West Virginia Department of Environmental Protection

Austin Caperton
Cabinet Secretary

Permit to Operate

Pursuant to

Title V

of the Clean Air Act

Issued to:

Toyota Motor Manufacturing West Virginia (TMMWV)
Buffalo Plant/Buffalo, WV
R30-07900072-2019

Laura M. Crowder
Acting Director, Division of Air Quality

Issued: January 15, 2019 • Effective: January 29, 2019
Expiration: January 15, 2024 • Renewal Application Due: July 15, 2023

Permit Number: **R30-07900072-2019**
Permittee: **Toyota Motor Manufacturing West Virginia**
Facility Name: **Buffalo Plant**
Permittee Mailing Address: **1 Sugar Maple Lane, P.O.Box 600, Buffalo, WV 25033**

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Facility Location:	Buffalo, Putnam County, West Virginia
Facility Mailing Address:	1 Sugar Maple Lane, P.O. Box 600, Buffalo, WV 25033
Telephone Number:	304-937-7000
Type of Business Entity:	Corporation
Facility Description:	Machining, Welding, Heat Treatment and Assembly of engine and automatic transmission parts components
SIC Codes:	Primary - 3714; Secondary – N/A; Tertiary – N/A
UTM Coordinates:	413.518 km Easting • 4,272.153 km Northing • Zone 17

Permit Writer: Robert Mullins

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.

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1.0 Emission Units and Active R13, R14, and R19 Permits

1.1. Emission Units

(R13-2062 Appendix A) Machining, Welding, and Assembly Operations

Source Number	Source Description	Building	Year Constructed	Maximum Production		Process Type	#/Unit
				(units/hr)	(units/yr)		
Project # 1	4 Cylinder Machining & Shipping	100	1996	262	900,000	Cylinder Block/Shipping	1
						Block Lower Case/Shipping	1
						Cylinder Head/Shipping	1
						Crankshaft/Shipping	1
						Camshaft/Shipping	2
						Con Rod/Shipping	4
						Piston Pin/Shipping	4
Project # 2	4 Cylinder Assembly	100	2016	262	900,000	Inner Assembly	1
						Piston Sub Assembly	4
						Head Sub Assembly	1
						Main Assembly	1
Project # 3	4 Cylinder Engine Welding	TBD	TBD	200	450,000	Intake Manifold	1
						Exhaust Manifold	1
Project # 4	Support	100 & 200	1996	429	1,100,000	Q.C. & Maintenance	1
						Tool Regrind	1
Project # 5	6 & 8 Cylinder Engine Assembly	100	1996	262	550,000	Inner Assembly	1
						Upper Assembly	1
						Piston Sub Assembly	6-8
						Head Sub Assembly	2
						Final Assembly	1
Project # 6	4 Cylinder Engine Assembly	TBD	TBD	200	150,000	Inner Assembly	1
						Piston Sub Assembly	4
						Head Sub Assembly	2
						Main Assembly	1
Project # 10	Passenger Car Axle Machining 1	TBD	TBD	200	591,298	Knuckle	2
						Hub	2
						Rr. Axle Shaft	2

Source Number	Source Description	Building	Year Constructed	Maximum Production		Process Type	#/Unit
				(units/hr)	(units/yr)		
Project # 10 (Cont.)	Passenger Car Axle Machining 1	TBD	TBD	200	591,298	Carrier Machining	2
						Lower Arm	2
Project # 11	6 cyl engine Machining	100	1996	262	550,000	Cylinder Block/Shipping	1
						Cylinder Head/Shipping	2
						Crankshaft/Shipping	1
						Con Rod/Shipping	6
						Camshaft/Shipping	4
						Piston Pin/Shipping	6
Project # 12	6 cyl engine welding	TBD	TBD	200	100,000	Exhaust Manifold	1
Project # 18	A/T Machining Operations	200	1999	334	900,000	Case	1
						Housing	1
						Upper & Lower Valve Body	1
						Clutch Drum	1
						Block Lower Case/Shipping	1
						Clutch Hub	1
						Sun Gear Input Shaft	1
						Planetary Carrier	1
						Planetary Ring Gear	1
						Planetary Pinion	1
						Direct Clutch Hub	1
						Planetary Sun Gear	1
						Underdrive Clutch Hub	1
						Rear Planetary Sun Gear	1
						Rear Planetary Pinion	1
						Underdrive Clutch Hub	1
						Carrier Cover	1
						Carrier	1
						Pinion	1
						Ring Gear	1
						Clutch Drum	1

Source Number	Source Description	Building	Year Constructed	Maximum Production		Process Type	#/Unit
				(units/hr)	(units/yr)		
Project # 18 (cont.)	A/T Machining Operations	200	1999	334	900,000	Counter Drive Gear	1
						Counter Driven Gear and Sub Assembly	1
						Pinion Differential Drive	1
						Differential Ring Gear	1
						Input Shaft Sub Assembly	1
						Clutch Hub Sub Assembly	1
						Carrier Sub Assembly	1
						Carrier & Hub Sub Assembly	1
						Output Shaft Sub Assembly	1
						Clutch Drum Sub Assembly	1
						Carrier & Rear Ring Sub Assembly	1
						A/T Component Heat Treatment	1
Project # 19	A/T Assembly Operations	200	1996	334	900,000	Transaxle Assembly Main Axis	2
						Assembly Under Drive Part	2
						Main Assembly	2
						Underdrive Assembly	2
						Counter Driven Assembly	2
						Differential Drive Pinion Gear Assembly	2
						Differential Sub Assembly	2
						Valve Body Assembly	2
						Oil Pump Assembly	2
						Gear Assembly	2

Source Number	Source Description	Building	Year Constructed	Maximum Production		Process Type	#/Unit
				(units/hr)	(units/yr)		
Project # 19 (cont.)	A/T Assembly Operations	200	1996	334	900,000	Transaxle Oil Pan Sub Assembly	2
						Clutch Assembly	2
						Carrier Gear Assembly	2

Notes: TBD = To Be Determined (#/Unit) = The number of machines that are proposed for installation

Authorized Storage Tanks Permitted under R13-2062M

Emission Point ID	Equipment Description	Capacity (gallons)	Material Stored	Air Pollution Control Device
G1 G2 G3	Gasoline Storage Tank	9,900	Gasoline	Vapor Return
DT-1	Gasoline Day Tank	46	Gasoline	N/A
DT-2	Gasoline Day Tank	46	Gasoline	N/A
DT-ZZ	Day Tank	14.4	Gasoline	N/A
DT-MZ	Day Tank	14.4	Gasoline	N/A
QC-AT	Gasoline Storage Tank	5,075	Gasoline	Vapor Return
DT-AT1	Day Tank	46	Gasoline	N/A
DT-AT2	Day Tank	46	Gasoline	N/A
ET-01	Ethanol/Gasoline Storage Tank	6,000	Gasoline/Ethanol	Vapor Return
n/a – no vent to atmosphere	Ethanol/Gasoline Storage Tank	60	Gasoline/Ethanol	N/A
OST1, OST2	Oil Storage Tank (2 compartments)	11,670	Motor Oil	N/A
OST3	Oil Storage Tank	66	Motor Oil	N/A
OST4, OST5, OST6	Oil Storage Tank (3 compartments)	198	Motor Oil	N/A
OST7	Oil Storage Tank	12,000	Motor Oil	N/A
OST8	ATF Storage Tank	12,000	Trans Fluid	N/A
FH1	No. 2 Fuel Oil Tank	550	No. 2 Fuel Oil	N/A
FH2	No. 2 Fuel Oil Tank	550	No. 2 Fuel Oil	N/A
T17	Sulfuric Acid Tank	3,000	Sulfuric Acid	N/A

Authorized Emergency Generators Permitted under R13-2062M

Source ID	Source Description	Date Constructed	MDHI (mmBtu/hr)	Building Number	Fuel
DG-5031	Diesel Electric Generator 347 BHP	10-10-2005	9.92	100	No. 2 Fuel Oil

Authorized Emergency Generators Permitted under G60-D005E

Source ID	Source Description	Date Constructed	Design Brake Horsepower	Area	Fuel
GEN-11E	Ford LRG-4251 20RZ	1-11-2005	41	Emergency Lighting	PNG
GEN-11W	Ford LRG-4251 20RZ	1-11-2005	41	Emergency Lighting	PNG
GEN-12	Ford LRG-4251 20RZ	1-11-2005	41	Emergency Lighting	PNG
GEN-13	Ford LRG-4251 20RZ	9-1-2004	41	Emergency Lighting	PNG
GEN-14	GM-4.3L 45RZG	8-14-2006	68	Emergency Lighting	PNG
GEN-15	GM-4.3L 45RZG	8-14-2006	68	Emergency Lighting	PNG
GEN-SEC	GM-4.3L 45RZG	10-23-2005	68	Security	PNG
GEN-SBR	GM-5.7L 60RZG	2-18-2007	105	Wastewater	PNG
GEN-Pharm	General Motors GM-5.7L 30REZG	2-27-2014	49	Emergency Lighting	PNG
GEN-IS-2	Doosan D14.6L 250REZXB	7-21-2015	402	Computer Data Center	PNG
GEN-Cafe	General Motors GM-5.7L 60REZGB	2018	105	Cafeteria	PNG

Notes: PNG = Pipeline Natural Gas

Other Engines

Source ID	Source Description	Date Constructed	Design Brake Horsepower	Area	Fuel
2 Fire Pumps	Detroit Diesel	May, 1998	368 each	Fire Pump	Diesel

Engine Head Copper Coating

Emission Unit	Emission Point	Emission Unit Description	Year Installed	Design Capacity	Control Device
LC-1	-	Laser Cleaning Machine	2017	324,000 units/yr	LC-C1 to LC-C4
LC-2	-	Laser Cleaning Machine	2017	324,000 units/yr	
LC-3	-	Laser Clad Machine	2017	324,000 units/yr	
LC-4	-	Laser Clad Machine	2017	324,000 units/yr	
SW-1	SW-E	Solvent Washer	2017	324,000 units/yr	SW-C
SW-2	SW-E	Solvent Washer	2017	324,000 units/yr	

Authorized Test/Firing Benches

Emission Unit	Emission Point	Emission Unit Description	Design Capacity	Control Device
QE1S	QCE1	Engine Test Cell #1	8,760 Hours	Catalytic Converter (TC-1)
QE2S	QCE2	Engine Test Cell #2	8,760 Hours	Catalytic Converter (TC-2)
QE3S	QCE3	Engine Test Cell #3	8,760 Hours	Catalytic Converter (TC-3)
QE4S	QCE4	Engine Test Cell #4	8,760 Hours	Catalytic Converter (TC-4)
QE5S	QCE5	Engine Test Cell #5	8,760 Hours	Catalytic Converter (TC-5)

Emission Unit	Emission Point	Emission Unit Description	Design Capacity	Control Device
QE6S	QCE6	Engine Test Cell #6	8,760 Hours	Catalytic Converter (TC-6)
QE7S	QCE7	Engine Test Cell #7	8,760 Hours	Catalytic Converter (TC-7)
QA3S	QCA3	Transmission Test Cell #3	8,760 Hours	Catalytic Converter (TC-AT1)
QA4S	QCA4	Transmission Test Cell #4	8,760 Hours	Catalytic Converter (TC-AT4)
E1S	ZZFB	4 cyl Firing Bench	8,760 Hours	None
E2S	MZFB	6 cyl Firing Bench	8,760 Hours	None
E3S	FB-3	4 cyl Firing Bench	8,760 Hours	None

1.2. Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-2062M	October 12, 2017
G60-D005E	October 5, 2018

2.0 General Conditions

2.1. Definitions

2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.

2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.

2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

2.2. Acronyms

CAAA	Clean Air Act Amendments
CBI	Confidential Business Information
CEM	Continuous Emission Monitor
CES	Certified Emission Statement
C.F.R. *or* CFR	Code of Federal Regulations
CO	Carbon Monoxide
C.S.R. *or* CSR	Codes of State Rules
DAQ	Division of Air Quality
DEP	Department of Environmental Protection
FOIA	Freedom of Information Act
HAP	Hazardous Air Pollutant
HON	Hazardous Organic NESHAP
HP	Horsepower
lbs/hr *or* lb/hr	Pounds per Hour
LDAR	Leak Detection and Repair
m	Thousand
MACT	Maximum Achievable Control Technology
mm	Million
mmBtu/hr	Million British Thermal Units per Hour
mmft^3/hr *or* mmcf/hr	Million Cubic Feet Burned per Hour
NA *or* N/A	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAPS	National Emissions Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10μm in diameter
pph	Pounds per Hour
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
psi	Pounds per Square Inch
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
TPY	Tons per Year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate
USEPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator
VEE	Visual Emissions Evaluation
VOC	Volatile Organic Compounds

2.3. Permit Expiration and Renewal

2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.
[45CSR§30-5.1.b.]

2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.
[45CSR§30-4.1.a.3.]

2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.
[45CSR§30-6.3.b.]

2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.
[45CSR§30-6.3.c.]

2.4. Permit Actions

2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[45CSR§30-5.1.f.3.]

2.5. Reopening for Cause

2.5.1. This permit shall be reopened and revised under any of the following circumstances:

a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (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 45CSR§§30-6.6.a.1.A. or B.

b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.

c. The Secretary or U.S. EPA 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.

d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]

2.6. Administrative Permit Amendments

2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.
[45CSR§30-6.4.]

2.7. Minor Permit Modifications

2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.
[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.
[45CSR§30-6.5.b.]

2.9. Emissions Trading

2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.
[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:

a. The change must meet all applicable requirements and may not violate any existing permit term or condition.

b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

c. The change shall not qualify for the permit shield.

d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

[45CSR§30-5.9.]

2.11. Operational Flexibility

2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.
[45CSR§30-5.8]

2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.
[45CSR§30-5.8.a.]

2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or

b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

[45CSR§30-5.8.c.]

2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
[45CSR§30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.

a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.

b. The permit shield shall extend to all terms and conditions under each such operating scenario; and

c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

2.13. Duty to Comply

2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times (including all times in which the facility is in operation) 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 to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:

a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

2.16.1. 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. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.
[45CSR§30-5.1.f.2.]

2.17. Emergency

2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
[45CSR§30-5.7.a.]

2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.
[45CSR§30-5.7.b.]

2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
[45CSR§30-5.7.d.]

2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
[45CSR§30-5.7.e.]

2.18. Federally-Enforceable Requirements

2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.
[45CSR§30-5.2.a.]

2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

2.19. Duty to Provide Information

2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary 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 Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.
[45CSR§30-5.1.f.5.]

2.20. Duty to Supplement and Correct Information

2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.
[45CSR§30-4.2.]

2.21. Permit Shield

2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof. **[45CSR§30-5.6.a.]**

2.21.2. Nothing in this permit shall alter or affect the following:

a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or

b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.

c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

2.22. Credible Evidence

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding. **[45CSR§30-5.3.e.3.B. and 45CSR38]**

2.23. Severability

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect. **[45CSR§30-5.1.e.]**

2.24. Property Rights

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege. **[45CSR§30-5.1.f.4]**

2.25. Acid Deposition Control

2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.

a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.

b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.
[45CSR§30-5.1.a.2.]

3.0 Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1. **[45CSR§6-3.1.]**

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40 C.F.R. §61.145(b) and 45CSR34]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1 State-Enforceable only.]

3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2]

3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.
[W.Va. Code § 22-5-4(a)(14)]

3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.
[40 C.F.R. 68]

3.1.9. The permittee shall prepare and maintain an emission point map of the facility. Excluding HVAC units, this map shall consist of a diagram of the location and identification of all emission points at the facility that vent to ambient air. A legend shall be prepared with the map that identifies the emission point type and source(s) contributing to that emission point. This map shall be prepared within ninety (90) days of permit issuance and thereafter be updated as necessary to reflect current facility operations. The map(s) shall be retained on-site and be made available to the Director or his/her duly authorized representative upon request.
[Permit no. R13-2062 – Specific Requirement A.8.l.]

3.2. Monitoring Requirements

3.2.1. TMMWV shall use a computerized system to schedule preventative maintenance jobs and insure the completion of these jobs.

THE SYSTEM:

a. The periodical maintenance requirements of the control equipment are first entered into a computerized system database according to manufacturer's specifications.

b. The computerized system keeps the information in the form of PM Information Reports which creates work orders as needed to insure the jobs are scheduled.

c. The PM Information Report(s) may reference Facility Maintenance Ledgers to provide direction for completion of the required maintenance on a production machine.

d. Periodical Maintenance Cards provide specific direction on the job to insure proper completion.

e. Once the maintenance is completed, the team members will close out the work order, which provides records of the completed work within the database.

[Monitoring Plan according to the requirements of R13-2062C; approved-2-24-03, 45CSR§30-12.7]

3.2.2. Effective communications of equipment conditions are accomplished using the following:

a. **Andon Board:** A ceiling mounted display used to show machine conditions through the use of color text. The andon board is designed to be clearly visible to the majority of locations within the associated production area.

b. **Andon Yellow Indication:** The yellow status on the andon board typically communicates that the equipment is requiring attention from production/maintenance. The equipment is operating within specifications but is forecasting the status of the machine so preventative maintenance can be performed.

c. **Andon Red Indication:** The red status on the andon board typically communicates that a fault has occurred due to either equipment failure or that the operation is not within specifications.

d. **Mist and Dust Collector Log Sheets:** The Mist and Dust collector log sheet is a record of corrective and preventative action, which provides status of the equipment condition upon inspection. This form - is not used as a long-term record (provided for through a computerized system.

e. All maintenance performed on equipment is logged into a computerized system, which creates and maintains a database used to provide scheduling of preventative maintenance and providing records of repair history.

f. **Machine Mounted Collectors:** All maintenance performed on machine mounted equipment is logged into a computerized system. Periodic operation checks are performed by production personnel to insure the units are operating.

[Monitoring Plan according to the requirements of R13-2062C; approved-2-24-03, 45CSR§30-12.7]

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary.

In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:

1. The permit or rule evaluated, with the citation number and language.

2. The result of the test for each permit or rule condition.

3. A statement of compliance or non-compliance with each permit or rule condition.

[WV Code §§ 22-5-4(a)(14-15) and 45CSR13]

3.3.2. a. The permittee shall develop, or continue the application of, a plan to test representative sources of air pollutants at the facility permitted herein so as to determine compliance with the limits contained in this permit. This plan shall, henceforth from the date of issuance of this permit, be subject to approval of the Director.

b. At a minimum of once annually or at any other reasonable time required by the Director, the permittee shall submit a report to the Director detailing the testing that has taken place at the facility to the end of achieving compliance with 3.3.2(a). Also included in this report will be a proposal for any future testing required at the facility to meet the requirements under 3.3.2(a). The proposal for future testing is subject to the approval of the Director.

c. Tests that may be required by the Director to determine compliance with 3.3.2(a) of this permit shall be conducted in accordance with the methods as set forth below. The Director may require a different test method or approve an alternative method upon discretion. Compliance testing shall be conducted at maximum permitted load unless otherwise specified or approved by the Director.

(1) Tests to determine compliance with particulate emission limits shall be conducted, as applicable, in accordance with Method 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, or 5H as set forth in 40 CFR 60, Appendix A and EPA Method 201, 201A, and 202 as set forth in 40 CFR 51.

d. With regard to any testing required by the Director, the permittee shall submit to the Director a test protocol detailing the proposed test methods, the date, and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information. The test protocol must be received by the Director no less than thirty (30) days prior to the date the testing is to take place. Test results shall be submitted to the Director no more than sixty (60) days after the date the testing takes place.

[45CSR§30-5.1.c.]

3.3.3. The permittee shall develop and revise as necessary a plan to periodically test representative sources of air pollutants at the facility permitted herein so as to determine compliance with the limits contained in this permit. This plan shall, upon revision, be subject to approval of the Director. All performance tests conducted as result of this plan shall be in accordance with the requirements under Condition 3.3.1. The minimum source categories and associated pollutants required to be tested as a part of this plan are given in the following table:

Minimum Performance Test Requirements

Source Category	Pollutant(s) of Concern
Process Exhaust Vents	Particulate Matter[(1)]
Mist Collectors that Vent Outside the Building	Particulate Matter[(1)]
Dust Collectors	Outlet Particulate Matter[(1)] Concentration
Engine Test Cells	CO, NO_x

(1) Filterable Only.

[Permit no. R13-2062 – Specific Requirement A.6.a.]

3.4. Recordkeeping Requirements

3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this 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 the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A., 45CSR13, General Permit Registration G60-D005 and G60-D, 4.2.1]

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. 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. Where appropriate, records may be maintained in computerized form in lieu of the above records. All records required in this permit shall be made available to the Director or his duly authorized representative upon request, and, when requested by the Director, certified as accurate on the form provided as Appendix A.
[45CSR§30-5.1.c.2.B.; 45CSR13, R13-2062, A.8.n]

3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken. **[45CSR§30-5.1.c. State-Enforceable only.]**

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
[45CSR§§30-4.4. *and* 5.1.c.3.D.]

3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
[45CSR§30-5.1.c.3.E.]

3.5.3. Except for the electronic submittal of the annual compliance certification and semi-annual monitoring reports to the DAQ and USEPA as required in 3.5.5 and 3.5.6 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by e-mail as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

US EPA:

Associate Director
Office of Air Enforcement and Compliance Assistance (3AP20)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

DAQ Compliance and Enforcement[1]:
DEPAirQualityReports@wv.gov

[1]For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status reports, Initial Notifications, etc.

3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.
[45CSR§30-8.]

3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required

to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. The annual certification shall be submitted in electronic format by e-mail to the following addresses:

DAQ:	**US EPA:**
DEPAirQualityReports@wv.gov	R3_APD_Permits@epa.gov

[45CSR§30-5.3.e.]

3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. The semi-annual monitoring reports shall be submitted in electronic format by e-mail to the following address:

DAQ:
DEPAirQualityReports@wv.gov

[45CSR§30-5.1.c.3.A.]

3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

3.5.8. **Deviations.**

a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.

4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary. **[45CSR§30-5.1.c.3.B.]**

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement. **[45CSR§30-4.3.h.1.B.]**

3.5.10. The permittee shall submit to the Director, postmarked by March 15 of each year, a report containing the records as required under Sections 4.1.19, 4.4.1, 4.4.2, 4.4.3, 4.4.7, 4.4.8, 5.4.1, 5.4.2, 5.4.3, 5.4.4 and 5.4.5. Additionally, the permittee shall submit a certification of compliance with all requirements of this permit using the form included with this permit as Appendix A. If, during the previous annual period, the permittee had been out of compliance with any part of this permit, it shall be noted along with the following information: 1) the source/equipment/process that was non-compliant and the specific requirement of this permit that was not met, 2) the date the permitted discovered that the source/ equipment/process was out of compliance, 3) the date the Director was notified, 4) the corrective measures to get the source/equipment/process back into compliance, and 5) the date the source began to operate in compliance. The submission of any non-compliance report shall give no enforcement action immunity to episodes of non-compliance contained therein. **[Permit no. R13-2062 – Specific Requirement A.8.k.]**

3.6. Compliance Plan

3.6.1. None.

3.7. Permit Shield

3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

a. None.

4.0 Machining, Welding, and Assembly Operations [Project # 1 to 19] & Surface Coating Operations

4.1. Limitations and Standards

4.1.1. The machining, welding, and assembly operations authorized to take place by this permit at the subject facility are listed in Section 1.1 (R13-2062 Appendix A). The operations shall be within the listed production limits. **[Permit no. R13-2062 – Specific Requirement A.1.a.]**

4.1.2. Maximum hourly and annual emission rates of volatile organic compounds (VOCs) and volatile organic compound-hazardous air pollutants (VOC-HAPs) shall be those as set forth in the following table. All annual emission limits are on a twelve (12) month continuous rolling total basis. A twelve (12) month continuous rolling total is the sum of the measured quantity for the previous (12) twelve consecutive months.

Project Activity VOC and VOC-HAP Emission Limits

Project Activity Numbers	Grouping Description	VOC Emission Limits(1)		VOC-HAP Emission Limits (lb/yr)
		lb/hr	ton/year	
1,2,3,4(3),6	4-Cylinder Engines Machining/Assembly and Support	74.90	84.27	859.41(2)
4(3),5,11,12	6 and 8-Cylinder Engines Machining/Assembly and Support	53.95	60.55	
4(3),10,18, 19	Automatic Transmissions and Support	73.63	82.84	

NOTES:
(1) These limits represent aggregate limits for all of the listed project activities.
(2) Facility-wide aggregate limit. VOC-HAPs that count against emission limit are those compounds listed under Section 112(b) of the CAAA.
(3) Project Activity 4 contributes one-third of its emissions to each major grouping.

[Permit no. R13-2062 – Specific Requirement A.1.b.]

4.1.3. Maximum hourly and annual emission rates of particulate matter (PM) and particulate matter-hazardous air pollutants (PM-HAPs) shall be those as set forth in the following table. All annual emission limits are on a twelve (12) month continuous rolling total basis. A twelve (12) month continuous rolling total is the sum of the measured quantity for the previous (12) twelve consecutive months.

Project Activity/Exhaust Fans PM and PM-HAP Emission Limits (1)

Project Activity #	Project Description	PM Emission Limits (2)		PM HAP Emission Limits (3)	
		Pound/Hr	Tons/Year	Pound/Hr	Tons/Year
1	4 cyl engine machining	1.18	5.17	0.02	0.02
2	4 cyl engine assembly	0.04	0.18	0.00	0.00
3	4 cyl engine welding	1.28	5.61	0.00	0.00
4	Support	0.40	1.75	0.00	0.00
5	6 cyl & 8 cyl engine assembly	0.11	0.65	0.00	0.00
6	4 cyl B engine assembly	0.07	0.31	0.00	0.00
10	Passenger car axle machining 1	0.20	0.89	0.00	0.00
11	6 cyl engine machining	0.79	3.47	0.01	0.01
12	6 cyl engine welding	0.64	2.81	0.36	0.41
18	Automatic transmission machining	1.91	8.36	0.01	0.02

Project Activity #	Project Description	PM Emission Limits (2)		PM HAP Emission Limits (3)	
		Pound/Hr	Tons/Year	Pound/Hr	Tons/Year
19	Automatic transmission assembly	0.12	0.53	0.00	0.00
-	Exhaust Fans	8.02	35.13	0.00	0.00

NOTES: (1) PM/PM-HAP emission limits are on a per Project Activity basis.
(2) For the purposes of this permit, total PM limits are also limits for PM_{10} and $PM_{2.5}$.
(3) PM-HAPs that count against emission limits are those compounds listed under Section 112(b) of the CAA.

[Permit no. R13-2062 – Specific Requirement A.1.c.]

4.1.4. Pursuant to 45CSR7, Section 3, the permittee shall not cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any operation permitted under Section 4.1.1 or 4.1.21. which is greater than twenty (20) percent opacity, except smoke and/or particulate matter emitted from any operation permitted under Section 4.1.1 or 4.1.21. which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.
[Permit no. R13-2062 – Specific Requirement A.1.e, B.5; 45CSR§§7-3.1&3.2]

4.1.5. No surface coating shall be applied that has VOC content in excess of those limits as listed in West Virginia Legislative Rule 45CSR21, Section 19.3. Definitions of the types of surface coatings listed in Section 19.3 shall be those as given to them in 45CSR21.
[Permit no. R13-2062 – Specific Requirement A.3.a; 45CSR§21-19.3]

4.1.6. For the purposes of this permit, emissions from surface coating operations are counted against the limits permitted under Condition 4.1.2. and should be recorded under requirement 4.4.1.
[Permit no. R13-2062 – Specific Requirement A.3.b.]

4.1.7. Pursuant to 45CSR21, Section 40.3(a)(1), the permittee shall utilize mist collectors, the RTO, and reductions in VOC content so as to achieve, at a minimum, a facility-wide 90 percent reduction in VOC emissions below the total (aggregate) maximum theoretical VOC emissions. "Maximum theoretical emissions" shall have the definition given to it under 45CSR21, Section 2.44. Pursuant to 45CSR21, Section 40.3(b), the permittee may comply with Sections 4.1.7 and 4.1.8 through the submission and approval of an "alternative emissions reduction plan."
[Permit no. R13-2062 – Specific Requirement A.5.a; 45CSR§§21-40.3(a)(1)&(b); State Enforceable Only]

4.1.8. The permittee shall use dust and mist collectors on the emission sources as specified in Permit Applications R13-2062 through R13-2062M and R13-2273, and any amendments or revisions thereto. Said collectors shall be installed, maintained, and operated so as to each achieve the minimum control efficiency listed.
[Permit no. R13-2062 – Specific Requirement A.5.b.]

4.1.9. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.
[Permit no. R13-2062 – Other Requirements B.5; 45CSR§7-5.1]

4.1.10. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.
[Permit no. R13-2062 – Other Requirements B.5; 45CSR§7-5.2]

4.1.11. Due to unavoidable malfunction of equipment, emissions exceeding those set forth in 45CSR7 may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.
[Permit no. R13-2062 – Other Requirements B.5; 45CSR§7-9.1]

4.1.12. **Variance. --** If the provisions of 45CSR21 cannot be satisfied due to repairs made as the result of routine maintenance or in response to the unavoidable malfunction of equipment, the Director may permit the owner or operator of a source subject to this regulation to continue to operate said source for periods not to exceed 10 days upon specific application to the Director. Such application shall be made prior to the making of repairs and, in the case of equipment malfunction, within 24 hours of the equipment malfunction. Where repairs will take in excess of 10 days to complete, additional time periods may be granted by the Director. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director. During such time periods, the owner or operator shall take all reasonable and practicable steps to minimize VOC emissions.**[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-9.3]**

4.1.13. With respect to any source at a facility subject to 45CSR§21-40, which source has maximum theoretical emissions of 6 pounds per hour or more and is constructed, modified or begins operating after the effective date of 45CSR21, comply with a control plan developed on a case-by-case basis approved by the Director that meets the definition of reasonably available control technology (RACT) in 45CSR§21-2.60 for both fugitive and non-fugitive emission sources.
[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-40.3(c); State Enforceable Only]

4.1.14. All RACM control plans, RACT control plans, and alternative emissions reduction plans approved by the Director pursuant to 45CSR§21-40 shall be embodied in a consent order or permit in accordance with 45CSR13 or 45CSR30, as required. A facility owner or operator may at any time petition the Director to approve revisions to these plans. The decision concerning said petition shall be issued by the Director in accordance with 45CSR13 or 45CSR30, as required, or a consent order. Any such revisions shall be subject to the public participation requirements of 45CSR13 or 45CSR30.
[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-40.4(e); State Enforceable Only]

4.1.15. An owner or operator of a non-coating source that is exempt from the emission limitations in 45CSR§21-40.3 shall submit, upon request by the Director, records that document that the source is exempt from these requirements.

a. These records shall be submitted to the Director within 30 days from the date of request.

b. If such records are not made available, the source will be considered subject to the limits in 45CSR§21-40.3.

[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-40.6(b); State Enforceable Only]

4.1.16. The owner or operator of any facility containing sources subject to 45CSR§21-40, shall comply with the requirements in 45CSR§21-5 except that such requirements, as they apply to sources solely subject to 45CSR§21-40 may be modified by the Director upon petition by the owner or operator. Any such modified requirements shall be embodied in the facility's control plan (RACM, RACT or alternative plan) and reflected in the associated consent order or permit issued pursuant to 45CSR13 or 45CSR30.
[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-40.8(c); State Enforceable Only]

4.1.17. The owner or operator of a subject coating line or operation shall notify the Director in the following instances:

a. Any record showing use of any non-complying coatings shall be reported by sending a copy of such record to the Director within 30 days following that use; and

b. At least 30 calendar days before changing the method of compliance from the use of complying coatings to daily-weighted averaging or control devices, the owner or operator shall comply with all requirements of §45-21-4.4.a. or §45-21-4.5.a., respectively. Upon changing the method of compliance from the use of complying coatings to daily-weighted averaging or control devices, the owner or operator shall comply with all requirements of the section of this regulation applicable to the coating line or operation.

[Permit no. R13-2062 – Other Requirements B.8; 45CSR§21-4.3(c)]

4.1.18. Mineral acids shall not be released from any type source operation or duplicate source operation or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity given in Table 45-7B of 45CSR7. According to Table 45-7B of 45CSR7 allowable Stack gas concentration of Sulfuric acid mist in Milligrams per Dry Cubic meter at Standard conditions shall not exceed 35.
[45CSR§7-4.2] [Project #18, anodizer process]

4.1.19. Use of any material containing any constituent identified in Section 112(b) of the 1990 Clean Air Act Amendments as a Hazardous Air Pollutant (HAP), as amended and revised, shall be in accordance with the following:

a. The permittee shall maintain records of all specific HAP compounds used at the facility as required under Section 4.4.1; and

b. No material containing any toxic air pollutant (TAP) as defined by West Virginia Legislative Rule 45CSR27, Section 2.10., shall be used without prior approval of the Director.
[Permit no. R13-2062 – Specific Requirement A.8.j.]

4.1.20. The permittee shall use catalytic converters on each test cell, as required in Condition 5.1.5.a, at all times the test cells are in operation. Use of catalytic converters shall be in accordance with the following requirements:

a. Catalyst life will be limited to that which is recommended by the manufacturer.
b. The permittee shall install an alarm system to notify the operator if the catalyst temperature exceeds the normal operating range as determined under Condition 4.2.1. Upon such notification, the operator will immediately initiate shut-down activity of the associated testing operation.
[Permit no. R13-2062 – Specific Requirement A.5.c.]

4.1.21. The laser clad copper coating of engine heads shall be in accordance with the following requirements:

a. The solvent washers, identified as SW-1 and SW-2, shall be designed, maintained, and operated so as to evacuate all VOC/HAP emissions from the units to a regenerative thermal oxidizer (RTO), identified as SW-C;

b. All emissions from laser cleaning in the cladding process shall be evacuated to facility mist collectors;

c. The laser cladding machines, identified as LC-1 through LC-4, shall be designed, maintained, and operated so that 100% of copper overspray shall be contained within the machine or captured and sent to particulate matter filters (LC-C1 through LC-C4). The laser cladding machines shall be designed, maintained, and operated so that a maximum of 10.5% of total copper powder used is sent to the particulate matter filters for control;

d. VOC and HAP emissions from the solvent washers, as emitted after control by the RTO, shall not exceed:

Solvent Washer VOC/HAP Emission Limits

Pollutant	lb/hr	TPY
VOC	0.88	1.43
HAPs	0.04	0.06

e. Particulate Matter and HAP emissions from the laser cladding machines, as emitted after control by the particulate matter filters, shall not exceed 0.01 TPY and 5 lbs/year, respectively.

[Permit no. R13-2062 – Specific Requirement A.1.d.]

4.1.22. The RTO (SW-C) used to control VOC/HAP emissions from the solvent washers used in the laser clad copper coating operations shall be designed, maintained, and operated so as to achieve a minimum hydrocarbon destruction and removal efficiency (DRE) of 95%. The RTO shall be designed to not exceed an MDHI of 0.51 mmBtu/hr and combustion exhaust emissions (does not include uncombusted VOC/HAP pass-through emissions from the solvent washers) from the unit shall not exceed the following limits:

RTO Combustion Exhaust Emission Limits[1]

Pollutant	lb/hr	TPY
CO	0.09	0.40
NO_X	0.11	0.48

[1] As the annual emissions are based on 8,760 hours of operation, there are no annual limits on hours of operation or waste gas combusted.

[Permit no. R13-2062 – Specific Requirement A.5.d.]

4.1.23. The particulate matter filters (LC-C1 through LC-C4) used in the laser copper cladding operations shall be designed, maintained, and operated so as to achieve a minimum design collection efficiency of 99.9%. The particulate matter filters shall be cleaned/replaced per manufacturer's recommendations so as to guarantee the minimum collection efficiency.
[Permit no. R13-2062 – Specific Requirement A.5.e.]

4.1.24. The RTO is subject to 45CSR6. The requirements of 45CSR6 include but are not limited to the following:

a. The permittee shall not cause, suffer, allow or permit particulate matter to be discharged from the flares into the open air in excess of the quantity determined by use of the following formula:

Emissions (lb/hr) = F x Incinerator Capacity (tons/hr)

Where, the factor, F, is as indicated in Table I below:

Table I: Factor, F, for Determining Maximum Allowable Particulate Emissions

Incinerator Capacity	Factor F
A. Less than 15,000 lbs/hr	5.43
B. 15,000 lbs/hr or greater	2.72

[45CSR§6-4.1]

b. No person shall cause, suffer, allow or permit emission of smoke into the atmosphere from any incinerator which is twenty (20%) percent opacity or greater.
[45CSR§6-4.3.]

c. The provisions of 4.1.24.b shall not apply to smoke which is less than forty (40%) percent opacity, for a period or periods aggregating no more than eight (8) minutes per start-up.
[45CSR§6-4.4]

d. No person shall cause or allow the emission of particles of unburned or partially burned refuse or ash from any incinerator which are large enough to be individually distinguished in the open air.
[45CSR§6-4.5]

e. Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.
[45CSR§6-4.6]

f. Due to unavoidable malfunction of equipment, emissions exceeding those provided for in this rule may be permitted by the Director for periods not to exceed five (5) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.
[45CSR§6-8.2]

[Permit no. R13-2062 – Other Requirements B.4.]

4.2. Monitoring Requirements

4.2.1. The permittee shall develop, or continue the application of, a compliance monitoring plan with respect to the operation of the control devices. This plan will identify the following:

a. Control device parameters that can be monitored to ensure operation of the control devices at or above their minimum control efficiencies. This must include direct monitoring of the catalytic converter catalyst temperature.

b. Reasonable operating ranges for the control device parameters that ensure operation of the control devices at or above their minimum control efficiencies.

c. Validation of the ranges identified under (b) above either with manufacturer's recommendations or on-site testing.

As necessary or as reasonably required by the Director, the permittee shall revise and submit the plan as detailed above to the Director. This plan shall be subject to the approval of the Director. A copy of the approved plan shall be kept on-site and made available to the Director or his/her duly authorized representative upon request.
[Permit no. R13-2062 – Specific Requirement A.7.a.]

4.2.2. The permittee shall develop, or continue the application of, a routine maintenance, repair, and replacement plan with respect to all emissions generating equipment and control devices and maintain records of all scheduled and non-scheduled maintenance performed on the equipment. These records need not include maintenance tasks that have no potential effect on emissions performance. A copy of the plan shell be kept on-site and made available to the Director or his/her duly authorized representative upon request.
[Permit no. R13-2062 – Specific Requirement A.7.b.]

4.2.3. At least monthly, visual emission checks of each emission point subject to an opacity limit shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40 CFR 60 Appendix A, Method 22. If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct a 40 CFR 60 Appendix A, Method 9 evaluation within one (1) month. A Method 9 evaluation shall not be required if the visible emission condition is corrected in a timely manner and the units are operated at normal operating conditions. A record of each visible emission check required above shall be maintained on site for a period of no less than five (5) years. Said record shall include, but not be limited to, the date, time, name of emission unit, the applicable visible emissions requirement, the results of the check, what action(s), if any, was/were taken, and the name of the observer.
[Permit no. R13-2062 – Specific Requirement A.7.c.]

4.2.4. The concentration of the sulfuric acid used in the Valve Body anodizer process (Project #18) shall be tested on a monthly basis and shall not exceed 30%. Records of sulfuric acid concentration in the anodizer process shall be retained on-site.
[45CSR§§30-5.1.c. & 12.7.]

4.3. Testing Requirements

4.3.1. The owner or operator of any source subject to 45CSR§21-40.3 shall demonstrate compliance with 45CSR§21-40.3 by using the applicable test methods specified in 45CSR§21-41 through 46 or by other means approved by the Director. Notwithstanding the requirements of 45CSR§21-41.1, EPA approval for alternate test methods to demonstrate compliance shall not be required for sources which are subject solely to emission control requirements specified in 45CSR§21-40.3.
[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-40.5; State Enforceable Only]

4.3.2. The owner or operator of the subject VOC sources shall perform all testing and maintain the results of all tests and calculations required under 45CSR§21-40.3 and 45CSR§21-40.5 to demonstrate that the subject source is in compliance.
[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-40.8(a); State Enforceable Only]

4.3.3. Upon startup of a new coating line or operation, or upon changing the method of compliance for an existing coating line or operation from the use of complying coatings or daily-weighted averaging to control devices, the owner or operator of the subject coating line or operation shall perform a compliance test. Testing shall be performed pursuant to the procedures in 45CSR§§21-41 through 44. The owner of operator of the subject coating line or operation shall submit to the Director the results of all tests and calculations necessary to demonstrate that the subject coating line or operation is or will be in compliance with the applicable section of this regulation on and after the initial startup date.
[Permit no. R13-2062 – Other Requirements B.8; 45CSR§21-4.5(a)]

4.3.4. For sulfuric acid mist testing, the permittee shall use 40 C.F.R §§ 60.85 (a) and (b) and 40 CFR 60 Appendix A, Methods 1, 2, 3, and 8, as published on July 1, 1997, except that the SO_2 emission rate does not necessarily have to be determined. The sulfuric acid mist concentration shall be expressed in milligrams per dry standard cubic meter. Permittee shall furnish the Secretary a written report of the results of such testing and sulfuric acid concentration used during testing.

These records shall be maintained on site.

Subsequent testing to determine compliance with the sulfuric acid mist limitation (as per Section 4.1.18) shall be conducted in accordance with the schedule set forth in the following table:

Test Results	Testing Frequency
<50% of sulfuric acid mist limit	No additional Testing except as required in Section 4.3.5
Between 50% and 90 % of sulfuric acid mist limit	Once/ 5 years
≥90% of sulfuric acid mist limit	Annual

[45CSR§30-5.1.c] [Project #18, anodizer process]

4.3.5. If the concentration of the sulfuric acid used in the Valve Body anodizer process (Project #18) exceeds 30%, the company shall perform a subsequent stack test as required in Section 4.3.4 within 90 days of switching to a higher concentration of sulfuric acid. Subsequent testing to determine compliance with sulfuric acid mist limitation shall be conducted in accordance with the schedule set forth in Section 4.3.4.
[45CSR§30-5.1.c]

4.4. Recordkeeping Requirements

4.4.1. For the purposes of determining on-going compliance with the limits set forth in Section 4.1.2, the permittee shall maintain records of the following on a project activity grouping (as listed under the table in Section 4.1.2) basis:

a. The hours of operation of each project activity grouping; and

b. The name and product number of each coolant, washing fluid, solvent, etc. (referred to hereafter as "material") used in the operation of each project activity grouping that is not excluded under Section 4.4.1.e; and

c. The mass of VOC and speciated HAPs of each material and the volume of each material used each month.

d. Within fifteen (15) days of the last day of each month, the permittee shall file a summary report that contains the following information: hourly, monthly, and rolling twelve-month emission rates for VOCs and speciated HAPs from each of the project activity grouping listed under Section 4.1.2. The VOC and speciated HAP emission rates shall be calculated using the following formulas:

i. The mass of VOCs and speciated HAPs per volume of each material shall be determined by one of the following methods:

1. Certified Product Data Sheets ("Certified Product Data Sheets" shall have the definition assigned to them under 40 CFR 63, Subpart KK) or an equivalent provided by the material supplier, or

2. A test conducted, or have conducted, by the permittee to determine the applicable quantities using either Method 24 of 40 CFR 60 or a test method approved in advance by the Director, or

3. Material Safety and Data Sheets if the material is used in an aggregate amount less than 100 gallons on an annual basis and for which either of the above two options is not reasonable, or

4. Another method on a material case-by-case basis as approved in advance by the Director.

ii. The mass of VOCs and speciated HAPs of each material used on a monthly basis, shall be calculated using the following formula:

$$\text{Mass}_{(\text{pounds of VOCs, HAPs/Month})} = A*B$$

Where: A = monthly material usages in gallons per month
B = VOCs and speciated HAPs content of the materials used in pounds per gallon as determined under Section 4.4.1.d.i.

iii. The annual, monthly, and hourly emission rates of VOCs and speciated HAPs shall be calculated in the following manner:

1. The annual emission rate of VOCs and aggregate and speciated HAPs shall be calculated as the sum of the monthly emission rates of VOCs and speciated HAPs, respectively, from the previous twelve (12) months.

2. The monthly emission rate of VOCs and aggregate and speciated HAPs shall be calculated, on a monthly basis, using the following formula:

$$\text{Emission rate}_{(\text{pounds of VOCs, HAPs/Month})} = \text{Mass}_{(\text{pounds of VOCs, HAPs/Month})}$$

3. The hourly emission rates of VOCs and aggregate and speciated HAPs shall be calculated, on a monthly basis, using the following formula:

$$\text{Emission rate}_{(\text{pounds of VOCs, HAPs/Hour})} = \text{Emission rate}_{(\text{pounds of VOCs, HAPs/Month})}/D$$

Where: D = Monthly hours of specific project activity operations

e. Materials may be excluded from actual emissions reporting under this section when/if used during non-production/assembly purposes (e.g., janitorial) only.

[Permit no. R13-2062 – Specific Requirement A.8.a.]

4.4.2. For the purposes of determining compliance with the VOC emissions reduction requirement set forth in Section 4.1.7, the permittee shall, within fifteen (15) days of the last day of each month, file a report that contains the annual VOC emissions reduction percentage.
[Permit no. R13-2062 – Specific Requirement A.8.b.]

4.4.3. For the purposes of determining compliance with maximum production throughput limits set forth in Section 4.1.1, the applicant shall maintain monthly and annual records of the production levels for each Project Activity permitted therein.
[Permit no. R13-2062 – Specific Requirement A.8.c.]

4.4.4. The owner or operator of the subject VOC source shall maintain Section 4.3.2 records in a readily accessible location for a minimum of 3 years, and shall make Section 4.3.2 records available to the Director upon verbal or written request.
[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-40.8(b); State Enforceable Only]

4.4.5. **Recordkeeping**

a. Each owner or operator of a source subject to 45CSR§21-5 shall maintain up-to-date, readily accessible records of any equipment operating parameters specified to be monitored in the applicable section of 45CSR21 as well as up-to-date, readily accessible records of periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. These records shall be maintained for at least 3 years. The Director may at any time require a report of these data.

b. A log of operating times for capture systems, control devices, monitoring equipment, and the associated source; and

c. A maintenance log for the capture system, control devices, and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.

[Permit no. R13-2062 – Other Requirements B.7; 45CSR§21-5.3(b)]

4.4.6. On and after the initial startup date, the owner or operator of a coating line or operation complying by the use of complying coatings shall collect and record all of the following information each day for each coating line or operation and maintain the information at the facility for a period of 3 years.

a. The name and identification number of each coating, as applied, on each coating line or operation; and

b. The mass of VOC per volume of each coating (minus water and exempt compounds), as applied, used each day on each coating line or operation.

[Permit no. R13-2062 – Other Requirements B.8; 45CSR§21-4.3(b)]

4.4.7. For the purposes of determining on-going compliance with the limits set forth in 4.1.21.d, the permittee shall maintain records of the actual (as calculated) VOC/HAP uncontrolled emissions generated in the solvent washing operations using the calculation methodologies as specified under 4.4.1. Actual controlled VOC/HAP emissions may then be calculated using the minimum control efficiency of the RTO as specified under 4.1.22.
[Permit no. R13-2062 – Specific Requirement A.8.i.1.]

4.4.8. For the purposes of determining on-going compliance with the limits set forth in 4.1.21.e, the permittee shall maintain records of the actual (as calculated) particulate matter/HAP emissions generated in the laser cladding machines using the calculation methodology as used in Attachment N of Permit Application R13-2062M. Actual powder usages and the associated MSDS shall be used in the calculations. These records shall be prepared and maintained according to the same schedule as given under 4.4.1.
[Permit no. R13-2062 – Specific Requirement A.8.i.2.]

4.5. Reporting Requirements

4.5.1. Upon startup of a new coating line or operation, or upon changing the method of compliance for an existing subject coating line or operation from the use of complying coatings or control devices to daily-weighted averaging, the owner or operator of the subject coating line or operation shall certify to the Director that the coating line or operation is or will be in compliance with 45CSR§21-4.4 on and after the initial startup date. Such certification shall include:

a. The name and location of the facility;

b. The address and telephone number of the person responsible for the facility;

c. Identification of subject sources;

d. The name and identification number of each coating line or operation which will comply by means of daily weighted averaging;

e. The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating (minus water and exempt compounds), as applied, used each day on each coating line or operation;

f. The method by which the owner or operator will create and maintain records each day as required in Section 45CSR§21-4.4.b;

g. An example of the format in which the records required in section 45CSR§21-4.4.b will be kept;

h. Calculation of the daily-weighted average, using the procedure in 45CSR§21-43.1, for a day representative of current or projected maximum production levels; and

i. The time at which the facility's "day" begins if a time other than midnight local time is used to define a "day".

[Permit no. R13-2062 – Other Requirements B.8; 45CSR§21-4.4(a)]

4.6. Compliance Plan

4.6.1. None.

5.0 Combustion Operations, Testing and Heat Treatment

5.1. Limitations and Standards

5.1.1. Excluding the emergency generators permitted in Section 7 of this Permit, the facility-wide maximum design heat input of all natural gas combustion units (excluding the RTO) shall not exceed 172.03 mmBtu/hr and the facility-wide combustion of natural gas shall not exceed, on a twelve (12) month rolling total basis, 1,005 million standard cubic feet. Excluding the emergency generators permitted in Section 7 of this Permit, the natural gas combustion sources authorized at the facility are HVAC units and the following sources in the Heat Treatment Operations: Dry Furnaces, Carburizing Furnaces, and RX Gas Generators.
[Permit no. R13-2062 – Specific Requirement A.2.a.]

5.1.2. The maximum design heat input of propane combustion in the heat treatment process shall not exceed 1.33 mmBtu/hr and, on a twelve (12) month rolling total basis, the use of propane shall not exceed 127,546 gallons.
[Permit no R13-2062 – Specific Requirement A.2.b.]

5.1.3. The use of the diesel-electric generator (DG-5031) shall be in accordance with the following:

a. The maximum design heat input shall not exceed 9.92 mmBtu/hr.

b. The combustion of Number 2 Fuel Oil shall not exceed, on a twelve (12) month rolling total basis, 141,715 gallons.

c. The maximum weight percent of sulfur in the Number 2 Fuel Oil shall not exceed 0.3%.

[Permit no. R13-2062 – Specific Requirement A.2.c.]

5.1.4. Pursuant to 45CSR2, Section 3.1, the permittee shall not cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any indirect heat exchanger which is greater than ten (10) percent opacity based on a six minute block average. Pursuant to 45CSR2, Section 9.1, the visible emission standards set forth in Section 5.1.4 shall apply at all times except in periods of start-ups, shutdowns and malfunctions. Where the Director believes that start-ups and shutdowns are excessive in duration and/or frequency, the Director may require an owner or operator to provide a written report demonstrating that such frequent start-ups and shutdowns are necessary.
[Permit no. R13-2062– Specific Requirement A.2.h, B.2, 45CSR§§2-3.1 and 9.1]

5.1.5. The use of engine test cells and firing benches shall be in accordance with the following:

a. The test cells/firing benches authorized at the facility are given in the Section 1.1 Emissions Units: Authorized Test/Firing Benches table. The test cells/firing benches shall be installed, maintained, and operated so as to minimize any fugitive escape of pollutants and the equipment/processes shall use, where applicable, the specified control devices.

b. The nine (9) test cells identified under Condition 5.1.5.a shall not operate, in the aggregate, more than 22,500 hours on a 12-month rolling yearly total basis.

c. The three (3) firing benches identified under Condition 5.1.5.a shall not combust, in the aggregate, more than 3,750 gallons of gasoline on a 12-month rolling yearly total basis.
[Permit no. R13-2062– Specific Requirement A.2.d]

5.1.6. The maximum hourly and annual aggregate emission rates from the specified combustion sources shall not exceed the limits given in the following table:

Aggregate Combustion Sources Emission Limits

Source	CO		NO_X		PM(1)		SO_2		VOCs	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Natural Gas/Propane Combustion	14.56	42.67	17.39	51.06	1.32	3.86	0.12	0.39	0.96	2.83
Diesel Generator(2)	0.35	0.35	1.70	1.70	0.23	0.23	3.02	3.02	0.02	0.02
Test Cells	n/a	91.69	n/a	34.54	n/a	1.35	n/a	0.10	n/a	11.25
Firing Benches	n/a	7.41	n/a	0.21	n/a	0.17	n/a	0.10	n/a	1.61

(1) All particulate matter emissions are assumed to be $PM_{2.5}$ or less and includes condensable particulate matter.

(2) Only one diesel generator is authorized under R13-2062. The remaining generators are permitted under G60-D005.

[Permit no. R13-2062– Specific Requirement A.2.f]

5.1.7. The maximum hourly emission rates from individual test cells and firing benches shall not exceed the limits given in the following table:

Source	CO		NO_X		PM(1)		SO_2		VOCs	
	lb/hr	lb/gal	lb/hr	lb/gal	lb/hr	lb/gal	lb/hr	lb/gal	lb/hr	lb/gal
Test Cells	8.15	n/a	3.07	n/a	0.12	n/a	0.10	n/a	9.00	n/a
Firing Benches	41.48	3.95	1.16	0.11	0.95	0.09	0.10	n/a	9.03	0.86

(1) All particulate matter emissions are assumed to be $PM_{2.5}$ or less and includes condensable particulate matter.

[Permit no. R13-2062– Specific Requirement A.2.g]

5.2. Monitoring Requirements

5.2.1. None.

5.3. Testing Requirements

5.3.1. None.

5.4. Recordkeeping Requirements

5.4.1. For the purposes of determining compliance with maximum natural gas combustion throughput and propane usage limits set forth in Sections 5.1.1 & 5.1.2, the applicant shall maintain monthly and annual records of the amount of natural gas that is combusted at the facility and the amount of propane used in the heat treatment process, respectively.

[Permit no. R13-2062 – Specific Requirement A.8.d.]

5.4.2. For the purposes of determining compliance with maximum Number 2 Fuel Oil combustion throughput limits set forth in Section 5.1.3.b, the applicant shall maintain monthly and annual records of the amount of Number 2 Fuel Oil that is combusted at the facility.
[Permit no. R13-2062 – Specific Requirement A.8.e.]

5.4.3. For the purposes of determining compliance with the percent sulfur requirement under Section 5.1.3.c, the applicant shall, at a minimum of once per calendar year, obtain from the fuel supplier a certification of the sulfur content of the fuel supplied. Such records shall be retained by the permittee for at least five (5) years and be made available to the Director of the Division of Air Quality (Director) or his/her duly authorized representative upon request.
[Permit no. R13-2062 – Specific Requirement A.8.f.]

5.4.4. For the purposes of determining compliance with maximum hours of operation limit set forth in Condition 5.1.5.b, the applicant shall maintain monthly and annual records of the aggregate hours of operation of all the engine test cells.
[Permit no. R13-2062 – Specific Requirement A.8.g.]

5.4.5. For the purposes of determining compliance with maximum gasoline combustion limit set forth in Condition 5.1.5.c, the applicant shall maintain monthly and annual records of the aggregate gasoline combusted in firing benches.
[Permit no. R13-2062 – Specific Requirement A.8.h.]

5.4.6. The permittee shall prepare and maintain a list of all natural gas-fired combustion units at the facility. The list shall include the general location of the unit, its function, and the MDHI of the unit.
[Permit no. R13-2062 – Specific Requirement A.8.m.]

5.5. Reporting Requirements

5.5.1. None.

5.6. Compliance Plan

5.6.1. None.

6.0 Storage Tanks [emission point ID(s): G1, G2, G3, DT-1, DT-2, DT-ZZ, DT-MZ, QC-AT, DT-AT1, DT-AT2, ET-01, OST1 – OST8, FH1, FH2, and T17]

6.1. Limitations and Standards

6.1.1. Section 1.1. contains a list of storage tanks authorized to operate at the subject facility. **[Permit no. R13-2062 – Specific Requirement A.4.a.]**

6.1.2. The gasoline storage tanks, emission point identification number G1, G2, G3 (3 compartment), QC-AT, and ET-01 shall be equipped for submerged fill and vapor recovery. The gasoline supply truck(s) must be equipped for vapor recovery and use vapor recovery lines during all times the tank is being filled. **[Permit no. R13-2062 – Specific Requirement A.4.b.]**

6.2. Monitoring Requirements

6.2.1. None.

6.3. Testing Requirements

6.3.1. None.

6.4. Recordkeeping Requirements

6.4.1. None.

6.5. Reporting Requirements

6.5.1. None.

6.6. Compliance Plan

6.6.1. None.

7.0 Emergency Generators [emission point ID(s): GEN-11E, GEN-11W, GEN-12, GEN-13, GEN-14, GEN-15, GEN-SEC, GEN-SBR, GEN-Pharm, GEN-IS-2, GEN-Cafe]

7.1. Limitations and Standards

7.1.1. The permittee is authorized to operate the emission units GEN-11E, GEN-11W, GEN-12, GEN-13, GEN-14, GEN-15, GEN-SEC, GEN-SBR, GEN-Pharm, GEN-IS-2, GEN-Cafe with the following emission limits in accordance with all terms and conditions of General Permit Registration G60-D005 and General Permit G60-D.

Emission Limitations

Source ID#	Nitrogen Oxides		Carbon Monoxide		Volatile Organic Compounds	
	lb/hr	**ton/yr**	**lb/hr**	**ton/yr**	**lb/hr**	**ton/yr**
GEN-11E	0.63	0.16	1.06	0.26	0.01	0.01
GEN-11W	0.63	0.16	1.06	0.26	0.01	0.01
GEN-12	0.63	0.16	1.06	0.26	0.01	0.01
GEN-13	0.63	0.16	1.06	0.26	0.01	0.01
GEN-14	1.31	0.33	2.21	0.55	0.02	0.01
GEN-15	1.31	0.33	2.21	0.55	0.02	0.01
GEN-SEC	1.31	0.33	2.21	0.55	0.02	0.01
GEN-SBR	1.78	0.45	3.00	0.75	0.02	0.01
GEN-Pharm	0.97	0.24	1.63	0.41	0.01	0.01
GEN-IS-2	1.31	0.33	2.21	0.55	0.02	0.01
GEN-Cafe	1.78	0.45	3.00	0.75	0.02	0.01
TOTAL	12.31	3.08	20.71	5.18	0.16	0.04

[45CSR13, General Permit Registration, G60-D005 and G60-D]

7.1.2. *Regulated Pollutant Limitation.* The registrant shall not cause, suffer, allow or permit emissions of any regulated pollutant listed in the General Permit Registration to exceed the emission limit (pounds per hour and tons per year) recorded with the registrant's General Permit Registration. The registrant may request a modification or administrative update to these emission limits.
[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.1.2]

7.1.3. *Maximum Hourly Limitation.* The maximum hours of operation for any registered emergency generator listed in the General Permit Registration application shall not exceed 500 hours per year. Compliance with the Maximum Yearly Hourly Operation Limitation shall be determined using a twelve-month rolling total. A twelve-month rolling total shall mean the sum of the hours of operation at any given time during the previous twelve consecutive calendar months.
[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.1.3]

7.1.4. The applicable emergency generator(s) shall be operated and maintained as follows:

a. In accordance with the manufacturer's recommendations and specifications or in accordance with a site specific maintenance plan; and,

b. In a manner consistent with good operating practices.

[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.1.4]

7.1.5. The registrant shall comply with all applicable NSPS for Stationary Compression Ignition Internal Combustion Engines specified in 40 Part 60, Subpart IIII, Stationary Spark Ignition Internal Combustion Engines specified in 40 CFR Part 60, Subpart JJJJ, and/or the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines specified in 40 CFR Part 63, Subpart ZZZZ.
[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.1.6]

7.1.6. The emission limitations specified in sections 7.1.1 and 7.1.2 shall apply at all times except during periods of start-up and shut-down provided that the duration of these periods does not exceed 30 minutes per occurrence. The registrant shall operate the engine in a manner consistent with good air pollution control practices for minimizing emissions at all times, including periods of start-up and shut-down. The emissions from start-up and shut-down shall be included in the twelve (12) month rolling total of emissions. The registrant shall comply with all applicable start-up and shut-down requirements in accordance with 40 CFR Part 60, Subparts IIII, JJJJ and 40 CFR Part 63, Subpart ZZZZ.
[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.1.7]

7.2. Monitoring Requirements

7.2.1. None.

7.3. Testing Requirements

7.3.1. None.

7.4. Recordkeeping Requirements

7.4.1. To demonstrate compliance with permit condition 7.1.3, the registrant shall maintain records of the hours of operation of the emergency generator(s) on a monthly basis.
[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.3.1]

7.4.2. To demonstrate compliance with permit section 7.1.4, the registrant shall maintain records of the maintenance performed on each emergency generator.
[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.3.2]

7.4.3. The registrant shall comply with all applicable recordkeeping requirements under NSPS for Stationary Compression Ignition Internal Combustion Engines specified in 40 CFR Part 60, Subpart IIII, Stationary Spark Ignition Internal Combustion Engines specified in 40 CFR Part 60, Subpart JJJJ, and/or the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines specified in 40 CFR Part 63, Subpart ZZZZ.
[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.3.4]

7.5. Reporting Requirements

7.5.1. The registrant shall comply with all applicable notification requirements under NSPS for Stationary Compression Ignition Internal Combustion Engines specified in 40 CFR Part 60, Subpart IIII, Stationary Spark Ignition Internal Combustion Engines specified in 40 CFR Part 60, Subpart JJJJ, and/or the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines specified in 40 CFR Part 63, Subpart ZZZZ.
[45CSR13, General Permit Registration, G60-D005 and G60-D, Condition 5.5.1]

7.6. Compliance Plan

7.6.1. None.

8.0 40 C.F.R. 63 Subpart ZZZZ requirements for Emergency Generators and 2 Fire Pumps [GEN-11E, GEN-11W, GEN-12, GEN-13, GEN-SEC, DG-5031, and 2 Fire Pumps]

8.1. Limitations and Standards

8.1.1. If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart.

Table 2d to Subpart ZZZZ of Part 63

For each...	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
4. Emergency stationary CI RICE.[2] **(DG-5031, and 2 Fire Pumps)**	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;[1]	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
5. Emergency stationary SI RICE[2] **(GEN-11E, GEN-11W, GEN-12, GEN-13 & GEN-SEC)**	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;[1]	
	b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	

[1] Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.

[2] If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

[45CSR34; 40 C.F.R. §63.6603(a) and Table 2d of 40 CFR 63 Subpart ZZZZ]

8.1.2. The permittee must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.
[45CSR34; 40 C.F.R. §§63.6605(a)]

8.1.3. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available

to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **[45CSR34; 40 C.F.R. §§63.6605(b)]**

8.1.4. The permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Table 2d to this subpart that apply to you according to methods specified in Table 6 to 40 C.F.R. 63 Subpart ZZZZ.

Table 6 to Subpart ZZZZ of Part 63

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
9. Existing emergency stationary RICE located at an area source of HAP	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
		ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[45CSR34; 40 C.F.R. §63.6640(a) and Table 6 of 40 CFR63 Subpart ZZZZ]

8.1.5. The permittee must operate the emergency stationary RICE according to the requirements in paragraphs 8.1.5.a through 8.1.5.c of this condition. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 8.1.5.a through 8.1.5.c, is prohibited. If you do not operate the engine according to the requirements in 8.1.5.a through 8.1.5.c, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

a. There is no time limit on the use of emergency stationary RICE in emergency situations.

b. You may operate your emergency stationary RICE for any combination of the purposes specified in 8.1.5.b.i through 8.1.5.b.iii for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph 8.1.5.c counts as part of the 100 hours per calendar year allowed by 8.1.5.b.

i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

ii. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see

§63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

iii. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

c. Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 8.1.5.b. Except as provided in paragraphs 8.1.5.c.i and 8.1.5.c.ii, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

i. Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

ii. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

A. The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

B. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

C. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

D. The power is provided only to the facility itself or to support the local transmission and distribution system.

E. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[45CSR34; 40 C.F.R. §63.6640(f)]

8.1.6. Permittee shall comply with Table 8 of 40CFR63, Subpart ZZZZ, except per 40 C.F.R. §63.6645(a)(5), the following do not apply: §§ 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
[45CSR34; 40 C.F.R. §63.6665]

8.2. Monitoring Requirements

8.2.1. The permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan

which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
[45CSR34; 40 C.F.R. §63.6625(e)]

8.2.2. The permittee must install a non-resettable hour meter if one is not already installed.
[45CSR34; 40 C.F.R. §63.6625(f)]

8.2.3. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.
[45CSR34; 40 C.F.R. §63.6625(h)]

8.2.4. If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
[45CSR34; 40 C.F.R. §63.6625(i)] (DG-5031, and 2 Fire Pumps)

8.2.5. If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
[45CSR34; 40 C.F.R. §63.6625(j)] (GEN-11E, GEN-11W, GEN-12, GEN-13 & GEN-SEC)

8.3. Testing Requirements

8.3.1. None.

8.4. Recordkeeping Requirements

8.4.1. If you must comply with the emission and operating limitations, you must keep the following records:

a. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

b. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

c. Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

d. Records of all required maintenance performed on the air pollution control and monitoring equipment.

e. Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[45CSR34; 40 C.F.R. §63.6655(a)]

8.4.2. You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.
[45CSR34; 40 C.F.R. §63.6655(d)]

8.4.3. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.
[45CSR34; 40 C.F.R. §63.6655(e)]

8.4.4. The permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.
[45CSR34; 40 C.F.R. §63.6655(f)]

8.5. Reporting Requirements

8.5.1. Permittee shall comply with reporting requirements of Footnote 2 of Table 2d of 40 C.F.R. 63 Subpart ZZZZ (See Condition 8.1.1).
[45CSR34; 40 C.F.R. 63 Subpart ZZZZ]

8.5.2. The permittee must report each instance in which you did not meet each emission limitation or operating limitation in Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.
[45CSR34; 40 C.F.R. §63.6640(b)]

8.5.3. The permittee must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you
[45CSR34; 40 C.F.R. §63.6640(e)]

8.6. Compliance Plan

8.6.1. None.

9.0 40 C.F.R. 60 Subpart JJJJ requirements for Emergency Generators GEN-Pharm, GEN-IS-2, and GEN-Cafe

9.1. Limitations and Standards

9.1.1. Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards for field testing in 40 C.F.R. §1048.101(c) for their non-emergency stationary SI ICE and with the emission standards in Table 1 to 40 C.F.R. 60, Subpart JJJJ for their emergency stationary SI ICE. Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) manufactured prior to January 1, 2011, that were certified to the standards in Table 1 to 40 C.F.R. 60, Subpart JJJJ applicable to engines with a maximum engine power greater than or equal to 100 HP and less than 500 HP, may optionally choose to meet those standards.

Engine type and Fuel	Maximum Engine Power	Manufacture Date	Emission Standards[a]					
			g/HP-hr			ppmvd at 15% O_2		
			NO_X	CO	VOC[d]	NO_X	CO	VOC[d]
Emergency	25<HP<130	1/1/2009	[c]10	387	N/A	N/A	N/A	N/A

[a]Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O_2.

[c]The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NO_X + HC.

[d]For purposes of 40 C.F.R. 60, Subpart JJJJ, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.
[45CSR16; 40 C.F.R. §60.4233(d); and Table 1 to 40 C.F.R. 60, Subpart JJJJ] (GEN-Pharm and GEN-Cafe)

9.1.2. Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE. For owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 100 HP (except gasoline and rich burn engines that use LPG) manufactured prior to January 1, 2011 that were certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines, if such stationary SI ICE was certified to a carbon monoxide (CO) standard above the standard in Table 1 to this subpart, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.

Engine type and Fuel	Maximum Engine Power	Manufacture Date	Emission Standards[a]					
			g/HP-hr			ppmvd at 15% O_2		
			NO_X	CO	VOC[d]	NO_X	CO	VOC[d]
Emergency	HP ≥ 130	1/1/2009	2.0	4.0	1.0	160	540	86

[a]Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O2.

[d]For purposes of 40 C.F.R. 60, Subpart JJJJ, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.
[45CSR16; 40 C.F.R. §60.4233(e); and Table 1 to 40 C.F.R. 60, Subpart JJJJ] (GEN-IS-2)

9.1.3. For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in 40CFR§60.4233 after January 1, 2011.
[45CSR16; 40 C.F.R. §60.4236(c)] (GEN-Pharm, GEN-IS-2 and GEN-Cafe)

9.1.4. Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in 40CFR§60.4233 over the entire life of the engine.
[45CSR16; 40 C.F.R. §60.4234] (GEN-Pharm, GEN-IS-2, and GEN-Cafe)

9.1.5. If the permittee owns or operates an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (a) through (c) of this condition. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c) of this condition, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (a) through (c) of this condition, the engine will not be considered an emergency engine and must meet all requirements for non-emergency engines.

a. There is no time limit on the use of emergency stationary ICE in emergency situations.

b. The permittee may operate an emergency stationary ICE for any combination of the purposes specified in paragraphs (b)(1) through (3) of this condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (c) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph (b).

1. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

2. Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40CFR §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

3. Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

c. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (b) of this section. Except as provided in paragraph (c)(1) of this condition, the 50 hours per year for

non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

1. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

   i. The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

   ii. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

   iii. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

   iv. The power is provided only to the facility itself or to support the local transmission and distribution system.

   v. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[45CSR16; 40 C.F.R. §60.4243(d)] (GEN-Pharm, GEN-IS-2, and GEN-Cafe)

9.1.6. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.
[45CSR16; 40 C.F.R. §60.4243(g)] (GEN-Pharm, GEN-IS-2, and GEN-Cafe)

9.1.7. If the permittee is an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in 40CFR§§60.4233(d) or (e), the permittee must demonstrate compliance according to the following method:

a. Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to the following method:

   1. If the permittee operates and maintains the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the permittee must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if the permittee is an owner or operator. The permittee must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If the permittee adjusts engine settings according to and consistent with the manufacturer's instructions, the stationary SI internal combustion engine will not be considered out of compliance.

[45CSR16; 40 C.F.R. §§60.4243(a)(1) and 60.4243(b)(1)] (GEN-Pharm, GEN-IS-2, and GEN-Cafe)

9.1.8. Table 3 to 40CFR60, Subpart JJJJ shows which parts of the General Provisions in 40CFR§§60.1 through 60.19 are applicable.
[45CSR16; 40 C.F.R. §60.4246] (GEN-Pharm, GEN-IS-2, and GEN-Cafe)

9.2. Monitoring Requirements

9.2.1. The permittee must install a non-resetable hour meter.
[45CSR16; 40 C.F.R. §§60.4237(b) and (c)] (GEN-Pharm, GEN-IS-2, and GEN-Cafe)

9.3. Testing Requirements

9.3.1. None.

9.4. Recordkeeping Requirements

9.4.1. The permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.
[45CSR16; 40 C.F.R. §60.4245(b)] (GEN-Pharm, GEN-IS-2, and GEN-Cafe)

9.4.2. The permittee must keep records of the following information

a. All notifications submitted to comply with 40CFR60, Subpart JJJJ and all documentation supporting any notification.

b. Maintenance conducted on the engine.

c. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

d. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

[45CSR16; 40 C.F.R. §60.4245(a)] (GEN-Pharm, GEN-IS-2, and GEN-Cafe)

9.5. Reporting Requirements

9.5.1. If the permittee owns or operates an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40CFR§§60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in 40CFR§60.4243(d)(3)(i), the permittee must submit an annual report according to the following requirements:

a. The report must contain the following information:

1. Company name and address where the engine is located.

2. Date of the report and beginning and ending dates of the reporting period.

3. Engine site rating and model year.

4. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

5. Hours operated for the purposes specified in 40CFR§§60.4243(d)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in 40CFR§§60.4243(d)(2)(ii) and (iii).

6. Number of hours the engine is contractually obligated to be available for the purposes specified in 40CFR§§60.4243(d)(2)(ii) and (iii).

7. Hours spent for operation for the purposes specified in 40CFR§60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in 40CFR§60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

b. The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

c. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40CFR§60.4.

[45CSR16; 40 C.F.R. §60.4245(e)] (GEN-IS-2 and GEN-Cafe)

9.5.2. Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of 40CFR§60.4233.
[45CSR16; 40 C.F.R. §60.4243(e)] (GEN-Pharm, GEN-IS-2, and GEN-Café)

9.6. Compliance Plan

9.6.1. None.

Appendix A

Toyota Motor Manufacturing West Virginia: Buffalo Plant

R13-2062M: Identification Number 07900072

CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that all information contained in the attached _____, representing the period beginning_____and ending_____, and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry.

Name (Type or Print): _____

Signature[1]: _____

Title: _____

Date: _____

Telephone No.: _____

Fax No.: _____

[1]This form shall be signed by a "Responsible Official". "Responsible Official" means one of the following:

a. For a corporation: the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either (i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars), or (ii) the delegation of authority to such representative is approved in advance by the Director;

b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;

c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the Director executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of U.S. EPA); or

d. The designated representative delegated with such authority and approved in advance by the Director.