

Application for General Permit G65-C

**for Construction, Modification, Relocation,
Administrative Update and Operation of**

One (1) New Emergency Electrical Generator

Prepared for:

**Logan-Mingo Readiness Center
West Virginia Army National Guard**

Prepared by:

**Amec Foster Wheeler
Environment & Infrastructure, Inc.
11003 Bluegrass Parkway, #690
Louisville, Kentucky 40299
AMEC Project No. 7-7544-0008**

May 20, 2015

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**APPLICATION FOR
GENERAL PERMIT REGISTRATION**

	<p style="text-align: center;">WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 - 57th Street Charleston, WV 25304 Phone: (304) 926-0475 www.wvdep.org</p>	<p style="text-align: center;">APPLICATION FOR GENERAL PERMIT REGISTRATION <i>CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE A STATIONARY SOURCE OF AIR POLLUTANTS</i></p>
<p style="text-align: center;"><input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> MODIFICATION <input type="checkbox"/> RELOCATION <input type="checkbox"/> CLASS I ADMINISTRATIVE UPDATE <input type="checkbox"/> CLASS II ADMINISTRATIVE UPDATE</p>		
<p style="text-align: center;">CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:</p>		
<p><input type="checkbox"/> G10-D – Coal Preparation and Handling <input type="checkbox"/> G20-B – Hot Mix Asphalt <input type="checkbox"/> G30-D – Natural Gas Compressor Stations <input type="checkbox"/> G33-A – Spark Ignition Internal Combustion Engines <input type="checkbox"/> G35-A – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit)</p>	<p><input type="checkbox"/> G40-C – Nonmetallic Minerals Processing <input type="checkbox"/> G50-B – Concrete Batch <input type="checkbox"/> G60-C – Class II Emergency Generator <input checked="" type="checkbox"/> G65-C – Class I Emergency Generator <input type="checkbox"/> G70-A – Class II Oil and Natural Gas Production Facility</p>	
<p style="text-align: center;">SECTION I. GENERAL INFORMATION</p>		
<p>1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE): West Virginia Army National Guard</p>		<p>2. FEDERAL EMPLOYER ID NO. (FEIN): 556009554</p>
<p>3. APPLICANT'S MAILING ADDRESS: The Adjutant General's Department West Virginia Army National Guard 1703 Coonskin Drive Charleston, WV 25311</p>	<p>4. APPLICANT'S MAILING ADDRESS: _____ _____</p>	
<p>5. IF APPLICANT IS A SUBSIDIARY CORPORATION, PLEASE PROVIDE THE NAME OF PARENT CORPORATION: N/A</p>		
<p>6. WV BUSINESS REGISTRATION. IS THE APPLICANT A RESIDENT OF THE STATE OF WEST VIRGINIA? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO N/A — IF YES, PROVIDE A COPY OF THE CERTIFICATE OF INCORPORATION / ORGANIZATION / LIMITED PARTNERSHIP (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER BUSINESS CERTIFICATE AS ATTACHMENT A. — IF NO, PROVIDE A COPY OF THE CERTIFICATE OF AUTHORITY / AUTHORITY OF L.L.C. / REGISTRATION (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER BUSINESS CERTIFICATE AS ATTACHMENT A.</p>		
<p style="text-align: center;">SECTION II. FACILITY INFORMATION</p>		
<p>7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.). Standby / Emergency Generator at Logan-Mingo Readiness Center</p>	<p>8a. Standard Industrial Classification (Sic) Code: 9711</p> <p>8.b. North American Industry Classification System (NAICS) for the facility: 928110</p>	
<p>9a. Daq plant i.d. No. (for an existing facility): NA</p>	<p>10a. List all current 45csr13 and 45csr30 (title v) permit numbers associated with this process (for existing facility only): none</p>	

A: PRIMARY OPERATING SITE INFORMATION

11A. Name of primary operating site: Logan-Mingo Readiness Center	12A. Address of primary operating site: 361 22 Mine Road, Holden WV 25625	
13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the <i>proposed site</i> ? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - IF YES, PLEASE EXPLAIN: <u>OWNER</u> - 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 <i>present location</i> of the facility from the nearest state road; - For Construction or Relocation permits , please provide directions to <i>the proposed new site location</i> from the nearest state road. <i>Directions to site: Turn left off of WV 119 approximately 4 miles south of Holden, WV, onto County Route (CR 65/30) aka. "22 Mine Road", then in approximately 0.4 mile continue right on CR 9, which becomes CR 7/02, for approximately 1.5 miles and bear right on CR 7/10, and continue approximately 0.5 miles and turn left into Access Road to Facility. Note: the 22 Mine Road follows this route from WV119 to the facility.</i> Include a Map as Attachment F.		
15A. Nearest city or town: Holden	16A. County: Logan & Mingo	17A. UTM Coordinates: Northing (km): 4180.016 Easting (km): 402.094 Zone: 17
18A. Briefly describe the proposed new operation or change (s) to the facility: New readiness center		19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: Longitude:

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:	
13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the <i>proposed site</i> ? <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 <i>present location</i> of the facility from the nearest state road;</p> <p>- For construction or relocation permits, please provide directions to <i>the proposed new site location</i> from the nearest state road. Include a MAP as Attachment F.</p> <p>_____</p> <p>_____</p>		
<p>15B. Nearest city or town:</p>	<p>16B. County:</p>	<p>17B. UTM Coordinates:</p> <p> Northing (km): _____</p> <p> Easting (km): _____</p> <p> Zone: _____</p>
<p>18B. Briefly describe the proposed new operation or change (s) to the facility:</p>		<p>19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):</p> <p>Latitude: _____</p> <p>Longitude: _____</p>

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

<p>11C. Name of 2ND alternate operating site:</p> <p style="text-align: center;">N/A</p> <p>_____</p> <p>_____</p>	<p>12C. Address of 2ND alternate operating site:</p> <p>_____</p> <p>_____</p>	
<p>13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the <i>proposed site</i>? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>- If YES, please explain:</p> <p>_____</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 <i>present location</i> of the facility from the nearest state road;</p> <p>- For construction or relocation permits, please provide directions to <i>the proposed new site location</i> from the nearest state road. Include a MAP as Attachment F.</p> <p>_____</p> <p>_____</p> <p>_____</p>		
<p>15C. Nearest city or town:</p>	<p>16C. County:</p>	<p>17C. UTM Coordinates:</p> <p> Northing (km): _____</p> <p> Easting (km): _____</p> <p> Zone: _____</p>
<p>18C. Briefly describe the proposed new operation or change (s) to the facility:</p>		<p>19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):</p> <p>Latitude: _____</p> <p>Longitude: _____</p>

20. Provide the date of anticipated installation or change: <input checked="" type="checkbox"/> if this is an after-the-fact permit application, provide the date upon which the proposed change did happen: <u>03 / 15 / 2015</u>	21. Date of anticipated start-up if registration is granted: <u>06 / 15 / 2015</u>
22. Provide maximum projected Operating Schedule of activity/ activities outlined in this application: hours per day <u>1.37</u> days per week <u>7</u> weeks per year <u>52</u> percentage of operation <u>5.7</u> Note: anticipated operations are < 500 hours per year.	

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

23. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).
24. Include a Table of Contents as the first page of your application package.
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.
Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.
<ul style="list-style-type: none"> <input 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 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 checked="" type="checkbox"/> ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS) <input checked="" type="checkbox"/> ATTACHMENT O: EMISSIONS SUMMARY SHEETS <input type="checkbox"/> OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)
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.

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

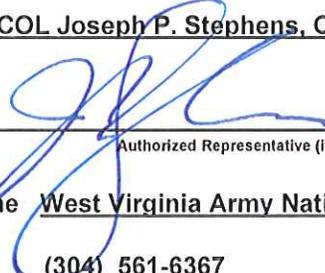
- I certify that I am the Owner and Proprietor

- I hereby certify that (please print or type) Joseph P Stephens
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 Not Applicable
(please use blue ink) Responsible Official Date

Name & Title COL Joseph P. Stephens, C & FMO
(please print or type)

Signature 
(please use blue ink) Authorized Representative (if applicable) Date 7 JUL 15

Applicant's Name West Virginia Army National Guard

Phone & Fax (304) 561-6367 (304) 561-6458
Phone Fax

Email: joseph.p.stephens.mil@mail.mil

G65-C REGISTRATION APPLICATION FORMS

EMERGENCY GENERATOR ENGINE DATA SHEET

Source Identification Number ¹	EG-1		
Engine Manufacturer and Model	Catepillar C32 Gen Engine C32 ATAAC		
Manufacturer's Rated bhp/rpm	1474		
Source Status ²	ES (EG-1)		
Date Installed/Modified/Removed ³	3/15/2015		
Engine Manufactured/Reconstruction Date ⁴	Est. Jan 2015		
Is this a Certified Stationary Compression Ignition Engine according to 40CFR60 Subpart III? (Yes or No) ⁵	Yes		
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJJ? (Yes or No) ⁶	No		
Engine, Fuel and Combustion Data	Engine Type ⁷	RB4S	
	APCD Type ⁸	NA	
	Fuel Type ⁹	2FO	
	H ₂ S (gr/100 scf)	Max. Sulfur Content in fuel is 500 ppm	
	Operating bhp/rpm	1474 / 1800	
	BSFC (Btu/bhp-hr)	6663	
	Fuel throughput (ft ³ /hr)	9.6	
	Fuel throughput (MMft ³ /yr)	0.0048	
	Operation (hrs/yr)	< 500	
	Potential Emissions ¹¹	lbs/hr	tons/yr
Mfr.: Cat	NO _x	16.0	4.0
Mfr.: Cat	CO	0.42	0.11
Mfr.: Cat	VOC	0.032	0.0081
AP-42	SO ₂	0.50	0.124
Mfr.: Cat	PM ₁₀	0.065	0.016
AP-42	Formaldehyde	7.75 E-04	1.94 E-04

STORAGE TANK DATA SHEET

Source ID # ¹	Status ²	Content ³	Volume ⁴	Dia ⁵	Throughput ⁶	Orientation ⁷	Liquid Height ⁸
T01	EXIST	2FO	4,500	Rectangular 24.7' l. x 11.7' w. x 3.2' h.	36,000	HORZ	3.0

1. Enter the appropriate Source Identification Numbers (Source ID #) for each storage tank located at the compressor station. Tanks should be designated T01, T02, T03, etc.
2. Enter storage tank Status using the following:
 EXIST Existing Equipment
 REM Equipment Removed

NEW Installation of New Equipment

3. Enter storage tank content such as condensate, pipeline liquids, glycol (DEG or TEG), lube oil, etc.
4. Enter storage tank volume in gallons.
5. Enter storage tank diameter in feet.
6. Enter storage tank throughput in gallons per year. Amount based on 500 hours operation per year.
7. Enter storage tank orientation using the following:
 VERT Vertical Tank
 HORZ Horizontal Tank

8. Enter storage tank average liquid height in feet. Based on 75% average operating fuel level.

9. Note: Blue shading indicates proposed changes or additions

EMERGENCY GENERATOR EMISSION SUMMARY SHEET FOR CRITERIA POLLUTANTS										
Emergency Generator Location: <u>Logan-Mingo Readiness Ctr.</u>						Registration Number (Agency Use) <u>G65-C</u>				
Source ID No.	Potential Emissions (lbs/hr)					Potential Emissions (tons/yr)				
	NO _x	CO	VOC	SO ₂	PM ₁₀	NO _x	CO	VOC	SO ₂	PM ₁₀
EG-1	16.0	0.42	0.032	0.50	0.065	4.0	0.11	0.0081	0.124	0.016
Total	16.0	0.42	0.032	0.50	0.065	4.0	0.11	0.0081	0.124	0.016

EMERGENCY GENERATOR EMISSION SUMMARY SHEET FOR HAZARDOUS/TOXIC POLLUTANTS

Emergency Generator Location: <u>Camp Dawson</u>											Registration Number (Agency Use) <u>G60-C</u>				
Source ID No.	Potential Emissions (lbs/hr)					Potential Emissions (tons/yr)									
	Benzene	Ethyl-benzene	Toluene	Xylenes	n-Hexane	Formaldehyde	Benzene	Ethyl-benzene	Toluene	Xylenes	n-Hexane	Formaldehyde			
EG-1	7.62E-03	NA	2.76E-03	1.90E-03	NA	7.75E-04	1.91E-03	NA	6.90E-04	4.74E-04	NA	1.94E-04			
Total	7.62E-03	NA	2.76E-03	1.90E-03	NA	7.75E-04	1.91E-03	NA	6.90E-04	4.74E-04	NA	1.94E-04			

Note: Blue shading indicates proposed changes or additions

Section III. Attachments and Supporting Documents

Attachment A: Current Business Certificate

If the registrant is a resident of the State of West Virginia the registrant should provide a copy of the registrant's current Business Registration Certificate issued to them from the West Virginia State Tax Department. If the registrant is not a resident of the State of West Virginia, the registrant should provide a copy of the Certificate of Authority/Authority of LLC/Registration.

Not Applicable

Attachment B: Process Description

Provide a detailed written description of the operation, plant and/or affected facilities. The Process Description is used in conjunction with the Process Flow Diagram to provide the reviewing engineer a complete understanding of the activity at the operation or plant. Describe in detail and order the complete process.

Use the following guidelines to ensure a complete Process Description:

1. The Process Flow Diagram should be prepared first and used as a guide when preparing the Process Description. The written description shall follow the logical order of the Process Flow Diagram.
2. All sources, affected facilities, and air pollution control devices must be included in the Process Description.
3. When modifications are proposed, describe the modifications and the effect the changes will have on affected facilities, equipment or operation.
4. Proper Source Identification Numbers are used consistently in the Process Description.
5. Additional information that may facilitate the reviewer's understanding of the Process Flow Diagram and/or Process Description is included.

The diesel-fired, standby/emergency generator (EG-1) produces emergency electrical power at the Logan-Mingo Readiness Center installation located near Holden, West Virginia.

The emergency electrical generator is driven by a Caterpillar 4-cycle diesel engine as shown in Attachment D and as provided in the attached manufacturers' specifications. The generator has a sub-base tank which stores diesel fuel to supply the compression ignition internal combustion engine.

Attachment C: Description of Fugitive Emissions

This information is not required for General Permit G65-C. However, the Director may require a detailed written description of fugitive emissions associated with the process if there is reason to believe the affected facility is close to major source thresholds.

Sub-base tank emissions associated with diesel fuel - negligible

Attachment D: Process Flow Diagram

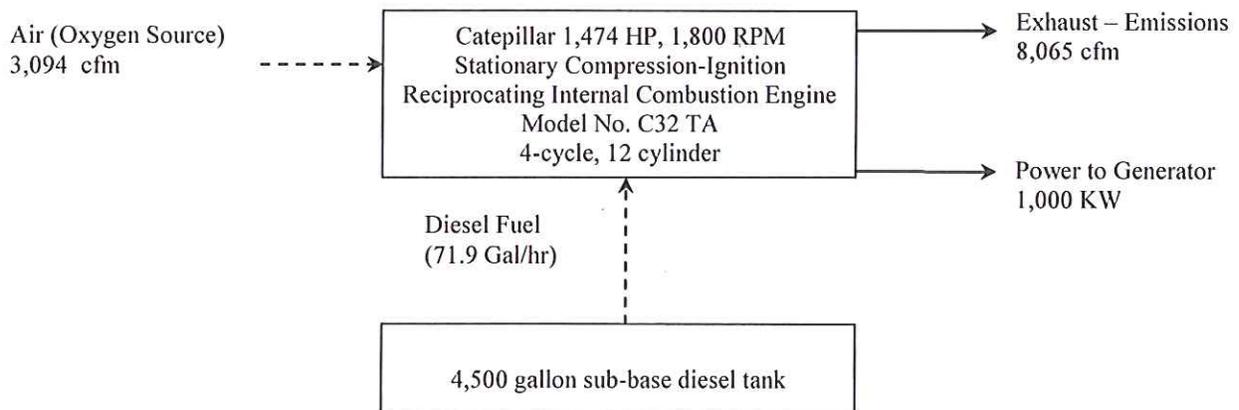
Provide a diagram or schematic that supplements the Process Description of the operation or plant. The Process Flow Diagram shall show all sources, components or facets of the operation or plant in an understandable line sequence of operation. Appropriate sizing and specifications of equipment should also be shown on the Process Flow Diagram. For a proposed modification, clearly identify the process areas, affected facilities and equipment that will be modified or added, and specify the nature and extent of the modification.

Use the following guidelines to ensure a complete Process Flow Diagram:

1. The Process Flow Diagram shall logically follow the entire process from beginning to end.
2. Identify each source, air pollution control device and transfer point with proper and consistent Source Identification Numbers, Control Device Identification Numbers and Transfer Point Identification Numbers.
3. Include material handling rates for all lines of the Process Flow Diagram. If applicable, include pre- and post-modification material handling rates and identify accordingly.
4. Transfer Point Identification Numbers, consistent with assignments in any emission calculation sheet, should be shown at each transfer point.
5. The process flow lines may appear different for clarity. For example, dot-dash-dot for raw material, and a solid line for finished product. Refuse flow may be identified by a dotted line
6. The process flow lines may be color coded. For example, new or modified equipment may be red, old or existing equipment may be blue; different stages of preparation such as raw material may be green and finished product or refuse another color.

PROCESS FLOW DIAGRAM

EG-1



Attachment E: Plot Plan

Provide an accurately scaled and detailed Plot Plan showing the locations of all process equipment and/or affected facilities and air pollution control devices. Show all equipment, affected facilities, enclosures, buildings and plant entrances and exits from the nearest public road(s) as appropriate. Note height, width and length of proposed or existing buildings and structures.

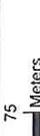
A scale between 1"=10' and 1"=200' should be used with the determining factor being the level of detail necessary to show operation or plant areas, affected facilities, sources, transfer points, etc. An overall small scale plot plan (e.g., 1"=300') should be submitted in addition to larger scale plot plans for process or activity areas (e.g., 1"=50') if the plant is too large to allow adequate detail on a single plot plan. Process or activity areas may be grouped for the enlargements as long as sufficient detail is shown.

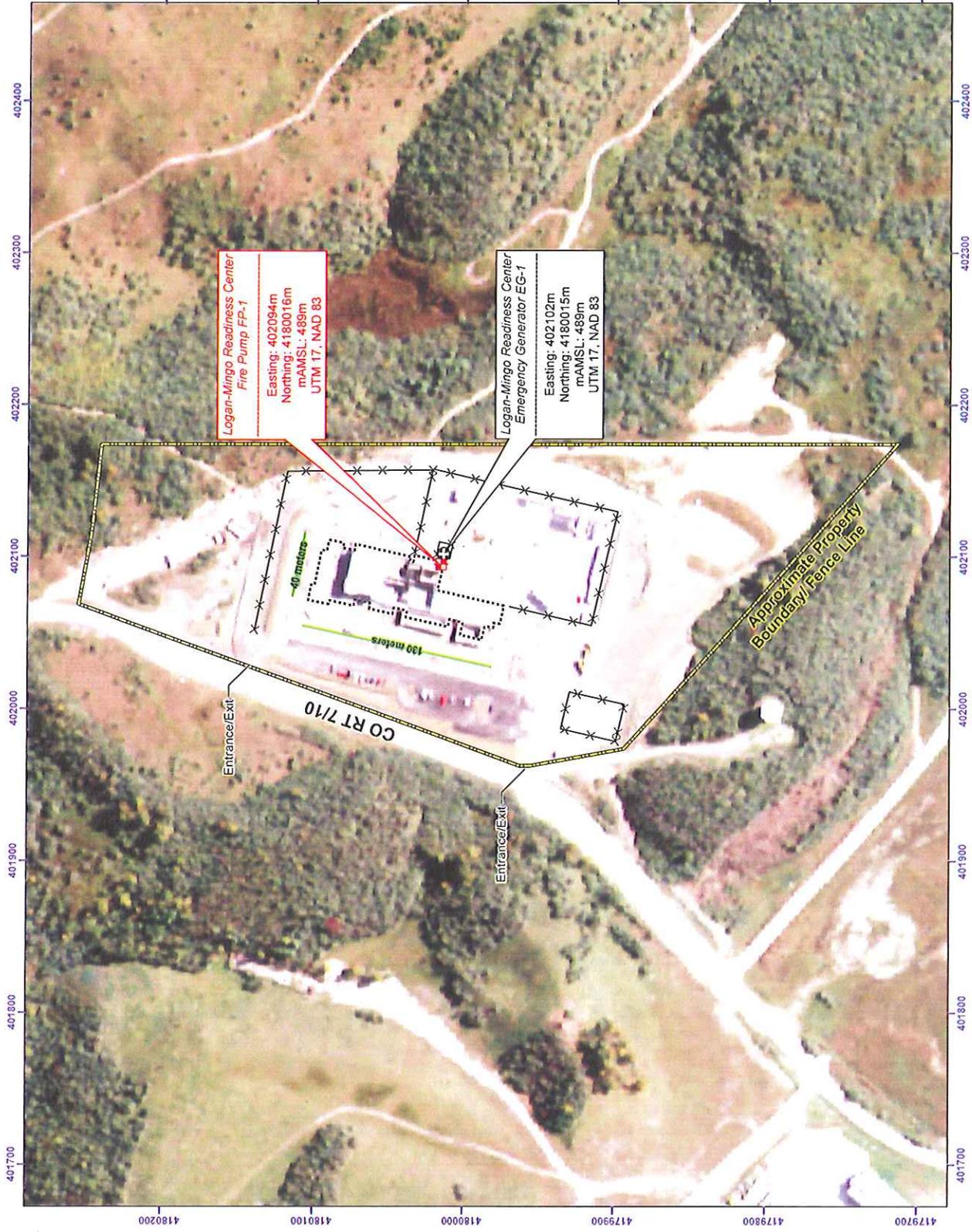
Use the following guidelines to ensure a complete Plot Plan:

1. Operation, plant or facility name
2. Company name
3. Company ID number
4. Plot scale, north arrow, date drawn, and submittal date.
5. Fence lines
6. Property lines
7. Base elevation
8. UTM reference coordinates from the Area Map and corresponding reference point elevation
9. Location of all sources labeled with proper and consistent Source Identification numbers

This information is required for all sources regardless of whether it is a construction, modification, or administrative update.

See attached

Logan-Mingo Readiness Center							
	PLOT PLAN						
		 Fire Pump (FP-1)  Emergency Generator (EG-1)  Fence  Approximate Property Boundary/ Fence Line		 N  0 75 250 Meters  0 250 Feet 1 in = 200 ft	 <p style="text-align: center;">West Virginia Army National Guard</p>	Prepared by:  amcc  wvcc 11003 Bluegrass Parkway, Suite 690 Louisville, KY 40299 Phone: (502) 267-0700	<p><small>"No warranty is made by the WARNINGSB as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. This map is a "living" map and as new data become available and is incorporated into the Enterprise GIS database."</small></p> <p><small>Imagery: USGS - 2014 Projection: NAD 1983 UTM Zone 17N Drawn by: DDC, Submitted: 02-15-2015</small></p>



Attachment F: Area Map

Provide a USGS 7.5 minute topographic Area Map showing the current or proposed location of the operation or plant. On this map, identify plant or operation property lines, access roads and any adjacent dwelling, business, public building, school, church, cemetery, community or institutional building or public park.

Mark and reference UTM coordinates (not latitude and longitude) and the corresponding elevation above mean sea level for the operation or plant. UTM coordinates may be acquired from the USGS 7.5" topographical map. UTM coordinates are marked as blue tick marks along the outside edges of the map. These coordinates must be provided for a point inside the plant boundary near the center of the property and be accurate to within fifty meters.

This information is required for all sources regardless of whether it is a construction, modification, or administrative update.

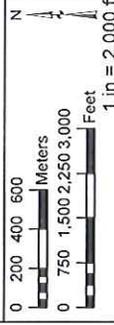
See attached

Logan-Mingo Readiness Center

AREA MAP

Legend

-  Emergency Generator
-  Approximate Property Boundary / Fence Line
-  Cemetery (4)
-  Church (2)



Prepared for:



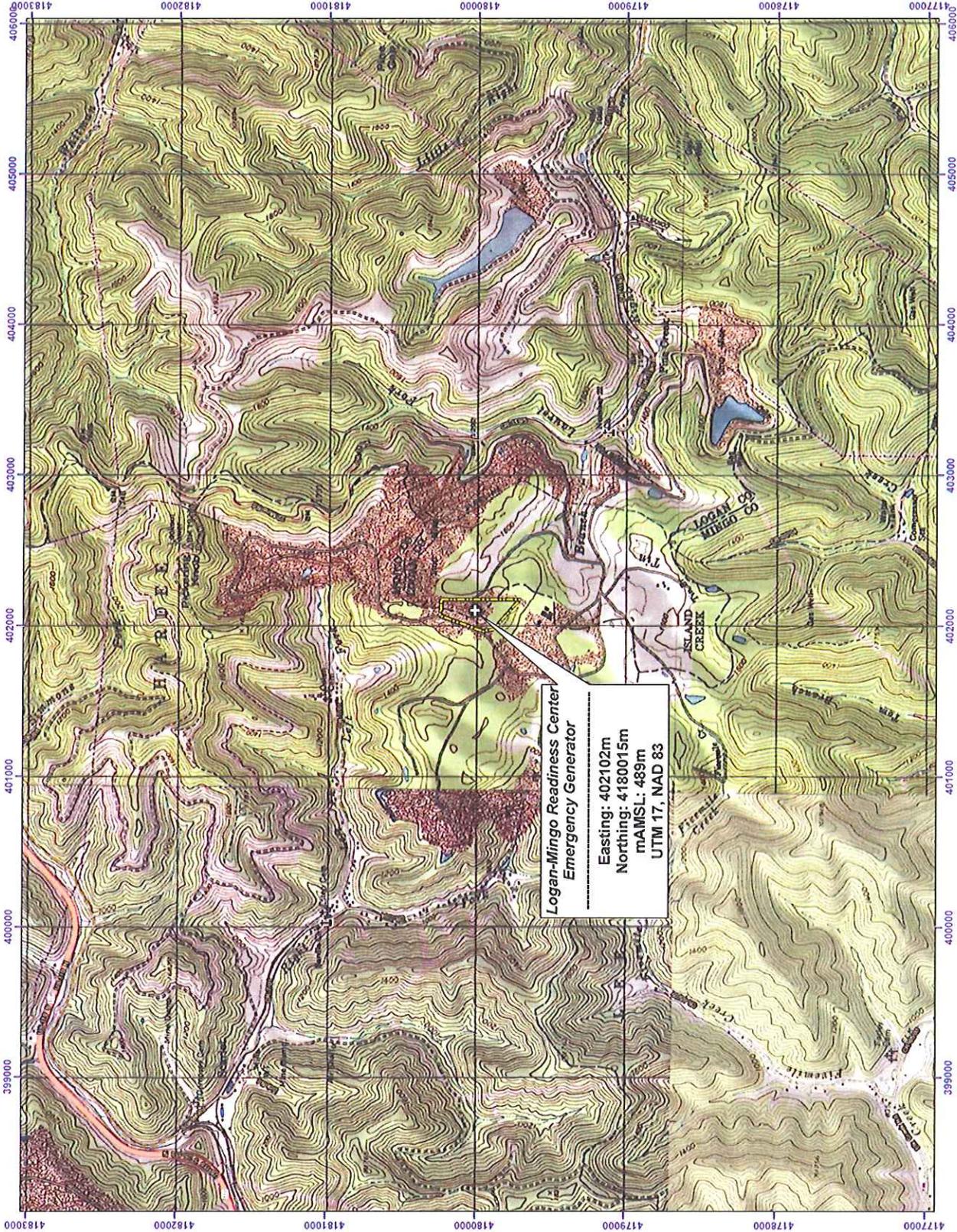
West Virginia
Army
National
Guard

Prepared by:



11003 Bluegrass Parkway, Suite 690
Louisville, KY 40299
Phone: (502) 267-0700

"No warranty is made by the WVA/AMCWCB as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. This map is a "living document" in that it is subject to change as new data is available and is being incorporated into the Enterprise GIS database."
Imagery: USGS 24k TOPO - Holden, WV, 1979
Projection: NAD 83 UTM Zone 17N
Drawn by: D.C. Submitted: 05-15-2015



Attachment G: General Permit G65-C Registration Section Applicability Form

General Permit G65-C was developed to allow qualified registrants to seek registration for emergency generator(s).

General Permit G65-C allows the registrant to choose which sections of the permit that they wish to seek registration under. Therefore, please mark which sections that you are applying for registration under. Please keep in mind, that if this registration is approved, the issued registration will state which sections will apply to your affected facility.

- | | | |
|-----------|---|-------------------------------------|
| Section 5 | Reciprocating Internal Combustion Engines (R.I.C.E.)* | <input checked="" type="checkbox"/> |
| Section 6 | Tanks | <input type="checkbox"/> |
| Section 7 | Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart IIII) | <input checked="" type="checkbox"/> |
| Section 8 | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ) | <input type="checkbox"/> |

* Affected facilities that are subject to Section 5 may also be subject to Sections 7 or 8. Therefore, if the applicant is seeking registration under both sections, please select both.

Attachment H: Air Pollution Control Device Data Sheet

This information is not required for General Permit G65-C.

Not Applicable.

Attachment I: Emissions Calculations

Provide detailed emission calculations which lists the plant or operation's potential to emit (PTE) for criteria and hazardous/toxic pollutants.

Use the following guidelines to ensure complete emission calculations

1. All emission sources are included in the emission calculations, as well as all methods used in the emissions calculations.
2. Proper Source Identification Numbers and Control Device Identification Numbers are used consistently in the Emission Calculations.
3. A printout of the Emission Summary Sheets is attached to the Registration Application.

Potential-To-Emit (PTE) Calculations - Emergency Generator

WVARNING Logan-Mingo Readiness Center

#2 Fuel Oil (BTU/gal) 136,600 BTU/gal average

Capacity Data						
Source ID No.	Fuel Full Standby Fuel Rate (gph)	Fuel Through-put (gpy)	Fuel Through-put (tch/hr)	Fuel Through-put (MMt/yr)	BHP Rating @ full standby	BSFC (Btu/bhp-hr)
EG-1	71.9	35950	9.6	0.0048	1474	6663

Criteria Pollutant Potential Emissions

Sample Calculation: $AP-42 \text{ Emission Factor (lb/MMBtu)} \times 136,600 \text{ Btu/gal diesel fuel} \times \text{fuel consumption rate (gal/hr)} \div 1,000,000 \text{ Btu/MMBtu} = \text{Emission Rate (lb/hr)}$

Sample Calculation: $\text{Cummins Emission Factor (gram/HP-hr)} \times \text{HP Rating at full standby load} \div 453,593 \text{ grams/LB} = \text{Emission Rate (lb/hr)}$

Source ID No.	1. Emission Factor (lbs/MMBtu) [Ref 1: AP-42, c03a04, Table 3.3-1] [Ref 2: AP-42, c03a03, Table 3.3-1]										2. Emission Factor (grams/HP-hr) [Data Sheet]									
	NO _x	CO	VOC	SO ₂	PM ₁₀	NO _x	CO	VOC	SO ₂	PM ₁₀	NO _x	CO	VOC	SO ₂	PM ₁₀	NO _x	CO	VOC	SO ₂	PM ₁₀
EG-1	NA	NA	NA	0.051	NA	4.93	0.13	0.01	NA	0.02	16.0	0.42	0.032	0.50	0.065	4.0	0.11	0.0081	0.124	0.016

Hazardous Air Pollutant (HAP) Emissions

Sample Calculation: $AP-42 \text{ Emission Factor (lb/MMBtu)} \times 136,600 \text{ Btu/gal diesel fuel} \times \text{fuel consumption rate (gal/hr)} \div 1,000,000 \text{ Btu/MMBtu} = \text{Emission Rate (lb/hr)}$

Source ID No.	Emission Factors (lb/MMBtu) [Ref 1: AP-42, c03a04, Table 3.3-2] [Ref 2: AP-42, c03a03, Table 3.3-2]										Emission Factors (lb/MMBtu) [Ref 1: AP-42, c03a04, Table 3.3-2] [Ref 2: AP-42, c03a03, Table 3.3-2]													
	Benzene	Ethyl benzene	Toluene	Xylenes	n-hexane	Formaldehyde	Benzene	Ethyl benzene	Toluene	Xylenes	n-hexane	Formaldehyde	Benzene	Ethyl benzene	Toluene	Xylenes	n-hexane	Formaldehyde	Benzene	Ethyl benzene	Toluene	Xylenes	n-hexane	Formaldehyde
EG-1	7.76E-04	Not Available	2.81E-04	1.93E-04	Not Available	7.89E-05	7.62E-03	Not Available	2.76E-03	1.90E-03	Not Available	7.75E-04	1.91E-03	Not Available	6.90E-04	4.74E-04	Not Available	1.94E-04	1.91E-03	Not Available	6.90E-04	4.74E-04	Not Available	1.94E-04

Attachment J: Class I Legal Advertisement

Publication of the below Class I legal advertisement is not a requirement of the application process for Class I General Permit - G65-C (Emergency Generators)

AIR QUALITY PERMIT NOTICE Notice of Application

Not applicable for G65-C Class I General Permit

Attachment K: Electronic Submittal (Optional)

Provide an Electronic Submittal Diskette(s) for all files that are available electronically. The Electronic Submittal Diskette should have the following files in their respective formats (if available):

1. Registration Application file (Microsoft Word or Word Perfect format)
2. Affected Source Sheets (Microsoft Word or Word Perfect format)
3. Process Flow Diagram file
4. Process Description file (Microsoft Word or Word Perfect format)
5. Area Map file
6. Plot Plan file
7. Emission Calculations Spreadsheet (Microsoft Excel format)
8. Air Pollution Control Device Sheet, if required (Microsoft Word or Word Perfect format)

Not applicable

Attachment L: General Permit Registration Application Fee

A person submitting a Class II General Permit Registration Application to construct, modify, relocate or administratively update an emergency generator shall pay a Class II General Permit registration fee pursuant to 45CSR13. The registration fee shall be paid by a negotiable instrument (check, draft, warrant or money order) to DEP - Division of Air Quality. The fees associated with General Permit G60-C include:

- a. \$500.00 for Class II General Permit Registrations (Construction/Modification)
- b. \$300.00 for Class II administrative updates
- c. \$1000.00 for New Source Performance Standard (NSPS) fee for applicable emergency generators.

Any submitted Registration Application shall not be deemed to have been received nor administratively complete unless payment of the proper Class II General Permit registration fee(s) is (are) included (45CSR22);

Any General Permit registration fee paid hereunder is not refundable (45CSR22).

General Permit Levels Construction, Modification, Relocation, Administrative Update

Class II General Permits – G10-C (Coal Preparation and Handling), G20-B (Hot Mix Asphalt), G30-D (Natural Gas Compressor Stations), G35-A (Natural Gas Compressor Stations with Flares/Glycol Dehydration Units), G40-B (Nonmetallic Minerals Processing), G50-B (Concrete Batch Plant), G60-C (Emergency Generators), and Class I General Permit - G65-C (Emergency Generators)

General Permit	Public Notice	Review Period as per 45CSR13	Application Fee	Criteria	Application Type
Class II General Permit (Construction)	30 days (applicant)	90 days	\$500 + applicable NSPS fees	6 lb/hr and 10 tpy of any regulated air pollutant OR 144 lb/day of any regulated air pollutant, OR 2 lb/hr of any hazardous air pollutant OR 5 tpy of aggregated HAP OR 45CSR27 TAP (10% increase if above BAT triggers or increase to BAT triggers) or subject to applicable standard or rule, but subject to specific eligibility requirements	Registration Application
Class II General Permit (Modification)	30 days (applicant)	90 days	\$500 + applicable NSPS fees	Same as Class II General Permit (Construction) but subject to specific eligibility requirements	Registration Application
Administrative Update (Class I)	None	60 days	None	Decrease in emissions or permanent removal of equipment OR more stringent requirements or change in MRR that is equivalent or superior	Registration Application or Written Request
Administrative Update (Class II)	30 days (applicant)	60 days	\$300 + applicable NSPS fees	No change in emissions or an increase less than Class II Modification levels	Registration Application
Relocation	30 days (applicant)	45 days	\$500 + applicable NSPS fees	No emissions increase or change in facility design or equipment	Registration Application
Class I General Permit	None	45 days	\$250	Same as Class II General Permit (Construction) but subject to specific eligibility requirements	Registration Application

Site is eligible for Class I G65-C general permit because regulated air pollutant potential emissions are < 10 tons per year.

Fees applicable to this Application: \$250 for Class I General Permit Registration

Attachment M: Siting Criteria Waiver

If registrant is seeking a waiver from the siting criteria in G60-C Section 2.1, please complete the siting criteria waiver. This waiver needs to be completed by the registrant and person(s) granting the waiver, and notarized by an authorized West Virginia Notary Public. The waiver is only good for the submitted registration application. Therefore, any further modification or administrative update requiring public notice will require a new waiver.

Not Applicable.

Attachment N: Material Safety Data Sheets (Msds)



Material Safety Data Sheet

MSDS ID NO.: 0279MAR019
Revision date: 12/07/2010

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name: Marathon No. 2 Low Sulfur Diesel Dyed 500 ppm Sulfur Max
Synonym: Diesel No. 2 Dyed 500 ppm Sulfur Max; No. 2 Diesel, Non-Road Use, Dyed; No. 2 Diesel Dyed 500 ppm Sulfur Max; No. 2 NR 500 Diesel Dyed; No. 2 Diesel Dyed (0.05% Sulfur Max)
Chemical Family: Petroleum Hydrocarbon
Formula: Mixture

Manufacturer:
Marathon Petroleum Company LP
539 South Main Street
Findlay OH 45840

Other information: 419-421-3070
Emergency telephone number: 877-627-5463

2. COMPOSITION/INFORMATION ON INGREDIENTS

No. 2 Diesel is a complex mixture of paraffins, cycloparaffins, olefins, and aromatic hydrocarbons having hydrocarbon chain lengths predominately in the range of C11 through C20. May contain a trace amount of benzene (<0.01%). Can contain small amounts of red dye and additives (<0.15%) which are not considered hazardous at the concentrations used.

Note: May contain up to 5% Renewable Diesel, CASN 928771-01-1.

Product information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Marathon No. 2 Diesel	68476-30-2	100	Skin - potential significant contribution to overall exposure by the cutaneous route 100 mg/m ³ TWA		

Component Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Saturated Hydrocarbons	Mixture	54-85			

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Aromatic Hydrocarbons	Mixture	15-45			
Unsaturated Hydrocarbons	Mixture	1-6			
Naphthalene	91-20-3	0.01-0.5	Skin - potential significant contribution to overall exposure by the cutaneous route 10 ppm TWA 15 ppm STEL	= 10 ppm TWA = 50 mg/m ³ TWA = 15 ppm STEL = 75 mg/m ³ STEL	

Notes:

The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!

VAPORS, FUMES, OR MISTS MAY CAUSE RESPIRATORY TRACT IRRITATION
MAY BE HARMFUL OR FATAL IF SWALLOWED
MAY CAUSE LUNG DAMAGE
OVEREXPOSURE MAY CAUSE CNS DEPRESSION

MAY CAUSE CANCER BASED ON ANIMAL DATA
SEE TOXICOLOGICAL INFORMATION SECTION FOR MORE INFORMATION

COMBUSTIBLE LIQUID AND VAPOR
VAPOR MAY CAUSE FLASH FIRE
MATERIAL MAY ACCUMULATE STATIC CHARGE

STABLE

Inhalation:

Breathing high concentrations may be harmful.

May cause central nervous system depression or effects. Symptoms may include headache, excitation, euphoria, dizziness, incoordination, drowsiness, light-headedness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death, depending on the concentration and duration of exposure.

Overexposure to this material may cause systemic damage including target organ effects listed under "Toxicological Information."

Ingestion:

Swallowing this material may be harmful.

May cause irritation of the mouth, throat and gastrointestinal tract. Symptoms may include salivation, pain, nausea, vomiting and diarrhea.

Aspiration into lungs may cause chemical pneumonia and lung damage. Exposure may also cause central nervous system symptoms similar to those listed under "Inhalation" (see Inhalation section).

Skin contact:

Contact may cause reddening, itching and inflammation. Effects may become more serious with repeated or prolonged contact. Skin contact may cause harmful effects in other parts of the body.

Eye contact:

Contact may cause pain and severe reddening and inflammation of the conjunctiva. Effects may become more serious with repeated or prolonged contact.

Carcinogenic Evaluation:

Product information:

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Marathon No. 2 Diesel 68476-30-2	NE			

Notes:

The International Agency for Research on Cancer (IARC) has determined that there is inadequate evidence for the carcinogenicity of diesel fuel/fuel oil in humans. IARC determined that there was limited evidence for the carcinogenicity of marine diesel fuel in animals. Distillate (light) diesel fuels were not classifiable as to their carcinogenicity to humans (Group 3A).

IARC has determined that there is sufficient evidence for the carcinogenicity in experimental animals of diesel engine exhaust and extracts of diesel engine exhaust particles. IARC determined that there is only limited evidence for the carcinogenicity in humans of diesel engine exhaust. However, IARC's overall evaluation has resulted in the IARC designation of diesel engine exhaust as probably carcinogenic to humans (Group 2A) because of the presence of certain engine exhaust components.

The International Agency for Research on Cancer (IARC) has also determined that there is sufficient evidence for the carcinogenicity in experimental animals of light and heavy vacuum distillates, of light and heavy catalytically cracked distillates and of cracked residues (including heavy thermocracked distillates/residues) derived from the refining of crude oil.

Component Information:

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Naphthalene 91-20-3	Monograph 82 [2002]	Reasonably Anticipated To Be A Human Carcinogen male rat-clear evidence; female rat-clear evidence; male mice-no evidence; female mice-some evidence	A4 - Not Classifiable as a Human Carcinogen	Present

Notes:

The International Agency for Research on Cancer (IARC) and the Environmental Protection Agency (EPA) have determined that naphthalene is a possible human carcinogen.

4. FIRST AID MEASURES

Eye Contact:

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. GET IMMEDIATE MEDICAL ATTENTION.

Skin Contact:

Immediately wash exposed skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention if irritation persists. Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous properties.

Ingestion:

Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

Inhalation:

Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear and give oxygen. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

NOTES TO PHYSICIAN:

INGESTION: If ingested this material represents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended.

Medical Conditions Aggravated By Exposure:

skin,

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

For small fires, Class B fire extinguishing media such as CO₂, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Specific hazards:

This product has been determined to be a combustible liquid per the OSHA Hazard Communication Standard and should be handled accordingly. For additional fire related information, see NFPA 30 or the North American Emergency Response Guide 128.

Special protective equipment for firefighters:

Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Keep run-off water out of sewers and water sources.

Flash point:

130-190 F

Autoignition temperature:

637 F

Flammable limits in air - lower (%):

0.7

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Dyed 500 ppm Sulfur Max

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5. FIRE FIGHTING MEASURES

Flammable limits in air - upper (%): 5.0

NFPA rating:

Health: 1
Flammability: 2
Instability: 1
Other: -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all ignition sources. Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate. Contain liquid with sand or soil. Recover and return free product to proper containers. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

7. HANDLING AND STORAGE

Handling:

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues.

Avoid repeated and prolonged skin contact. Never siphon this product by mouth. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Engineering measures: Local or general exhaust required when using at elevated temperatures that generate vapors or mists.

Respiratory protection: Use approved organic vapor chemical cartridge or supplied air respirators when material produces vapors that exceed permissible limits or excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 1910.134. Self-contained breathing apparatus should be used for fire fighting.

Skin and body protection: Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride and polyurethane gloves to prevent skin contact.

Eye protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields.

Hygiene measures: No special protective clothing is normally required. Select protective clothing depending on industrial operations. Use mechanical ventilation equipment that is explosion-proof.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Red Liquid

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Product name: Marathon No. 2 Low Sulfur Diesel
Dyed 500 ppm Sulfur Max

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state (Solid/Liquid/Gas):	Liquid
Substance type (Pure/Mixture):	Mixture
Color:	Red
Odor:	Slight Hydrocarbon
Molecular weight:	180
pH:	Neutral
Boiling point/range (5-95%):	400-640 F
Melting point/range:	Not determined.
Decomposition temperature:	Not applicable.
Specific gravity:	C.A. 0.8
Density:	6.76 lbs/gal
Bulk density:	No data available.
Vapor density:	4-5
Vapor pressure:	1-10 mm Hg @ 100 F
Evaporation rate:	No data available.
Solubility:	Negligible
Solubility in other solvents:	No data available.
Partition coefficient (n-octanol/water):	No data available.
VOC content(%):	10%
Viscosity:	1.9-3.4 @ 40 C

10. STABILITY AND REACTIVITY

Stability:	The material is stable at 70 F, 760 mm pressure.
Polymerization:	Will not occur.
Hazardous decomposition products:	Combustion produces carbon monoxide, aldehydes, aromatic and other hydrocarbons.
Materials to avoid:	Strong oxidizers such as nitrates, perchlorates, chlorine, fluorine.
Conditions to avoid:	Excessive heat, sources of ignition and open flames.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Product information:

Name	CAS Number	Inhalation:	Dermal:	Oral:
Marathon No. 2 Diesel	68476-30-2	No data available	No data available	No data available

Toxicology Information:

MIDDLE DISTILLATES, PETROLEUM: Long-term repeated (lifetime) skin exposure to similar materials has been reported to result in an increase in skin tumors in laboratory rodents. The relevance of these findings to humans is not clear at this time.

MIDDLE DISTILLATES WITH CRACKED STOCKS: Light cracked distillates have been shown to be carcinogenic in animal tests and have tested positive with in vitro genotoxicity tests. Repeated dermal exposures to high concentrations in test animals resulted in reduced litter size and litter weight, and increased fetal resorptions at maternally toxic doses. Dermal exposure to high concentrations resulted in severe skin irritation with weight loss and some mortality. Inhalation exposure to high concentrations resulted in respiratory tract irritation, lung changes/infiltration/accumulation, and reduction in lung function.

ISOPARAFFINS: Studies in laboratory animals have shown that long-term exposure to similar materials (isoparaffins) can cause kidney damage and kidney cancer in male laboratory rats. However, in-depth research indicates that these findings are unique to the male rat, and that these effects are not relevant to humans.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with Glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

DIESEL EXHAUST: Chronic inhalation studies of whole diesel engine exhaust in mice and rats produced a significant increase in lung tumors. Combustion of kerosine and/or diesel fuels produces gases and particulates which include carbon monoxide, carbon dioxide, oxides of nitrogen and/or sulfur and hydrocarbons. Significant exposure to carbon monoxide vapors decreases the oxygen carrying capacity of the blood and may cause tissue hypoxia via formation of carboxyhemoglobin.

TARGET ORGANS:

central nervous system, skin, respiratory system, lungs, kidney, liver, thymus, reproductive organs,

12. ECOTOXICOLOGICAL INFORMATION

Mobility:

May partition into air, soil and water.

Ecotoxicity:

Toxic to aquatic organisms.

Bioaccumulation:

Not expected to bioaccumulate in aquatic organisms.

Persistence/Biodegradation:

Readily biodegradable in the environment.

13. DISPOSAL CONSIDERATIONS

Cleanup Considerations:

This product as produced is not specifically listed as an EPA RCRA hazardous waste according to federal regulations (40 CFR 261). However, when discarded or disposed of, it may meet the criteria of an "characteristic" hazardous waste. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

14. TRANSPORT INFORMATION

49 CFR 172.101:

DOT:

Transport Information: This material when transported via US commerce would be regulated by DOT Regulations.

Proper shipping name:	Fuel Oil, No. 2
UN/Identification No:	NA 1993
Hazard Class:	3
Packing group:	III
DOT reportable quantity (lbs):	Not applicable.

Proper shipping name:	Fuel Oil, No. 2
UN/Identification No:	NA 1993
Hazard Class:	3
Packing group:	III

15. REGULATORY INFORMATION

US Federal Regulatory Information:

MSDS ID NO.: 0279MAR019

Product name: Marathon No. 2 Low Sulfur Diesel
Dyed 500 ppm Sulfur Max

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US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard:

This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302: This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Saturated Hydrocarbons	NA
Aromatic Hydrocarbons	NA
Unsaturated Hydrocarbons	NA
Naphthalene	NA

SARA Section 304: This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Saturated Hydrocarbons	NA
Aromatic Hydrocarbons	NA
Unsaturated Hydrocarbons	NA
Naphthalene	= 100 lb final RQ = 45.4 kg final RQ

SARA Section 311/312

The following EPA hazard categories apply to this product:

- Acute Health Hazard
- Fire Hazard
- Chronic Health Hazard

SARA Section 313:

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Saturated Hydrocarbons	None
Aromatic Hydrocarbons	None
Unsaturated Hydrocarbons	None
Naphthalene	= 0.1 % de minimis concentration

State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Saturated Hydrocarbons

- Louisiana Right-To-Know: Not Listed
- California Proposition 65: Not Listed
- New Jersey Right-To-Know: Not Listed.
- Pennsylvania Right-To-Know: Not Listed.
- Massachusetts Right-To Know: Not Listed.
- Florida substance List: Not Listed.
- Rhode Island Right-To-Know: Not Listed
- Michigan critical materials register list: Not Listed.

Saturated Hydrocarbons

Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Aromatic Hydrocarbons

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Unsaturated Hydrocarbons

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Naphthalene

Louisiana Right-To-Know:	Not Listed
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Saturated Hydrocarbons

California Proposition 65:	carcinogen, initial date 4/19/02
New Jersey Right-To-Know:	sn 1322
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	carcinogen
New Jersey - Environmental Hazardous Substances List:	SN 1322 TPQ 500 lb
Illinois - Toxic Air Contaminants	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	= 1 lb RQ land/water = 100 lb RQ air

Canadian Regulatory Information:

Canada DSL/NDL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Naphthalene	B4, D2A	1 %

NOTE: Not Applicable.

16. OTHER INFORMATION

Additional Information: No data available.

Prepared by: Mark S. Swanson, Manager, Toxicology and Product Safety

The information and recommendations contained herein are based upon tests believed to be reliable. However, Marathon Petroleum Company LP (MPC) does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. MPC assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

End of Safety Data Sheet

Attachment O: Emissions Summary Sheets

**Other Supporting Documentation not Described
Above (Equipment Drawings, Aggregation Discussion,
Etc.)**

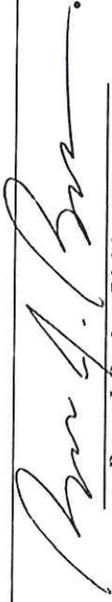


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2015 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Caterpillar Inc.**
(U.S. Manufacturer or Importer)
Certificate Number: **FCPXL32.0NZS-006**

Effective Date:
07/01/2014
Expiration Date:
12/31/2015


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
07/01/2014
Revision Date:
N/A

Model Year: 2015
Manufacturer Type: Original Engine Manufacturer
Engine Family: FCPXL32.0NZS

Mobile/Stationary Indicator: Stationary
Emissions Power Category: 560<KW<=2237
Fuel Type: Diesel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: Electronic Control, Engine Design Modification

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, 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 engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-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 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 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 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 60.

This certificate does not cover 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.

Diesel Generator Set

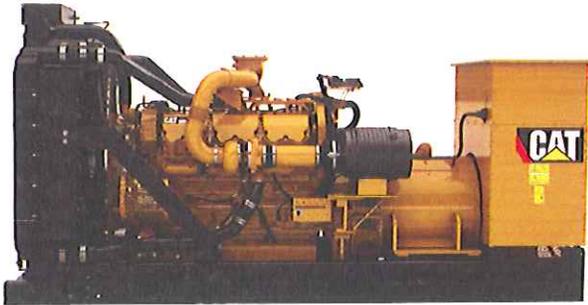


Image shown may not reflect actual package

MISSION CRITICAL 1000 ekW 1250 kVA 60 Hz 1800 rpm 480 Volts

Caterpillar is leading the power generation market place with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

FUEL/EMISSIONS STRATEGY

- EPA Certified for Stationary Emergency Application (EPA Tier 2 emissions levels)

DESIGN CRITERIA

- The generator set accepts 100% rated load in one step per NFPA 110 and meets ISO 8528-5 transient response.

UL 2200

- UL 2200 packages available. Certain restrictions may apply. Consult with your Cat® dealer.

FULL RANGE OF ATTACHMENTS

- Wide range of bolt-on system expansion attachments, factory designed and tested
- Flexible packaging options for easy and cost effective installation

SINGLE-SOURCE SUPPLIER

- Fully prototype tested with certified torsional vibration analysis available

WORLDWIDE PRODUCT SUPPORT

- Cat dealers provide extensive post sale support including maintenance and repair agreements
- Cat dealers have over 1,800 dealer branch stores operating in 200 countries.
- The Cat S•O•SSM program effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by products.

CAT C32 ATAAC DIESEL ENGINE

- Utilizes ACERT™ Technology
- Reliable, rugged, durable design
- Four-stroke diesel engine combines consistent performance and excellent fuel economy with minimum weight

CAT GENERATOR

- Matched to the performance and output characteristics of Cat engines
- Single point access to accessory connections
- UL 1446 Recognized Class H insulation

CAT EMCP 4 CONTROL PANELS

- Simple user friendly interface and navigation
- Scalable system to meet a wide range of customer needs
- Integrated Control System and Communications Gateway

SEISMIC CERTIFICATION*

- Seismic Certification available
 - Anchoring details are site specific, and are dependent on many factors such as generator set size, weight, and concrete strength. IBC Certification requires that the anchoring system used is reviewed and approved by a Professional Engineer
 - Seismic Certification per Applicable Building Codes: IBC 2000, IBC 2003, IBC 2006, IBC 2009, IBC 2012, CBC 2007, CBC 2010
- *Not available with some options – Consult with your Cat dealer.

MISSION CRITICAL 1000 eKW 1250 kVA
60 Hz 1800 rpm 480 Volts



Factory Installed Standard & Optional Equipment

System	Standard	Optional
Air Inlet	<ul style="list-style-type: none"> • Single element canister type air cleaner with service indicator 	<ul style="list-style-type: none"> <input type="checkbox"/> Dual element air cleaners
Cooling	<ul style="list-style-type: none"> • Package mounted radiator 	
Exhaust	<ul style="list-style-type: none"> • Exhaust flange outlet 	<ul style="list-style-type: none"> <input type="checkbox"/> Mufflers
Fuel	<ul style="list-style-type: none"> • Secondary fuel filters • Fuel cooler • Fuel priming pump 	
Generator	<ul style="list-style-type: none"> • Matched to the performance and output characteristics of Cat engines 	<ul style="list-style-type: none"> <input type="checkbox"/> Oversize & premium generators <input type="checkbox"/> Permanent magnet excitation (PMG) <input type="checkbox"/> Internal excitation (IE) <input type="checkbox"/> Winding temperature detectors <input type="checkbox"/> Anti-condensation space heaters
Power Termination	<ul style="list-style-type: none"> • Bus bar 	<ul style="list-style-type: none"> <input type="checkbox"/> Circuit breakers, UL listed <input type="checkbox"/> Circuit breakers, IEC listed <input type="checkbox"/> Bottom cable entry <input type="checkbox"/> Right, left, and/or rear power termination
Governor	<ul style="list-style-type: none"> • ADEM™ A4 	<ul style="list-style-type: none"> <input type="checkbox"/> Load share module
Control Panel	<ul style="list-style-type: none"> • EMCP 4 	<ul style="list-style-type: none"> <input type="checkbox"/> EMCP 4.2 <input type="checkbox"/> EMCP 4.3 <input type="checkbox"/> EMCP 4.4 <input type="checkbox"/> Local & remote annunciator modules <input type="checkbox"/> Digital I/O Module <input type="checkbox"/> Generator temperature monitoring & protection
Mounting		<ul style="list-style-type: none"> <input type="checkbox"/> Rubber vibration isolators <input type="checkbox"/> Spring type vibration isolator <input type="checkbox"/> IBC seismic isolators
Starting / Charging	<ul style="list-style-type: none"> • 24 volt starting motor(s) • Battery disconnect switch 	<ul style="list-style-type: none"> <input type="checkbox"/> Battery charger <input type="checkbox"/> Charging alternator <input type="checkbox"/> Batteries with rack <input type="checkbox"/> Oversize batteries <input type="checkbox"/> Heavy duty starting motors <input type="checkbox"/> Barring device (manual) <input type="checkbox"/> Jacket water heater
General	<ul style="list-style-type: none"> • Paint – Caterpillar Yellow except rails and radiators gloss black 	<ul style="list-style-type: none"> <input type="checkbox"/> UL 2200 listed <input type="checkbox"/> CSA Certification <input type="checkbox"/> Sound attenuated enclosure <input type="checkbox"/> 12 hour sub base fuel tank <input type="checkbox"/> 24 hour sub base fuel tank <input type="checkbox"/> 48 hour sub base fuel tank <input type="checkbox"/> Seismic Certification per Applicable Building Codes: IBC 2000, IBC 2003, IBC 2006, IBC 2009, IBC 2012, CBC 2007, CBC 2010