneoxide)	123911
Acetaldehyde	75070
Bromoform	75252
Captan	133062
Epichlorohydrin	106898
Methylene chloride (Dichloromethane)	75092
Dibenz (ah) anthracene	53703
Chrysene	218019
Dimethyl aminoazobenzene	60117

Chemical Name	CAS Number
Benzo (a) anthracene	56553
Benzo (b) fluoranthene	205992
Antimony trioxide	1309644
2-Nitropropane	79469
1,3-Dichloropropene	542756
7, 12-Dimethylbenz(a) anthracene	57976
Benz(c) acridine	225514
Indeno(1,2,3-cd)pyrene	193395
1,2:7,8-Dibenzopyrene	189559

10.6 Spray booth cleaning. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(f), the owner or operator shall not use compounds containing more than 8.0 percent by weight of volatile organic compound for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, or metal filters, unless the spray booth is being refurbished. If the spray booth is being refurbished, that is the spray booth coating or other protective material used to cover the booth is being replaced, the owner or operator shall use no more than 1.0 gallon of organic solvent per booth to prepare the surface of the booth prior to applying the booth coating.

10.7 Storage requirements. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(g), the owner or operator shall use normally closed containers for storing finishing, gluing, cleaning, and washoff materials. A normally closed container is one that is closed unless an operator is actively engaged in activities such as emptying or filling the container.

10.8 Application equipment requirements. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(h), the owner or operator shall use conventional air spray guns to apply finishing materials only under any of the following circumstances:

1. To apply finishing materials that have a volatile organic compound content no greater than 1.0 pound of volatile organic compound per pound of solids, as applied;
2. For touchup and repair that occurs after completion of the finishing operation or the application of stain and before the application of any other type of finishing material. The materials used for touchup and repair shall be applied from a container that has a volume of no more than 2.0 gallons;
3. When spray is automated, that is, the spray gun is aimed and triggered automatically, not manually;
4. When emissions from the finishing application station are directed to a control device;

5. The conventional air gun is used to apply finishing materials and the cumulative total usage of that finishing material is no more than 5.0 percent of the total gallons of finishing material used during that semiannual period; or
6. The conventional air gun is used to apply stain on a part for which it is technically or economically infeasible to use any other spray application technology. The owner or operator shall demonstrate technical or economic infeasibility by submitting a videotape, a technical report, or other documentation that supports the claim of technical or economic infeasibility. The following criteria shall be used independently or in combination to support the claim of technical or economic infeasibility:
 - a. The production speed is too high or the part is too complex for one operator to coat the part and the application station is not large enough to accommodate an additional operator; or
 - b. The excessively large vertical spray area of the part make it difficult to avoid sagging or runs in the stain.

10.9 Line cleaning. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(i), the owner or operator shall pump or drain all organic solvent used for line cleaning into a normally closed container. A normally closed container is one that is closed unless an operator is actively engaged in activities such as emptying or filling the container.

10.10 Gun cleaning. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(j), the owner or operator shall collect all organic solvent used to clean spray guns into a normally closed container. A normally closed container is one that is closed unless an operator is actively engaged in activities such as emptying or filling the container.

10.11 Washoff operations. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(k), the owner or operator shall control emissions from washoff operations by using normally closed tanks for washoff and by minimizing dripping by tilting or rotating the part to drain as much solvent as possible.

10.12 Formulation assessment plan for finishing operations. In accordance with ARSD 74:36:08:14, as referenced to 40 CFR § 63.803(l), the owner or operator shall prepare and maintain with the work practice implementation plan a formulation assessment plan. The formulation assessment plan shall contain the following information:

1. Identifies volatile hazardous air pollutants from the list presented in Table #4 and Table #5 of that are being used in the finishing operations;
2. Establishes a baseline level of usage for each volatile hazardous air pollutant identified in subsection (1) of this permit condition. The baseline level of usage shall be established as the de minimis levels provided in Table #5. The owner or operator using a finishing material containing formaldehyde shall calculate the formaldehyde emissions on the amount of free formaldehyde present in the finishing material when it is applied. The owner or operator using a finishing material containing styrene shall calculate the styrene emissions by

multiplying the amount of styrene monomer in the finishing material, when it is applied, by a factor of 0.16; and

- Tracks the usage of each volatile hazardous air pollutant identified in subsection (1) of this permit condition that is present in amounts subject to MSDS reporting as required by OSHA.

**Table #4
Volatile Hazardous Air Pollutants Used in Finishing Operations**

CAS Number	Chemical Name	EPA de minimis, tons/year
68122	Dimethyl formamide	1.0
50000	Formaldehyde	0.2
75092	Methylene chloride (Dichloromethane)	4.0
79469	2-Nitropropane	1.0
78591	Isophorone	0.7
1000425	Styrene monomer	1.0
108952	Phenol	0.1
111422	Dimethanolamine	5.0
109864	2-Methoxyethanol	10.0
111159	2-Ethoxyethyl acetate	10.0

**Table #5
Additional Volatile Hazardous Air Pollutants Used in Finishing Operations**

CAS Number	Chemical Name	EPA de minimis, tons/year
92671	4-Aminobiphenyl	1.0
96093	Styrene oxide	1.0
64675	Diethyl sulfate	1.0
59892	N-Nitrosomorpholine	1.0
68122	Dimethyl formamide	1.0
680319	Hexamethylphosphoramide	0.01
60355	Acetamide	1.0
101779	4,4[prime]-Methylenedianiline	1.0
90040	o-Anisidine	1.0
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00000006
92875	Benzidine	0.00003
684935	N-Nitroso-N-methylurea	0.00002

CAS Number	Chemical Name	EPA de minimis, tons/year
542881	Bis (chloromethyl) ether	0.00003
79447	Dimethyl carbamoyl chloride	0.002
75558	1,2-Propylenimine (2-Methyl aziridine)	0.0003
57147	1,1-Dimethyl hydrazine	0.0008
96128	1,2-Dibromo-3-chloropropane	0.001
62759	N-Nitrosodimethylamine	0.0001
50328	Benzo (a) pyrene	0.001
1336363	Polychlorinated biphenyls (Aroclors)	0.0009
76448	Heptachlor	0.002
119937	3,3[prime]-Dimethyl benzidine	0.001
79061	Acrylamide	0.002
118741	Hexachlorobenzene	0.004
57749	Chlordane	0.005
1120714	1,3-Propane sultone	0.003
106990	1,3-Butadiene	0.007
53963	2-Acetylaminoflourine	0.0005
91941	3,3[prime]-Dichlorobenzidine	0.02
58899	Lindane (hexachlorcyclohexane, gamma)	0.005
95807	2,4-Toluene diamine	0.002
111444	Dichloroethyl ether (Bis(2-chloroethyl) ether)	0.006
122667	1,2-Diphenylhydrazine	0.009
8001352	Toxaphene (chlorinated camphene)	0.006
121142	2,4-Dinitrotoluene	0.002
119904	3,3[prime]-Dimethoxybenzidine	0.01
50000	Formaldehyde	0.2
101144	4,4[prime]-Methylene bis (2-chloroaniline)	0.02
107131	Acrylonitrile	0.03
106934	Ethylene dibromide (1,2-Dibromoethane)	0.01
72559	DDE (1,1-p-chlorophenyl 1-2 dichloroethylene)	0.01
510156	Chlorobenzilate	0.04
62737	Dichlorvos	0.02
75014	Vinyl chloride	0.02

CAS Number	Chemical Name	EPA de minimis, tons/year
75218	Ethylene oxide	0.09
96457	Ethylene thiourea	0.06
593602	Vinyl bromide (bromoethene)	0.06
67663	Chloroform	0.09
87865	Pentachlorophenol	0.07
51796	Ethyl carbamate (Urethane)	0.08
107062	Ethylene dichloride (1,2-Dichloroethane)	0.08
78875	Propylene dichloride (1,2-Dichloropropane)	0.1
56235	Carbon tetrachloride	0.1
71432	Benzene	0.2
140885	Ethyl acrylate	0.1
75569	Propylene oxide	0.5
62533	Aniline	0.1
106467	1,4-Dichlorobenzene(p)	0.3
88062	2,4,6-Trichlorophenol	0.6
117817	Bis (2-ethylhexyl) phthalate (DEHP)	0.5
95534	o-Toluidine	0.4
114261	Propoxur	2.0
79016	Trichloroethylene	1.0
123911	1,4-Dioxane (1,4-Diethyleneoxide)	0.6
75070	Acetaldehyde	0.9
75252	Bromoform	2.0
133062	Captan	2.0
106898	Epichlorohydrin	2.0
75092	Methylene chloride (Dichloromethane)	4.0
127184	Tetrachloroethylene (Perchloroethylene)	4.0
53703	Dibenz (ah) anthracene	0.01
218019	Chrysene	0.01
60117	Dimethyl aminoazobenzene	1.0
56553	Benzo (a) anthracene	0.01
205992	Benzo (b) fluoranthene	0.01
79469	2-Nitropropane	1.0

CAS Number	Chemical Name	EPA de minimis, tons/year
542756	1,3-Dichloropropene	1.0
57976	7, 12-Dimethylbenz(a) anthracene	0.01
225514	Benz(c) acridine	0.01
193395	Indeno(1,2,3-cd)pyrene	0.01
189559	1,2:7,8-Dibenzopyrene	0.01
79345	1,1,2,2-Tetrachloroethane	0.03
91225	Quinoline	0.0006
75354	Vinylidene chloride (1,1-Dichloroethylene)	0.04
87683	Hexachlorobutadiene	0.09
82688	Pentachloronitrobenzene (Quintobenzene)	0.03
78591	Isophorone	0.7
79005	1,1,2-Trichloroethane	0.1
74873	Methyl chloride (Chloromethane)	1.0
67721	Hexachloroethane	0.5
1582098	Trifluralin	0.9
1319773	Cresols/Cresylic acid (isomers and mixture)	1.0
108394	m-Cresol	1.0
75343	Ethylidene dichloride (1,1- Dichloroethane)	1.0
95487	o-Cresol	1.0
106445	p-Cresol	1.0
74884	Methyl iodide (Iodomethane)	1.0
100425	Styrene	1.0
107051	Allyl chloride	1.0
334883	Diazomethane	1.0
95954	2,4,5_ Trichlorophenol	1.0
133904	Chloramben	1.0
106887	1,2_Epoxybutane	1.0
108054	Vinyl acetate	1.0
126998	Chloroprene	1.0
123319	Hydroquinone	1.0
92933	4-Nitrobiphenyl	1.0
56382	Parathion	0.1

CAS Number	Chemical Name	EPA de minimis, tons/year
13463393	Nickel Carbonyl	0.1
60344	Methyl hydrazine	0.006
151564	Ethylene imine	0.0003
77781	Dimethyl sulfate	0.1
107302	Chloromethyl methyl ether	0.1
57578	beta-Propiolactone	0.1
100447	Benzyl chloride	0.04
98077	Benzotrichloride	0.0006
107028	Acrolein	0.04
584849	2,4_Toluene diisocyanate	0.1
75741	Tetramethyl lead	0.01
78002	Tetraethyl lead	0.01
12108133	Methylcyclopentadienyl manganese	0.1
624839	Methyl isocyanate	0.1
77474	Hexachlorocyclopentadiene	0.1
62207765	Fluomine	0.1
10210681	Cobalt carbonyl	0.1
79118	Chloroacetic acid	0.1
534521	4,6-Dinitro-o-cresol, and salts	0.1
101688	Methylene diphenyl diisocyanate	0.1
108952	Phenol	0.1
62384	Mercury, (acetato-o) phenyl	0.01
98862	Acetophenone	1.0
108316	Maleic anhydride	1.0
532274	2-Chloroacetophenone	0.06
51285	2,4-Dinitrophenol	1.0
109864	2-Methoxy ethanol	10.0
98953	Nitrobenzene	1.0
74839	Methyl bromide (Bromomethane)	10.0
75150	Carbon disulfide	1.0
121697	N,N-Dimethylaniline	1.0
106514	Quinone	5.0

CAS Number	Chemical Name	EPA de minimis, tons/year
123386	Propionaldehyde	5.0
120809	Catechol	5.0
85449	Phthalic anhydride	5.0
463581	Carbonyl sulfide	5.0
132649	Dibenzofurans	5.0
100027	4-Nitrophenol	5.0
540841	2,2,4-Trimethylpentane	5.0
111422	Diethanolamine	5.0
822060	Hexamethylene-1,6-diisocyanate	5.0
-	Glycol ethersa	5.0
-	Polycyclic organic matterb	0.01

11.0 Prevention of Significant Deterioration Exemption

11.1 Prevention of significant deterioration review exemption. The owner or operator is exempt from a prevention of significant deterioration review for volatile organic compounds from the construction and operation of Unit #17 through #36, inclusive. The exemption is based on the air emission limit in permit conditions 7.7. Any relaxation in the permit condition 7.7 that increases applicable emissions equal to or greater than 238 tons of volatile organic compounds per 12-month rolling period may require a full prevention of significant deterioration review as though construction had not commenced on the source.

APPENDIX A

LIST OF HAZARDOUS AIR POLLUTANTS

APPENDIX A
LIST OF HAZARDOUS AIR POLLUTANTS

CAS number	Chemical name
75070	Acetaldehyde
60355	Acetamide
75058	Acetonitrile
98862	Acetophenone
53963	2-Acetylaminofluorene
107028	Acrolein
79061	Acrylamide
79107	Acrylic acid
107131	Acrylonitrile
107051	Allyl chloride
92671	4-Aminobiphenyl
62533	Aniline
90040	o-Anisidine
1332214	Asbestos
71432	Benzene (including benzene from gasoline)
92875	Benzidine
98077	Benzotrichloride
100447	Benzyl chloride
92524	Biphenyl
117817	Bis(2-ethylhexyl)phthalate (DEHP)
542881	Bis(chloromethyl)ether
75252	Bromoform
106990	1,3-Butadiene
156627	Calcium cyanamide
105602	Caprolactam
133062	Captan
63252	Carbaryl
75150	Carbon disulfide
56235	Carbon tetrachloride
463581	Carbonyl sulfide

CAS number	Chemical name
120809	Catechol
133904	Chloramben
57749	Chlordane
7782505	Chlorine
79118	Chloroacetic acid
532274	2-Chloroacetophenone
108907	Chlorobenzene
510156	Chlorobenzilate
67663	Chloroform
107302	Chloromethyl methyl ether
126998	Chloroprene
1319773	Cresols/Cresylic acid (isomers and mixtures)
95487	o-Cresol
108394	m-Cresol
106445	p-Cresol
98828	Cumene
94757	2,4-D, salts and esters
3547044	DDE
334883	Diazomethane
132649	Dibenzofurans
96128	1,2-Dibromo-3-chloropropane
84742	Dibutylphthalate
106467	1,4-Dichlorobenzene(p)
91941	3,3-Dichlorobenzidene
111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)
542756	1,3-Dichloropropene
62737	Dichlorvos
111422	Diethanolamine
121697	N,N-Diethyl aniline (N,N-Dimethylaniline)
64675	Diethyl sulfate
119904	3,3-Dimethoxybenzidine
60117	Dimethyl aminoazobenzene
119937	3,3'-Dimethyl benzidine

CAS number	Chemical name
79447	Dimethyl carbamoyl chloride
68122	Dimethyl formamide
57147	1,1-Dimethyl hydrazine
131113	Dimethyl phthalate
77781	Dimethyl sulfate
534521	4,6-Dinitro-o-cresol, and salts
51285	2,4-Dinitrophenol
121142	2,4-Dinitrotoluene
123911	1,4-Dioxane (1,4-Diethyleneoxide)
122667	1,2-Diphenylhydrazine
106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)
106887	1,2-Epoxybutane
140885	Ethyl acrylate
100414	Ethyl benzene
51796	Ethyl carbamate (Urethane)
75003	Ethyl chloride (Chloroethane)
106934	Ethylene dibromide (Dibromoethane)
107062	Ethylene dichloride (1,2-Dichloroethane)
107211	Ethylene glycol
151564	Ethylene imine (Aziridine)
75218	Ethylene oxide
96457	Ethylene thiourea
75343	Ethylidene dichloride (1,1-Dichloroethane)
50000	Formaldehyde
76448	Heptachlor
118741	Hexachlorobenzene
87683	Hexachlorobutadiene
77474	Hexachlorocyclopentadiene
67721	Hexachloroethane
822060	Hexamethylene-1,6-diisocyanate
680319	Hexamethylphosphoramide
110543	Hexane
302012	Hydrazine

CAS number	Chemical name
7647010	Hydrochloric acid
7664393	Hydrogen fluoride (Hydrofluoric acid)
123319	Hydroquinone
78591	Isophorone
58899	Lindane (all isomers)
108316	Maleic anhydride
67561	Methanol
72435	Methoxychlor
74839	Methyl bromide (Bromomethane)
74873	Methyl chloride (Chloromethane)
71556	Methyl chloroform (1,1,1-Trichloroethane)
78933	Methyl ethyl ketone (2-Butanone)
60344	Methyl hydrazine
74884	Methyl iodide (Iodomethane)
108101	Methyl isobutyl ketone (Hexone)
624839	Methyl isocyanate
80626	Methyl methacrylate
1634044	Methyl tert butyl ether
101144	4,4-Methylene bis(2-chloroaniline)
75092	Methylene chloride (Dichloromethane)
101688	Methylene diphenyl diisocyanate (MDI)
101779	4,4'-Methylenedianiline
91203	Naphthalene
98953	Nitrobenzene
92933	4-Nitrobiphenyl
100027	4-Nitrophenol
79469	2-Nitropropane
684935	N-Nitroso-N-methylurea
62759	N-Nitrosodimethylamine
59892	N-Nitrosomorpholine
56382	Parathion
82688	Pentachloronitrobenzene (Quintobenzene)
87865	Pentachlorophenol

CAS number	Chemical name
108952	Phenol
106503	p-Phenylenediamine
75445	Phosgene
7803512	Phosphine
7723140	Phosphorus
85449	Phthalic anhydride
1336363	Polychlorinated biphenyls (Aroclors)
1120714	1,3-Propane sultone
57578	beta-Propiolactone
123386	Propionaldehyde
114261	Propoxur (Baygon)
78875	Propylene dichloride (1,2-Dichloropropane)
75569	Propylene oxide
75558	1,2-Propylenimine (2-Methyl aziridine)
91225	Quinoline
106514	Quinone
100425	Styrene
96093	Styrene oxide
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin
79345	1,1,2,2-Tetrachloroethane
127184	Tetrachloroethylene (Perchloroethylene)
7550450	Titanium tetrachloride
108883	Toluene
95807	2,4-Toluene diamine
584849	2,4-Toluene diisocyanate
95534	o-Toluidine
8001352	Toxaphene (chlorinated camphene)
120821	1,2,4-Trichlorobenzene
79005	1,1,2-Trichloroethane
79016	Trichloroethylene
95954	2,4,5-Trichlorophenol
88062	2,4,6-Trichlorophenol
121448	Triethylamine

CAS number	Chemical name
1582098	Trifluralin
540841	2,2,4-Trimethylpentane
108054	Vinyl acetate
593602	Vinyl bromide
75014	Vinyl chloride
75354	Vinylidene chloride (1,1-Dichloroethylene)
1330207	Xylenes (isomers and mixture)
95476	o-Xylenes
108383	m-Xylenes
106423	p-Xylenes
	Antimony Compounds
	Arsenic Compounds (inorganic including arsine)
	Beryllium Compounds
	Cadmium Compounds
	Chromium Compounds
	Cobalt Compounds
	Coke Oven Emissions
	Cyanide Compounds ¹
	Glycol ethers ²
	Lead Compounds
	Manganese Compounds
	Mercury Compounds
	Fine mineral fibers ³
	Nickel Compounds
	Polycyclic Organic Matter ⁴
	Radionuclides (including radon) ⁵
	Selenium Compounds

NOTE: For all listings above which contain the word "compounds" and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.

¹ X'CN where X = H' or any other group where a formal dissociation may occur. For example KCN or Ca(CN)₂

² Includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH₂CH₂)_n-OR' where

n = 1, 2, or 3

R = alkyl or aryl groups

R' = R, H, or groups which, when removed, yield glycol ethers with the structure: R-(OCH₂CH₂)_n-OH. Polymers are excluded from the glycol category.

³ Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.

⁴ Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 °C.

⁵ A type of atom which spontaneously undergoes radioactive decay.