



Toyota Motor Mfg
Buffalo
079-00072
660-C005C
Lee Martin

General Permit G60-C

Application for a Class II General Permit administrative update
for Emergency Generators.
Toyota Motor manufacturing, West Virginia, Inc.

June, 2015

TOYOTA

TOYOTA MOTOR MANUFACTURING, WEST VIRGINIA, INC.

June 4, 2015

Director John A. Benedict
WV DEP Division of Air Quality
601 57th Street, SE
Charleston, West Virginia 25304

Certified Mail Return Receipt – 7011 1150 0000 4322 8245

Re: Toyota Motor Manufacturing, West Virginia, Inc.
Modification for General Permit G60-C
Buffalo, West Virginia

Dear Mr. Benedict:

Enclosed are the original and two copies of an application for modification to add an emergency generator under General Permit G60-C. The new generator will replace "GEN-IS" which will be moved to a new location (same site) and it's source label will be changed to "GEN-SEC". The new generator is planned for installation in July 2015. Also enclosed is a check for \$500.00 for the application fee. The affidavit of publication for the legal advertisement will be provided as soon as received.

Thank you for your assistance in this matter. Should you have any questions, please do not hesitate to contact Marc Crouse at (304) 937-7528 or George Vickers (304) 937-7684.

Sincerely,



Marc Crouse
Environmental Engineer
TMMWV

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WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF AIR QUALITY
 601 57th Street, SE
 Charleston, WV 25304
 Phone: (304) 926-0475 • www.dep.wv.gov/daq

APPLICATION FOR GENERAL PERMIT REGISTRATION
 CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE
 A STATIONARY SOURCE OF AIR POLLUTANTS

9 CONSTRUCTION 9 MODIFICATION 9 RELOCATION 9 CLASS I ADMINISTRATIVE UPDATE
 9 CLASS II ADMINISTRATIVE UPDATE

CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:

- | | |
|--|---|
| <input type="checkbox"/> G10-D – Coal Preparation and Handling | <input type="checkbox"/> G40-C – Nonmetallic Minerals Processing |
| <input type="checkbox"/> G20-B – Hot Mix Asphalt | <input type="checkbox"/> G50-B – Concrete Batch |
| <input type="checkbox"/> G30-D – Natural Gas Compressor Stations | <input checked="" type="checkbox"/> G60-C – Class II Emergency Generator |
| <input type="checkbox"/> G33-A – Spark Ignition Internal Combustion Engines | <input type="checkbox"/> G65-C – Class I Emergency Generator |
| <input type="checkbox"/> G35-A – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit) | <input type="checkbox"/> G70-A – Class II Oil and Natural Gas Production Facility |

SECTION I. GENERAL INFORMATION

1. Name of applicant (as registered with the WV Secretary of State's Office): Toyota Motor Manufacturing, West Virginia, Inc.		2. Federal Employer ID No. (FEIN): 94-2-001250	
3. Applicant's mailing address: 1 Sugar Maple Lane Post Office Box 600 Buffalo, West Virginia 25033		4. Applicant's physical address: 1 Sugar Maple Lane Buffalo, West Virginia 25033	
5. If applicant is a subsidiary corporation, please provide the name of parent corporation:			
6. WV BUSINESS REGISTRATION. Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, provide a copy of the Certificate of Incorporation/ Organization / Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A. IF NO, provide a copy of the Certificate of Authority / Authority of LLC / Registration (one page) including any name change amendments or other Business Certificate as Attachment A.			

SECTION II. FACILITY INFORMATION

7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.): Emergency Generator		8a. Standard Industrial Classification Classification (SIC) code: 3714	AND	8b. North American Industry System (NAICS) code: 33635
9. DAQ Plant ID No. (for existing facilities only): 079-00072		10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only): R30-07900072-2013 R13-2062K		

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site: Buffalo Plant	12A. Address of primary operating site: Same as above	
13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, please explain: Applicant owns site IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.		
14A. For Modifications or Administrative Updates at an existing facility, please provide directions to the present location of the facility from the nearest state road; For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a MAP as Attachment F. Take Exit 39 from I-64 West toward Teays Valley/Winfield. Turn right onto WV Route 34S for 5.1 miles. Turn left onto US Route 35 for 6.8 miles. Turn left at Lower Buffalo Bridge and travel across Kanawha River. Turn left on WV Route 62 for 1.0 miles. Turn right on Sugar Maple Lane.		
15A. Nearest city or town: Buffalo	16A. County: Putnam	17A. UTM Coordinates: Northing (KM): 4272.589 Easting (KM): 413.462 Zone: 17
18A. Briefly describe the proposed new operation or change (s) to the facility: A new emergency generator will be installed to provide emergency power to a building used to house medical services.		19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: 38.59760 deg Longitude: 81.99382 deg

B: 1ST ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

11B. Name of 1 st alternate operating site: N/A	12B. Address of 1 st alternate operating site: N/A	
13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, please explain: _____ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.		

<p>14B. -- For Modifications or Administrative Updates at an existing facility, please provide directions to the present location of the facility from the nearest state road;</p> <p>-- For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a MAP as Attachment F.</p> <p>_____</p> <p>_____</p>		
15B. Nearest city or town:	16B. County:	17B. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
18B. Briefly describe the proposed new operation or change (s) to the facility:		19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

C: 2ND ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits):

11C. Name of 2 nd alternate operating site: N/A	12C. Address of 2 nd alternate operating site: N/A	
<p>13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>-- IF YES, please explain: _____</p> <p>_____</p> <p>-- IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.</p>		
<p>14C. -- For Modifications or Administrative Updates at an existing facility, please provide directions to the present location of the facility from the nearest state road;</p> <p>-- For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a MAP as Attachment F.</p> <p>_____</p> <p>_____</p>		
15C. Nearest city or town:	16C. County:	17C. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
18C. Briefly describe the proposed new operation or change (s) to the facility:		19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

<p>20. Provide the date of anticipated installation or change:</p> <p>____/____/____</p> <p><input type="checkbox"/> If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: :</p> <p>____/____/____</p>	<p>21. Date of anticipated Start-up if registration is granted:</p> <p>____/____/____</p>
<p>22. Provide maximum projected Operating Schedule of activity/activities outlined in this application if other than 8760 hours/year. (Note: anything other than 24/7/52 may result in a restriction to the facility's operation).</p> <p>Hours per day _____ Days per week _____ Weeks per year _____ Percentage of operation _____</p>	

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

<p>23. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).</p>
<p>24. Include a Table of Contents as the first page of your application package.</p>
<p>All of the required forms and additional information can be found under the Permitting Section (General Permits) of DAQ's website, or requested by phone.</p>
<p>25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> ATTACHMENT A : CURRENT BUSINESS CERTIFICATE <input checked="" type="checkbox"/> ATTACHMENT B: PROCESS DESCRIPTION <input type="checkbox"/> ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS <input checked="" type="checkbox"/> ATTACHMENT D: PROCESS FLOW DIAGRAM <input checked="" type="checkbox"/> ATTACHMENT E: PLOT PLAN <input checked="" type="checkbox"/> ATTACHMENT F: AREA MAP <input checked="" type="checkbox"/> ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM <input type="checkbox"/> ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS <input checked="" type="checkbox"/> ATTACHMENT I: EMISSIONS CALCULATIONS <input checked="" type="checkbox"/> ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT <input checked="" type="checkbox"/> ATTACHMENT K: ELECTRONIC SUBMITTAL <input checked="" type="checkbox"/> ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE <input type="checkbox"/> ATTACHMENT M: SITING CRITERIA WAIVER <input type="checkbox"/> ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS) <input type="checkbox"/> ATTACHMENT O: EMISSIONS SUMMARY SHEETS <input type="checkbox"/> OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.) <p>Please mail an original and two copies of the complete General Permit Registration Application with the signature(s) to the DAQ Permitting Section, at the address shown on the front page of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.</p>

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

FOR A CORPORATION (domestic or foreign)

I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

I certify that I am the Owner and Proprietor

I hereby certify that (please print or type) _____ is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Director of the Office of Air Quality immediately, and/or,

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature  6/18/15
(please use blue ink) Responsible Official Date

Name & Title Don Stewart, General Manager, Support
(please print or type)

Signature _____ Date _____
(please use blue ink) Authorized Representative (if applicable)

Applicant's Name Toyota Motor Manufacturing, West Virginia, Inc. c/o Marc Crouse, Specialist, Env. Eng.

Phone & Fax (304) 937-7000 (304) 937-7399
Phone Fax

Email marc.crouse@tema.toyota.com

Attachment A

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**TOYOTA MOTOR MANUFACTURING WEST VIRGINIA INC
1 SUGAR MAPLE LN
BUFFALO, WV 25033-9430**

BUSINESS REGISTRATION ACCOUNT NUMBER: **1044-3969**

This certificate is issued on: **06/15/2011**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

Attachment B

Attachment B

Process Description

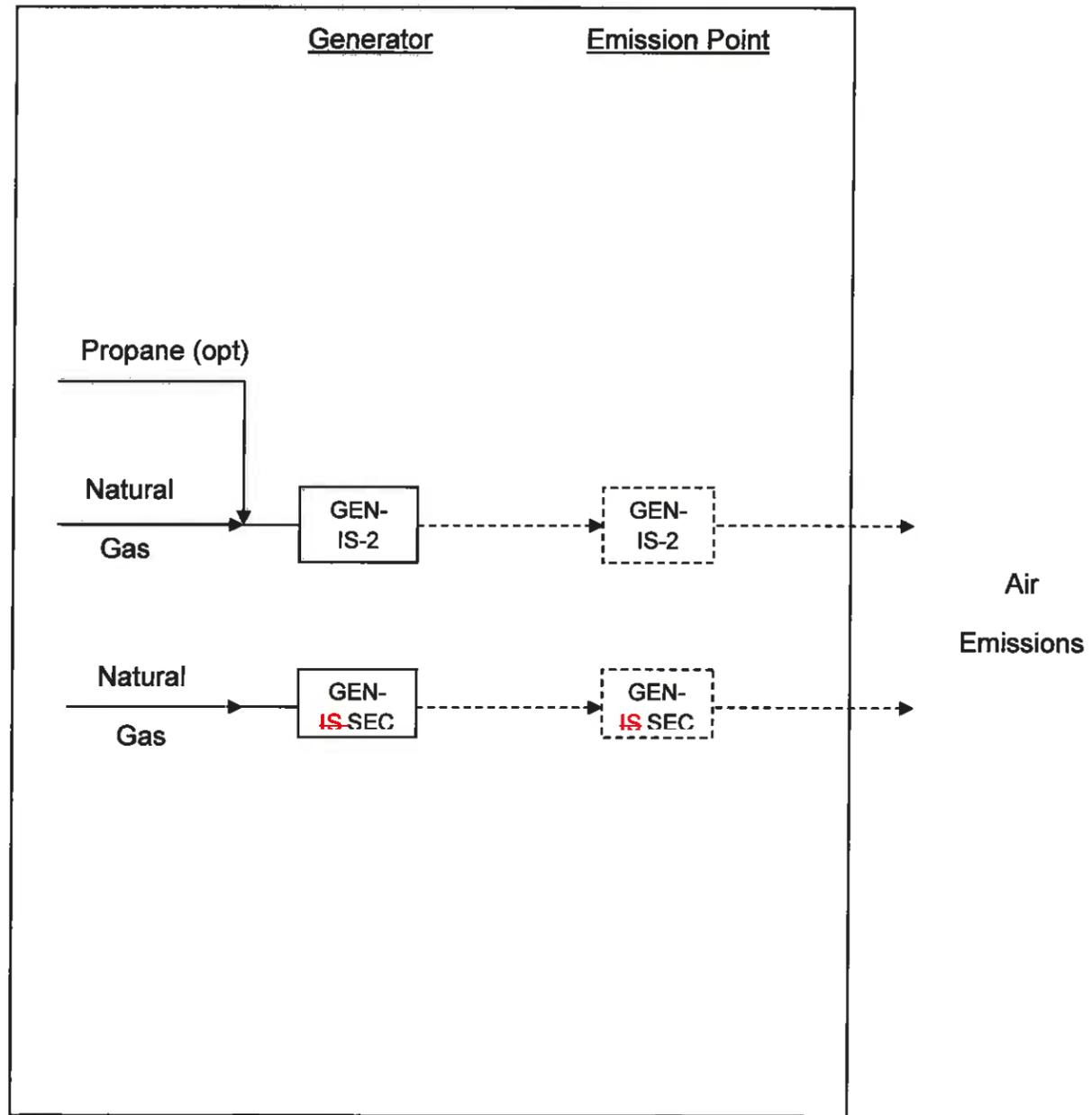
Emergency Generators

Toyota Motor Manufacturing, West Virginia, Inc., (Toyota) will utilize a total of eleven generators for emergency electricity if a power outage occurs. Ten generators are already permitted pursuant to Toyota's Existing G60 and Title V operating permits. In addition, the natural gas usage for all emergency generators currently is reported in Toyota's annual emissions inventory. However, Toyota now seeks to register another generator (not installed) which previously has not been permitted pursuant to G60-C, the Class II Emergency Generator General Permit. The make and model of the generator is set forth in Attachment I. The emission factors for this engine were applied based on peak emission rates and the maximum power rating. As with any internal combustion engine, pollutants are generally emitted through the exhaust, with some total organic compounds escaping from the crankcase as a result of blowby as well as evaporative losses from the carburetor. The exhaust exits the generator a local emission point with the same identification number as each emergency generator.

This permit modification is specific to the new emergency generator and the move (on the same site) and relabeling of an existing generator. Accordingly, the process description, process flow diagram, and plot plan refers only to these sources which are addressed in this permit modification. Toyota's other existing operations are addressed in detail in Permit R30-079000072-2013.

Attachment C
Not Applicable

Attachment D

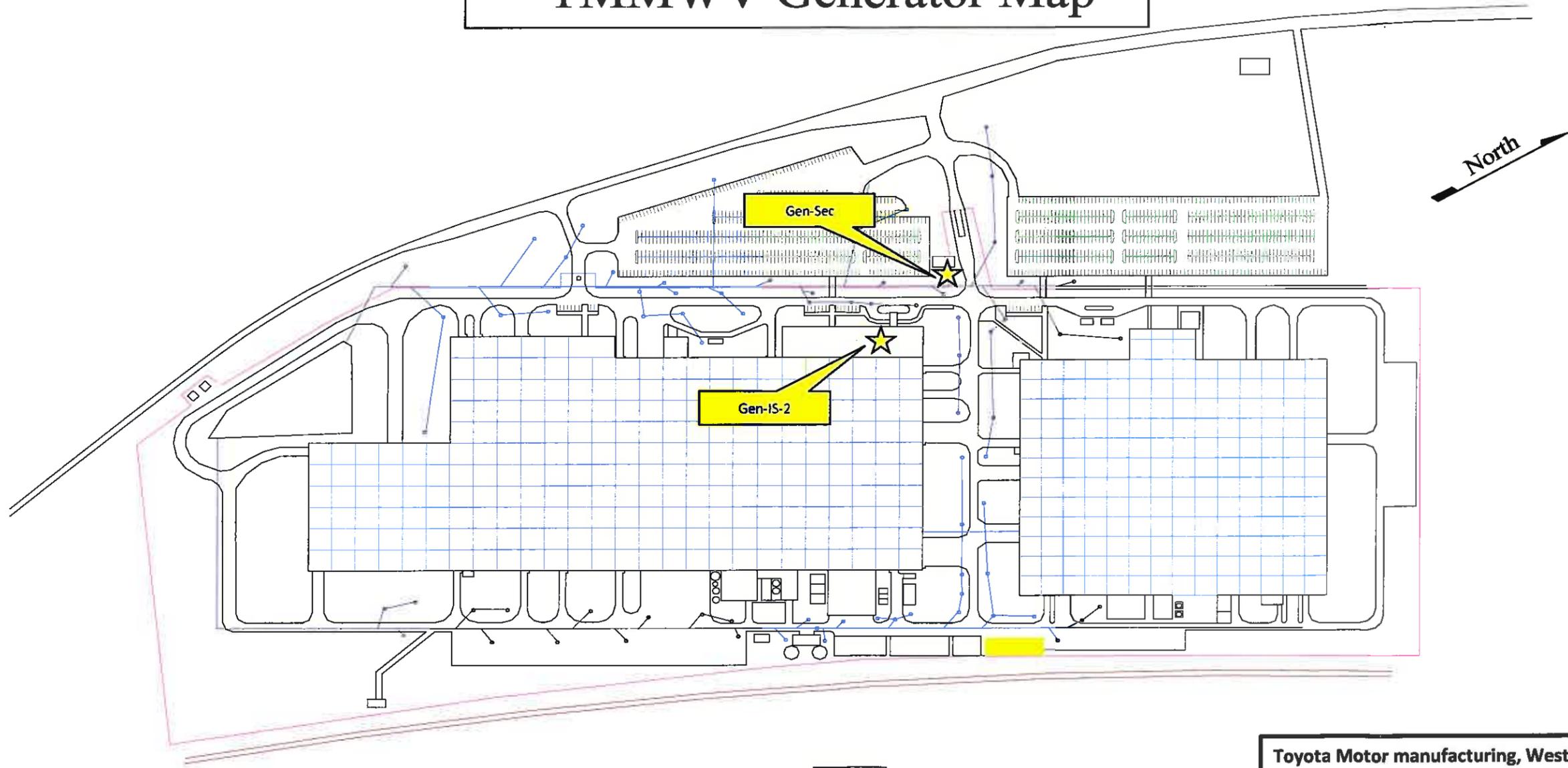


Site

Attachment D
 Toyota Motor Manufacturing, West Virginia, Inc.
 Process Flow Diagram
 Emergency Generator

Attachment E

TMMWV Generator Map

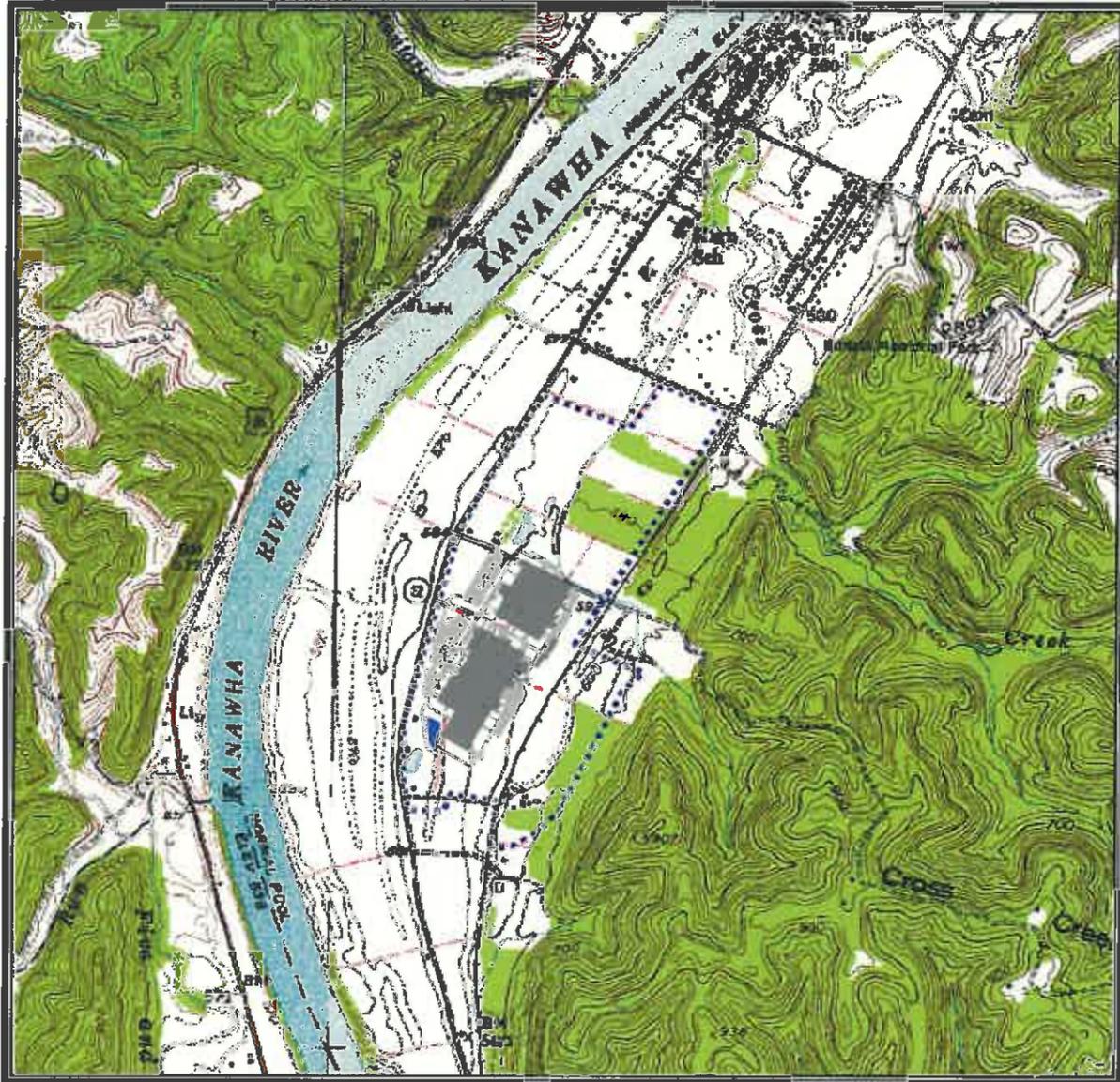


0 100' 200'
Scale

Toyota Motor manufacturing, West Virginia Inc.
Plant ID No. 079-00072
Revised June 2, 2015
Base elevation 590'

Attachment F

Toyota Motor Manufacturing, WV Inc.



SCALE: 1:24 000



ATTACHEMENT F - AREA MAP
USGS 7.5 minute Series
Topographic Map
Winfield and Mt. Olive, WV Quadrangles

Attachment G

KOHLER. Power Systems

Certified Generator Set Test Record

Model : 250REZXB Serial Number : SGM32C5R6
Type of Fuel : Nat Gas Engine Serial : EEZOG401073
Material Number : 250REZXB

	Volts	Amperes	Watts	Hertz
Light Load	209	0	0	60
1/4 Load	208	181	65208	60
1/2 Load	207	376	134809	60
3/4 Load	207	549	196835	60
Full Load	207	735	263259	60

Power Factor : 1
Altitude : 600 FT

Temperature : 76° F
Tested By : 2575
Date Tested : Nov 4, 2014

We hereby certify that the results listed were developed during the actual factory test of the generator set indicated.

Certified Correct
KOHLER POWER SYSTEMS

KOHLER. Power Systems

PSII 2014 Stationary & Mobile 60 Hz Certified Power Generation Rating Data																
Generator Model	Engine	Speed RPM	Freq Hz	Fuel	Duty Cycle		BHP KWm	Flywheel power ^{1,2} HP	KW	Engine Family	CO ₂ ³ (g/KW-hr)	NOx ⁴ (g/KW-hr)	CO ⁵ (g/KW-hr)	VOC ^{6,7} (g/KW-hr)	bsfc ⁸ (g/KW-hr)	Catalyst
					Emergency/Non-Emergency	Emergency										
250REZXB	D146L, 14.6L	1800	60	NG	402	300	449	334.8	EPSI14.6NGP	952.04	0.10	0.08	0.08	0.24	Yes	
	D146L, 14.6L	1800	60	LP	402	300	319	237.9	EPSI14.6NGP	647.93	0.04	0.15	0.08	0.32	Yes	

¹ Standby and overload ratings based on ISO3046. Continuous ratings based on ISO 8526.

² All ratings are gross flywheel horsepower corrected to 77°F at an altitude of 328 feet with no cooling fan or alternator losses using heating value for NG of 1015 BTU/SCF.

³ Production tolerances in engines and installed components can account for power variations of +/- 5%. Altitude, temperature and excessive exhaust and intake restrictions should be applied to power calculations.

⁴ Electrical ratings are an estimated based on assumed fan and generator losses and may vary depending on actual equipment losses.

⁵ Bate is based on 100% gross flywheel power rating and does not include fan or generator losses.

⁶ Emissions shown are certified third-party Zero-hour data points suitable for site permitting calculations

⁷ For NG, NMHC is reported in place of VOC for this report.

For additional questions contact:

Power Solutions International, Inc.
1465 Michael Drive – Wood Dale, IL 60191
630.350.9400 (M) – 630.350.9900 (F)

www.powersolutions.com

info@powerengine.com



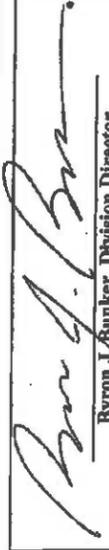
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2014 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Power Solutions Internationals, Inc.
(U.S. Manufacturer or Importer)

Certificate Number: EPSIB14.6NGP-017

Effective Date:
10/30/2013
Expiration Date:
12/31/2014


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
10/30/2013
Revision Date:
N/A

Manufacturer: Power Solutions Internationals, Inc.

Engine Family: EPSIB14.6NGP

Certificate Number: EPSIB14.6NGP-017

Certification Type: Mobile and Stationary

Fuel : Natural Gas (CNG/LNG)

LPG/Propane

Emission Standards : VOC (g/Hp-hr) : 0.7

NOx (g/Hp-hr) : 1

CO (g/Hp-hr) : 2HC + NOx (g/kW-hr) : 2.7

NMHC + NOx (g/kW-hr) : 2.7

CO (g/kW-hr) : 4.4

Emergency Use Only : N

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 1048, 40 CFR Part 60, 1065, 1068, and 60 (stationary only and combined stationary and mobile) and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 1048, 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new nonroad spark-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 1048, 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 1048, 40 CFR Part 60. This certificate of conformity does not cover nonroad engines imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068.20 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 1048, 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 1048, 40 CFR Part 60.

This certificate does not cover large nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

Attachment H
Not Applicable

Attachment I

Calculations Provided in Attachment G

Emergency Generator Engine Data Sheet

Source Identification Number ¹		GEN-IS-2*			GEN-SEC							
Application / location		Computer Data Center			Computer Data Center Security							
Generator Model #		250REZXB			45RZG							
Serial #		SGM32C5R6			2016718							
Engine Manufacturer/Model/Model Year		Doosan D14.6L / 2014			General Motors GM-4.3L / 2006							
Manufacturer's Rated bhp/rpm		402 / 1,800			68 / 1,800							
Source Status ²		NS			ES							
Date Installed/Modified/Removed ³		23-Jul-15			23-Oct-05							
Engine, Fuel and Combustion Data	Engine Type ⁴	RB4S			RB4S							
	Fuel Tank	n/a			n/a							
	APCD Type ⁵	NSCR			HEIS							
	Fuel Type ⁶	PNG/LNG			PNG							
	H2S (gr/100 scf)	0.2			0.2							
	Operating bhp/rpm	1,800 rpm			1,800 rpm							
	Fuel Consumption	2782 cfh @ 100%			583 cfh @ 100%							
	Operation (hrs/yr)	500			500							
Reference ⁷	Potential Emissions	Emission Factor @100% Load	lb/MMBtu		lbs/hr		tons/yr		lbs/hr		tons/yr	
			lb/MMBtu	lbs/hr	tons/yr	lbs/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	
AP	NO _x	2.21	0.0738	0.0185	1.3142	0.3285	9.2845	2.3211	9.2107	2.3027	0.0738	0.0185
AP	CO	3.72	0.0787	0.0197	2.2121	0.5530	15.5826	3.8957	15.5039	3.8760	0.0787	0.0197
AP	VOC	0.0296	0.0443	0.0111	0.0176	0.0044	0.1677	0.0419	0.1234	0.0308	0.0443	0.0111
AP	SO ₂ ⁹	0.000588	0.0017	0.0004	0.0003	0.0001	0.0041	0.0010	0.0025	0.0006	0.0017	0.0004
AP	PM ₁₀	0.0095	0.0270	0.0067	0.0056	0.0014	0.0666	0.0166	0.0396	0.0099	0.0270	0.0067
AP	Formaldehyde	0.0205	0.0582	0.0145	0.0122	0.0030	0.1436	0.0359	0.0854	0.0214	0.0582	0.0145
AP	Benzene	0.00158	0.0045	0.0011	0.0009	0.0002	0.0111	0.0028	0.0066	0.0016	0.0045	0.0011
AP	Ethylbenzene	0.0000245	0.0001	0.0000	0.0000	0.0000	0.0002	0.0000	0.0001	0.0000	0.0001	0.0000
AP	Toluene	0.000558	0.0016	0.0004	0.0003	0.0001	0.0039	0.0010	0.0023	0.0006	0.0016	0.0004
AP	Xylene	0.000195	0.0006	0.0001	0.0001	0.0000	0.0014	0.0003	0.0008	0.0002	0.0006	0.0001
AP	n-Hexane	n/a										

* - GEN-IS-2 emission numbers reflect the worst case emission rate for listed fuels. NO_x, CO, and VOC are manufacturers data.

Where emission rates are calculated as follows:

lb/hr = Fuel Consumption (cfh)*EF (lb/MMBtu)*(1020 Btu/scf)*(1MMBtu/106 Btu)

TPY= Hourly Emissions * 500 hr/yr * (1ton/2000lb)

Emission Factors from AP-42:

<http://www.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf>

All Generators											
Updated		PREVIOUS				INCREASE					
TOTAL EMISSIONS		TOTAL EMISSIONS				TOTAL EMISSIONS					
lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr				
9.2845	2.3211	9.2107	2.3027	0.0738	0.0185						
15.5826	3.8957	15.5039	3.8760	0.0787	0.0197						
0.1677	0.0419	0.1234	0.0308	0.0443	0.0111						
0.0041	0.0010	0.0025	0.0006	0.0017	0.0004						
0.0666	0.0166	0.0396	0.0099	0.0270	0.0067						
0.1436	0.0359	0.0854	0.0214	0.0582	0.0145						
0.0111	0.0028	0.0066	0.0016	0.0045	0.0011						
0.0002	0.0000	0.0001	0.0000	0.0001	0.0000						
0.0039	0.0010	0.0023	0.0006	0.0016	0.0004						
0.0014	0.0003	0.0008	0.0002	0.0006	0.0001						

Attachment J

**AIR QUALITY PERMIT NOTICE
Notice of Application**

Notice is given that Toyota Motor Manufacturing, West Virginia, Inc., has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Class II General Permit Administrative Update for an emergency generator located on Sugar Maple Lane, Buffalo, West Virginia, in Putnam County, West Virginia. The latitude and longitude coordinates are: lat: 38.59760°, lon: 81.99382°.

The applicant estimates the increased potential to discharge the following Regulated Air Pollutants will be:

NOx 0.0185 TPY
CO 0.0197 TPY
VOC 0.0111 TPY
All other pollutants – trace

Startup of operation is planned to begin as necessary during a power outage. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1227, during normal business hours.

Dated this the 3rd day of June, 2015.

By: Toyota Motor Manufacturing, West Virginia, Inc
Millie Marshall, President
1 Sugar Maple Lane, Post Office Box 600
Buffalo, West Virginia 25033

Attachment K

Marc Crouse (TMMWV)

From: Gary Manning (TEMA TPC)
Sent: Thursday, June 11, 2015 7:38 AM
To: Marc Crouse (TMMWV)
Subject: RE: Files to CD or DVD

Good morning, Marc. Your cd is ready.

From: Marc Crouse (TMMWV)
Sent: Wednesday, June 10, 2015 3:56 PM
To: Gary Manning (TEMA TPC)
Subject: Files to CD or DVD

ASEDATA\ASE Team Members\Environmental\AIR\WV DEP -OAQ\General Class II Permit\IS_Gen

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 01is - Title Page.doc	6/4/2015 10:41 AM	Microsoft Word 9...	111 KB
 02is - Cover Letter.doc	6/4/2015 10:44 AM	Microsoft Word 9...	28 KB
 04is - Application-Oct 2013.doc	6/9/2015 1:04 PM	Microsoft Word 9...	135 KB
 05is - Attachment A - Bus_Cert.pdf	11/21/2013 9:33 AM	Adobe Acrobat D...	248 KB
 06is - Attachment B - Process Descriptio...	6/3/2015 4:28 PM	Microsoft Word 9...	27 KB
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 08is - Attachment E - Plot Plan.xlsx	6/3/2015 4:29 PM	Microsoft Excel W...	121 KB
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 10is - Attachment G - 250rezcb.pdf	5/11/2015 1:47 PM	Adobe Acrobat D...	74 KB
 11is - Attachment J - Legal Ad.doc	6/3/2015 4:17 PM	Microsoft Word 9...	27 KB
 12is - Attachment I - Generator Affected ...	6/3/2015 4:55 PM	Microsoft Excel 97...	51 KB
 13is - Attachment O - Summary Sheet.xlsx	6/3/2015 4:56 PM	Microsoft Excel W...	19 KB
 14is - Section Markers.doc	12/5/2014 2:59 PM	Microsoft Word 9...	28 KB

Marc Crouse
Specialist – Environmental Engineering
Toyota Motor Manufacturing, WV
W: (304) 937-7528
C: (304) 767-4165
F: (304) 937-7639



Attachment L

Marc Crouse (TMMWV)

From: Null, Gregory L <Gregory.L.Null@wv.gov>
Sent: Thursday, June 11, 2015 11:17 AM
To: Marc Crouse (TMMWV)
Subject: RE: Fee for Permit modification

Marc,

I have received your credit card information and I will process payment after the application is received.

Greg

From: Marc Crouse (TMMWV) [<mailto:marc.crouse@tema.toyota.com>]
Sent: Thursday, June 11, 2015 10:58 AM
To: Mallett, Robin L; Moore, Nancy R (DEP); Miles, Barbara A
Cc: Null, Gregory L; Kessler, Joseph R
Subject: RE: Fee for Permit modification

Joe Kessler has given me the range of cost, depending on specifics of the permit application.
Can I call and provide the credit card information?

The permit application will be mailed today.

Thanks,

Marc Crouse
Specialist – Environmental Engineering
Toyota Motor Manufacturing, WV
W: (304) 937-7528
C: (304) 767-4165
F: (304) 937-7639



From: Adkins, Sandra K [<mailto:Sandra.K.Adkins@wv.gov>]
Sent: Friday, June 05, 2015 8:37 AM
To: Mallett, Robin L; Moore, Nancy R (DEP); Miles, Barbara A
Cc: Marc Crouse (TMMWV); Null, Gregory L
Subject: FW: Fee for Permit modification

I am no longer with the Accounts Receivable section. Please contact Robin, Nancy, or Barbara at the above email addresses or call 304/926-0499 ext. 4888. I understand that there might have been a problem with that extension yesterday afternoon.

From: Marc Crouse (TMMWV) [<mailto:marc.crouse@tema.toyota.com>]
Sent: Friday, June 05, 2015 7:19 AM

Attachment M
Not Applicable

Attachment N
Not Applicable

Attachment O

Emergency Generator Criteria Pollutant Emission Summary Sheet

Company Name <u>Toyota Motor Manufacturing, West Virginia, Inc.</u>		Registration Number (Agency Use) G60-B _____										
Source Identification Number	NO _x		CO		VOC		SO ₂		PM ₁₀			
	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr		
GEN-11E	0.15723	0.62892	0.26466	1.05864	0.00211	0.00842	0.00004	0.00017	0.00068	0.00270		
GEN-11W	0.15723	0.62892	0.26466	1.05864	0.00211	0.00842	0.00004	0.00017	0.00068	0.00270		
GEN-12	0.15723	0.62892	0.26466	1.05864	0.00211	0.00842	0.00004	0.00017	0.00068	0.00270		
GEN-13	0.15723	0.62892	0.26466	1.05864	0.00211	0.00842	0.00004	0.00017	0.00068	0.00270		
GEN-14	0.32855	1.31420	0.55303	2.21214	0.00440	0.01760	0.00009	0.00035	0.00141	0.00565		
GEN-15	0.32855	1.31420	0.55303	2.21214	0.00440	0.01760	0.00009	0.00035	0.00141	0.00565		
GEN-SEC	0.32855	1.31420	0.55303	2.21214	0.00440	0.01760	0.00009	0.00035	0.00141	0.00565		
GEN-IS-2	0.01845	0.07380	0.01968	0.07870	0.01108	0.04430	0.00042	0.00167	0.00674	0.02696		
GEN-SBR	0.44577	1.78307	0.75034	3.00137	0.00597	0.02388	0.00012	0.00047	0.00192	0.00766		
GEN-PHARM	0.24233	0.96931	0.40790	1.63159	0.00325	0.01298	0.00006	0.00026	0.00104	0.00417		
TOTAL	2.32112	9.28446	3.89565	15.58262	0.04192	0.16766	0.00103	0.00412	0.01664	0.06655		

Emergency Generator Hazardous/Toxic Pollutant Emission Summary Sheet

Company Name <u>Toyota Motor Manufacturing, West Virginia, Inc.</u>		Registration Number (Agency Use) G60-B _____										
Source Identification Number	Benzene		Ethylbenzene		Toluene		Xylene		n-Hexane		Formaldehyde	
	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr	PTE tons/yr	PTE lbs/hr
GEN-11E	0.00011	0.00045	0.00000	0.00001	0.00004	0.00016	0.00001	0.00006	n/a	n/a	0.00146	0.00583
GEN-11W	0.00011	0.00045	0.00000	0.00001	0.00004	0.00016	0.00001	0.00006	n/a	n/a	0.00146	0.00583
GEN-12	0.00011	0.00045	0.00000	0.00001	0.00004	0.00016	0.00001	0.00006	n/a	n/a	0.00146	0.00583
GEN-13	0.00011	0.00045	0.00000	0.00001	0.00004	0.00016	0.00001	0.00006	n/a	n/a	0.00146	0.00583
GEN-14	0.00023	0.00094	0.00000	0.00001	0.00008	0.00033	0.00003	0.00012	n/a	n/a	0.00305	0.01219
GEN-15	0.00023	0.00094	0.00000	0.00001	0.00008	0.00033	0.00003	0.00012	n/a	n/a	0.00305	0.01219
GEN-SEC	0.00023	0.00094	0.00000	0.00001	0.00008	0.00033	0.00003	0.00012	n/a	n/a	0.00305	0.01219
GEN-IS-2	0.00112	0.00448	0.00002	0.00007	0.00040	0.00158	0.00014	0.00055	n/a	n/a	0.01454	0.05817
GEN-SBR	0.00032	0.00127	0.00000	0.00002	0.00011	0.00045	0.00004	0.00016	n/a	n/a	0.00413	0.01654
GEN-PHARM	0.00017	0.00069	0.00000	0.00000	0.00006	0.00024	0.00000	0.00009	n/a	n/a	0.00225	0.00899
TOTAL	0.00277	0.01107	0.00004	0.00016	0.00098	0.00391	0.00032	0.00137	n/a	n/a	0.03590	0.14361