West Virginia Department of Environmental Protection
Division of Air Quality

Joe Manchin, III
Governor

Randy C. Huffman
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
R30-07900072-2008

John A. Benedict
Director

Issued: October 6, 2008 • Effective: October 20, 2008
Expiration: October 6, 2013 • Renewal Application Due: April 6, 2013

Permit Number: **R30-07900072-2008**
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: U.K.Bachhawat

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	550,000	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	TBD	TBD	262	550,000	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	1996	429	1,100,000	Q.C. & Maintenance	1
						Tool Regrind	1

Notes: TBD = To Be Determined (#) = The number of machines that are proposed for installation. ZZ = 4 cylinder. MZ = 6 cylinder.

(R13-2062 Appendix A – cont.)

Machining, Welding, and Assembly Operations (cont.)

Source Number	Source Description	Building	Year Constructed	Maximum Production		Process Type	#/Unit
				(units/hr)	(units/yr)		
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
						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 # 13~~	~~Passenger Car Axle Machining 2~~	~~TBD~~	~~TBD~~	~~200~~	~~500,000~~	~~Knuckle~~	~~2~~
						~~Hub~~	~~2~~

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

(R13-2062 Appendix A – cont.)

Machining, Welding, and Assembly Operations (cont.)

Source Number	Source Description	Building	Year Constructed	Maximum Production		Process Type	#/Unit
				(units/hr)	(units/yr)		
Project # 18	A/T Machining Operations	200	1999	334	900,000	Transaxle Case	2
						Transaxle Housing	2
						Upper & Lower Valve Body	2
						Forward Clutch Drum	1
						Input Shaft	1
						Forward Clutch Hub	1
						Front Sun Gear Input Shaft	1
						Front Planetary Carrier	1
						Rear Planetary Ring Gear	1
						Front Planetary Pinion	1
						Brake No. 2 Hub	1
						Front Planetary Ring Gear	1
						Direct Clutch Hub	1
						Rear Planetary Sun Gear	1
						Rear Planetary Pinion	1
						Underdrive Clutch Hub	1
						Underdrive Planetary Carrier Cover	1
						Underdrive Planetary Carrier	1
						Underdrive Planetary Pinion	1
						Underdrive Planetary Ring Gear	1
						Underdrive Clutch Drum	1
						Counter Drive Gear	1
						Counter Driven Gear and Sub Assembly	1
						Pinion Differential Drive	1
						Differential Ring Gear	1

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

(R13-2062 Appendix A – cont.)

Machining, Welding, and Assembly Operations (cont.)

Source Number	Source Description	Building	Year Constructed	Maximum Production		Process Type	#/Unit
				(units/hr)	(units/yr)		
Project # 18 (Cont'd)						Input Shaft Sub Assembly	1
						Forward Clutch Hub Sub Assembly	1
						Rear Planetary Carrier Sub Assembly	1
						Underdrive Carrier & Hub Sub Assembly	1
						Underdrive Output Shaft Sub Assembly	1
						Underdrive Clutch Drum Sub Assembly	1
						Planetary 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
						Transaxle Assembly Under Drive Part	2
						Transaxle Main Assembly	2
						Underdrive Assembly	2
						Counter Driven Assembly	2
						Differential Drive Pinion Gear Assembly	2
						Differential Sub Assembly	2
						Valve Body Assembly	2
						Front Oil Pump Assembly	2
						Rear Planetary Gear Assembly	2
						Transaxle Oil Pan Sub Assembly	2
						Forward Clutch Assembly	2
						Front Planetary Gear Assembly	2

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

Table A.4.a: Authorized Storage Tanks

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

Table A.5.a: Authorized Emergency Generators Permitted under R13-2062~~J~~K

Source ID	Source Description	Year Costructed	MDHI (mmBtu/hr)	Building Number	Fuel
DG-5031	Diesel Electric Generator	2005	9.92	100	No. 2 Fuel Oil

Table A.7.a: Authorized Emergency Generators Permitted under G60-B005

Source ID	Model	Year Costructed	Design Brake-Horsepower	Area	Fuel
GEN-11E	Ford LRG-4251 20RZ	2004	41	Emergency Lighting	PNG
GEN-11W	Ford LRG-4251 20RZ	2004	41	Emergency Lighting	PNG
GEN-12	Ford LRG-4251 20RZ	2004	41	Emergency Lighting	PNG
GEB-13	Ford LRG-4251 20RZ	2004	41	Emergency Lighting	PNG
GEN-14	GM-4.3L 45RZG	2006	68	Emergency Lighting	PNG
GEN-15	GM-4.3L 45RZG	2006	68	Emergency Lighting	PNG
GEN-IS	GM-4.3L 45RZG	2006	68	Computer Data Center	PNG
GEN-SBR	GM-5.7L 60RZG	2006	105	Wastewater	PNG

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
~~R13-2062J~~ R13-2062K	~~June 26, 2008~~ October 11, 2011
G60-B005	May 8, 2008

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 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	**NO_x**	Nitrogen Oxides
CBI	Confidential Business Information	**NSPS**	New Source Performance Standards
CEM	Continuous Emission Monitor	**PM**	Particulate Matter
CES	Certified Emission Statement	**PM_{10}**	Particulate Matter less than 10μm in diameter
C.F.R. *or* CFR	Code of Federal Regulations	**pph**	Pounds per Hour
CO	Carbon Monoxide	**ppm**	Parts per Million
C.S.R. *or* CSR	Codes of State Rules	**PSD**	Prevention of Significant Deterioration
DAQ	Division of Air Quality	**psi**	Pounds per Square Inch
DEP	Department of Environmental Protection	**SIC**	Standard Industrial Classification
FOIA	Freedom of Information Act	**SIP**	State Implementation Plan
HAP	Hazardous Air Pollutant	**SO_2**	Sulfur Dioxide
HON	Hazardous Organic NESHAP	**TAP**	Toxic Air Pollutant
HP	Horsepower	**TPY**	Tons per Year
lbs/hr *or* lb/hr	Pounds per Hour	**TRS**	Total Reduced Sulfur
LDAR	Leak Detection and Repair	**TSP**	Total Suspended Particulate
m	Thousand	**USEPA**	United States Environmental Protection Agency
MACT	Maximum Achievable Control Technology	**UTM**	Universal Transverse Mercator
mm	Million	**VEE**	Visual Emissions Evaluation
mmBtu/hr	Million British Thermal Units per Hour	**VOC**	Volatile Organic Compounds
$mmft^3$/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		

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 45CSR15]

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.~~i~~k.]

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]**

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 forms - 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]**

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.

[WV Code § 22-5-4(a)(15) and 45CSR13; 45CSR13, R13-2062, A.6.b]

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:

Table A.6(a): 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.]

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 B.
[45CSR§30-5.1.c.2.B; 45CSR13, R13-2062, A.8.~~j~~m]

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. 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, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ: **If to the US EPA:**

Director WVDEP Division of Air Quality 601 57th Street SE Charleston, WV 25304 Phone: 304/926-0475 FAX: 304/926-0478	Associate Director Office of Enforcement and Permits Review (3AP12) U. S. Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2029

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.
[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.
[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, 5.4.1, 5.4.2 and 5.4.3. Additionally, the permittee shall submit a certification of compliance with all requirements of this permit using the form included with this permit as Appendix B. 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.~~h~~j.]**

3.6. Compliance Plan

3.6.1. N/A

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. N/A

4.0 Source-Specific Requirements: 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 1.0 (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.

Table A.1.b: 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,~~13~~,18, 19	Automatic Transmissions and Support	~~77.59~~ 73.63	~~87.29~~ 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.
[Permit no. R13-2062 – Specific Requirement A.1.c.]

Table A.1.d: 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	Maintenance, QC, tool regrind	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

~~13~~	~~Passenger car axle machining 2~~	~~0.08~~	~~0.35~~	~~0.00~~	~~0.00~~
18	Automatic transmission machining	1.91	8.36	0.01	0.02
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) PM-HAPs that count against emission limits are those compounds listed under Section 112(b) of the CAA.~~
(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.

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 which is greater than twenty (20) percent opacity, except smoke and/or particulate matter emitted from any operation permitted under Section 4.1.1 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.4; 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.~~1~~2. and should be recorded under requirement 4.4.1(a). **[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 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)]**

4.1.8. The permittee shall use dust and mist collectors on the emission sources as specified in Permit Applications R13-2062 through R13-2062J 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.4; 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.4; 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.4; 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.6; 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.6; 45CSR§21-40.3(c)]

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.6; 45CSR§21-40.4(e)]

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.

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

2. 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.6; 45CSR§21-40.6(b)]

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.6; 45CSR§21-40.8(c)]

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

1. 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

2. 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.7; 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, Transaxle Case 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.~~g~~i.]

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

(1) Catalyst life will be limited to that which is recommended by the manufacturer.

(2) 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.]

4.2. 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 manufacture'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.6; 45CSR§21-40.5]**

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.6; 45CSR§21-40.8(a)]**

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.7; 45CSR§21-4.5(a)]

4.3.4. For sulfuric acid mist testing 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, Transaxle Case 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 an project activity grouping (as listed under Table 1.b) 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, Table 1.b. 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:

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

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:

$Emission\ rate_{(pounds\ of\ VOCs,\ HAPs/Month)} = Mass_{(pounds\ of\ VOCs,\ HAPs/Month)}$

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

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

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.6; 45CSR§21-40.8(b)]**

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.6; 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.

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

2. 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.7; 45CSR§21-4.3(b)]

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:

1. The name and location of the facility;

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

3. Identification of subject sources;

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

5. 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;

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

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

8. 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

9. 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.7; 45CSR§21-4.4(a)]**

4.6. Compliance Plan

4.6.1. N/A

5.0. Source-Specific Requirements [Combustion Operations, Testing and Heat Treatment]

5.1. Limitations and Standards

5.1.1. The facility-wide maximum design heat input of all natural gas combustion units 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. 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 RV Gas Generators. **[Permit no. R13-2062 – Specific Requirement A.2.a.]**

5.1.2. ~~The use of propane in the heat treatment process shall not exceed, on a twelve (12) month rolling total basis, 127,546 gallons.~~ 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.~~d~~h, B.2]

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

(1) The test cells/firing benches authorized at the facility are given in the following 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.

Table A.2(d)(1): Authorized Test/Firing Benches

Source	Emission Point	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)
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

(2) The nine (9) test cells identified under Condition 5.1.5.1 shall not operate, in the aggregate, more than 22,500 hours on a 12-month rolling yearly total basis.

(3) The two (2) firing benches identified under Condition 5.1.5.1 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:

Table A.2(f): Aggregate Combustion Sources Emission Limits

Source	CO		NOx		$PM_{(1)}$		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 on-site.

[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:

Table A.2(g): Individual Combustion Source Emission Limits

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. N/A

5.3. Testing Requirements

5.3.1. N/A

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.(2), 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.(3), 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.8.1.]**

5.5. Reporting Requirements

5.5.1. N/A

5.6. Compliance Plan

5.6.1. N/A

6.0. Source-Specific Requirements [Storage tanks]

6.1. Limitations and Standards

6.1.1. 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

N/A

6.3. Testing Requirements

N/A

6.4. Recordkeeping Requirements

N/A

6.5. Reporting Requirements

N/A

6.6. Compliance Plan

N/A

7.0. Source-Specific Requirements [Emergency Generators]

7.1. Limitations and Standards

7.1.1. The permittee is authorized to operate the emission units in Table 7.a (Section 1.0) with following emission limits in accordance with all terms and conditions of the 45CSR13 G60-B Class II General Permit (Appendix C).

Emission Limitations(1)

Source	CO		NO_x		PM(2)		SO_2		VOC_s	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
GEN-11E	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-11W	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-12	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEB-13	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-14	0.06	0.02	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-15	0.06	0.02	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-IS	0.06	0.02	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-SBR	0.09	0.02	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01

(1) Most emissions are calculated at rates below 0.01 lb/hr or TPY, but 0.01 is used a reasonably detectable level.
(2) All Particulate Matter is assumed to be less than 2.5 microns.

[45CSR13, G60-B005 – Specific Requirement]

Note: These generators are not subject to 40CFR60 Subpart IIII or JJJJ.

7.2. Monitoring Requirements

N/A

7.3. Testing Requirements

N/A

7.4. Recordkeeping Requirements

N/A

7.5. Reporting Requirements

N/A

7.6. Compliance Plan

N/A

Appendix B

Toyota Motor Manufacturing West Virginia: Buffalo Plant

R13-2062~~J~~K: 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.

Appendix C
Toyota Motor Manufacturing West Virginia: Buffalo Plant
Identification Number 07900072

45CSR13 G60-B Class II General Permit

West Virginia Department of Environmental Protection
Division of Air Quality

Joe Manchin, III
Governor

Randy C. Huffman
Cabinet Secretary

Class II
General Permit G60-B
Registration
to Construct

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

G60-B005

Issued to:
Toyota Motor Manufacturing West Virginia
Buffalo
079-00072

John A. Benedict
Director

Issued: ***May 8, 2008*** • *Effective:* ***May 8, 2008***

This Class II General Permit Registration does not affect any other 45CSR13 permits.

Facility Location:
Buffalo, Putnam County, West Virginia

Class II General Permit: G60-B
Emergency Generators

Mailing Address:	1 Sugar Maple Lane, Post Office Box 600, Buffalo, WV 25033
Facility Description:	Emergency Generators
SIC Codes:	1311
UTM Coordinates:	Easting: 413.518 km Northing: 4,272.153 km Zone: 17
Registration Type:	Construction
Description of Change:	Installation and operation of eight emergency generators.

Subject to 40CFR60 Subpart IIII? Yes

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.

This permit does not affect 45CSR30 applicability, the source is a major source subject to 45CSR30.

General Permit Registration Number: G60-B005
Registrant: Toyota Motor Manufacturing West Virginia

West Virginia Department of Environmental Protection • Division of Air Quality

Class II General Permit: G60-B
Emergency Generators

Facility Name: Buffalo
Mailing Address: 1 Sugar Maple Lane, Post Office Box 600, Buffalo, WV 25033

This Class II General Permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §22-5-1 et seq.) and 45CSR13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The registrant 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 the G60-B Class II General Permit.

Emission Units

Source ID	Model	Design Brake-Horsepower	Area	Fuel
GEN-11E	Ford LRG-4251 20RZ	41	Emergency Lighting	PNG
GEN-11W	Ford LRG-4251 20RZ	41	Emergency Lighting	PNG
GEN-12	Ford LRG-4251 20RZ	41	Emergency Lighting	PNG
GEB-13	Ford LRG-4251 20RZ	41	Emergency Lighting	PNG
GEN-14	GM-4.3L 45RZG	68	Emergency Lighting	PNG
GEN-15	GM-4.3L 45RZG	68	Emergency Lighting	PNG
GEN-IS	GM-4.3L 45RZG	68	Computer Data Center	PNG
GEN-SBR	GM-5.7L 60RZG	105	Wastewater	PNG

Emission Limitations(1)

Source	CO		NO_x		PM(2)		SO_2		VOCs	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
GEN-11E	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-11W	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-12	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEB-13	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-14	0.06	0.02	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-15	0.06	0.02	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-IS	0.06	0.02	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
GEN-SBR	0.09	0.02	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01

(1) Most emissions are calculated at rates below 0.01 lb/hr or TPY, but 0.01 is used a reasonably detectable level.
(2) All Particulate Matter is assumed to be less than 2.5 microns.

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 General 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.