

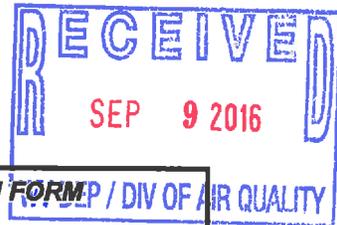
**From:** scotty@gogreencmr.com  
**Sent:** Friday, September 02, 2016 5:55 PM  
**To:** Beverly.d.mckeone@wv.gov  
**Cc:** Smith, Patrick  
**Subject:** Screening Permit  
**Attachments:** PDF GOGREEN Coke Screen at MSC 2016 08 (1).pdf



Attached is a copy of the permit for your review.

Thank You Scotty Ewusiak

Scotty Ewusiak  
**Go Green America Recycling**  
**Trimodal Terminal**  
**Amerilube Oil Change Centers**  
[gogreencmr.com](http://gogreencmr.com)  
Office 304-914-4624  
Cell 304-670-6003  
[scottyewusiak@yahoo.com](mailto:scottyewusiak@yahoo.com)



 <p>WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 57<sup>th</sup> Street, SE Charleston, WV 25304 Phone: (304) 926-0475 www.dep.wv.gov/daq</p>		<p align="center"><b>PERMIT DETERMINATION FORM</b> (PDF)</p>	
		<p>FOR AGENCY USE ONLY: PLANT I.D. # _____</p>	
		<p>PDF # _____ PERMIT WRITER: _____</p>	
<p>1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE): <b>GO-GREEN (screening operation to be operated at Mountain State Carbon LLC, Follansbee, WV)</b></p>			
<p>2. NAME OF FACILITY (IF DIFFERENT FROM ABOVE): <b>same</b></p>		<p>3. NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) CODE: <b>238910</b></p>	
<p>4A. MAILING ADDRESS: <b>1851 Main Street Follansbee, WV 26037</b></p>		<p>4B. PHYSICAL ADDRESS: <b>1851 Main Street Follansbee, Brooke County, WV 26037</b></p>	
<p>5A. DIRECTIONS TO FACILITY (PLEASE PROVIDE MAP AS ATTACHMENT A): <b>Mountain State Carbon Follansbee Plant is located one mile north of Follansbee on West Virginia Route 2 along the eastern bank of the Ohio River.</b></p>			
<p>5B. NEAREST ROAD: <b>West Virginia Route 2</b></p>	<p>5C. NEAREST CITY OR TOWN: <b>Follansbee</b></p>	<p>5D. COUNTY: <b>Brooke</b></p>	
<p>5E. UTM NORTHING (KM): <b>4465.76</b></p>	<p>5F. UTM EASTING (KM): <b>533.41</b></p>	<p>5G. UTM ZONE: <b>17</b></p>	
<p>6A. INDIVIDUAL TO CONTACT IF MORE INFORMATION IS REQUIRED: <b>Carl Ewusiak</b></p>		<p>6B. TITLE: <b>Managing Member</b></p>	
<p>6C. TELEPHONE: <b>304-670-6003</b></p>	<p>6D. FAX: <b>304-914-4625</b></p>	<p>6E. E-MAIL: <b>scotty@gogreencmr.com</b></p>	
<p>7A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY ONLY): <b>No plant ID for GoGreen (MSC 03-54-00900002)</b></p>		<p>7B. PLEASE LIST ALL CURRENT 45CSR13, 45CSR14, 45CSR19 AND/OR TITLE V (45CSR30) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR AN EXISTING FACILITY ONLY): <b>Not applicable</b></p>	
<p>7C. IS THIS PDF BEING SUBMITTED AS THE RESULT OF AN ENFORCEMENT ACTION? IF YES, PLEASE LIST: <b>No</b></p>			
<p>8A. TYPE OF EMISSION SOURCE (CHECK ONE): <input checked="" type="checkbox"/> <b>NEW SOURCE</b>    <input type="checkbox"/> <b>ADMINISTRATIVE UPDATE</b> <input type="checkbox"/> <b>MODIFICATION</b>    <input type="checkbox"/> <b>OTHER (PLEASE EXPLAIN IN 11B)</b></p>		<p>8B. IF ADMINISTRATIVE UPDATE, DOES DAQ HAVE THE APPLICANT'S CONSENT TO UPDATE THE EXISTING PERMIT WITH THE INFORMATION CONTAINED HEREIN? <input type="checkbox"/> <b>YES</b>    <input checked="" type="checkbox"/> <b>NO</b></p>	
<p>9. IS <i>DEMOLITION</i> OR <i>PHYSICAL RENOVATION</i> AT AN EXISTING FACILITY INVOLVED?    <input type="checkbox"/> <b>YES</b>    <input checked="" type="checkbox"/> <b>NO</b></p>			
<p>10A. DATE OF ANTICIPATED INSTALLATION OR CHANGE: <b>September 9, 2016</b></p>		<p>10B. DATE OF ANTICIPATED START-UP: <b>September 9, 2016</b></p>	
<p>11A. PLEASE PROVIDE A <b>DETAILED PROCESS FLOW DIAGRAM</b> SHOWING EACH PROPOSED OR MODIFIED PROCESS EMISSION POINT AS <b>ATTACHMENT B</b>.</p>			
<p>11B. PLEASE PROVIDE A <b>DETAILED PROCESS DESCRIPTION</b> AS <b>ATTACHMENT C</b>.</p>			
<p>12. PLEASE PROVIDE <b>MATERIAL SAFETY DATA SHEETS (MSDS)</b> FOR ALL MATERIALS PROCESSED, USED OR PRODUCED AS <b>ATTACHMENT D</b>. FOR CHEMICAL PROCESSE, PLEASE PROVIDE A MSDS FOR EACH COMPOUND EMITTED TO AIR.</p>			

**13A. REGULATED AIR POLLUTANT EMISSIONS:**

⇒ **FOR A NEW FACILITY**, PLEASE PROVIDE PLANT WIDE EMISSIONS BASED ON THE POTENTIAL TO EMIT (PTE) FOR THE FOLLOWING AIR POLLUTANTS INCLUDING ALL PROCESSES.

⇒ **FOR AN EXISTING FACILITY**, PLEASE PROVIDE THE PROPOSED CHANGE IN EMISSIONS BASED ON THE PTE OF ALL PROCESS CHANGES FOR THE FOLLOWING AIR POLLUTANTS.

PTE FOR A GIVEN POLLUTANT IS TYPICALLY BEFORE AIR POLLUTION CONTROL DEVICES AND IS COLLECTED BASED ON THE MAXIMUM DESIGN CAPACITY OF PROCESS EQUIPMENT.

POLLUTANT	HOURLY PTE (LB/HR)	YEARLY PTE (TON/YR) (HOURLY PTE MULTIPLIED BY 8760 HR/YR) DIVIDED BY 2000 LB/TON
PM	2.22	9.72
PM <sub>10</sub>	1.18	5.17
VOCs	0.256	1.12
CO	0.565	2.48
NO <sub>x</sub>	1.29	5.7
SO <sub>2</sub>	0.173	0.756
Pb	0	0
HAPs (AGGREGATE AMOUNT)	0	0
TAPs (INDIVIDUALLY)*	0	0
CO <sub>2</sub> (INDIVIDUALLY)	0	0

\* ATTACH ADDITIONAL PAGES AS NEEDED

**13B. PLEASE PROVIDE ALL SUPPORTING CALCULATIONS AS ATTACHMENT E.**

CALCULATE AN HOURLY AND YEARLY PTE OF EACH PROCESS EMISSION POINT (SHOWN IN YOUR DETAILED PROCESS FLOW DIAGRAM) FOR ALL AIR POLLUTANTS LISTED ABOVE INCLUDING INDIVIDUAL HAP'S (LISTED IN SECTION 112[b] OF THE 1990 CAAA), TAP'S (LISTED IN 45CSR27), AND OTHER AIR POLLUTANTS (E.G. POLLUTANTS LISTED IN TABLE 45-13A OF 45CSR13, MINERAL ACIDS PER 45CSR7, ETC.).

**14. CERTIFICATION OF DATA**

I, CARL SC. EWOSIAK (TYPE NAME) ATTEST THAT ALL THE REPRESENTATIONS CONTAINED IN THIS APPLICATION, OR APPENDED HERETO, ARE TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE BASED ON INFORMATION AND BELIEF AFTER REASONABLE INQUIRY, AND THAT I AM A **RESPONSIBLE OFFICIAL**\*\* (PRESIDENT, VICE PRESIDENT, SECRETARY OR TREASURER, GENERAL PARTNER OR SOLE PROPRIETOR) OF THE APPLICANT.

SIGNATURE OF RESPONSIBLE OFFICIAL: Carl S. Ewok

TITLE: Managing Member

DATE: 8 / 30 / 2016

\*\* THE DEFINITION OF THE PHRASE 'RESPONSIBLE OFFICIAL' CAN BE FOUND AT 45CSR13, SECTION 2.23.

**NOTE:** PLEASE CHECK ENCLOSED ATTACHMENTS:

ATTACHMENT A    ATTACHMENT B    ATTACHMENT C    ATTACHMENT D    ATTACHMENT E

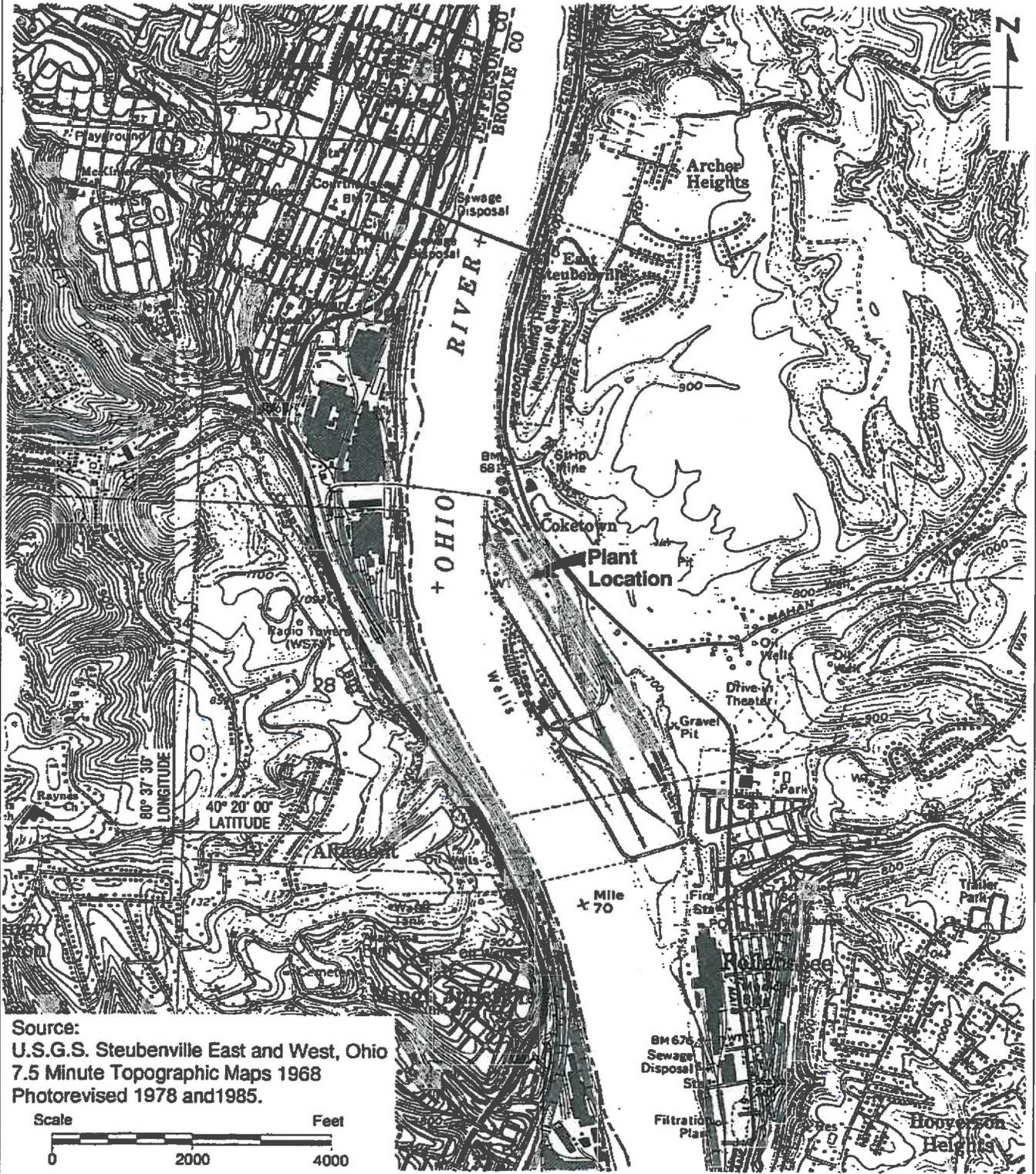
RECORDS ON ALL CHANGES ARE REQUIRED TO BE KEPT AND MAINTAINED ON-SITE FOR TWO (2) YEARS.

THE PERMIT DETERMINATION FORM WITH THE INSTRUCTIONS CAN BE FOUND ON DAQ'S PERMITTING SECTION WEB SITE:

[www.dep.wv.gov/daq](http://www.dep.wv.gov/daq)

**Attachment A**

**Facility Map**



Source:  
 U.S.G.S. Steubenville East and West, Ohio  
 7.5 Minute Topographic Maps 1968  
 Photorevised 1978 and 1985.

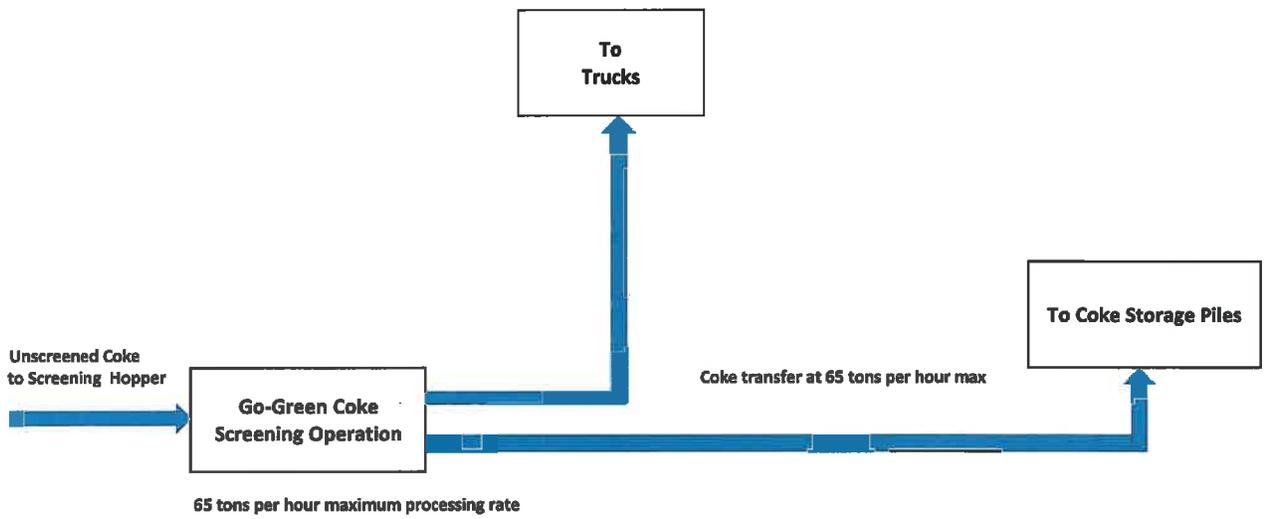


Mountain State Carbon, LLC Follansbee, West Virginia			
TITLE Attachment A: Topographic Map			
PREPARED BY QSEM SOLUTIONS, INC.			
DATE July 2014			
PROJECT 2041.012.00	DRAWING Topo Map	SHEET 1 of 1	REV 001

**Attachment B**

**Process Flow Diagram**

**GO-GREEN COKE SCREEN AT MSC LLC**  
**Attachment B - Permit Determination**



→ Material Flow

GOGREEN (AT MSC FOLLANSBEE, WV) Follansbee, West Virginia			
TITLE Proposed New GO-GREEN Coke Screen			
PREPARED BY QSEM SOLUTIONS, INC.			
DATE August 2016			
PROJECT 2041.027B GM	DRAWING GOGREEN COKE SCREEN	SHEET 1 of 1	REV 001

## Attachment C

Permit Determination Form: Go-Green Mobile Coke Screen  
September 2016  
Process Description

Go-Green will install a mobile coke screen unit to manage 4-inch plus size coke for distribution to customers. The mobile screening unit will handle coke material at a rate of less than 65 tons per hour, to typically four trucks per day. The primary intention of this process is to 'rescreen' stored coke for final shipment, to remove less than desired size material that resulted from storage. An electric powered conveyor will remove the 4-inch plus material directly to truck for transport over public road. The diesel-powered engine drives the screening and belt which removes smaller materials. The unit will be periodically moved from location to location on an as-needed basis to manage the coke.

Particulate matter emissions will be generated from material handling as summarized in Attachment E. Minor emissions will also be generated from the 85 horsepower internal combustion engine, fueled by diesel fuel. Total emissions from the process are well below six pounds of PM per hour.

No new applicable requirements will be triggered as a result of the project. Federal regulations for stationary reciprocating internal combustion engines including the RICE MACT under 40 CFR Part 63, subpart ZZZZ and the New Source Performance Standards (NSPS) under 40 CFR Part 60, subpart IIII do not apply to the unit since the unit is defined as a non-road engine according to the applicable MACT and NSPS rules and 40 CFR Part 1068. Therefore, since the unit meets the definition of a non-road engine and is not a stationary internal combustion engine, MACT subpart ZZZZ and NSPS subpart IIII does not apply to the unit.

## Attachment E

### Permit Determination Form

Air Emissions Calculations for Go-Green Mobile Coke Screen

to be located at Mountain State Carbon, LLC

Follansbee, WV

September 2016

Go-Green is requesting authorization from the West Virginia Department of Environmental Protection (WV DEP) Division of Air Quality (DAQ) to install a new mobile coke screen at Mountain State Carbon, LLC in Follansbee, WV. Air emissions from the project are from coke screening and material transfer operations, including an internal combustion engine used to power the screens and conveyance equipment.

Air emissions are generated from coke material handling operations including transfer points. Minor air emissions are also generated from the diesel fuel-fired internal combustion engine that drives the belts for moving the conveyors and screens. Emissions of all criteria pollutants are below 6 lbs/hr; and no HAPs are emitted from the process.

#### Assumptions:

- A maximum of 65 tons per hour will be handled.
- Several material drop points are anticipated and emissions from each drop point are estimated using AP-42 emissions factors as provided in the application.
- No new applicable requirements will be triggered, including RICE MACT and NSPS for the 85 HP engine, since the screen is a non-road engine, mobile unit, and will be periodically moved from location to location.

GO-GREEN MOBILE COKE SCREENING AND MATERIAL HANDLING AT MSC - SEPTEMBER 2016

TPH

Max Throughput, Tons per Hour: 65  
 Annual Throughput, Tons per Year: 142350  
 Estimated Operating Hours, Hours per year: 2190

Emissions Unit	Throughput Rate (tph)	Hours Est. per year	Production (tpy)	PM E.F. (lbs/ton) <sup>(1,2,3)</sup>	PM (lbs/hr)	PM (tons/yr)	PM10 E.F. (lbs/ton) <sup>(1,2)</sup>	PM10 (lbs/hr)	PM10 (tons/yr)	PM2.5 E.F. (lbs/ton) <sup>(1,2)</sup>	PM2.5 (lbs/hr)	PM2.5 (tons/yr)
Frontend Loader to Coke Screening Feed Hopper	65	2190	142,350	1.34E-03	0.09	0.096	6.35E-04	0.0413	0.045	9.61E-05	0.006	0.007
Hopper to Top Conveyor	65	2190	142,350	1.34E-03	0.09	0.096	6.35E-04	0.0413	0.045	9.61E-05	0.006	0.007
Top Conveyor Deck Screen	65	2190	142,350	1.34E-03	0.09	0.096	6.35E-04	0.0413	0.045	9.61E-05	0.006	0.007
Deck Screen	65	2190	142,350	2.20E-02	1.43	1.566	1.10E-02	0.7150	0.783	3.30E-03	0.215	0.235
Deck Screen to Conveyor 02	65	2190	142,350	1.34E-03	0.09	0.096	6.35E-04	0.0413	0.045	9.61E-05	0.006	0.007
Conveyor 02 to Pile	65	2190	142,350	1.34E-03	0.09	0.096	6.35E-04	0.0413	0.045	9.61E-05	0.006	0.007
Conveyor 02 to Trucks	65	2190	142,350	1.34E-03	0.09	0.096	6.35E-04	0.0413	0.045	9.61E-05	0.006	0.007
Miscellaneous Material Handling	65	2190	142,350	1.34E-03	0.09	0.096	6.35E-04	0.0413	0.045	9.61E-05	0.006	0.007
TOTAL					2.04	2.235			1.099			0.283

(1) PM E.F. is Particulate Matter Emissions Factor for Coke Screening is based on AP-42 Table 12.2-18 (0.022 lbs/ton); and 50% PM10 and 15% PM2.5 size distribution is estimated based on Table 12.2-19  
 (2) PM E.F. is Particulate Matter Emissions Factor for material transfers is based on AP-42 Table 13.2.4.3 (accounting for moisture, silt content, and particle size distribution).  
 (3) PM emissions from internal combustion engines that energize the screen system are negligible and not included here.

GO-GREEN SCREEN  
 Mountain State Carbon LLC  
 September 2016  
 POTENTIAL TO EMIT <sup>(1)</sup>

Source	Potential Hours Per Yr	HP Rating	Btu Rating MMBtu/yr	Fuel Type Activity Units	Activity Fuel Type	NOx Factor (lb/unit)	NOx (lb/hr)	NOx (ton/yr)	CO factor (lb/unit)	CO (lb/hr)	CO (ton/yr)	PM Factor (lb/unit)	PM (lb/hr)	PM (ton/yr)	VOC Factor (lb/unit)	VOC (lb/hr)	VOC (ton/yr)	SOx factor (lb/unit)	SOx (lb/hr)	SOx (ton/yr)
Internal Combustion Engines - Diesel Fuel-fired Units (Compression Ignition)																				
Go-Green	8760	85	0.595	MMBtu	oil	2.17	1.29	5.7	0.95	0.565	2.48	0.310	0.184	0.808	0.43	0.256	1.121	0.28	0.173	0.756

(1) Emissions from these engines are based on AP-42 emission factors for Internal Combustion Engines (Section 3.3) Table 3.3-1, except NOx which is from Table 1 of NSPS Subpart III (Part 60) of 6.9 g/HP-hr which equates to 2.17 lbs NOx/MMBtu.