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Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

| | |
|----------------------|--|
| Permittee Name: | Bassett Furniture Industries, Inc. |
| Facility Name: | Bassett Furniture Industries, Inc. Plant 11 |
| Facility Location: | 747 Beaver Creek Drive Martinsville, Virginia |
| Registration Number: | 31013 |
| Permit Number: | BRRO-31013 |

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 6 through 28)

December 11, 2013
Effective Date

December 10, 2018
Expiration Date

Robert J. Weld
Regional Director

December 11, 2013
Signature Date

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Facility Information

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Responsible Official
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Plant Manager

Facility
Bassett Furniture Industries, Inc. Plant 11
747 Beaver Creek Drive
Martinsville, Virginia, 24112

Contact Person
Lynwood Scott
Director of Environmental Affairs
(276) 629-6240

County-Plant Identification Number: 51-089-00116

Facility Description: NAICS 337122 – This is a small wood household furniture manufacturing facility constructed in the late 1990's. Wood tables are the primary product. The two major processes at the plant are woodworking and finishing operations. The plant receives dried sawn lumber, performs various woodworking and furniture assembly operations and finishes the assembled furniture.

The facility is a Title V major source due to potential emissions of VOC exceeding 100 tons/yr and combined potential emissions of HAPs exceeding 25 tons/yr. Individual HAPs include ethyl benzene, toluene and xylene. This source is located in an attainment area for all pollutants.

Emission Units

Equipment to be operated consists of:

| Emission Unit ID | Stack ID | Emission Unit Description | Size/Rated Capacity* | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Permit Document Date |
|---|-----------------|---|-----------------------------|---|---------------|-----------------------------|-----------------------------|
| Woodworking | | | | | | | |
| T-WW1 | S-3 | Woodworking for tables equipment includes sanders, shapers, saws, borers, routers | 38 tables/hr | Pneumafil Model 13.5-460-10 | CD-WW1 | PM/PM ₁₀ | 6-8-2004 |
| T-WW2 | S-4 | Woodworking for chairs equipment includes sanders, shapers, saws, borers, routers | 100 chairs/hr | Pneumafil Model 13.5-460-10 | CD-WW2 | PM/PM ₁₀ | 6-8-2004 |
| Assembly - Gluing is Subject to MACT JJ Requirements for New Source | | | | | | | |
| T-WW3 | Not identified | Assembling, including gluing, tables and chairs, and parts for tables and chairs | See T-WW1 and T-WW2 | None | None | N/A | 6-8-2004 |

| T-FW1 Finishing - Subject to MACT JJ Requirements for New Source | | | | | | | |
|--|---|--|---|---------------------------------|--|------------------------------------|----------|
| H112, H113 | S-21 | Sealer Sander and Sander Downdraft Conveyor | VOC: 206 lbs/hr 248 tons/yr (for all of finishing) | Torit Cartridge Filter DFT 3-36 | CD-H103 | PM/PM ₁₀ | 6-8-2004 |
| Roll Coater Line (H103) | S-21 | Buffer | | Torit Cartridge Filter DFT 3-36 | CD-H103 | PM/PM ₁₀ | 6-8-2004 |
| Roll Coater Line (H107, H109) | None | Roll Coaters | | none | None | N/A | 6-8-2004 |
| F100 F102 F104 F106 F108 F109 F111 F113 F114 F120 | 1&2 3&4 5&6 7&8 9&10 11&12 13&14 15&16 17 20 | Spray Booths | | Paper or Styrene Filters | CD-F100 CD-F102 CD-F104 CD-F106 CD-F108 CD-F109 CD-F111 CD-F113 CD-F114 CD-F120 | PM/PM ₁₀ (overspray) | 6-8-2004 |
| F101, F103, F105, F107, F115 | No Stack | drying ovens for stain, washcoat, glaze, topcoat | | None | None | N/A | 6-8-2004 |
| H117 | S-18 | Robot Line - automated spray booth | | Giardina dual water curtain | CD-H117 | PM/PM ₁₀ (overspray) | 6-8-2004 |
| F114 | S-17 | Washoff Tank | | none | None | N/A | 6-8-2004 |

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113)

Limitations

1. **Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113) - Limitations** - Particulate emissions from the assorted woodworking equipment shall be controlled by fabric filters. The fabric filters shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 4 of 06/08/2004 Permit Document)
2. **Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113) - Limitations** - All subsequent transfer of the collected material from the fabric filters shall be controlled by a completely enclosed transfer system.
(9 VAC 5-80-110 and Condition 5 of 06/08/2004 Permit Document)
3. **Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113) - Limitations** - Visible emissions from the fabric filters shall not exceed five (5) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110 and Condition 12 of 06/08/2004 Permit Document)
4. **Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113) - Limitations** - Visible emissions from any fugitive emission points shall not exceed ten percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110 and Condition 13 of 06/08/2004 Permit Document)
5. **Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113) - Limitations** - Emissions from the operation of the woodworking equipment shall not exceed the limits specified below:

| | | |
|-------|--------------|--------------|
| PM | 0.01 gr/dscf | 24.2 tons/yr |
| PM-10 | 0.01 gr/dscf | 24.2 tons/yr |

The tons/yr emissions are derived from the estimated overall emission contribution.
Compliance with the annual limits may be determined as stated in Conditions 3 and 8.a.
(9 VAC 5-80-110 and Condition 11 of 06/08/2004 Permit Document)

Monitoring

6. **Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113) - Monitoring** - Each fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-110 and Condition 4 of 06/08/2004 Permit Document)

7. **Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113) - Monitoring**
- The following visual observations shall be conducted when the woodworking equipment is in operation:
- Each fabric filter exhaust stack (Ref. S-2, S-3 and S-4) at least once per day in which the fabric filter operates.
 - Fugitive emissions from the wood dust collection system at least once per day in which the collection system operates.
- If visible emissions are observed the permittee shall comply with Condition 28.
(9 VAC 5-80-110)

Recordkeeping

8. **Process Equipment Requirements – (T-WW1, T-WW2, H112 and H113) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
- Annual emissions calculations of PM and PM-10, including the information (input variables, emissions factors, control efficiencies, etc.) used in the calculations and the associated justification for use in the emissions calculations. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.
 - The monthly and annual throughput of number of square feet of wood table tops to the wood and wood composite table manufacturing facility. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
 - Records of daily visual observations as required by Condition 7.
 - Records of performed visible emissions evaluations and corrective actions required by Condition 28.
 - Records of maintenance, inspections and training as required by Condition 27.
- These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 17 of 06/08/2004 Permit Document)

Process Equipment Requirements – Spray Booths (F100, F102, F104, F106, F108, F109, F111, F113, F120 and H117), Ovens (F101, F103, F105, F107 and F115), Roll Coater Line (H103, H107 and H109), Washoff Tank (F114) and T-WW3

Limitations

9. **Process Equipment Requirements – (F100, F102, F104, F106, F108, F109, F111, F113, and F120) - Limitations** - Particulate emissions from the finishing line spray booths shall be controlled by filter media designed for a minimum control efficiency of 95%. The spray booths shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 3 of 06/08/2004 Permit Document)

10. **Process Equipment Requirements – (F100, F102, F104, F106, F108, F109, F111, F113, F120 and H117) - Limitations** - Volatile Organic Compound emissions from the furniture finishing spray booths shall be minimized by proper spraying technique, the use of HVLP and air assisted airless spray nozzles, and by complying with Condition 18 of this permit. (9 VAC 5-80-110 and Condition 7 of 06/08/2004 Permit Document)
11. **Process Equipment Requirements – (F100, F102, F104, F106, F108, F109, F111, F113, F120 and H117) - Limitations** - Visible emissions from the finishing line spray booth exhausts shall not exceed five (5) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). (9 VAC 5-80-80, 9 VAC 5-80-110 and Condition 14 of 06/08/2004 Permit Document)
12. **Process Equipment Requirements – (F100, F102, F104, F106, F108, F109, F111, F113, F120, H117, H103, H107, H109 , F114 and T-WW3) - Limitations** - Emissions from the operation of the finishing line spray booths, roll coaters wash off tank and gluing shall not exceed the limits specified below:
- | | | |
|----------------------------|-----------|-------------|
| PM | 1.0 lb/hr | 1.3 tons/yr |
| PM-10 | 1.0 lb/hr | 1.3 tons/yr |
| Volatile Organic Compounds | 206 lb/hr | 248 tons/yr |
- (9 VAC 5-80-110 and Condition 8 of 06/08/2004 Permit Document)

Monitoring

13. **Process Equipment Requirements – (F100, F102, F104, F106, F108, F109, F111, F113, F120 and H117) - Monitoring** - The spray booths shall be equipped with a device to continuously measure the differential pressure drop across the filter media. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times. (9 VAC 5-80-110 and Condition 3 of 06/08/2004 Permit Document)
14. **Process Equipment Requirements – (F100, F102, F104, F106, F108, F109, F111, F113, F120 and H117) - Monitoring** - Each spray booth exhaust (Ref. S- 1, 2, 3, 4, 5, 6, 7, 8 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 19 and 20) shall be observed visually at least once per day in which the spray booth operates. If visible emissions are observed the permittee shall comply with Condition 28. (9 VAC 5-80-110)

Recordkeeping

15. **Process Equipment Requirements – (F100, F102, F104, F106, F108, F109, F111, F113, F120, H117, H103, H107, H109 , F114 and T-WW3) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. A monthly and annual material balance including the throughput and emissions of VOC and PM-10 to demonstrate compliance with Condition 12. Annual throughput and emissions shall be calculated monthly as the sum of each consecutive 12-month period. VOC emissions from gluing operation are to be included in demonstrating compliance with the annual VOC limits stated in Condition 12. No reduction shall be taken for the VOC and solid content of any waste materials shipment.
- b. Records of all input variables, emissions factors, control efficiency and other data or information used in the material balance required in Condition 15.a and the associated justification for use in the material balance.
- c. Coatings used and solids content of coatings used to calculate monthly and annual emissions associated with the spray application of coatings.
- d. A daily record of the number of hours of operation for the finishing line spray booths.
- e. Records of visual observations as required by Condition 14.
- f. Records of performed visible emissions evaluations and corrective actions as required by Condition 28.
- g. Documentation that each type of particulate control for spray booths (paper filter, styrene filter and water curtain) achieves the 95% minimum control efficiency as stated in Condition 9, or a higher control efficiency if used in the emission compliance calculation for demonstrating compliance with the particulate emissions limits stated in Condition 12.
- h. MSDS for glue(s) used, showing VOC content. Monthly and annual glue usage and calculations of VOC emissions from gluing operations.
- i. Records of maintenance, inspections and training as required by Condition 27.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 17 of 06/08/2004 Permit Document)

Facility Wide Conditions – Wood Furniture MACT (40 CFR 63 Subpart JJ)

Limitations

16. **Wood Furniture MACT Requirements - Limitations** - The facility is to be operated in compliance with Federal requirements under 40 CFR Part 63 Subpart JJ (hereafter, Subpart JJ). All terms used regarding Subpart JJ shall have the meanings as defined in 40 CFR 63.801 and 40 CFR 63.2.
(9 VAC 5-60-100, 40 CFR 63 Subpart JJ, 40 CFR 63 Subpart A)
17. **Wood Furniture MACT Requirements - Limitations** - Volatile Hazardous Air Pollutant (VHAP) emissions from the facility shall not exceed the following limits:
 - a. For finishing operations use any of the following methods:
 - i. Achieve a weighted average VHAP content across all coatings of 0.8 lb VHAP/lb solids, as applied;
 - ii. Use compliant finishing materials that meet the following specifications:
 - (a) Each sealer and topcoat has a VHAP content of no more than 0.8 lb VHAP/lb solids, as applied;

- (b) Each stain has a VHAP content of no more than 1.0 lb VHAP/lb solids, as applied;
 - (c) Each thinner contains no more than 10.0 percent VHAP by weight except where excluded by (e) of this sub-section. For purposes of calculating thinner content of this section, VHAP equals HAP;
 - (d) Each washcoat, basecoat, and enamel that is purchased pre-made, that is, it is not formulated onsite by thinning another finishing material, has a VHAP content of no more than 0.8 lb VHAP/lb solids, as applied;
 - (e) Each washcoat, basecoat, and enamel that is formulated onsite is formulated using a finishing material containing no more than 0.8 lb VHAP/lb solids and a thinner containing no more than 3.0 percent VHAP by weight.
- iii. Use any combination of averaging and compliant coatings such that no greater than 0.8 lb of VHAP being emitted per lb of solids used;
- b. For cleaning operations strippable spray booth coatings shall be used that contain no more than 0.8 lb VOC/lb solids, as applied;
 - c. Compliant contact adhesives shall be used based on the following criteria:
 - i. For aerosol adhesives, as well as hot melt, PVA, and urea-formaldehyde adhesives, and for contact adhesives applied to nonporous substrates there is no limit on the VHAP content of these adhesives;
 - ii. For foam adhesives used in products that meet flammability requirements the VHAP content can be no more than 0.2 lb VHAP/lb solids, as applied;
 - iii. For all other contact adhesives the VHAP content can be no more than 0.2 lb VHAP/lb solids, as applied;
 - d. Limit formaldehyde emissions by complying with either of the following methods:
 - i. Limit total formaldehyde (F_{total}) use in coatings and contact adhesives to no more than 400 pounds per rolling 12 month period; or
 - ii. Use coatings and contact adhesives only if they have a product concentration of less than or equal to 1.0 percent formaldehyde by weight.
- (9 VAC 5-80-110 and 40 CFR 63.802)

18. **Wood Furniture MACT Requirements - Limitations** - The permittee shall develop and implement the following work practice standards:
- a. Work practice implementation plan - The permittee shall prepare and maintain a written work practice implementation plan that defines environmentally desirable work practices for the finishing and gluing operations and addresses each of the work practice standards presented in Conditions b. through l. that follow. The plan shall be developed no more than 60 days after the compliance date. The written work practice implementation plan shall be available for inspection by the Administrator upon request. If the Administrator determines that the work practice implementation plan does not adequately address each of the topics specified in 40 CFR 63.803 or that the plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the Administrator may require the permittee to modify the plan. Revisions or modifications to the plan do not require a revision of the source's Title V permit.
 - b. Operator training course - The permittee shall train all new and existing personnel, including contract personnel, who are involved in finishing, gluing, cleaning, and

washoff operations, on the use of manufacturing equipment in these operations, or implementation of the requirements of Subpart JJ. All new personnel shall be trained upon hiring. All existing personnel shall be trained within six months of the compliance date. All personnel shall be given refresher training annually. The permittee shall maintain a copy of the training program with the work practice implementation plan. The training program shall include, at a minimum, the following:

- i. A list of all current personnel by name and job description that are required to be trained;
 - ii. An outline of the subjects to be covered in the initial and refresher training for each position or group of personnel;
 - iii. 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
 - iv. A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion.
- c. Inspection and maintenance plan - The permittee shall prepare and maintain with the work practice implementation plan a written leak inspection and maintenance plan that specifies:
- i. A minimum visual inspection frequency of once per month for all equipment used to transfer or apply coatings, adhesives, or organic HAP solvents;
 - ii. An inspection schedule;
 - iii. Methods for documenting the date and results of each inspection and any repairs that were made;
 - iv. The time frame between identifying the leak and making the repair, which adheres, at a minimum, to the following schedule:
 - v. A first attempt at repair (e.g., tightening of packing glands) shall be made no later than five calendar days after the leak is detected; and
 - vi. 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.
- d. Cleaning and washoff solvent accounting system - The permittee shall develop an organic HAP solvent accounting form to record:
- i. The quantity and type of organic HAP solvent used each month for washoff and cleaning, as defined in 40 CFR 63.801;
 - ii. The number of pieces washed off, and the reason for the washoff; and
 - iii. The quantity of spent organic HAP solvent generated from each washoff and cleaning operation each month, and whether it is recycled onsite or disposed offsite.
- e. Chemical composition of cleaning and washoff solvents - The permittee shall not use cleaning or washoff solvents that contain any of the pollutants listed in Table 4 of Subpart JJ, in concentrations subject to MSDS reporting as required by OSHA.
- f. Spray booth cleaning - The permittee shall not use compounds containing more than 8.0 percent by weight of VOC for cleaning spray booth components other than

conveyors, continuous coaters and their enclosures, or metal filters, or plastic 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 permittee shall use no more than 1.0 gallon of organic HAP solvent per booth to prepare the surface of the booth prior to applying the booth coating.

- g. Storage requirements - The permittee shall use normally closed containers for storing finishing, gluing, cleaning, and washoff materials.
- h. Application equipment requirements - The permittee shall not use conventional air spray guns.
- i. Line cleaning - The permittee shall pump or drain all organic HAP solvent used for line cleaning into a normally closed container.
- j. Gun cleaning - The permittee shall collect all organic HAP solvent used to clean spray guns into a normally closed container.
- k. Washoff operations - The permittee shall control emissions from washoff operations by:
 - i. Using normally closed tanks for washoff; and
 - ii. Minimizing dripping by tilting or rotating the part to drain as much solvent as possible.
- l. Formulation assessment plan for finishing operations - The permittee shall prepare and maintain with the work practice implementation plan a formulation assessment plan that:
 - i. Identifies VHAP from the list presented in Table 5 of Subpart JJ that are being used in finishing operations;
 - ii. Establishes a baseline level of usage for each VHAP identified. The baseline usage level shall be the highest annual usage from 1994, 1995, or 1996, for each VHAP identified, except for formaldehyde and styrene which shall be determined as specified by 40 CFR 63.803 (1)(2). For VHAPs that do not have a baseline, one will be established according to Condition 18.l.vi.
 - iii. Tracks the annual usage of each VHAP identified that is present in amounts subject to MSDS reporting as required by OSHA.
 - iv. If the annual usage of the VHAP identified exceeds its baseline level, then the permittee shall provide a written notification to the Blue Ridge Regional Office and the Administrator that describes the amount of the increase and explains the reasons for exceedance of the baseline level. The following explanations would relieve the owner or operator from further action, unless the affected source is not in compliance with any State regulations or requirements for that VHAP:
 - (a) The exceedance is no more than 15.0 percent above the baseline level;
 - (b) Usage of the VHAP is below the de minimis level presented in Table 5 for that VHAP;
 - (c) The affected source is in compliance with its State's air toxic regulations or guidelines for the VHAP; or
 - (d) The source of the pollutant is a finishing material with a VOC content of no more than 1.0 lb VOC/lb solids, as applied.
 - v. If none of the explanations listed in Condition 18.l.iv are the reason for the increase, the permittee shall confer with the Blue Ridge Regional Office, and the

Administrator to discuss the reason for the increase and whether there are practical and reasonable technology-based solutions for reducing the usage. The evaluation of whether a technology is reasonable and practical shall be based on cost, quality, and marketability of the product, whether the technology is being used successfully by other wood furniture manufacturing operations, or other criteria mutually agreed upon by the Blue Ridge Regional Office, and the Administrator and the owner or operator. If there are no practical and reasonable solutions, the facility need take no further action. If there are solutions, the owner or operator shall develop a plan to reduce the usage of the pollutant to the extent feasible. The plan shall address the approach to be used to reduce emissions, a timetable for implementing the plan, and a schedule for submitting notification of progress.

- vi. If the permittee uses a VHAP of potential concern listed in Table 6 of Subpart JJ for which a baseline level has not been previously established, then the baseline level shall be established as the de minimis level provided in that same table for that chemical. The permittee shall track the annual usage of each VHAP of potential concern identified that is present in amounts subject to MSDS reporting as required by OSHA. If usage of the VHAP of potential concern exceeds the de minimis level listed in Table 6 of Subpart JJ for that chemical, then the permittee shall provide an explanation to the Blue Ridge Regional Office and the Administrator that documents the reason for the exceedance of the de minimis level. If the explanation is not one of those listed in Condition 18.l.iv, the affected source shall follow the procedures established in Condition 18.l.v.

(9 VAC 5-80-110, and 40 CFR 63.803(a)-(1))

19. **Wood Furniture MACT Requirements - Limitations** - At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator 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 source. Operation and maintenance requirements established pursuant to section 112 of the Clean Air Act are enforceable independent of emissions limitations or other requirements in relevant standard.

(9 VAC 5-80-110, 40 CFR 63.802(c) and 40 CFR 63.6(e)(1)(iii))

20. **Wood Furniture MACT Requirements - Limitations** - The permittee shall comply with the applicable sections of 40 CFR Part 63 Subpart A as identified in Table 1 to Subpart JJ of Part 63 – General Provisions Applicability to Subpart JJ.

(9 VAC 5-80-110)

Monitoring

21. **Wood Furniture MACT Requirements – Monitoring** - Continuous compliance with the VHAP emissions limits shall be determined as follows:

- a. For finishing operations when averaging is being used to show continuous compliance, the permittee shall submit the results of the averaging calculation (Equation 1) for each month within that semiannual period and submitting a compliance certification with the semiannual report. The compliance certification shall state that the value of (E), as calculated by Equation 1, is no greater than 0.8. The facility is in violation of the standard if E is greater than 0.8 for any month. A violation of the monthly average is a separate violation of the standard for each day of operation during the month, unless the affected source can demonstrate through records that the violation of the monthly average can be attributed to a particular day or days during the period.

Equation 1:

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

E = the emission limit achieved by an emission point or a set of emission points, in lb VHAP/lb solids.

M_c = the mass of solids in a finishing material or coating \square used monthly, including exempt finishing materials and coatings, lb solids/month.

C_c = the VHAP content of a finishing material or coating (c), in pounds of VHAP per pound of coating solids.

S = the VHAP content of a solvent, expressed as a weight fraction, added to finishing materials or coatings.

W = the amount of solvent, in pounds, added to finishing materials and coatings during the monthly averaging period.

The Emission Limit (E in lb VHAP / lb solids) equals the sum, for all finishing materials and coatings, of the mass of solids in each material used within that month (M_c in lb solids / month) multiplied by the VHAP content in each material (C_c in lb VHAP / lb solids) plus the sum, for all solvents, of the mass of solvent used monthly (W in lb solvent / month) multiplied by the weight fraction of VHAP in the solvent (S in lb VHAP / lb solvent), with this total being divided by the sum, for all finishing materials and coatings, of the mass of solids in each finishing material and coating used within that month (M_c in lb solids / month).

- b. For finishing operations when compliant coatings are being used to show continuous compliance, the permittee shall use compliant coatings and thinners, maintain records that demonstrate the finishing materials and thinners are compliant, and submit a compliance certification with the semiannual report which states that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as stated in Condition 17.a.ii have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. The facility is in violation of the standard whenever a noncompliant coating, as demonstrated by records or by a sample of the coating, is used.
- c. For contact adhesive operations when compliant adhesives are being used to show compliance, the permittee shall submit a compliance certification with the semiannual report. The compliance certification shall state that compliant contact and/or foam adhesives have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant contact and/or foam adhesives were used. Each day a noncompliant contact or foam adhesive is used is a single violation of the standard.
- d. For strippable spray booth coatings the permittee shall submit a compliance certification with the semiannual report. The compliance certification shall state that compliant strippable spray booth coatings have been used each day in the semiannual

reporting period, or should otherwise identify each day noncompliant materials were used. Each day a noncompliant strippable booth coating is used is a single violation of the standard.

- e. For work practice standards the permittee shall submit a compliance certification with the semiannual report. The compliance certification shall state 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 the permittee 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 and the Administrator may require the permittee to modify the plan (see Condition 18.a).
- f. For formaldehyde emissions the permittee shall demonstrate compliance by one of the following methods:
 - i. Calculate total formaldehyde emissions from all finishing materials and contact adhesives used at the facility using Equation 5 and maintain a value of F_{total} no more than 400 pounds per rolling 12 month period, as stated in Condition 17.d.i. Equation 5
$$F_{total} = (C_{fi} V_{C1} + C_{f2} V_{c2} + * * * + C_{fn} V_{cn} + G_{f1} V_{g1} + * * * + G_{f2} V_{g2} + * * * + G_{fn} V_{gn})$$
 - ii. Maintain a certified product data sheet for each coating and contact adhesive used and submit a compliance certification with the semiannual report. The compliance certification shall state that low-formaldehyde coatings and contact adhesives, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. The facility is in violation of the standard whenever a coating or contact adhesive that is not low-formaldehyde, as demonstrated by records or by a sample of the coating or contact adhesive, is used. Use of a noncompliant coating or contact adhesive is a separate violation for each day the noncompliant coating or contact adhesive is used.

(9 VAC 5-80-110, and 40 CFR 63.804(g) and (h))

Recordkeeping

22. **Wood Furniture MACT Requirements - Recordkeeping** - The permittee shall maintain records of the following:

- a. For emission limit purposes, the permittee shall maintain the following:
 - i. A certified product data sheet for each finishing material, thinner, contact adhesive, and strippable spray booth coating subject to the emission limits in Condition 17;
 - ii. The VHAP content, in lb VHAP/lb solids, as applied, of each finishing material and contact adhesive subject to the emission limits in Conditions 17.a and 17.c;
 - iii. The VOC content, in lb VOC/lb solids, as applied, of each strippable booth coating subject to the emission limits in Condition 17.b and
 - iv. The formaldehyde content, in lb/gal, as applied, of each finishing material and contact adhesive subject to the emission limits in Condition 17.d and chooses to comply with the 400 lb/yr limits on formaldehyde in Condition 17.d.i.

- b. Following the averaging method the permittee shall maintain copies of the averaging calculation for each month following the compliance date, as well as the data on the quantity of coatings and thinners used that is necessary to support the calculation of E in Equation 1.
- c. The permittee shall maintain onsite the work practice implementation plan and all records associated with fulfilling the requirements of that plan, including, but not limited to:
 - i. Records demonstrating that the operator training program required by Condition 18.b is in place;
 - ii. Records collected in accordance with the inspection and maintenance plan required by Condition 18.c;
 - iii. Records associated with the cleaning solvent accounting system required by Condition 18.d;
 - iv. Records associated with the formulation assessment plan required by Condition 18.1 and;
 - v. Copies of documentation such as logs developed to demonstrate that the other provisions of the work practice implementation plan are followed.
- d. The permittee shall maintain records of the compliance certifications submitted for each semiannual period following the compliance date.
- e. The permittee shall maintain records of all other information submitted with the compliance status report and the semiannual reports.
- f. The permittee shall maintain files of all information (including all reports and notifications) required, recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be retained on site. The remaining three (3) years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.
(9 VAC 5-80-110, 40 CFR 63.806 & 63.10(b)(1) and Condition 17.d of 06/08/2004 Permit Document)

Testing

23. **Wood Furniture MACT Requirements - Testing** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use appropriate test methods in accordance with procedures approved by the DEQ or specified in the Subpart JJ.
(9 VAC 5-80-110 and 40 CFR 63.805)

Reporting

24. **Wood Furniture MACT Requirements – Notification of Compliance** - Each time a notification of compliance status is required the permittee shall submit to the Blue Ridge Regional Office and Administrator, a notification of compliance status, signed by a responsible official of the company that owns or operates the facility who shall certify its accuracy, attesting to whether the source has complied with 40 CFR Part 63 Subpart JJ. The notification shall list:
- a. The methods that were used to determine compliance;

- b. The results of any performance tests, opacity or visible emission observations, continuous monitoring system (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted;
 - c. The methods that will be used for determining continuing compliance, including a description of monitoring and reporting requirements and test methods;
 - d. The type and quantity of hazardous air pollutants emitted by the source, reported in units and averaging times and in accordance with the test methods specified;
 - e. An analysis demonstrating whether the facility is a major source or an area source (using the emissions generated for this notification);
 - f. A description of the method for each emission point, including each method for each hazardous air pollutant and the control efficiency (percent) for each or method; and
 - g. A statement by the permittee as to whether the facility has complied with 40 CFR 63 Subpart JJ as expressed in this permit.
- (9 VAC 5-80-110)

25. **Wood Furniture MACT Requirements - Reporting** - Reporting not otherwise required by this permit shall consist of the following:

- a. The permittee when demonstrating continuous compliance shall submit a report covering the previous six (6) months of wood furniture manufacturing operations.
 - i. Reports shall be submitted no later than March 1 and September 1 of each calendar year.
 - ii. The semiannual reports shall include the information required by Condition 21, a statement of whether the facility was in compliance or noncompliance, and, if the facility was in noncompliance, the measures taken to bring the facility into compliance.
 - iii. The frequency of the reports shall not be reduced from semiannually regardless of the history of the owner's or operator's compliance status.
- b. The permittee, when required to provide a written notification by Condition 18.1.iv for exceedance of a baseline level shall include in the notification one or more statements that explains the reasons for the usage increase. The notification shall be submitted no later than 30 calendar days after the end of the annual period in which the usage increase occurred.

(9 VAC 5-60-100, 9 VAC 5-80-110, and 40 CFR 63.807)

26. **Wood Furniture MACT Requirements - Submittals** - Reports and submittals regarding 40 CFR 63, Subpart JJ to the Administrator shall be sent to the Blue Ridge Regional Office, and to EPA Region III at the following addresses:

VA DEQ, Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, VA 24019

U.S. EPA Region III
Air Protection Division (3AP00)
ATTN: Wood Furniture NESHAP Coordinator
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-60-100 and 40 CFR 63.10(d) & 63.13)

Facility Wide Conditions

Limitations

27. **Facility Wide Conditions - Limitations (Operation and Maintenance Procedures)** - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:
- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
 - b. Develop an inspection schedule, monthly at a minimum, to insure the operational integrity of the air pollution control equipment and maintain records of inspection results.
 - c. Have available written operating procedures for the air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
 - d. Train operators in the proper operation of all air pollution control equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.
 - e. Maintain an inventory of spare parts that are needed to maintain the air pollution control equipment in proper working order.

Records of maintenance, inspections and training shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110, 9 VAC 5-40-20 E, 9 VAC 5-50-20E and Conditions 21 and 22 of 06/08/2004 Permit Document)

Monitoring

28. **Facility Wide Conditions - Monitoring** - If visible emissions are observed from the fabric filter exhaust stacks, spray booth exhaust stacks or fugitive emissions are observed from the wood dust handling system during the observations required by Conditions 7 or 14 the permittee shall:
- a. Take timely corrective action such that the fabric filter, the spray booth filter device or the wood dust handling system resumes normal operation and there are no visible emissions from the exhaust stack, or no fugitive visible emissions from the wood dust handling system; or,
 - b. Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the exhaust stack does not exceed five percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second observations exceed five percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the fabric filter or the spray booth filter device resumes operation with visible emissions of five percent or less.

- c. Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure fugitive visible emissions from the wood dust handling system does not exceed ten percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the 15-second observations exceed ten percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the fugitive emissions from the wood dust handling system is five percent or less.
 (9 VAC 5-80-110 E)

Testing

29. **Facility Wide Conditions - Testing** - The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
 (9 VAC 5-80-110 and Condition 6 of 06/08/2004 Permit Document)

Insignificant Emission Units

30. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

| Emission Unit No. | Emission Unit Description | Citation | Pollutant(s) Emitted (9 VAC 5-80-720 B) | Rated Capacity (9 VAC 5-80-720 C) |
|--------------------------|-------------------------------------|------------------|--|--|
| BLR 3, 4, 5 | natural gas-fired hot water heaters | 9 VAC 5-80-720 C | | 1.6 MMBtu/hr each |

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Permit Shield & Inapplicable Requirements

31. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

| Citation | Title of Citation | Description of Applicability |
|------------------------------|---|--|
| 40 CFR Part 63 Subpart DDDD | Plywood and Composite Wood Products MACT | no PCWP manufacturing or processes |
| 40 CFR Part 64 | Compliance Assurance Monitoring (CAM) | none of the units have 100 tons of uncontrolled particulate emissions |
| 40 CFR Part 63 Subpart DDDDD | Industrial Boiler and Process Heater MACT | Hot water tanks exempt; and the drying ovens are subject to 40 CFR Part 63 Subpart JJ. |

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

General Conditions

32. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)
33. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
34. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
35. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
36. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
37. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii)

all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

38. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
39. **General Conditions - Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
- a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.
- (9 VAC 5-80-110 F)
40. **General Conditions - Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
41. **General Conditions - Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - i. Exceedance of emissions limitations or operational restrictions;
 - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”
- d. The report shall be sent to the following address:
VA DEQ, Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, VA 24019
(9 VAC 5-80-110 F)

42. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31.
- b. The identification of each term or condition of the permit that is the basis of the certification.
- c. The compliance status.
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
- e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
- f. Such other facts as the permit may require to determine the compliance status of the source.
- g. The annual compliance certification shall be sent to the following address:
VA DEQ, Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, VA 24019
- h. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:
R3_APD_Permits@epa.gov
(9 VAC 5-80-110 K.5)

43. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, Blue Ridge Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 41 of this permit. (9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)
44. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Blue Ridge Regional Office by facsimile transmission, telephone or teletype of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Blue Ridge Regional Office. (9 VAC 5-20-180 C)
45. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit. (9 VAC 5-80-110 G.1)
46. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application. (9 VAC 5-80-110 G.2)
47. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (9 VAC 5-80-110 G.3)

48. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)
49. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)
50. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
51. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)
52. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)
53. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
 - a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

54. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E)

55. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

56. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

57. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:
- The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
 - The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.
(9 VAC 5-80-110 L)
58. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)
59. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
60. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
61. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
62. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of Condition 63 are met.
(9 VAC 5-80-250)

63. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
(9 VAC 5-80-250)
64. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
(9 VAC 5-80-250)
65. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)
66. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)

67. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)
68. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)
69. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)
70. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)
71. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)
72. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
- (9 VAC 5-80-110 I)