



ONE CITY. ONE JACKSONVILLE.

City of Jacksonville, Florida

Neighborhoods Department
Environmental Quality Division
Ed Ball Building
214 N. Hogan St., 5th Floor
Jacksonville, FL 32202
(904) 255-7100
www.coj.net

PERMITTEE

Johns Manville Inc.
5510 West 12th Street
Jacksonville, Florida 32254

Authorized Representative:
Mr. John Dodi, Plant Manager

Air Permit No. 0310334-010-AF
Federally Enforceable State Operation Permit

Johns Manville Inc. – Jacksonville Operations
Duval County, Florida

PROJECT

This is the final Federally Enforceable State Operation Permit, which authorizes the operation of Johns Manville Inc. – Jacksonville Operations, which is a foam insulation board manufacturing facility (Standard Industrial Classification No. 3086). This project renews Air Operation Permit No. 0310334-009-AF. Johns Manville is located in Duval County at 5510 West 12th Street in Jacksonville, Florida. The UTM coordinates are Zone 17, 428.43 kilometers (km) East, and 3357.59 km North.

This permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (General Conditions); Sections 5 (Common Conditions); and Section 6 (Common Testing Requirements). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

Permitting Authority: Applications for air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Rules 62-4 and 62-210 of the Florida Administrative Code (F.A.C.). The Permitting Authority responsible for making a permit determination for this project is the Neighborhoods Department, Environmental Quality Division. The Permitting Authority's physical address and mailing address is 214 North Hogan Street, Suite 500, Jacksonville, Florida 32202. The Permitting Authority's telephone number is (904) 255-7100.

Petitions. A person whose substantial interests are affected by the proposed decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel, City of Jacksonville, 117 West Duval Street, Suite 480, Jacksonville, Florida 32202. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this notice. Petitions filed by any other person must be filed within 14 days of receipt of this proposed action. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

FINAL AIR OPERATION PERMIT

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when each petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and, (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Effective Date: This permitting decision is final and effective on the date filed with the clerk of the Permitting Authority unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this action will not be effective until further order of the Permitting Authority.


Judicial Review: Any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Office of General Counsel, City of Jacksonville, 117 West Duval Street, Suite 480, Jacksonville, FL 32202 [Telephone: (904) 630-1700; Fax: (904) 630-1731], and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Permitting Authority.

0310334-010-AF Effective Date: July 21, 2017

Renewal Application Due Date: May 1, 2022

Expiration Date: June, 30, 2022

Executed in Jacksonville, Florida



Richard L. Robinson, P.E., Manager
Air Pollution Source Permitting Section

RLR/HDS

FINAL PERMIT

CERTIFICATE OF SERVICE

The clerk hereby certifies that this Federally Enforceable State Operation Permit package was sent by electronic mail with a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Mr. John Dodi, Plant Manager, Johns Manville (dodij@jm.com)

Mr. Daniel Hemsall, CSP, SGE – Regional Health & Safety Specialist – Roofing Systems
(Daniel.Hemsall@jm.com)

Mr. Scott McCann, P.E., (Geosyntec Consultants)

Ms. Julie Hudson, Environmental Manager, FDEP, Northeast District (Julie.Hudson@dep.state.fl.us)

Mr. Wayne Walker, EQD (WLW@cojnet)

Ms. Shannon Stone, EQD (Stone@coj.net)

Ms. Patricia Gee-Jones, EQD (patricia@coj.net)

FILING AND ACKNOWLEDGMENT FILED, on
this date, pursuant to Section 120.52(7), F.S., with the
clerk, receipt of which is hereby acknowledged.



(Clerk)

7-21-17

(Date)

**SECTION 1.
GENERAL INFORMATION**

FACILITY DESCRIPTION

Johns Manville, Inc. – Jacksonville Operations operates a foam insulation board manufacturing process. Operations at the facility include unloading and storage of 4,4'-Methylene Diphenyl Diisocyanate (MDI), polyol, and pentane; material blending; panel production and cutting; and product storage. The facility uses a hydrocarbon mixture as blowing agents in the manufacture of insulation panels. Pentane, used as a blowing agent, is stored in a 30,000-gallon tank. The tank will be maintained under pressure and vented back to the supply tanker during loading.

The insulation panel manufacturing laminator has two (2) 0.478 million British Thermal Units per hour, natural gas fired, burners. Ventilation hoods are installed on the board laminator. Volatile Organic Compound (VOC) emissions are collected by the ventilation hoods and exhausted to the atmosphere.

The existing facility consists of the following emissions units (EU).

EU No.	Emission Unit Description
001	Cutting Operation
003	Insulation Panel Manufacturing

APPLICABLE REGULATIONS

A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
<i>Federal Rule Citations</i>	
40 CFR 60, Appendix A	001, 003
<i>State Rule Citations</i>	
Rule 62-4.070(3), F.A.C.	001, 003
Rule 62-204.800, F.A.C., Federal Regulations Adopted by Reference.	001, 003
Rule 62-210.200, F.A.C., Definitions	001,003
Rule 62-296.700, F.A.C., RACT Particulate Matter	001
Rule 62-296.712, F.A.C., Miscellaneous Manufacturing Process Operations	001
Rule 62-297.310, F.A.C., General Emissions Test Requirements	001,003
<i>Local Rule Citations</i>	
Rule 2.1401, JEPB Adopts 62-4, F.A.C. by reference	001, 003
Rule 2.201, JEPB Adopts 62-204, F.A.C. by reference	001, 003
Rule 2.301, JEPB Adopts 62-210, F.A.C. by reference	001, 003
Rule 2.1101, JEPB Adopts 62-296, F.A.C. by reference	001
Rule 2.1201, JEPB Adopts 62-297, F.A.C. by reference	001, 003

**SECTION 1.
GENERAL INFORMATION**

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

The facility is a synthetic non-title V source of air pollution because the operational limit assumed by the owner will limit the potential emissions of regulated air pollutants to less than 100 tons per year and the potential emissions of Hazardous Air Pollutants (HAP) to less than 10 tons per year for a single HAP and less than 25 tons per year for total HAPs pursuant to Rule 62-210.200(275), F.A.C. and Rule 2.301, JEPB.

SECTION 2.
ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Neighborhoods Department, Environmental Quality Division. The Permitting Authority's physical and mailing address is 214 North Hogan Street, Suite 500, Jacksonville, Florida 32202. All documents related to applications for permits to operate an emissions unit shall be submitted to the Permitting Authority.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Permitting Authority at the mailing address stated in Administrative Requirement No. 1.
3. Appendices: The following Appendices are a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms) and Operation and Maintenance Plan for the dust collector for Emission Unit No. 001
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Rules 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Permitting Authority may require the permittee to conform to new or additional conditions. The Permitting Authority shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Permitting Authority may grant additional time. [Rule 62-4.080, F.A.C. and Rule 2.1401, JEPB]
6. Modifications: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Permitting Authority. Such permit shall be obtained prior to beginning construction or modification. [Rule 62-210.300(1), F.A.C., Rule 62-212.300(1)(a), F.A.C., Rule 2.301, JEPB, and Rule 2.401, JEPB]
7. Source Obligation:
 - (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of Rule 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
 - (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of Rule 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.[Rule 62-212.400(12), F.A.C. and Rule 2.401, JEPB]
8. Renewal. Prior to 60 days before the expiration date of this permit, the permittee shall apply for a renewal of the permit. A renewal application shall be timely and sufficient. If the application is submitted prior to 60 days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the Permitting Authority. [Rule 62-4.090, F.A.C. and Rule 2.1401, JEPB]

SECTION 2.
ADMINISTRATIVE REQUIREMENTS

9. **Annual Operating Report (AOR):** The information required by the Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Permitting Authority. All synthetic non-Title V sources or all facilities with the potential to emit 10 tons/year or more of volatile organic compounds (VOC) or 25 tons/year or more of nitrogen oxides (NO_x) and located in an ozone nonattainment area or ozone air quality maintenance area shall submit a completed DEP Form 62-210.900(5) unless the annual operating report is submitted using the DEP's electronic annual operating report software. Emissions shall be computed in accordance with the provisions of Rule 62-210.370(2), F.A.C. [Rule 62-210.370(3), F.A.C. and Rule 2.301, JEPB]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: <http://www.dep.state.fl.us/air/emission/eaor>. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

10. **Facility-wide VOC Limitation:** Facility wide VOC emissions shall be less than 100 tons per year on a 12 month rolling total. Monthly VOC emissions shall be determined by using the highest VOC testing results (laminating process and cutting operations), by using maximum VOC content multiplied by material usage (new product trial runs) and by using the best available VOC emission factors (board storage and VOC storage tanks). [Applicant's request, Rule 62-210.200(275), F.A.C., Rule 62-4.070(3), F.A.C., Rule 2.301, JEPB, and Rule 2.1401, JEPB]
11. **General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited.** The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C. and Rule 2.1101, JEPB]
12. The facility shall be subject to City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].
13. The facility shall be subject to JEPB Rule 2, Part Nos. I through IV, VI through VII and Part Nos. IX through XIV.

SECTION 3.
EMISSIONS UNIT SPECIFIC CONDITIONS

A. Cutting Operation

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
001	Cutting Operation - Insulation panels are produced, shaped, cut and packaged. Emissions are controlled by a Mikro-Pulsaire Dust Collector, Model Number 224-TRW-10.

PERFORMANCE RESTRICTIONS

1. Reasonably Available Control Technology (RACT): This emission unit is subject to RACT requirements, including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), F.A.C. and Rule 2.1101, JEPB]; **Maximum Allowable Emission Rates** [Rule 62-296.700(4), F.A.C. and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), F.A.C. and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), F.A.C. and Rule 2.1101, JEPB].
2. Restricted Operation: The hours of operation are not limited (8,760 hrs/yr). [Rule 62-210.200(PTE), F.A.C. and Rule 2.301, JEPB]
3. Process Rate: The maximum process rate shall not exceed 83.3×10^3 boardfeet per hour and 370×10^6 boardfeet per year. [Applicant's Request, Rule 62-210.200(PTE), F.A.C. and Rule 2.301, JEPB]
4. Nominal Volumetric Flow Rate: The nominal volumetric flow rate for the Mikro-Pulsaire Dust Collector, Model Number 224-TRW-10 is 20,000 dry standard cubic feet per minute (dscfm). [Rule 62-210.200(PTE), F.A.C. and Rule 2.301, JEPB]

EMISSIONS STANDARDS

5. Visible Emissions Standard: Visible emissions shall be limited to 5% opacity. [Rule 62-296.712(2), F.A.C. and Rule 2.1101, JEPB]
6. Particulate Matter Standard: Particulate matter emissions shall not exceed 0.03 gr/dscf [(5.14 pounds per hour (lbs/hr) and 22.53 tons per year (tons/yr))]. [Rule 62-296.712(2), F.A.C. and Rule 2.1101, JEPB]

TESTING REQUIREMENTS

7. Testing Notification: The permittee shall notify the Permitting Authority **at least 15 days prior to any required tests**. Tests shall be conducted in accordance with the applicable requirements specified in Section 6 (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C. and Rule 2.1201, JEPB]
8. Operating Conditions during Emission Testing: Testing of emissions shall be conducted with the emissions unit operating at the testing capacity as defined below. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. **If an emissions unit is tested at less than the testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. Testing capacity is defined as at least 90% of the maximum operation rate specified by the permit.** [Rule 62-297.310(3), F.A.C. and Rule 2.1201, JEPB]
9. Test Methods: Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
5	Determination of Particulate Matter Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources

SECTION 3.
EMISSIONS UNIT SPECIFIC CONDITIONS

A. Cutting Operation

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Permitting Authority. [Rule 62-204.800, F.A.C., Appendix A of 40 CFR 60, and Rule 2.201, JEPB]

10. Frequency of Compliance Test:

- a. Testing for the determination of compliance for Particulate Matter (PM) shall be performed **upon request of the Permitting Authority** in accordance with EPA Reference Method (RM) 5 (as described in 40 CFR 60, Appendix A). The **minimum sample volume shall be 30 dry standard cubic feet**. [Rule 62-296.712(3)(b) and (c), F.A.C. and Rule 2.1101, JEPB]
- b. Testing for the determination of compliance for opacity shall be performed **annually from the date of May 1, 2017** in accordance with EPA Reference Method (RM) 9 (as described in 40 CFR 60, Appendix A). Testing shall be conducted for a minimum period of 30 minutes. [Rule 62-296.712(3)(a), Rule 62-297.310(5)(b), F.A.C., Rule 2.1101, and Rule 2.1201, JEPB]

RECORDS AND REPORTS

11. Test Reports:

- a. The permittee shall file a report with the Permitting Authority on the results of each compliance test as soon as practical but **no later than 45 days after completion of testing**. [Rule 62-297.310(10), F.A.C. and Rule 2.1201, JEPB]
- b. The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Section 6 (Common Testing Requirements) of this permit. [Rule 62-297.310(10), F.A.C. and Rule 2.1201, JEPB]

- 12. Operation and Maintenance Plan:** An Operation and Maintenance Plan shall be attached to and shall be part of this permit. Records shall be maintained on file for a **minimum period of 2 years** and made available to the Permitting Authority upon request. [Rule 62-296.700(6), F.A.C. and Rule 2.1101, JEPB]

SECTION 3.
EMISSIONS UNIT SPECIFIC CONDITIONS

B. Insulation Panel Manufacturing

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
003	Insulation Panel Manufacturing - Rigid foam insulation is made by combining two raw material streams or "sides". The "A Side" consists of 4,4'-Methylene Diphenyl Diisocyanate (MDI) only. The "B Side" consists of a mixture of polyester resin (polyol), additives, and pentane. The two sides are combined at the pour table, which begins a reaction that creates foam. The pour table stack is the first emission point for this emission unit. The foam is enclosed between various substrates and facer materials to form a continuous length panel, which is introduced into a heated conveyor (laminator). The laminator chamber is enclosed and has one ventilation stack. The laminator chamber stack is the second emission point. Two burners provide indirect heat to the laminator chamber. The burners exhaust through the laminator furnace stack. The gang saw stack is the third emission point. The edge trim saw stack is the fourth emission point. The foot saw stack is the fifth emission point. Volatile organic compounds (VOC) are released in the forming process, shaping/ cutting process, and curing/storage process.

PERFORMANCE RESTRICTIONS

1. Restricted Operation: The hours of operation are not limited (8760 hours per year). [Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]
2. Process Rate: The laminator maximum process rate shall not exceed 83.3×10^3 boardfeet per hour and 370×10^6 boardfeet per year. [Applicant's Request, Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]
3. Heat Input: Each natural gas fired laminator burner shall not exceed a heat input rate of 0.478 million British thermal units (Btu) per hour. [Rule 62-210.200(PTE), F.A.C. and Rule 2.301, JEPB]

TESTING REQUIREMENTS

4. Testing Notification: The permittee shall notify the Permitting Authority **at least 15 days prior to any required tests**. Tests shall be conducted in accordance with the applicable requirements specified in Section 6 (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C. and Rule 2.1201, JEPB]
5. Operating Conditions during Emission Testing: Testing of emissions shall be conducted with the emissions unit operating at the testing capacity as defined below. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. **If an emissions unit is tested at less than the testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. Testing capacity is defined as at least 90% of the maximum operation rate specified by the permit.** [Rule 62-297.310(3), F.A.C. and Rule 2.1201, JEPB]
6. Test Methods: Required tests shall be performed in accordance with the following reference methods:

25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)
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The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Permitting Authority. [Rules 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

7. Frequency of Compliance Test: Testing for the determination of compliance shall be performed **every 5 years from the date of May 1, 2016 (May 1, 2021)** in accordance with EPA RM 25A (as described in 40 CFR 60, Appendix A) for volatile organic compounds (VOCs). The following emission points shall be tested for VOCs: Gang saw, edge trim saw, foot saw, pour table vent, and laminator. [40 CFR 60, Appendix A, Rule 62-297.310(8)(a), F.A.C., and Rule 2.1201, JEPB]

SECTION 3.
EMISSIONS UNIT SPECIFIC CONDITIONS

B. Insulation Panel Manufacturing

RECORDS AND REPORTS

8. Monthly Records: The permittee shall maintain monthly records of the following:
- a. Amount of foam board produced (board feet per month);
 - b. Amount of all VOC containing process substances used (gallons);
 - c. VOC content of all VOC containing process substances used (pounds per gallon);
 - d. VOC Emissions (tons per month);
 - e. A 12-month rolling total of VOC emissions (tons per year).
- [Rule 62-4.070(3), F.A.C. and Rule 2.1401, JEPB]
9. Trial Runs of New Products: The permittee may, on an as-needed basis, perform trial runs of new products. For each VOC containing raw material used during these trial runs, the maximum VOC content of the raw material must be multiplied by its respective usage rate and the result directly added to the 12-month rolling total VOC emission rate. Safety Data Sheets for the raw materials used during these trial runs must be maintain and be available upon request. The permittee shall include these records in the quarterly reports that are to be submitted in Specific Condition No. 10. [Applicant Request, Rule 62-4.070(3), F.A.C. and Rule 2.1401, JEPB]
10. Quarterly Reports: Quarterly reports shall be submitted to the Permitting Authority describing the monthly usage of all VOC containing products; the VOC content of these products; the monthly total of VOC emissions; the amount of foam board produced each month; and the rolling twelve month total of VOC emissions for each month. The quarterly reports shall be submitted by the 30th day of the following month after the end of each quarter (January-March, April-June, July-September, and October-December). The final report, which is due by the 30th of January for the quarter October–December, shall include a synopsis of the preceding year. [Rule 62-4.070(3), F.A.C. and Rule 2.1401, JEPB]
11. Record Retention: The above records shall be retained for a **minimum period of 5 years** and shall be made available to the Permitting Authority upon request. [Rule 62-4.070(3), F.A.C. and Rule 2.1401, JEPB]

SECTION 4. GENERAL CONDITIONS

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

SECTION 4. GENERAL CONDITIONS

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - a. Determination of Best Available Control Technology (not applicable);
 - b. Determination of Prevention of Significant Deterioration (not applicable); and
 - c. Compliance with New Source Performance Standards (applicable).
14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - (1) The date, exact place, and time of sampling or measurements;
 - (2) The person responsible for performing the sampling or measurements;
 - (3) The dates analyses were performed;
 - (4) The person responsible for performing the analyses;
 - (5) The analytical techniques or methods used;
 - (6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SECTION 5. COMMON CONDITIONS

Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at the facility.

EMISSIONS AND CONTROLS

1. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C. and Rule 2.1401, JEPB]
2. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C. and Rule 2.301, JEPB]
3. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed 2 hours in any 24-hour period unless specifically authorized by the Department for longer duration. Pursuant to Rule 62-210.700(5), F.A.C., the permit may specify more or less stringent requirements for periods of excess emissions. Rule 62-210.700(Excess Emissions), F.A.C., cannot vary or supersede any federal NSPS or NESHAP provision. [Rule 62-210.700(1), F.A.C. and Rule 2.301, JEPB]
4. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C. and Rule 2.301, JEPB]
5. Excess Emissions - Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C. and Rule 2.301, JEPB]
6. VOC or OS Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C. and Rule 2.1101, JEPB]
7. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2), Rule 62-210.200(Definitions), F.A.C., Rule 2.1101, JEPB, and Rule 2.301, JEPB]
8. General Visible Emissions: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C. and Rule 2.1101, JEPB]
9. Unconfined Particulate Emissions: No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.
 - a. Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter.
 - b. Reasonable precautions include the following:
 - (1) Paving and maintenance of roads, parking areas and yards.
 - (2) Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.

SECTION 5. COMMON CONDITIONS

- (3) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
 - (4) Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne.
 - (5) Landscaping or planting of vegetation.
 - (6) Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
 - (7) Confining abrasive blasting where possible.
 - (8) Enclosure or covering of conveyor systems.
- c. In determining what constitutes reasonable precautions for a particular facility, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

[Rule 62-296.320(4)(c), F.A.C. and Rule 2.1101, JEPB]

RECORDS AND REPORTS

10. **Records Retention:** The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule. [Rule 62-4.160(14)(b), F.A.C. and Rule 2.1401, JEPB]
11. **Emissions Computation and Reporting:**
- a. **Applicability.** This rule sets forth required methodologies to be used by the owner or operator of a facility for computing actual emissions, baseline actual emissions, and net emissions increase, as defined at Rule 62-210.200, F.A.C., and for computing emissions for purposes of the reporting requirements of Rule 62-210.370(3) and Rule 62-212.300(1)(e), F.A.C., or of any permit condition that requires emissions be computed in accordance with this rule. This rule is not intended to establish methodologies for determining compliance with the emission limitations of any air permit. [Rule 62-210.370(1), F.A.C. and Rule 2.301, JEPB]
 - b. **Computation of Emissions.** For any of the purposes set forth in Rule 62-210.370(1), F.A.C., the owner or operator of a facility shall compute emissions in accordance with the requirements set forth in this rule.
 - (1) **Basic Approach.** The owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches set forth below to compute the emissions of a pollutant from an emissions unit; provided, however, that nothing in this rule shall be construed to require installation and operation of any continuous emissions monitoring system (CEMS), continuous parameter monitoring system (CPMS), or predictive emissions monitoring system (PEMS) not otherwise required by rule or permit, nor shall anything in this rule be construed to require performance of any stack testing not otherwise required by rule or permit.
 - (a) If the emissions unit is equipped with a CEMS meeting the requirements of Rule 62-210.370(2)(b), F.A.C., the owner or operator shall use such CEMS to compute the emissions of the pollutant, unless the owner or operator demonstrates to the department that an alternative approach is more accurate because the CEMS represents still-emerging technology.
 - (b) If a CEMS is not available or does not meet the requirements of Rule 62-210.370(2)(b), F.A.C. but emissions of the pollutant can be computed pursuant to the mass balance methodology of Rule 62-210.370(2)(c), F.A.C., the owner or operator shall use such methodology, unless the owner or operator demonstrates to the department that an alternative approach is more accurate.

SECTION 5. COMMON CONDITIONS

- (c) If a CEMS is not available or does not meet the requirements of Rule 62-210.370(2)(b), F.A.C., and emissions cannot be computed pursuant to the mass balance methodology, the owner or operator shall use an emission factor meeting the requirements of Rule 62-210.370(2)(d), F.A.C., unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
- (2) Continuous Emissions Monitoring System (CEMS).
- (a) An owner or operator may use a CEMS to compute emissions of a pollutant for purposes of this rule provided:
 - 1) The CEMS complies with the applicable certification and quality assurance requirements of 40 CFR Part 60, Appendices B and F, or, for an acid rain unit, the certification and quality assurance requirements of 40 CFR Part 75, all adopted by reference at Rule 62-204.800, F.A.C.; or
 - 2) The owner or operator demonstrates that the CEMS otherwise represents the most accurate means of computing emissions for purposes of this rule.
 - (b) Stack gas volumetric flow rates used with the CEMS to compute emissions shall be obtained by the most accurate of the following methods as demonstrated by the owner or operator:
 - 1) A calibrated flow meter that records data on a continuous basis, if available; or
 - 2) The average flow rate of all valid stack tests conducted during a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
 - (c) The owner or operator may use CEMS data in combination with an appropriate f-factor, heat input data, and any other necessary parameters to compute emissions if such method is demonstrated by the owner or operator to be more accurate than using a stack gas volumetric flow rate as set forth at Rule 62-210.370(2)(b)2., F.A.C., above.
- (3) Mass Balance Calculations.
- (a) An owner or operator may use mass balance calculations to compute emissions of a pollutant for purposes of this rule provided the owner or operator:
 - 1) Demonstrates a means of validating the content of the pollutant that is contained in or created by all materials or fuels used in or at the emissions unit; and
 - 2) Assumes that the emissions unit emits all of the pollutant that is contained in or created by any material or fuel used in or at the emissions unit if it cannot otherwise be accounted for in the process or in the capture and destruction of the pollutant by the unit's air pollution control equipment.
 - (b) Where the vendor of a raw material or fuel which is used in or at the emissions unit publishes a range of pollutant content from such material or fuel, the owner or operator shall use the highest value of the range to compute the emissions, unless the owner or operator demonstrates using site-specific data that another content within the range is more accurate.
 - (c) In the case of an emissions unit using coatings or solvents, the owner or operator shall document, through purchase receipts, records and sales receipts, the beginning and ending VOC inventories, the amount of VOC purchased during the computational period, and the amount of VOC disposed of in the liquid phase during such period.

SECTION 5. COMMON CONDITIONS

(4) Emission Factors.

- a. An owner or operator may use an emission factor to compute emissions of a pollutant for purposes of this rule provided the emission factor is based on site-specific data such as stack test data, where available, unless the owner or operator demonstrates to the department that an alternative emission factor is more accurate. An owner or operator using site-specific data to derive an emission factor, or set of factors, shall meet the following requirements.
 - 1) If stack test data are used, the emission factor shall be based on the average emissions per unit of input, output, or gas volume, whichever is appropriate, of all valid stack tests conducted during at least a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
 - 2) Multiple emission factors shall be used as necessary to account for variations in emission rate
 - 3) associated with variations in the emissions unit's operating rate or operating conditions during the period over which emissions are computed.
 - 4) The owner or operator shall compute emissions by multiplying the appropriate emission factor by the appropriate input, output or gas volume value for the period over which the emissions are computed. The owner or operator shall not compute emissions by converting an emission factor to pounds per hour and then multiplying by hours of operation, unless the owner or operator demonstrates that such computation is the most accurate method available.
 - b. If site-specific data are not available to derive an emission factor, the owner or operator may use a published emission factor directly applicable to the process for which emissions are computed. If no directly-applicable emission factor is available, the owner or operator may use a factor based on a similar, but different, process.
- (5) Accounting for Emissions During Periods of Missing Data from CEMS, PEMS, or CPMS. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of missing data from CEMS, PEMS, or CPMS using other site-specific data to generate a reasonable estimate of such emissions.
 - (6) Accounting for Emissions During Periods of Startup and Shutdown. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of the emissions unit.
 - (7) Fugitive Emissions. In computing the emissions of a pollutant from a facility or emissions unit, the owner or operator shall account for the fugitive emissions of the pollutant, to the extent quantifiable, associated with such facility or emissions unit.
 - (8) Recordkeeping. The owner or operator shall retain a copy of all records used to compute emissions pursuant to this rule for a period of five years from the date on which such emissions information is submitted to the department for any regulatory purpose.

[Rule 62-210.370(2), F.A.C. and Rule 2.301, JEPB]

c. *Annual Operating Report for Air Pollutant Emitting Facility*

- (1) The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed each year for the following facilities:
 - (a) All Title V sources.
 - (b) All synthetic non-Title V sources.

**SECTION 5.
COMMON CONDITIONS**

- (c) All facilities with the potential to emit ten (10) tons per year or more of volatile organic compounds or twenty-five (25) tons per year or more of nitrogen oxides and located in an ozone nonattainment area or ozone air quality maintenance area.
- (d) All facilities for which an annual operating report is required by rule or permit.
- (2) Notwithstanding Rule 62-210.370(3)(a), F.A.C., no annual operating report shall be required for any facility operating under an air general permit.
- (3) By April 1 of the year following each calendar year, an annual operating report shall be submitted to the appropriate Department of Environmental Protection (DEP) division, district or DEP-approved local air pollution control program office. However, if the annual operating report is submitted using the DEP's electronic annual operating report software, there is no requirement to submit DEP Form No. 62-210.900(5) to any DEP or local air program office. Each Title V Source shall submit the annual operating report using the DEP's electronic annual operating report software, unless the Title V source claims a technical or financial hardship. A technical or financial hardship is claimed by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management at:

AOR and Major Air Pollution Source Annual Emissions Fee
P.O. Box 3070
Tallahassee, Florida 32315-3070

(See <http://www.dep.state.fl.us/air/emission/eaor/> for information regarding annual operating reports.)

- (4) Emissions shall be computed in accordance with the provisions of Rule 62-210.370(2), F.A.C., for purposes of the annual operating report.

[Rule 62-210.370(3), F.A.C. and Rule 2.301, JEPB]

- d. *Facility Relocation.* Unless otherwise provided by rule or more stringent permit condition, the owner or operator of a relocatable facility must submit a Facility Relocation Notification Form (DEP Form No. 62-210.900(6) to the Department at least 30 days prior to the relocation. A separate form shall be submitted for each facility in the case of the relocation of multiple facilities which are jointly owned or operated. [Rule 62-210.370(4), F.A.C. and Rule 2.301, JEPB]

SECTION 6.
COMMON TESTING REQUIREMENTS

EMISSIONS TESTING REQUIREMENTS

1. **Applicability:** Unless otherwise stated in a specific rule, permit, or other order, the general requirements set forth in Rule 62-297.310(2) through (10), F.A.C., shall be used for regulated stationary sources' emissions tests for comparison with air pollution emission-limiting standards that are enforceable under state law. An emissions test is an emissions rate test, a concentration test, or an opacity test. [Rule 62-297.310(1), F.A.C. and Rule 2.1201, JEPB]

REPORTS

2. **Test Reports:**
 - a. The owner or owner's authorized agent of an emissions unit for which an emissions test is required shall submit a written test report to the compliance authority specified by permit, on the results of each such test as soon as practicable but no later than 45 days after the last run of each test is completed. Test reports may be submitted electronically.
 - b. If the owner or owner's authorized agent of an emissions unit for which an emissions test is required submits the results of each such test electronically using the EPA Electronic Reporting Tool (ERT), the written report specified in Rule 62-297.310(10)(a), F.A.C., need not be submitted, provided the conditions of Rule 62-297.310(10)(b)1. through 3., F.A.C., are met:
 - (1) The owner or owner's authorized agent shall submit the test information using the ERT as soon as practicable but no later than 45 days after the last run of each test is completed;
 - (2) The test information shall provide, as a minimum, the information specified in Rule 62-297.310(10)(c)1. through 24., F.A.C.; and
 - (3) The compliance authority specified by permit must receive written notification, no later than 45 days after the last run of each test is completed, of the date that the test data was submitted using the ERT.

[Rule 62-297.310(10), F.A.C. and Rule 2.1201, JEPB]

APPENDIX A CITATION FORMATS AND GLOSSARY OF COMMON TERMS

CITATION FORMATS

The following illustrate the formats used in the permit to identify applicable requirements from permits and regulations.

Old Permit Numbers

Example: Permit No. AC50-123456 or Permit No. AO50-123456

Where: “AC” identifies the permit as an Air Construction Permit
“AO” identifies the permit as an Air Operation Permit
“123456” identifies the specific permit project number

New Permit Numbers

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: “099” represents the specific county ID number in which the project is located
“2222” represents the specific facility ID number for that county
“001” identifies the specific permit project number
“AC” identifies the permit as an air construction permit
“AF” identifies the permit as a minor source federally enforceable state operation permit
“AO” identifies the permit as a minor source air operation permit
“AV” identifies the permit as a major Title V air operation permit

PSD Permit Numbers

Example: Permit No. PSD-FL-317

Where: “PSD” means issued pursuant to the preconstruction review requirements of the Prevention of Significant Deterioration of Air Quality
“FL” means that the permit was issued by the State of Florida
“317” identifies the specific permit project number

Florida Administrative Code (F.A.C.)

Example: [Rule 62-213.205, F.A.C.]

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

Code of Federal Regulations (CFR)

Example: [40 CFR 60.7]

Means: Title 40, Part 60, Section 7

GLOSSARY OF COMMON TERMS

° F: degrees Fahrenheit

µg: microgram

AAQS: Ambient Air Quality Standard

acf: actual cubic feet

acfm: actual cubic feet per minute

ARMS: Air Resource Management System
(Department’s database)

BACT: best available control technology

bhp: brake horsepower

Btu: British thermal units

CAM: compliance assurance monitoring

CEMS: continuous emissions monitoring system

cfm: cubic feet per minute

CFR: Code of Federal Regulations

CAA: Clean Air Act

CMS: continuous monitoring system

CO: carbon monoxide

CO₂: carbon dioxide

APPENDIX A
CITATION FORMATS AND GLOSSARY OF COMMON TERMS

COMS: continuous opacity monitoring system	NSPS: New Source Performance Standards
DARM: Division of Air Resource Management	O&M: operation and maintenance
DEP: Department of Environmental Protection	O₂: oxygen
Department: Department of Environmental Protection	Pb: lead
dscf: dry standard cubic feet	PM: particulate matter
dscfm: dry standard cubic feet per minute	PM₁₀: particulate matter with a mean aerodynamic diameter of 10 microns or less
EPA: Environmental Protection Agency	ppm: parts per million
ESP: electrostatic precipitator (control system for reducing particulate matter)	ppmv: parts per million by volume
EU: emissions unit	ppmvd: parts per million by volume, dry basis
F: fluoride	QA: quality assurance
F.A.C.: Florida Administrative Code	QC: quality control
F.A.W.: Florida Administrative Weekly	PSD: prevention of significant deterioration
F.D.: forced draft	psi: pounds per square inch
F.S.: Florida Statutes	PTE: potential to emit
FGD: flue gas desulfurization	RACT: reasonably available control technology
FGR: flue gas recirculation	RATA: relative accuracy test audit
ft²: square feet	RBLC: EPA's RACT/BACT/LAER Clearinghouse
ft³: cubic feet	SAM: sulfuric acid mist
gpm: gallons per minute	scf: standard cubic feet
gr: grains	scfm: standard cubic feet per minute
HAP: hazardous air pollutant	SIC: standard industrial classification code
Hg: mercury	SIP: State Implementation Plan
I.D.: induced draft	SNCR: selective non-catalytic reduction (control system used for reducing emissions of nitrogen oxides)
ID: identification	SO₂: sulfur dioxide
kPa: kilopascals	TPD: tons/day
lb: pound	TPH: tons per hour
MACT: maximum achievable control technology	TPY: tons per year
MMBtu: million British thermal units	TRS: total reduced sulfur
MSDS: material safety data sheets	UTM: Universal Transverse Mercator coordinate system
MW: megawatt	VE: visible emissions
NESHAP: National Emissions Standards for Hazardous Air Pollutants	VOC: volatile organic compounds
NO_x: nitrogen oxides	

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JOHNS MANVILLE INC.
OPERATION AND MAINTENANCE PLAN

Emission Unit Description: Cutting Operation – Emission Unit No. 001

Control Equipment Specifications

Manufacturer: _____ Design Air Flow: _____ CFM

Model Number: _____ Air to Cloth Ratio: _____

Type: Dust Collector Bag Material: _____

Cleaning Mechanism: Pulse Jet ☐ Reverse Air ☐ Mechanical ☐ Other ☐ Please describe:

MONTHLY CHECK

Check appropriate box(es) and describe action taken, including date, under comments

Date of Inspection: _____ Inspector's Name: _____

Fan: Good condition ☐ Maintenance Performed ☐

Bags: Good condition ☐ Need repair or replacement ☐

Baghouse Structure: Good condition ☐ Needs repair ☐

Baghouse Clean Air Side: Clean ☐ Light Dust ☐ Heavy Dust ☐

Comments: _____
