



COMMONWEALTH of VIRGINIA

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Federal Operating Permit Article 1

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

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

Permittee Name: RR Donnelley Printing Company
Mailing Address: 4201 Murray Place
Lynchburg, VA 24501-5099
Facility Name: RR Donnelley Printing Company
Registration Number: 30124
Facility Location: Lynchburg, Virginia

<u>Permit Number</u>	<u>Effective Date</u>	<u>Expiration Date</u>
BRRO-30124	May 30, 2013	May 29, 2018

Robert J. Weld
Regional Director, Department of Environmental Quality

May 30, 2013
Signature Date

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I. Facility Information

Permittee

RR Donnelley Printing Company
4201 Murray Place
Lynchburg, VA 24501-5099

Responsible Official

Robert A. Leveque
Vice President of Manufacturing

Facility

RR Donnelley Printing Company
Lynchburg, Va

Contact Person

David L. Rakes
Environmental, Health & Safety
434-522-7599

County-Plant Identification Number: 51-680-00032

Facility Description: NAICS Code: 323111 - Commercial publication rotogravure printing, binding, and mailing of catalogs, newspaper circulars, and other commercial printing products.

II. Emission Units

Equipment to be operated consists of:

A. Significant Emissions Units

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment							
B1	B1	B & W natural gas/distillate oil fired boiler (1971)	24.3 MMBtu/hr	None	N/A	N/A	NA
B2	B2	B & W natural gas/distillate oil fired boiler (1971)	24.3 MMBtu/hr	None	N/A	N/A	NA
B3	B3	Keeler DS-40 natural gas/distillate oil fired boiler (1978)	47.24 MMBtu/hr	None	N/A	N/A	3/1/05 Permit as amended 2/22/06
Printing Presses							
503	SR #2-3	Albert TR5 rotogravure printing press (1974)	1,800 fpm	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
504	SR #2-3	Albert TR5 rotogravure printing press (1974)	1,800 fpm	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
505	SR #2-3	Cerutti PV36 rotogravure printing press (1971)	2,700 fpm	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
506	SR #2-3	Cerutti PV24/5 rotogravure printing press (1978)	2,700 fpm	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
507	SR #2-3	Albert TR6B rotogravure printing press (1988)	2,700 fpm	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
508	SR #2-3	Albert TR6B rotogravure printing press (1997)	3,000 fpm	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
509	SR #2-3	Albert TR6B rotogravure printing press (1997)	3,000 fpm	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
510	SR #2-3	Cerutti rotogravure printing press 123" web width	3,000 fpm	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
Tanks							
FO-1	FO-1	Distillate oil (1989)	30,000 gallons	None	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
FO-2	FO-2	Distillate oil (1989)	30,000 gallons	None	N/A	N/A	N/A
T1	T1	Ink Storage (1988)	16,000 gallons	None	N/A	N/A	N/A
T2	T2	Ink Storage (1988)	16,000 gallons	None	N/A	N/A	N/A
T3	T3	Ink Storage (1988)	16,000 gallons	None	N/A	N/A	N/A
T4	T4	Ink Storage (1988)	16,000 gallons	None	N/A	N/A	N/A
T5	T5	Ink Storage (1988)	16,000 gallons	None	N/A	N/A	N/A
T6	T6	Solvent storage (1988)	16,000 gallons	None	N/A	N/A	N/A
T7	T7	Solvent storage (1988)	16,000 gallons	None	N/A	N/A	N/A
WT-1	SR #2-3	Wash tank for doctor blade	105 gallons	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
WT-2	SR #2-3	Wash tank for gravure printing cylinder	132 gallons	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
WT-3	SR #2-3	Wash tank for gravure printing cylinder	172 gallons	Dedert/Lurgi SR #2-3 carbon adsorber	SR #2-3	VOC (toluene)	3/1/05 Permit as amended 2/22/06
Chromium Electroplating							
CP-1b	DM3	Chromium plating Unit	20,000 amp-hr rectifier capacity	Composite mesh-pad system	DM3	Chromium compounds	3/1/05 Permit as amended 2/22/06
Other							
EG	EG	Emergency generator (1970)	450 hp	NA	None	None	None
DP1	DP1	Diesel fire pump (1970)	380hp	NA	None	None	None
DP2	DP2	Diesel fire pump (1970)	380 hp	NA	None	None	None

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

B. 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 (9 VAC_)	Pollutant Emitted (5-80-720 B.)	Rated Capacity (5-80-720 C.)
CP3	Copper plating Unit	5-80-720 B.1.	PM	4080 liter tank
CP4	Copper plating Unit	5-80-720 B.1.	PM	4080 liter tank
CP6	Dechroming Station	5-80-720 B.1.	PM	N/A
PST	Propane storage and transfer	5-80-720 B.2.	VOC	NA
D1	Degreasing (caustic) Unit	5-80-720 B.1.	PM	1800 liter tank
D2	Degreasing (caustic) Unit	5-80-720 B.1.	PM	2030 liter tank
SD	Waste water sludge dryer (electric)	5-80-720 B.1.	PM and VOC	1 ft ³ sludge per hour
PW	Parts washer	5-80-720 B.1.	VOC	Unkn
EDS	Electrolytic (caustic) degreasing station	5-80-720 B.1.	VOC	Unkn
DC	Dust control from presses 503 – 510	5-80-720 B.1.	PM	Unkn
IMP	3 Imprinters (use water based inks)	5-80-720 B.2.	VOC	0.2 lb/hr each
WS	Web splicing glue	5-80-720 B.2.	VOC	Glue only used to splice rolls
RG	Rubber roll grinding	5-80-720 B.1.	PM	Unkn
PP	Portable gasoline pump	5-80-720 C.4.a.		5.4 hp
GP	Glue pots	5-80-720 B.2.	VOC	Unkn
SW	Shrink wrap	5-80-720 B.1.	PM	Unkn
TD	Towel dryer	5-80-720 B.2.	VOC	88 lb VOC/week (the VOC goes to SR #2-3 for recovery)

Emission Unit No.	Emission Unit Description	Citation (9 VAC_)	Pollutant Emitted (5-80-720 B.)	Rated Capacity (5-80-720 C.)
WWT	Waste water decanter	5-80-720 B.2.	VOC	Unkn (VOC loss is included in plant-wide VOC mass balance)
BC	Battery charging	5-80-720 B.1.	PM	NA
IJP	32 Bindery Line Ink Jet Printers (water-based ink)	5-80-720 B.2.	VOC	NA
WP1-WP6	Waste paper handling system	5-80-720 B.1.	PM	Unkn

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.

III. Fuel Burning Equipment Requirements – Keeler Boiler (B3)

A. Limitations

1. The approved fuels for the 47.24 MMBtu/hr boiler (B3) are natural gas and distillate oil. A change in the fuels may require a permit to modify and operate.
 (9 VAC 5-80-110 and Condition 9 of 3/1/05 Permit as amended 2/22/06)

2. The distillate oil shall meet the specifications below:

DISTILLATE OIL which meets ASTM specifications, ASTM D396 “Standard Specification for Fuel Oils”, for numbers 1 or 2 fuel oil.

(9 VAC 5-80-110 and Condition 11 of 3/1/05 Permit as amended 2/22/06)

3. The 47.24 MMBtu/hr boiler (B3) shall consume no more than 975,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive twelve (12) month period.
 (9 VAC 5-80-110 and Condition 10 of 3/1/05 Permit as amended 2/22/06)

4. Emissions from the operation of the 47.24 MMBtu/hr boiler (B3) shall not exceed the limits specified below:

Particulate Matter	0.7 lbs/hr	2.0 tons/yr
PM-10	0.4 lbs/hr	1.5 tons/yr

Sulfur Dioxide	24.6 lbs/hr	35.1 tons/yr
Nitrogen Oxides (as NO ₂)	6.9 lbs/hr	23.3 tons/yr
Carbon Monoxide	3.8 lbs/hr	16.8 tons/yr
Volatile Organic Compounds	0.3 lbs/hr	1.1 tons/yr

The annual emissions limits are applied monthly as the sum of each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 21 of 3/1/05 Permit as amended 2/22/06)

5. Visible Emissions from the 47.24 MMBtu/hr boiler (B3) stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity. This condition applies at all times except during startup, shut down, and malfunction.
(9 VAC 5-80-110 and Condition 25 of 3/1/05 Permit as amended 2/22/06)
6. Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-110)

B. Monitoring

At least one time per calendar week an observation of the presence of visible emissions from the 47.24 MMBtu/hr boiler (B3) stack shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the boiler, with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the 47.24 MMBtu/hr boiler (B3) stack, with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the 47.24 MMBtu/hr (B3) are 20 percent opacity or less. If any of the 15-second observations exceed 20 percent opacity, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the 47.24 MMBtu/hr boiler (B3) resumes operation within the 20 percent opacity limit.

3. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a boiler stack observation log to demonstrate compliance. The log shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the boiler has not been operated for any period during the week it shall be noted in the log book.

(9 VAC 5-80-110 E)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
 - a. The monthly and annual throughput of natural gas (in million cubic feet) and distillate oil (in 1000 gallons) for the boiler. The annual throughput shall be calculated monthly as the sum of each consecutive twelve (12) month period.
 - b. Results of the visual observations of the boiler stack (B3) as specified in Condition III.B, along with any corrective actions.

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

(9 VAC 5-80-110 and Condition 32.e and f of 3/1/05 Permit as amended 2/22/06)

IV. Fuel Burning Equipment Requirements – Boilers B1 and B2

A. Limitations

1. The approved fuels for the 24.3 MMBtu/hr boilers (B1 and B2) are natural gas and distillate oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM D396 “Standard Specification for Fuel Oils.” A change in the fuels may require a permit to modify and operate.

(9 VAC 5-80-110)

2. Emissions from the operation each of the boilers (B1 and B2) shall not exceed the limits specified below:

Particulate Matter	0.4 lbs/MMBtu
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Sulfur Dioxide 64.2 lbs/hr

(9 VAC 5-80-110, 9 VAC 5-40-900 and 9 VAC 5-40-930)

3. Visible Emissions from each of the 24.3 MMBtu/hr (B1 and B2) boiler stacks shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity.
(9 VAC 5-80-110 and 9 VAC 5-40-80)
4. Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-110)

B. Periodic Monitoring

At least one time per calendar week an observation of the presence of visible emissions from each of the 24.3 MMBtu/hr boilers (B1 and B2) stacks shall be made. The presence of visible emissions shall require the permittee to:

1. take timely corrective action such that the boiler, with visible emissions, resumes operation with no visible emissions, or,
2. conduct a visible emission evaluation (VEE) on the boiler stack, with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from each of the boilers are 20 percent opacity or less. If any of the 15-second observations exceed 20 percent opacity, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the boiler (B1, B2) resumes operation within the 20 percent opacity limit.
3. If visible emissions inspections conducted during twelve (12) consecutive weeks show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per month for that stack. Anytime the monthly visible emissions inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack.

The permittee shall maintain a boiler stack observation log to demonstrate compliance. The log shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the boiler has not been operated for any period during the week it shall be noted in the log book.

(9 VAC 5-80-110 E)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
 - a. The monthly and annual throughput of natural gas (in million cubic feet) and distillate oil (in 1000 gallons) and the pollutant specific emissions factors, and emission equations for the 24.3 MMBtu/hr (B1 and B2) boilers. The annual throughput shall be calculated monthly as the sum of each consecutive twelve month period.
 - b. Results of the visual observation of the boiler stacks as specified in Condition IV.B of this section, along with any corrective actions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-110)

V. MACT Requirements-Subpart DDDDD National Emissions Standards for Hazardous Air Pollutant for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

1. No later than January 31, 2016 the boilers (B1, B2, and B3) shall comply with emission limitations and work practice standards (§63.7500), initial compliance (§ 63.7510), and continuous compliance (§ 63.7535-63.7540) requirements of 40 CFR 63 Subpart DDDDD.
(9 VAC 5-60-90, 9 VAC 5-80-60-100, 9 VAC 5-80-110, and 40 CFR 63 Subpart DDDDD)
2. No later than January 31, 2016 the boilers (B1, B2, and B3) shall comply with the notification requirements § 63.7545 of 40 CFR 63 Subpart DDDDD.
(9 VAC 5-60-90, 9 VAC 5-80-60-100, 9 VAC 5-80-110, and 40 CFR 63 Subpart DDDDD)
3. No later than January 31, 2016 the boilers (B1, B2, and B3) shall comply with the reporting requirements §63.7550 of 40 CFR 63 Subpart DDDDD.
(9 VAC 5-60-90, 9 VAC 5-80-60-100, 9 VAC 5-80-110, and 40 CFR 63 Subpart DDDDD)
4. No later than January 31, 2016 the boilers (B1, B2, and B3) shall comply with the recordkeeping requirements §63.7555 and §63.7560 of 40 CFR 63 Subpart DDDDD.
(9 VAC 5-60-90, 9 VAC 5-80-60-100, 9 VAC 5-80-110, and 40 CFR 63 Subpart DDDDD)

VI. Process Equipment Requirements – (printing presses #503, #504, #505, #506, #507, #508, #509, #510, tanks T1 – T7, and WT-1, WT-2, and WT-3 wash tanks)

A. Limitations

1. Volatile organic compound (VOC) emissions from #503, #504, #505, #506, #507, #508, #509, and #510 printing presses and WT-1, WT-2 and WT-3 wash tanks shall be controlled by a carbon bed adsorption system (SR #2-3). The printing presses, wash tanks, and carbon bed adsorption system shall be provided with adequate access for inspection and the carbon bed adsorption system shall be in operation when the printing presses are operating. Additionally, presses #508, # 509, and #510 shall be installed within a permanent total enclosure as defined in Condition VI.A.3.
(9 VAC 5-80-110 and Condition 3 of 3/1/05 Permit as amended 2/22/06)
2. Volatile organic compound (VOC) emissions controls from cleanup, washup, and disposal shall include the following, or equivalent, as a minimum:
 - a. VOC shall not be intentionally spilled, discarded to sewers, stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.
 - b. All VOC containing receptacles shall be closed at all times except during loading and unloading.

(9 VAC 5-80-110 and Condition 4 of 3/1/05 Permit as amended 2/22/06)
3. The total enclosure shall meet the following criteria:
 - a. Any natural draft openings shall be at least 4 equivalent opening diameters from each VOC emitting point;
 - b. The total area of all natural draft openings shall not exceed 5 percent of the surface area of the enclosure's four walls, floor and ceiling;
 - c. The average facial velocity of air through the natural draft openings shall be at least 200 feet per minute and the direction of flow shall be into the enclosure.
 - d. All access doors and windows whose areas are not included in Condition VI.A.3.b and are not included in the calculation in Condition VI.A.3.c shall be closed during routine operation of the presses.
 - e. All of the exhaust gases from the enclosure shall be directed to the carbon bed.

Having met the specifications of paragraphs a-e above, the permanent total enclosure shall be assumed to capture 100 percent of the VOC emissions.
(9 VAC 5-80-110 and Condition 5 of 3/1/05 Permit as amended 2/22/06)

4. Emissions of VOCs (toluene) from Presses #503, #504, #505, #506, #507, #508, #509, and #510 shall not exceed 1,133.2 tons/year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition 16 of 3/1/05 Permit as amended 2/22/06)

5. Emissions from the operation of presses #505 and #506 shall not exceed the limits specified below:

Volatile Organic Compounds	373 tons/yr, calculated monthly as the sum of each consecutive 12 month period.
Toluene	373 tons/yr, calculated monthly as the sum of each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 19 of 3/1/05 Permit as amended 2/22/06)

6. Emissions from the operation of press #507 shall not exceed the limits specified below:

Volatile Organic Compounds	68.8 tons/yr, calculated monthly as the sum of each consecutive 12 month period.
Toluene	68.8 tons/yr, calculated monthly as the sum of each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 20 of 3/1/05 Permit as amended 2/22/06)

7. The permittee, for the publication rotogravure source, shall limit emissions of organic HAP to no more than eight percent of the total volatile matter used each month. The emission limitation may be achieved by overall control of at least 92 percent of organic HAP used, by substitution of non-HAP materials for organic HAP, or by a combination of capture and control technologies and substitution of materials.
(9 VAC 5-80-110 and 40 CFR Part 63.824)

8. The permittee shall meet the following operation and maintenance requirements:
 - a. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards.

- b. Malfunctions shall be corrected as soon as practicable after their occurrence.
- c. Operation and maintenance requirements established pursuant to Section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.
- d. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(9 VAC 5-80-110 and 40 CFR Part 63.6(e))

- 9. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
 - b. Maintain an inventory of spare parts.
 - 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. 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 years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110 and Condition 44 of 3/1/05 Permit as amended 2/22/06)

B. Monitoring

- 1. The carbon bed adsorption systems (SR #2-3) shall be equipped with devices to continuously measure the adsorber gas outlet concentration of VOC. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation, except for periods of monitoring device malfunction, maintenance, or calibration, when the presses are operating.

(9 VAC 5-80-110 and Condition 6 of 3/1/05 Permit as amended 2/22/06)

2. The permittee shall comply with 40 CFR 63.824 by means of a monthly liquid-liquid material balance per 40 CFR 63.824(b)(1)(i).
(9 VAC 5-80-110 and 40 CFR 63.824)
3. The permittee, using a solvent recovery device to control emissions, shall demonstrate compliance with Condition VI.A.7 by showing that the HAP emission limitation is achieved by following the procedure:

Perform a liquid-liquid material balance for each month as follows:

- a. Measure the mass of each ink, coating, varnish adhesive, primer, solvent, and other material used by the affected source during the month.
- b. Determine the organic HAP content of each ink, coating, varnish, adhesive, primer, solvent and other material used by the affected source during the month following the procedure in 40 CFR 63.827(b)(1).
- c. Determine the volatile matter content, including water, of each ink, coating, varnish, adhesive, primer, solvent, and other material used by the affected source during the month following the procedure in 40 CFR 63.827(c)(1).
- d. Install, calibrate, maintain and operate, according to the manufacturer's specifications, a device that indicates the cumulative amount of volatile matter recovered by the solvent recovery device on a monthly basis. The device shall be initially certified by the manufacturer to be accurate to within ± 2.0 percent.
- e. Measure the amount of volatile matter recovered for the month.
- f. Calculate the overall effective organic HAP control efficiency Re for the month using the following equation:

$$Re = (100) X (Mvu - Mhu + [(Mvr)(Mhu/Mvu)]/Mvu \quad Eq 1$$

Where:

Re =the overall effective organic HAP control efficiency for publication rotogravure, percent.
 Mvu =the mass of volatile matter, including water, used in a month, in lbs.
 Mhu =the mass of organic HAP used in a month, in lbs.
 Mvr =the mass of volatile matter recovered in a month, in lbs.

For the purposes of this calculation, the mass fraction of organic HAP present in the recovered volatile matter is assumed to be equal to the mass fraction of organic HAP present in the volatile matter used.

- g. The affected source is in compliance for the month, if Re is at least 92 percent each month.

(9 VAC 5-80-110 and 40 CFR 63.824(b)(1)(i) and 63.827 (a)(3))

C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. Monthly material balance of VOC used by the facility to include:
- i. Throughput of VOC (toluene) used in each of the presses when controlled by solvent recovery unit #2 (SR #2)
 - ii. Throughput of VOC (toluene) used in each of the presses when controlled by solvent recovery unit #3 (SR #3)
 - iii. Throughput of VOC (toluene) used in cleaning operations when controlled by solvent recovery unit #2 (SR #2)
 - iv. Throughput of VOC (toluene) used in cleaning operations when controlled by solvent recovery unit #3 (SR #3)
 - v. Throughput of VOC (toluene) disposed of offsite
 - vi. Quantity of toluene recovered in each solvent recovery unit (SR #2 and SR #3)
 - vii. Throughput of VOC (toluene) through the storage tanks (T1 – T7)
 - viii. Calculation of emissions
- b. Annual throughput of VOC to the facility, calculated monthly as the sum of each consecutive 12 month period to include:
- i. Throughput of VOC (toluene) used in each of the presses when controlled by solvent recovery unit #2 (SR #2)
 - ii. Throughput of VOC (toluene) used in each of the presses when controlled by solvent recovery unit #3 (SR #3)
 - iii. Throughput of VOC (toluene) used in cleaning operations when controlled by solvent recovery unit #2 (SR #2)
 - iv. Throughput of VOC (toluene) used in cleaning operations when controlled by solvent recovery unit #3 (SR #3)
 - v. Throughput of VOC (toluene) disposed of offsite
 - vi. Quantity of toluene recovered in each solvent recovery unit (SR #2 and SR #3)
 - vii. Throughput of VOC (toluene) through the storage tanks (T1 – T7)
 - viii. Calculation of emissions

- c. Monthly records demonstrating compliance with the requirements in 40 CFR 63.824. These records shall be maintained in accordance with the requirements of 40 CFR 63.10(b).
- d. Results of all stack tests, visible emission evaluations and performance evaluations.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-110, 40 CFR 63.829, and Condition 32.a through d and 32.f of 3/1/05 Permit as amended 2/22/06)

D. Testing

The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided when requested at the inlet and outlet of the carbon adsorption units.
(9 VAC 5-80-110 and Condition 36 of 3/1/05 Permit as amended 2/22/06)

E. Reporting

1. **Monthly Reports** - The permittee shall submit a monthly report to the Blue Ridge Regional Office no later than the last day of the succeeding month giving the following:

- a. Throughput of VOCs (toluene) used in each of the presses;
- b. Throughput of VOCs (toluene) used in cleaning operations;
- c. Throughput of VOCs (toluene) disposed of off-site;
- d. Quantity of toluene recovered in each solvent recovery unit (SR #2-3);
- e. Calculations of emissions.

(9 VAC 5-80-110 and Condition 33 of 3/1/05 Permit as amended 2/22/06)

2. **Semi-Annual Reports** - The permittee shall submit to the Blue Ridge Regional Office semi-annual startup, shutdown, and malfunction reports per 40 CFR 63.10(d)(5). The time period to be covered in the reports is each calendar six-month period beginning with the calendar month of permit issuance. Each report must be postmarked within 30 days following each six-month reporting period. The reports must be signed by a responsible official, consistent with 9 VAC 5-80-80G.
(9 VAC 5-80-110, 40 CFR 63 Subpart KK, and Condition 34 of 3/1/05 Permit as amended 2/22/06)
3. The summary report required by 40 CFR 63.830 shall be included in the report required by Condition X.C.3.
(9 VAC 5-80-110 and 40 CFR 63.830)

VII. Process Equipment Requirements – (Chromium Electroplating Line (CP-1b))

A. Limitations

1. Chromium emissions from the plating tank (CP-1b) shall be controlled by a composite mesh-pad system. The composite mesh-pad system shall be provided with adequate access for inspection and shall be in operation when the plating tank is operating.
(9 VAC 5-80-110 and Condition 7 of 3/1/05 Permit as amended 2/22/06)

2. Per 40 CFR 63.342(c)(1)(i) total emissions from the operation of the hard chromium plating system (CP-1b) shall not exceed the limits specified below:

Total Chromium 0.011 mg/dscm (4.8×10^{-6} gr/dscf)

(9 VAC 5-80-110 and Condition 22 of 3/1/05 Permit as amended 2/22/06)

3. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
 - b. Maintain an inventory of spare parts.
 - 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. 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 years and shall be made available to DEQ personnel upon request.
(9 VAC 5-80-110 and Condition 44 of 3/1/05 Permit as amended 2/22/06)

B. Monitoring

1. The composite mesh-pad system shall be equipped with a device to continuously measure the differential pressure drop across the system. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with

adequate access for inspection and shall be in operation when the chrome plating tank is operating.

(9 VAC 5-80-110 and Condition 8 of 3/1/05 Permit as amended 2/22/06)

2. Per 40 CFR 63.347(e), upon completion of a performance test and at any other time a notification of compliance status is required, the permittee shall submit to the Administrator and the Blue Ridge Regional Office a notification of compliance status, signed by the responsible official who shall certify its accuracy, attesting to whether the source has complied with Subpart N. The notification shall list:
 - a. The applicable limitation and the methods that were used to determine compliance with this limitation;
 - b. The results of any performance tests;
 - c. The type and quantity of hazardous air pollutants emitted by the source, reported in mg/dscm and in accordance with the test methods specified;
 - d. For each monitored parameter for which a compliant value is to be established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;
 - e. The methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements;
 - f. A description of the air pollution control technique for each emission point;
 - g. A statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standard; and
 - h. A statement by the permittee as to whether the facility has complied with the relevant standards or other requirements.

The notification shall be submitted to the Blue Ridge Regional Office and to the Administrator no later than 90 calendar days following completion of the compliance demonstration.

(9 VAC 5-80-110, 40 CFR 63 Subpart N, and Condition 38 of 3/1/05 Permit as amended 2/22/06)

3. The permittee shall demonstrate continuous compliance by monitoring and recording the pressure drop across the composite mesh-pad system once each day that the chromium plating tank is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated to meet the standards of 40 CFR 63.343(c).
(9 VAC 5-80-110, 40 CFR 63 Subpart N, and Condition 31 of 3/1/05 Permit as amended 2/22/06)

4. Per 40 CFR 63.342(f), the permittee shall develop and implement the following work practice standards:
 - a. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.
 - b. Malfunctions shall be corrected as soon as practicable after their occurrence.
 - c. Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.

Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of source.
 (9 VAC 5-80-110, 40 CFR Subpart N, and Condition 23 of 3/1/05 Permit as amended 2/22/06)

5. Per 40 CFR 63.342(f)(3), the permittee shall prepare an operation and maintenance plan to be implemented at startup. The plan shall include the following:
 - a. The plan shall specify the operation and maintenance criteria, the add-on air pollution control device, and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment;
 - b. The plan shall incorporate the following work practice standards for the composite mesh-pad system (40 CFR 63.342 Table 1):

Work practice Standards	Frequency
1. Visually inspect device to ensure there is proper drainage, no chromic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device.	1. 1/quarter
2. Visually inspect back portion of the mesh- pad closest to the fan to ensure there is no breakthrough of chromic acid mist.	2. 1/quarter
3. Visually inspect ductwork from tank or tanks to the control device to ensure there are no leaks.	3. 1/quarter
4. Perform washdown of the composite mesh-pads in accordance with manufacturer's recommendations.	4. Per manufacturer

- c. The plan shall incorporate the housekeeping practices of 40 CFR 63.342-Table 2
- d. The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.
- e. The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.

(9 VAC 5-80-110, 40 CFR 63 Subpart N, and Condition 24 of 3/1/05 Permit as amended 2/22/06)

C. Recordkeeping

Per 40 CFR 63.10(b)(1) and 40 CFR 63.346, the permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

1. Inspection records for the composite mesh-pad system to document that the inspection and maintenance requirements have taken place;
2. Records of all maintenance performed on the plating tank, the composite mesh-pad system, and the monitoring equipment;
3. Records of occurrence, duration, and cause (if known) of each malfunction of process, the composite mesh-pad system, and monitoring equipment;
4. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;
5. Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan;
6. Test reports documenting results of all performance tests;
7. All measurements as may be necessary to determine the conditions of performance tests;
8. Records of the pressure drop across the composite mesh-pad system that are used to demonstrate compliance with the standard, including the date and time the data are collected;

9. Specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data , that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment;
10. Specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data , that occurs during periods other than malfunction of the process, add-on air pollution control, or monitoring equipment; and
11. Semi-annual summary reports to document the ongoing compliance status.

The permittee shall maintain files of all information (including all reports and notifications) required in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. (9 VAC 5-80-110, 40 CFR 63.10(b)(1) and 63.346 and Condition 32.g through q of 3/1/05 Permit as amended 2/22/06)

D. Reporting

1. Per 40 CFR 63.347(g) the permittee shall submit a summary report to document the ongoing compliance status. The report shall be submitted semiannually, except when:
 - a. The administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source; or
 - b. The monitoring data collected by the owner or operator in accordance with 63.343(c) show that the emission limit has been exceeded, in which case quarterly reports shall be submitted. Once the permittee reports an exceedance, ongoing compliance status reports shall be submitted quarterly until a request to reduce reporting frequency according to the requirements of 40 CFR 63.347(g)(2) is approved.

(9 VAC 5-80-110, 40 CFR 63.343(c), and 63.347(g))
2. The summary report shall contain the following information:
 - a. The company name and address;
 - b. An identification of the operating parameter that is monitored for compliance determination;

- c. The relevant emission limitation for the affected source, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status required by 40 CFR 63.342(c);
- d. The beginning and ending dates of the reporting period;
- e. A description of the type of process performed in the affected source;
- f. The total operating time of the chromium plating tank during the reporting period;
- g. A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes;
- h. A certification by a responsible official, that the work practice standards in Conditions VII.B.4 and VII.B.5 and 40 CFR 63.342(f) were followed in accordance with the operation and maintenance plan for the source;
- i. If the operation and maintenance plan required by 40 CFR 63.342(f)(3) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the report(s) required by 40 CFR 63.342(f)(3)(iv) documenting that the operation and maintenance plan was not followed;
- j. A description of any changes in monitoring, processes, or controls since the last reporting period;
- k. The name, title, and signature of the responsible official who is certifying the accuracy of the report; and
- l. The date of the report.

This report shall be submitted to the Blue Ridge Regional Office and the EPA Administrator semiannually, except when VII.D.1.a or VII.D.1.b applies. Submit summary report for the EPA to the following address:

U.S. EPA Region III
Air Protection Division (3AP000)
ATTN: Chromium Plating NESHAP Coordinator
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-80-110, 40 CFR 63.347(g) and Condition 35 of 3/1/05 Permit as amended 2/22/06)

VIII. Emergency Generator (EG) and Diesel Fire Pumps (DP1 and DP2)

A. Limitations

1. All existing emergency generator and fire pump compression ignition engines shall be in compliance with 40 CFR 63, Subpart ZZZZ by May 3, 2013. These units shall comply with the applicable:
 - a. Emissions limitations as specified in 40 CFR 63.6603, Table 2c;
 - b. Monitoring, installation, collection, operation, and maintenance requirements as specified in 40 CFR 63.6625(e), (f), (h) and (i);
 - c. Continuous compliance requirements as specified in 40 CFR 63.6605 and 63.6640;
 - d. Recordkeeping requirements as specified in 40 CFR 63.6655 (except 63.6655(c));
 - e. Reporting requirements as specified in the Footnote 1 of Table 2c, and
 - f. Requirements of the General Provisions listed in 40 CFR 63 Subpart A, except per 63.6645(a)(5). The following do not apply: 63.7(b) and (c), 63.8(e), (f) and (f)(6), and 63.9(b)-(e), (g), (h) , and (j).

(9 VAC 5-80-110 and 40 CFR 63 Subparts ZZZZ and A)

2. Visible emissions from the generator and fire pump compression ignition engines stacks shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60% opacity when the emergency generators are operating. This condition applies at all times except during startup, shutdown, and malfunction.

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

B. Monitoring

1. The permittee shall perform periodic visual evaluations of each stack from each of the internal combustion engines according to the schedule in Condition B2 for compliance with the opacity limits listed in Condition VIII.A.2. If such periodic evaluations indicate any opacity $\geq 20\%$ observed by a Method 9 certified visible emissions evaluator, the permittee shall take appropriate action to correct the cause of the excess opacity such that visible emissions do not exceed established limits. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall record the details of the visual emissions

observations, VEE, and any corrective actions.
 (9 VAC 5-80-110)

2. Periodic visual evaluations to be conducted according to the following operation frequency guidelines:

<u>Operating Schedule</u>	<u>Observation Frequency</u>
>50 hrs/calendar month	Quarterly
<50hrs/calendar month > 50 hrs/yr	Annually
<50 hrs/yr	No Evaluation Required

(9 VAC 5-80-110)

3. MACT ZZZZ monitoring shall be performed in accordance with Condition VIII.A.1.
 (9 VAC 5-80-110)

C. Recordkeeping and Reporting

The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

1. Results of the visual observation of the generator and fire pump compression ignition engines stacks as specified in Conditions VIII.B.1 and VIII.B.2 of this section, along with any corrective actions.
2. MACT ZZZZ recordkeeping and reporting shall be performed in accordance with Condition **Error! Reference source not found.**VIII.A.1.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
 (9 VAC 5-80-110)

IX. 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 60.110b	40 CFR 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including	Tanks T1 – T7 are less than 75 m ³ . FO-1 and FO-2 are distillate oil storage tanks that are

	Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	less than 151 m ³ . These tanks are not subject to Subpart Kb per October 15, 2003 amendment.
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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)

X. General Conditions

A. 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)

B. 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.

1. 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.
2. 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.
3. 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.
4. 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.

5. 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)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. 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)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

- b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
- (1) Exceedance of emissions limitations or operational restrictions;
 - (2) 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,
 - (3) 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)

D. 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:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. 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.

6. Such other facts as the permit may require to determine the compliance status of the source.
7. One copy of the annual compliance certification shall be sent to EPA at the following electronic mailing address:

R3_APD_Permits@epa.gov

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

E. Permit Deviation Reporting

The permittee shall notify the Director, Blue Ridge Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition X.C.3 above of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. 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, Blue Ridge Regional Office by facsimile transmission, telephone or telegraph 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, Blue Ridge Regional Office.

(9 VAC 5-20-180 C and Condition 42 of 3/1/05 Permit as amended 2/22/06)

G. 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)

H. 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 grounds 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)

I. 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)

J. 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)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.

(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. 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)

2. 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)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.

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

N. 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:

1. 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;
2. 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;
3. 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;
4. 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,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, 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 5-40-20 E and 9 VAC 5-50-20 E)

P. 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)

Q. 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:

1. 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.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. 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)

R. 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.

1. 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.
2. 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.
3. 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)

S. 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)

T. Transfer of Permits

1. 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)
2. 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)
3. 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)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification

may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. 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)

W. 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)

X. 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)

Y. 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)

Z. 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)

AA. 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:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. 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.
3. 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)