west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475 • FAX: (304) 926-0479

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

January 25, 2016

CERTIFIED MAIL
91 7199 9991 7034 1380 3267

Mr. Tim Hollander, General Manager, Administration
Toyota Motor Manufacturing West Virginia
PO Box 600, 1 Sugar Maple Lane
Buffalo, WV 25033

RE: **Permit Issuance**
Toyota Motor Manufacturing WV
Buffalo
Permit Application: R13-2062L
Plant ID No.: 079-00072

Dear Mr. Hollander:

Your application for a Class II Administrative Update as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit R13-2062L is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

Please note, the source is subject to 45CSR30. The permittee has the duty to update the facility's Title V (45CSR30) permit to reflect the changes permitted herein.

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.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1219.

Sincerely,

Joe Kessler, PE
Engineer

Enclosures

west virginia department of environmental protection

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PERMIT FOR A CLASS II ADMINISTRATIVE UPDATE TO AN AUTOMOBILE PARTS MANUFACTURING FACILITY

IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL LAW (W. Va. Code §§22-5-1 et seq.), AND REGULATIONS PROMULGATED THEREUNDER, THE FOLLOWING PERMITTEE IS AUTHORIZED TO CONSTRUCT, SUBJECT TO THE TERMS AND CONDITIONS OF THIS PERMIT, THE SOURCE DESCRIBED BELOW.

This permit supersedes and replaces permit number R13-2062K issued on October 12, 2011.

Name of Permittee:	Toyota Motor Manufacturing West Virginia
Name of Facility:	Buffalo Plant
Permit No.:	R13-2062L
Plant ID No.:	07900072
Effective Date of Permit:	January 25, 2016
Permit Writer:	Joe Kessler
Facility Mailing Address:	1 Sugar Maple Lane P.O. Box 600 Buffalo, WV 25033
County:	Putnam
Nearest City or Town:	Buffalo
UTM Coordinates:	Easting: 413.518 km Northing: 4,272.153 km Zone: 17
Directions to Exact Location:	The facility lies directly east of WV State Route 62 approximately one (1.0) mile south of Buffalo, WV.
Type of Facility or Modification:	Class II Administrative Update to increase production levels in Appendix A and the addition of a new engine firing bench.

The source is subject to 45CSR30. The permittee has the duty to update the facility's Title V (45CSR30) permit to reflect the changes permitted herein.

Promoting a Healthy Environment

IN ACCORDANCE WITH THE PERMIT APPLICATION AND ITS AMENDMENTS, THIS PERMIT IS LIMITED AS FOLLOWS:

A. SPECIFIC REQUIREMENTS

1. Machining, Welding, and Assembly Operations

a. The machining, welding, and assembly operations authorized to take place by this permit at the subject facility are listed in Appendix A. The operations shall be within the listed production limits.

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

(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.

c. 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.

Table A.1(c): Project Activity/Exhaust Fans PM/PM-HAP Emission Limits(1)

Project Activity Number	Project Description	PM Emission Limits(2)		PM-HAP Emission Limits(3)	
		lb/hr	ton/year	lb/hr	ton/year
1	4 cyl engine machining	1.18	5.17	0.02	0.02
2	4 cyl engine assembly	0.04	0.18	0.00	0.00

3	4 cyl engine welding	1.28	5.61	0.00	0.00
4	Support	0.40	1.75	0.00	0.00
5	6 cyl & 8 cyl engine assembly	0.11	0.65	0.00	0.00
6	4 cyl B engine assembly	0.07	0.31	0.00	0.00
10	Passenger car axle machining 1	0.20	0.89	0.00	0.00
11	6 cyl engine machining	0.79	3.47	0.01	0.01
12	6 cyl engine welding	0.64	2.81	0.36	0.41
18	Automatic transmission machining	1.91	8.36	0.01	0.02
19	Automatic transmission assembly	0.12	0.53	0.00	0.00
-	Exhaust Fans	8.02	35.13	0.00	0.00

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

e. 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 **A.1(a)** which is greater than twenty (20) percent opacity, except smoke and/or particulate matter emitted from any operation permitted under **A.1(a)** 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.

2. Combustion Operations

a. 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 Rx Gas Generators.

b. 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.

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

(1) The maximum design heat input shall not exceed 9.92 mmBtu/hr.

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

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

d. 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
E3S	FB-3	4 cyl Firing Bench	8,760 Hours	None

(2) The nine (9) test cells identified under **A.2(d)(1)** shall not operate, in the aggregate, more than 22,500 hours on a 12-month rolling yearly total basis.

(3) The three (3) firing benches identified under **A.2(d)(1)** shall not combust, in the aggregate, more than 3,750 gallons of gasoline on a 12-month rolling yearly total basis.

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

(1) All particulate matter emissions are assumed to be $PM_{2.5}$ or less and includes condensable particulate matter.
(2) Only one diesel generator is authorized under R13-2062L. The remaining generators are permitted under G60-C005B.

g. 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.

h. 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 **A.2(g)** 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.

3. Surface Coating Operations

a. No surface coating shall be applied that has a 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.

b. For the purposes of this permit, emissions from surface coating operations are counted against the limits permitted under **A.1(b)** and should be recorded under requirement **A.8(a)**.

4. Storage Tanks

a. The following table contains a list of storage tanks authorized to operate at the subject facility by this permit:

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

b. 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.

5. Control Devices

a. 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 **A.5** through the submission and approval of an "alternative emissions reduction plan."

b. The permittee shall use dust and mist collectors on the emission sources as specified in Permit Applications R13-2062 through R13-2062L 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.

c. The permittee shall use catalytic converters on each test cell as required under **Table A.2(d)(1)** 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 **A.7(a)**. Upon such notification, the operator will immediately initiate shut-down activity of the associated testing operation.

6. Testing Requirements

a. 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 **A.6(b)**. 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.

b. 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:

(1) 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 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.

(2) 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. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.

(3) 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.

7. Monitoring

a. 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:

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

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

(3) Validation of the ranges identified under (2) 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.

b. 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.

c. 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.

8. Reporting, and Record-Keeping Requirements

a. For the purposes of determining on-going compliance with the limits set forth in **A.1(b)**, the permittee shall maintain records of the following on an project activity-grouping (as listed under **Table A.1(b)**) basis:

(1) The hours of operation of each project activity grouping; and

(2) 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 **A.8(a)(5)**; and

(3) The mass of VOC and speciated HAPs of each material and the volume of each material used each month.

(4) 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 **Table A.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 **A.8(a)(4)(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

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

b. For the purposes of determining compliance with the VOC emissions reduction requirement set forth in **A.5(a)**, 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.

c. For the purposes of determining compliance with maximum production throughput limits set forth in **A.1(a)**, the applicant shall maintain monthly and annual records of the production levels for each Project Activity permitted therein.

d. For the purposes of determining compliance with maximum natural gas combustion throughput and propane usage limits set forth in **A.2(a)** and **A.2(b)**, 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.

e. For the purposes of determining compliance with maximum Number 2 Fuel Oil combustion throughput limits set forth in **A.2(c)(2)**, the applicant shall maintain

monthly and annual records of the amount of Number 2 Fuel Oil that is combusted at the facility.

f. For the purposes of determining compliance with the percent sulfur requirement under **A.2(c)(3)**, 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.

g. For the purposes of determining compliance with maximum hours of operation limit set forth in **A.2(d)(2)**, the applicant shall maintain monthly and annual records of the aggregate hours of operation of all the engine test cells.

h. For the purposes of determining compliance with maximum gasoline combustion limit set forth in **A.2(d)(3)**, the applicant shall maintain monthly and annual records of the aggregate gasoline combusted in firing benches.

i. 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:

   (1) The permittee shall maintain records of all specific HAP compounds used at the facility as required under A.8; and

   (2) 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.

j. The permittee shall submit to the Director, postmarked by March 15 of each year, a report containing the records as required under **A.8**. Additionally, the permittee shall submit a certification of compliance with all requirements of this permit using the form included with this permit as Appendix F. 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.

k. 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.

l. 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.

m. All records required in this permit shall be maintained on-site for a period of at least five (5) years, 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 F.

n. All notifications and reports required pursuant to 40 CSR 21 and any requirement under Section (A) of this permit shall be forwarded to:

Director
WVDEP
Division of Air Quality
601-57th MacCorkle Ave., S.E.
Charleston, WV 25304

B. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable provisions of 45CSR2, 45CSR4, 45CSR10, 45CSR21, and 45CSR30 provided that the permittee shall comply with any more stringent requirements as may be set forth under **SPECIFIC REQUIREMENTS**, Section (A) of this permit.

2. The pertinent sections of 45CSR2 applicable to this facility include, but are not limited to, the following:

   §45-2-3.1
   No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

3. The pertinent sections of 45CSR4 applicable to this facility include, but are not limited to, the following:

   § 45-4-3.1.
   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.

4. The pertinent sections of 45CSR7 applicable to this facility include, but are not limited to, the following:

§45-7-3.1.
No person shall cause, suffer, allow, or permit emissions of smoke and/or particulate matter into the open air form any process source operation greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.

§45-7-4.1.
No person shall cause, suffer, allow, or permit particulate matter to be vented into the open air 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 specified under the appropriate source operation type in Table 45-7A found at the end of this rule.

§45-7-5.1.
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.

§45-7-5.2.
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.

§45-7-9.1.
Due to unavoidable malfunction of equipment, emissions exceeding those set forth in this rule 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.

5. The pertinent sections of 45CSR13 applicable to this facility include, but are not limited to, the following:

§45-13-6.1
At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Director thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such other tests the Director may specify shall be conducted to determine compliance.

§45-13-10.2
The Secretary may suspend or revoke a permit or general permit registration if, after (6) months from the date of issuance, the holder of the permit cannot provide the Secretary, at the Secretary's request, with written proof of a good faith effort that construction, modification, or relocation, if applicable, has commenced. Such proof shall be provided not later than thirty (30) days after the Secretary's request. If construction or modification of a stationary source is discontinued for a period of eighteen (18) months or longer, the Secretary may suspend or revoke the permit or general permit registration.

§45-13-10.3
The Secretary may suspend or revoke a permit or general permit registration if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to. Upon notice of the Secretary's intent to suspend, modify or revoke a permit, the permit holder may request a conference with the Secretary in accordance with the provisions of W. Va. Code § 22-5-5 to show cause why the permit or general permit registration should not be suspended, modified or revoked.

6. The facility is subject to and shall meet the provisions of 45CSR21, Section 40 "Other facilities that Emit Volatile Organic Compounds (VOC)" provided that compliance with any more stringent limitation set forth under Section (A) of this permit shall also be demonstrated. The pertinent sections of 45CSR21 applicable to this facility include, but are not limited to, the following:

§45-21-9.3
Variance. -- If the provisions of this regulation 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.

§45-21-40.3(c)
With respect to any source at a facility subject to this section 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 this rule, 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 section 2.60. for both fugitive and non-fugitive emission sources.

§45-21-40.4(e)
All RACM control plans, RACT control plans, and alternative emissions reduction plans approved by the Director pursuant to this section 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.

§45-21-40.5
The owner or operator of any source subject to this section 40. shall demonstrate compliance with section 40.3 by using the applicable test methods specified in section 41. through 46 or by other means approved by the Director. Notwithstanding the requirements of section 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 section 40.3.

§45-21-40.6(b)
An owner or operator of a non-coating source that is exempt from the emission limitations in section 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 section 40.3.

§45-21-40.8(a)
The owner or operator of the subject VOC sources shall perform all testing and maintain the results of all tests and calculations required under sections 40.3 and 40.5 to demonstrate that the subject source is in compliance.

§45-21-40.8(b)
The owner or operator of the subject VOC source shall maintain these records in a readily accessible location for a minimum of 3 years, and shall make these records available to the Director upon verbal or written request.

§45-21-40.8(c)
The owner or operator of any facility containing sources subject to this section 40, shall comply with the requirements in section 5. except that such requirements, as they apply to sources solely subject to this section 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.

§45-21-5.3(b) Recordkeeping

1. Each owner or operator of a source subject to this section 5. shall maintain up-to-date, readily accessible records of any equipment operating parameters specified to be monitored in the applicable section of this regulation 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.

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

3. 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.

7. The permitted miscellaneous metal parts and products coating line facility complying with 45CSR21, Section 19 by the use of complying coatings shall comply with all applicable provisions of 45CSR21, Section 19 and 45CSR21, Section 4 provided that compliance with any more stringent limitation set forth under paragraph A of this permit shall also be demonstrated. The principle provisions of 45CSR21 applicable to the permitted facility are the following:

§45-21-4.3(b)
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.

§45-21-4.3(c)
The owner or operator of a subject coating line or operation shall notify the Chief 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 Chief 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.

§45-21-4.4(a)
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 Chief that the coating line or operation is or will be in compliance with section 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 4.4.b.;

7. An example of the format in which the records required in section 4.4.b. will be kept;

8. Calculation of the daily-weighted average, using the procedure in section 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".

§45-21-4.5(a)
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 sections 41 through 44. The owner of operator of the subject coating line or operation shall submit to the Chief 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.

C. GENERAL REQUIREMENTS

1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

2. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

3. The permitted facility shall be constructed and operated in accordance with information filed in Permit Applications R13-2062 through R13-2062L and R13-2273. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.

4. In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

5. The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

6. This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13.

7. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7.

8. At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

ISSUED BY: _____

WILLIAM F. DURHAM, DIRECTOR
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

DATE SIGNED: January 25, 2016

Appendix A: Maximum Throughputs of Permitted Processes

Toyota Motor Manufacturing Plant - Permit Number R13-2062L
Buffalo Plant - Identification Number 07900072

Project Number	Project Description	Maximum Production (units/hr)	(units/yr)	Process Type	#/Unit
1	4 Cylinder Machining & Shipping	262	900,000	Cylinder Block/Shipping	1
				Block Lower Case/Shipping	1
				Cylinder Head/Shipping	1
				Crankshaft/Shipping	1
				Camshaft/Shipping	2
				Con Rod/Shipping	4
				Piston Pin/Shipping	4
2	4 Cylinder Assembly	262	900,000	Inner Assembly	1
				Piston Sub Assembly	4
				Head Sub Assembly	1
				Main Assembly	1
3	4 Cylinder Engine Welding	200	450,000	Intake Manifold	1
				Exhaust Manifold	1
4	Support	429	1,100,000	Q.C. & Maintenance	1
				Tool Regrind	1
5	6 & 8 -Cylinder Engine Assembly	262	550,000	Inner Assembly	1
				Upper Assembly	1
				Piston Sub Assembly	6 - 8
				Head Sub Assembly	2
				Final Assembly	1
6	4 Cylinder Engine Assembly	200	150,000	Inner Assembly	1
				Piston Sub Assembly	4
				Head Sub Assembly	2
				Main Assembly	1
10	Passenger Car Axle Machining 1	200	591,298	Knuckle	2
				Hub	2
				Rr. Axle Shaft	2
				Carrier Machining	2
				Lower Arm	2
11	6 cyl engine Machining	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
12	6 cyl engine welding	200	100,000	Exhaust Manifold	1

Appendix A: Maximum Throughputs of Permitted Processes

Toyota Motor Manufacturing Plant - Permit Number R13-2062L
Buffalo Plant - Identification Number 07900072

Project Number	Project Description	Maximum Production (units/hr)	(units/yr)	Process Type	#/Unit
18	A/T Machining Operations	334	900,000	Case	1
				Housing	1
				Upper & Lower Valve Body	1
				Clutch Drum	1
				Block Lower Case/Shipping	1
				Clutch Hub	1
				Sun Gear Input Shaft	1
				Planetary Carrier	1
				Planetary Ring Gear	1
				Planetary Pinion	1
				Direct Clutch Hub	1
				Planetary Sun Gear	1
				Underdrive Clutch Hub	1
				Rear Planetary Sun Gear	1
				Rear Planetary Pinion	1
				Underdrive Clutch Hub	1
				Carrier Cover	1
				Carrier	1
				Pinion	1
				Ring Gear	1
				Clutch Drum	1
				Counter Drive Gear	1
				Counter Driven Gear and S/A	1
				Pinion Differential Drive	1
				Differential Ring Gear	1
				Input Shaft Sub Assembly	1
				Clutch Hub Sub Assembly	1
				Carrier Sub Assembly	1
				Carrier & Hub Sub Assembly	1
				Output Shaft Sub Assembly	1
				Clutch Drum Sub Assembly	1
				Carrier & Rear Ring Sub Assembly	1
				A/T Component Heat Treatment	1
19	A/T Assembly Operations	334	900,000	Transaxle Assembly Main Axis	2
				Assembly Under Drive Part	2
				Main Assembly	2
				Underdrive Assembly	2
				Counter Driven Assembly	2
				Differential Drive Pinion Gear Assembly	2
				Differential Sub Assembly	2
				Valve Body Assembly	2
				Oil Pump Assembly	2
				Gear Assembly	2
				Transaxle Oil Pan Sub Assembly	2
				Clutch Assembly	2
				Carrier Gear Assembly	2

* Project Activities 7, 8, 9, 13, 14, 15, 16, and 17, have been removed from the permit.

Appendix B
Toyota Motor Manufacturing West Virginia: Buffalo Plant
R13-2062K: 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.