



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

SOUTHWEST REGIONAL OFFICE

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Molly Joseph Ward
Secretary of Natural
Resources

David K. Paylor
Director

Jeffrey L. Hurst
Regional Director

March 15, 2017

Mr. Dennis Carroll
President
Consolidated Glass & Mirror Corporation
305 Lineberry Road
Galax, Virginia 24333

Location: Galax, Virginia
Registration No. 11015
Facility ID No. 51-640-00060

Dear Mr. Carroll:

Attached is a permit to operate your mirror manufacturing facility, Plant No. 1, pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution. The attached permit will be in effect beginning March 16, 2017.

The operating permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all permit conditions carefully.

In evaluating the application and arriving at a final decision to issue this permit, the Department deemed the application complete on October 14, 2016, and solicited written public comments by placing a newspaper advertisement in the *Galax Gazette* on January 25, 2017. The thirty-day comment period (provided for in 9 VAC 5-80-270) expired on February 24, 2017, with no comments having been received in this office.

This approval to operate does not relieve Consolidated Glass & Mirror Corporation of the responsibility to comply with all other local, state, and federal permit regulations.

Mr. Dennis Carroll
March 15, 2017
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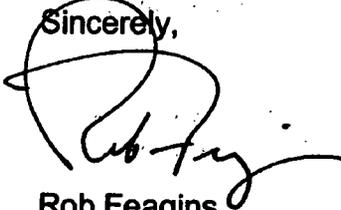
Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
P.O. Box 1105
Richmond, Virginia 23218

In the event that you receive this permit by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please call me at (276) 676-4835.

Sincerely,

Rob Feagins
Air Permit Manager

Attachment: Permit

cc: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Air Enforcement Branch (3AT13), U.S. EPA, Region III



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Jeffrey L. Hurst
Regional Director

Federal Operating Permit
Article 1

Until such time as this permit is reopened and revised, modified, revoked, terminated or it 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 5-80-305 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:	CONSOLIDATED GLASS & MIRROR CORPORATION
Facility Name:	PLANT NO. 1
Facility Address:	305 LINEBERRY ROAD, GALAX VA
DEQ Registration No:	11015
Permit Number:	SWRO11015
Effective Date:	MARCH 16, 2017
Expiration Date:	MARCH 15, 2022

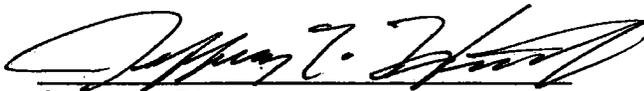

Regional Director
Department of Environmental Quality
Signature Date: MARCH 15, 2017

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Facility Information

Permittee

Consolidated Glass & Mirror Corporation
305 Lineberry Road
Galax, VA 24333

Responsible Official

Mr. Dennis Carroll
(276) 236-5196

Contact Person

Mike Sizemore
Environmental Manager

Facility

Plant No. 1
305 Lineberry Road, Galax, VA

NET Identification Number: 51-640-00060

Facility Description: SIC 3231 – Glass Products, Made of Purchased Glass

Consolidated Glass & Mirror Corporation (CG&M) manufactures glass mirrors at their Plant #1, located at 305 Lineberry Road in Galax, Virginia. Large sheets of glass are delivered to the plant and fed onto the silver line where they are transformed into mirrors on a constantly moving conveyor line. The top surface of the glass is cleaned with water and automated rotating brushes and is then lightly etched with cerium oxide. The cerium oxide roughens the surface of the glass and improves chemical adhesion. A tin sensitizer solution and a silver solution are applied to produce the reflective mirror surface. A copper solution is applied over the silver solution to improve the adhesion of the mirror backing paint to the reflective mirror surface. The mirrors are then heated in an electric oven. The heated mirrors pass through a continuously flowing curtain of paint at the curtain coater. The backing paint is applied over the reflective metals to protect them from environmental conditions (moisture). The viscosity of the backing paint is constantly monitored and additional solvent is added as needed. The mirror back painting process is responsible for the majority of the VOC emissions from the facility.

The mirrors are then unloaded from the conveyor line and inspected for flaws. The mirrors may then be sent directly to shipping or to any of the various cutting, grinding, and/or beveling operations at the facility.

The multi-coat line consists of three sets of curtain coaters and drying ovens in series that can be used to apply three different coatings to the backs of the mirrors. After a coating is applied in the first curtain coater, a conveyor moves the mirrors through a set

of ovens that dry the paint before the mirrors enter the next curtain coater. The VOC emissions from the multi-coat line are controlled by a single regenerative thermal oxidation (RTO) unit.

Solar panel (non-reflective) and window glass (UV) manufacturing operations were added in 2006. Multi-coat curtain coater lines CC2, CC3, and CC4 were added in 2010 and 2011.

Emission sources at the facility include the curtain coater (mirror backing paint) lines, glass cutting lubricant, and glass grinding & beveling coolant.

The facility is a Title V major source of VOC emissions. This source is located in an attainment area for all criteria pollutants. The facility was previously permitted under a minor NSR Permit modification issued on May 27, 2015.

Compliance Assurance Monitoring (CAM) requirements (40 CFR 64) are not applicable to Emission Unit I.D. Nos. 1.A, 1.B, 2, and 3 at this facility since there are no pollution control devices associated with the emission units. CAM requirements are applicable to Emission Unit I.D. No. 4 since this unit utilizes a regenerative thermal oxidizer (RTO) for VOC control.

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	Applicable Permit Date
Curtain Coater – Mirror Back Painting							
1.A	1.A	Sommer and Maca mirror backing paint curtain coater (CC1) (Jan. 1984)	40 gallons per minute	-	-	-	NSR permit mod. issued 05/2/14
Rotogravure UV Roll Coater							
1.B	1.B	Sommer and Maca rotogravure UV roll coater (Jan 1985)	7 lbs./hr	-	-	-	NSR permit mod. issued 05/2/14
Glass Cutting							
2	-	Lubricant for Bystronic Glass Cutting Machine	2 lbs./hr	-	-	-	NSR permit mod. issued 05/2/14
Glass Grinding & Beveling							
3	-	Coolant for glass grinding & beveling operations	200 gallons per week	-	-	-	NSR permit mod. issued 05/2/14
Multi-Coat Mirror Production Line							
4	7	Mirror backing paint curtain coater lines CC2, CC3, and CC4 with drying ovens	40 gallons per minute each	RTO (regenerative thermal oxidizer)	1	VOC	NSR permit mod. issued 05/2/14

**Process Equipment Requirements – Curtain Coater/Mirror Back Painting -
(emission unit ID# 1A - CC1)**

1. **Process Equipment Requirements – (emission unit ID# 1A) - Limitations –**
The curtain coater mirror back painting operation shall consume no more than 88.23 lb/hr and 98.87 tons/yr of paint, calculated as the sum of each consecutive twelve (12) month period. Only paints identified as: PPG Industries UC57354 Gray Mirror Back CC Paint; Lilly Industries, Inc. Betashield 5000 (07280207 and 07280177); Valspar 900X100 Gray Curtain Coat M/B; or their equivalents, may be utilized in the curtain coater mirror back painting operation.
(9 VAC 5-80-1180, 9 VAC 5-80-110 B and Condition 5 of the NSR permit issued May 2, 2014)
2. **Process Equipment Requirements - (emission unit ID# 1A) - Limitations -** The curtain coater mirror back painting operation shall consume no more than 22.47 lb/hr and 24.82 tons/yr of n-butyl acetate, or equivalent reducer, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-1180, 9 VAC 5-80-110 B and Condition 5 of the NSR permit issued May 2, 2014)
3. **Process Equipment Requirements – (emission unit ID# 1A) – Limitations -** Emissions from the operation of the curtain coater mirror back painting process shall not exceed the limitations specified below:

Volatile Organic Compounds	123.61 lbs/hr	100.00 tons/yr
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Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be demonstrated as stated in Conditions 1, 2, 4, 6, and 7 of this permit.
(9 VAC 5-50-260, 9 VAC 5-80-110 B, and Condition 11 of the NSR permit issued May 2, 2014)
4. **Process Equipment Requirements – (emission unit ID# 1A) – Limitations -** The curtain coater unit (Unit I.D. No. 1A) shall consume no more than 20.0 lb/hr and 5.0 tons/yr of Guardian AR Coating, or its equivalent. Annual consumption shall be calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-1180, 9 VAC 5-80-110 B and Condition 5 of the NSR permit issued May 2, 2014)
5. **Process Equipment Requirements - (emission unit ID# 1A) - Limitations –** The consumption of n-propanol, or equivalent cleaning solvent, shall not exceed 5.0 tons/yr, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-1180, 9 VAC 5-80-110 B and Condition 7 of the NSR permit issued May 2, 2014)

6. **Process Equipment Requirements - (emission unit ID# 1A) - Limitations -**
The curtain coater unit (Unit No. I.D. No. 1A) shall consume no more than 88.23 lb/hr and 810 pounds/yr of Red Spot Guardian Galax CC Coating, or its equivalent. Annual consumption shall be calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-1180, 9 VAC 5-80-110 B and Condition 5 of the NSR permit issued May 2, 2014)

7. **Process Equipment Requirements - (emission unit ID# 1A) - Limitations -**
The curtain coater unit (Unit No. I.D. No. 1A) shall consume no more than 104.6 lb/hr and 26.15 tons/yr of n-propanol reducer, or its equivalent. Annual consumption shall be calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-1180, 9 VAC 5-80-110 B and Condition 5 of the NSR permit issued May 2, 2014)

8. **Process Equipment Requirements - (emission unit ID# 1A) - Limitations -**
Emissions from the consumption of n-propanol, or equivalent, cleaning solvents shall not exceed the following:

Volatile Organic Compounds	150 lbs/hr	5.00 tons/yr
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Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be demonstrated as stated in Condition 5.
(9 VAC 5-50-260, 9 VAC 5-80-110 B, and Condition 13 of the NSR permit issued May 2, 2014)

9. **Process Equipment Requirements - (emission unit ID# 1A) - Monitoring and Recordkeeping -** The permittee shall maintain a monthly and annual material balance for the curtain coater mirror back painting operation (Unit ID No. 1A) including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available 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 B, and Condition 17 of the NSR permit issued May 2, 2014)

The periodic monitoring requirements for the curtain coater mirror back painting operation (Unit ID No. 1.A) shall be accomplished through the recordkeeping requirements listed above.
(9 VAC 5-80-110)

10. **Process Equipment Requirements - (emission unit ID# 1A) - Testing** – If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

Process Equipment Requirements – Rotogravure UV Roll Coater - (emission unit ID# 1B)

11. **Process Equipment Requirements - (emission unit ID# 1B) - Limitations** – The rotogravure UV coating process (Unit ID No. 1.B) shall consume no more than 25.0 lb/hr and 75.0 T/yr of the Fenzi S.P.A. Topcoat UV 1 coating or its equivalent, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-1180, 5-80-110 B, and Condition 8 of the NSR permit issued May 2, 2014)

12. **Process Equipment Requirements - (emission unit ID# 1B) - Limitations** – Emissions from the operation of the rotogravure UV coating process (Unit ID No. 1.B) shall not exceed the limitations specified below:

Volatile Organic Compounds	2.75 lbs/hr	8.25 tons/yr
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Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-50-260, 9 VAC 5-80-110 B, and Condition 14 of the NSR permit issued May 2, 2014)

13. **Process Equipment Requirements - (emission unit ID# 1B) – Monitoring and Recordkeeping** – The permittee shall maintain a monthly and annual material balance for the rotogravure UV coating process (Unit ID No. 1.B) including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available 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 B, and Condition 17 of the NSR permit issued May 2, 2014)

The periodic monitoring requirements for the rotogravure UV coating process (Unit ID No. 1.B) shall be accomplished through the recordkeeping requirements listed above.
(9 VAC 5-80-110)

14. **Process Equipment Requirements - (emission unit ID# 1B) - Testing -**
If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

Process Equipment Requirements - Glass Cutting Operations - (emission unit ID# 2)

15. **Process Equipment Requirements - (emission unit ID# 2) - Limitations -**
The glass cutting operations (Unit ID No. 2) shall consume no more than 32.0 lb/hr and 5.0 T/yr of mineral spirits or equivalent lubricant, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-1180, 5-80-110 B, and Condition 9 of the NSR permit issued May 2, 2014)

16. **Process Equipment Requirements - (emission unit ID# 2) - Limitations -**
Emissions from the glass cutting operations (Unit ID No. 2) shall not exceed the limitations specified below:

Volatile Organic Compounds	32.00 lbs/hr	5.00 tons/yr
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Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-50-260, 9 VAC 5-80-110 B, and Condition 15 of the NSR permit issued May 2, 2014)

17. **Process Equipment Requirements - (emission unit ID# 2) - Monitoring and Recordkeeping -** The permittee shall maintain a monthly and annual material balance for the glass cutting operations (Unit ID No. 2) including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available 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 B, and Condition 17 of the NSR permit issued May 2, 2014)

The periodic monitoring requirements for the glass cutting operations (Unit No 2) shall be accomplished through the recordkeeping requirements listed above.
(9 VAC 5-80-110)

18. **Process Equipment Requirements - (emission unit ID# 2) – Testing –**
If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

Process Equipment Requirements – Glass Grinding and Beveling Operations - (emission unit ID# 3)

19. **Process Equipment Requirements - (emission unit ID# 3) - Limitations –**
The glass grinding & beveling operations (Unit ID No. 3) shall consume no more than 13.9 lb/hr and 80.0 T/yr of Quaker Microcut 106-C, or equivalent coolant, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-1180, 5-80-110 B, and Condition 10 of the NSR permit issued May 2, 2014)
20. **Process Equipment Requirements - (emission unit ID# 3) - Limitations –**
Emissions from the circulation and storage of the glass grinding & beveling coolant shall not exceed the limitations specified below:

Volatile Organic Compounds	1.39 lb/hr	8.00 tons/yr
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Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-50-260, 9 VAC 5-50-320, 9 VAC 5-80-110 B, and Condition 16 of the NSR permit issued May 2, 2014)

21. **Process Equipment Requirements - (emission unit ID# 3) – Monitoring and Recordkeeping –** The permittee shall maintain a monthly and annual material balance for the glass coolant used in the glass grinding & beveling operations (Unit ID No. 3), including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available 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 B, and Condition 17 of the NSR permit issued May 2, 2014)

The periodic monitoring requirements for the glass grinding & beveling operations (Unit ID No. 3) shall be accomplished through the recordkeeping requirements listed above.

(9 VAC 5-80-110)

22. **Process Equipment Requirements - (emission unit ID# 3) - Testing -**
 If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.
 (9 VAC 5-80-110)

Process Equipment Requirements - Curtain Coater/Mirror Back Painting, Lines CC2, CC3, and CC4 - (emission unit ID# 4)

23. **Process Equipment Requirements - (emission unit ID# 4) - Limitations -**
 The three multi-coat curtain coater lines CC2, CC3, and CC4 shall consume no more than the listed quantities of the following materials, or their equivalents:

Approved Coating Materials for curtain coater lines CC2, CC3, and CC4	Consumption Limit	
	Hourly	Annual
Fenzi Solarlux 0093, Fenzi Solarlux 0094, Fenzi Solarlux 0095, Fensi Sandolux 1456 White1, Fensi Sandolux 1407 Classic, Fensi One Coat LLE Blue GD (22434), Valspar Mirror Base Reddish Leadfree (GMB3-01080-01), Valspar Mirror Base Coat Reddish Leaded (GMB3-01445-01), Valspar Mirror Base Coat Reddish Leaded (GMB3-03275-01), Valspar Woodlands Green (4201G1300), Valspar Ocean Blue (10L093), Valspar Light Grey (SK3110), Valspar Reddish Leaded (SK9165), and Valspar Deco Glass HP White (SK2940)	409.8 lbs	950 tons
Sunoco Xylene Reducer (Product Code 430500)	58.08 lbs	153 tons

(9 VAC 5-80-1180, 9 VAC 5-80-110 B and Condition 6 of the NSR permit issued May 2, 2014)

24. **Process Equipment Requirements - (emission unit ID# 4) - Limitations -**
 Emissions from the operation of the multi-coat curtain coating lines CC2, CC3, and CC4 shall not exceed the limitations specified below:

Volatile Organic Compounds 33.14 lb/hr 78.99 tons/yr

Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be demonstrated as stated in Conditions 23, 25, 26, and 27.
 (9 VAC 5-50-260, 9 VAC 5-50-320, 9 VAC 5-80-110 B, and Condition 12 of the NSR permit issued May 2, 2014)

25. **Process Equipment Requirements - (emission unit ID# 4) - Limitations -** Volatile organic compound (VOC) emissions from the multi-coat curtain coating lines CC2, CC3, and CC4 (Unit ID No. 4) shall be controlled by a regenerative thermal oxidizer (RTO), or equivalent. The RTO shall be provided with adequate access for inspection and shall be in operation when curtain coater lines CC2, CC3, and CC4 are operating.
(9 VAC 5-50-260, 9 VAC 5-80-1180, 9 VAC 5-80-110 B, and Condition 2 of the NSR permit issued May 2, 2014)
26. **Process Equipment Requirements - (emission unit ID# 4) - Limitations -** The RTO for the multi-coat curtain coater lines CC2, CC3, and CC4 (Unit ID No. 4) shall provide a control efficiency for VOC of not less than 98% on a mass basis.
(9 VAC 5-50-260, 9 VAC 5-80-1180, 9 VAC 5-80-110 B, and Condition 3 of the NSR permit issued May 2, 2014)
27. **Process Equipment Requirements - (emission unit ID# 4) - Limitations -** The enclosures to the three (3) multi-coat curtain coating lines CC2, CC3, and CC4 (Unit ID No. 4) shall provide an overall VOC capture efficiency of not less than 90% on a mass basis.
(9 VAC 5-50-260, 9 VAC 5-80-1180, 9 VAC 5-80-110 B, and Condition 4 of the NSR permit issued May 2, 2014)
28. **Process Equipment Requirements - (emission unit ID# 4) - Monitoring and Recordkeeping -** The permittee shall maintain a monthly and annual material balance for the multi-coat curtain coating lines CC2, CC3, and CC4 (Unit ID No. 4), including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available 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 B, and Condition 17 of the NSR permit issued May 2, 2014)
- The periodic monitoring requirements for the multi-coat curtain coating lines CC2, CC3, and CC4 operations (Unit ID No. 4) shall be accomplished through the recordkeeping requirements listed above.
(9 VAC 5-80-110)
29. **Process Equipment Requirements - Compliance Assurance Monitoring (CAM) for Emission Unit ID# 4 - Regenerative Thermal Oxidizer (RTO) -** The permittee shall monitor, operate, calibrate and maintain the regenerative thermal oxidizer (RTO) for Unit I.D. No. 4 according to the following:

	Indicator No. 1	Indicator No. 2
Indicator	RTO Chamber Temperature	Air Flow into Enclosures
Measurement Approach	RTO chamber temperature is measured by 3 thermocouples and the average is displayed on a digital readout.	Air flow into each enclosure will be indicated by: <ul style="list-style-type: none"> • A manometer measuring the pressure differential between the interior and exterior of each enclosure • Streamers located in the natural draft openings (NDO) will indicate the direction of air flow.
Indicator Range	An excursion is defined as: <ul style="list-style-type: none"> • A temperature less than 1500° F or greater than 1750°; or • A temperature of less than 1525° F for more than 15 consecutive minutes. 	An excursion is defined as: <ul style="list-style-type: none"> • A manometer reading of less than 0.007" (H₂O); or • Any streamer indicating air flow out of an enclosure.
Performance Criteria		
- Data Representativeness	The thermocouples are located in the RTO as an integral part of the unit design. The minimum tolerance of the thermocouples is ± 0.75% of the actual temperature. The minimum chart recorder sensitivity (minor division) is 20° F	<ul style="list-style-type: none"> • The RTO system design is based on a minimum volumetric air flow rate from each enclosure that corresponds to a pressure drop of 0.007" (H₂O) between the interior and exterior of each enclosure. • Streamers located in or near each NDO will indicate air flow direction.
- QA/QC Practices and Criteria	At a minimum, thermocouples will be calibrated annually	<ul style="list-style-type: none"> • Manometer will be inspected monthly. • Streamers will be inspected monthly and replaced as necessary.
- Monitoring Frequency	Temperature is measured continuously.	<ul style="list-style-type: none"> • Pressure drop for each enclosure is to be measured at least once each calendar month. • Streamer air flow direction is measured continuously.
- Data Collection Procedures	Temperature is recorded continuously on a chart recorder; instantaneous temperature will be recorded at least four times per hour. A valid hour is a minimum of 45 minutes of data.	Pressure drop for each enclosure is to be recorded monthly.
- Averaging Period	No average is taken.	No average is taken.

(9 VAC 5-80-110 and 40 CFR 64)

30. **Process Equipment Requirements - (emission unit ID# 4) – CAM Monitoring -**
The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.
(9 VAC 5-80-110, 9 VAC 5-80-490 E, and 40 CFR 64.6 (c))
31. **Process Equipment Requirements - (emission unit ID# 4) – CAM Monitoring -**
At all times, the permittee shall maintain the RTO equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
(9 VAC 5-80-110, 9 VAC 5-80-490 E, and 40 CFR 64.7 (b))
32. **Process Equipment Requirements - (emission unit ID# 4) – CAM Monitoring -**
Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the multi-coat curtain coater lines CC2, CC3, and CC4 (Unit I.D. No. 4) are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.
(9 VAC 5-80-110, 9 VAC 5-80-490 E, and 40 CFR 64.7 (c))
33. **Process Equipment Requirements - (emission unit ID# 4) – CAM Monitoring -**
Upon detecting an excursion or exceedance, the permittee shall restore operation of the multi-coat curtain coater lines CC2, CC3, and CC4 (Unit I.D. No. 4), including the RTO (control device), and associated capture system to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
(9 VAC 5-80-110, 9 VAC 5-80-490 E, and 40 CFR 64.7 (d)(1))

- 34. Process Equipment Requirements - (emission unit ID# 4) – CAM Monitoring -**
Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9 VAC 5-80-110, 9 VAC 5-80-490 E, and 40 CFR 64.7(d)(2))
- 35. Process Equipment Requirements - (emission unit ID# 4) – CAM Monitoring -**
If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director, Southwest Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9 VAC 5-80-110, 9 VAC 5-80-490 E, and 40 CFR 64.7(e))
- 36. Process Equipment Requirements - (emission unit ID# 4) – CAM Monitoring -**
If the number of exceedances or excursions exceeds 5 percent duration of the operating time for the multi-coat curtain coater lines CC2, CC3, and CC4 for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:
- a. Improved preventative maintenance practices;
 - b. Process operation changes;
 - c. Appropriate improvements to control methods;
 - d. Other steps appropriate to correct control performance; and
 - e. More frequent or improved monitoring.
- (9 VAC 5-80-110, 9 VAC 5-80-490 E, and 40 CFR 64.8(a) and (b))

37. Process Equipment Requirements - (emission unit ID# 4) – CAM Monitoring and Recordkeeping -

The permittee shall maintain a monthly and annual material balance for the multi-coat curtain coating lines CC2, CC3, and CC4 (Unit ID No. 4); including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available 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 B, and Condition 17 of the NSR permit issued May 2, 2014).

38. Process Equipment Requirements - (emission unit ID# 4) – CAM Recordkeeping -

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to: the combined monthly and annual consumption of mirror back coatings and xylene reducer in the multi-coat curtain coater lines CC2, CC3, and CC4 (Unit I.D. No. 4); and performance test results. Annual throughput and emissions are to be calculated as the sum of each consecutive 12 month period. These records shall be kept on file for the most current five (5) year period and shall be available on-site for inspection by DEQ personnel.

(9 VAC 5-50-50, 9 VAC 5-80-110 B, and Condition 17 of the NSR permit issued May 2, 2014)

39. Process Equipment Requirements - (emission unit ID# 4) – Testing - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Regulated Pollutant	Reference Method
VOC	EPA Methods 24, 24a, 25a

The DEQ and EPA have the authority to require testing not included in this permit, if necessary to determine compliance with an emission limit or standard.
(9 VAC 5-80-110)

Facility Wide Conditions

40. **Facility Wide Conditions – Limitations - Opacity** - No owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any hour of not more than 30% opacity. Failure to meet these requirements due to the presence of water vapor shall not be seen as a violation. (9 VAC 5-50-80 and 9 VAC 5-80-110)
41. **Facility Wide Conditions – Limitations - Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated. (9 VAC 5-20-180.I, 9 VAC 5-80-110 B, and Condition 21 of the NSR permit issued May 2, 2014)
42. **Facility Wide Conditions – Notifications – Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Director, Southwest Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Director, Southwest Regional Office in writing. (9 VAC 5-20-180 C, 9 VAC 5-80-110, and Condition 18 of the NSR permit issued May 2, 2014)
43. **Facility Wide Conditions – Recordkeeping – Equipment Maintenance and Operating Procedures** - In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
 - b. Maintain an inventory of spare parts that are needed to minimize the duration of air pollution control equipment breakdowns.
 - c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance 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 5-50-20 E, 9 VAC 5-80-110, and Condition 20 of the NSR permit issued May 2, 2014)

44. Facility Wide Conditions – Testing –

- a. The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Upon the request of the board, the owner shall provide, or cause to be provided, emissions testing facilities to include: adequate sampling ports; safe sampling platforms with safe access; and utilities for sampling and testing equipment.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
- b. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

Insignificant Emission Units

45. **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 Emitted (5-80-720 B.)	Rated Capacity (5-80-720 C.)
19	Muriatic Acid (regeneration of deionizers and cleaning filter cloths in filter press)	9 VAC 5-80-720 B6	HCl (31.5%) (none emitted)	4950 gal/yr
20	Defoamer (Coolant Pit and Wastewater Treatment)	9 VAC 5-80-720 B2	VOC	3500 gal/yr
21	Parts Washer	9 VAC 5-80-720 B2	VOC	250 gal/yr
22	Propane (space heaters & water heaters)	9 VAC 5-80-720 B	VOC, PM10, SO ₂ , NO _x , CO	91,000 gal/yr
23	Hydraulic Oil	9 VAC 5-80-720 B	VOC	520 gal/yr
41	Silver Nitrate Solution (mirror plating process)	9 VAC 5-80-720 B	none	-

Emission Unit No.	Emission Unit Description	Citation	Pollutant Emitted (5-80-720 B.)	Rated Capacity (5-80-720 C.)
48	UV Ink (Printing on Mirror Back)	9 VAC 5-80-720 B	VOC	-
49	Rubber Adhesive (Attach particle board mirror backing)	9 VAC 5-80-720 B	VOC	-
50	Rubber Adhesive (Attach particle board mirror backing)	9 VAC 5-80-720 B	VOC	-
51	Air Conditioning Unit for Vinyl Storage	9 VAC 5-80-720 B	Chlorodifluoro methane	-
52	Motor Oil Tank	9 VAC 5-80-720 B	VOC	-
53	Used Oil Tank	9 VAC 5-80-720 B	VOC	-

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

46. **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 63.7575	Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters	Space heaters and water heaters do not meet the definition of process heaters for the MACT, Subpart DDDDD

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

47. **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)
48. **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)
49. **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)
50. **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)
51. **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)
52. **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)

53. **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)
54. **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; and
 - f. The operating conditions existing at the time of sampling or measurement. (9 VAC 5-80-110 F)
55. **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)
56. **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; and
 - 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."
(9 VAC 5-80-110 F)

57. 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; and

- g. 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)

58. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, Southwest 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. 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. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 56 of this permit.
(9 VAC 5-80-110 F.2)
59. **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 Director, Southwest Regional Office by facsimile transmission or telephone 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 Director, Southwest Regional Office.
(9 VAC 9 VAC 5-20-180 C, 9 VAC 5-80-110 B, and Condition 18 of the NSR permit issued May 2, 2014)
60. **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)

61. **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)
62. **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)
63. **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)
64. **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)
65. **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)
66. **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)
67. **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 in addition to an annual permit maintenance fee consistent with the requirements of 9 VAC 5-80-2310 through 9 VAC 5-80-2350. 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. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9 VAC 5-80-2340, adjusted annually by the change in the Consumer Price Index.

(9 VAC 5-80-110 H; 9 VAC 5-80-340 C and 9 VAC 5-80-2340 B)

68. 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 5-50-50 and 9 VAC 5-50-90)

69. 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)

70. **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)
71. **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 and Condition 19 of NSR Permit dated May 2, 2014)
72. **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:
- a. 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.

- b. 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.
- c. 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)

73. **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)

74. **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)

75. **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 and Condition 23 of NSR Permit dated May 2, 2014)

76. **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)

77. **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)
78. **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)
79. **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)
80. **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)
81. **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)
82. **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)

- 83. 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)