

PCP050001

New Jersey Department of Environmental Protection  
 Facility Specific Requirements

**Emission Unit:** U1 Engines Firing Landfill Gas (2)  
 PT1 Engine No. 1 stack, PT2 Engine No. 2 stack

**Subject Item:**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No changes to the approved stack shall be made without prior approval from the Department, unless such change constitutes a seven-day-notice change pursuant to N.J.A.C. 7:27-8.20(b) or amendment pursuant to N.J.A.C. 7:27-8.21(b) and the permittee has complied with the appropriate seven-day-notice or amendments provisions of N.J.A.C. 7:27-8.20 and N.J.A.C. 7:27-8.21. [N.J.A.C. 7:27- 8.3(a)]	None.	None.	None.
2	Distance from Stack to Nearest Property Line $\geq$ 1,000 Feet. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
3	Stack Height Above Ground $\geq$ 35 Feet. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
4	Equivalent Flue Diameter at Stack Exit $\leq$ 20 inches. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
5	Stack Gas Discharge Temperature $\geq$ 68 degrees F. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
6	Volume of Gas Discharged at Stack Conditions $\leq$ 14,771 ACFM. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
7	Emissions from the source shall be vented to the atmosphere upward through the approved stack. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.

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**Emission Unit:** U1 Engines Firing Landfill Gas (2)  
 E1 Engine No. 1 Firing LFG, E2 Engine No. 2 Firing LFG

**Subject Item:**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Power output < 2677 bhp (1.91 MW electric) [N.J.A.C. 7:27- 8.13(d)h]	Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27- 8.13(d)1]		
2	Maximum Gross Heat Input <= 20.5 MMBTU/hr (HHV). [N.J.A.C. 7:27- 8.13(h)]	Maximum Gross Heat Input: Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27- 8.13(a)]		
3	Opacity <= 10 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 8.12]	Opacity: Monitored by visual determination once initially and prior to permit renewal at the time of stack emissions testing pursuant to Reference 6. [N.J.A.C. 7:27- 8.13(d)1]	Opacity: Recordkeeping by stack test results once initially and prior to permit renewal. All records created in a calendar year shall be maintained on site for five additional calendar years, and made available to the Department for review, upon request. [N.J.A.C. 7:27- 3.6]	Submit a report: Within 60 days of stack testing. [N.J.A.C. 7:27- 8.13(D)2]
4	The permittee shall annually adjust combustion process as specified at N.J.A.C. 7:27-16.24 [N.J.A.C. 7:27-16.10(e)]		Recordkeeping by manual logging of parameter upon occurrence of event. [N.J.A.C. 7:27-19.16(c)]	
5	The permittee shall submit a stack test protocol to the Department (BTS) for review and approval. The stack test shall be conducted for the Equipment E1 and E2 for the following air pollutants: TSP, VOC, SO2, NOx, CO, VOC/NMOC destruction efficiency or VOC/NMOC concentration in ppmv and opacity. [N.J.A.C. 7:27- 8.4(f)1]	None.	None.	Submit a stack test protocol: Within 60 days from the date of the approved permit to the Department for review and approval. For an extension of a stack test protocol submittal date, the permittee shall request, with justification, approval prior to the due date, in writing, from the Regional Enforcement Office. The extension of the stack test protocol submittal date if approved by the Regional Enforcement Office prior to the due date would not constitute a permit revision. [N.J.A.C. 7:27- 8.4(f)1]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The permittee shall conduct a stack test using a protocol approved by the Department. [N.J.A.C. 7:27- 8.4(f)3]	None.	None.	Conduct a stack test: Within 180 days from the date of the approved permit or within 180 days of start-up, whichever date comes later. For an extension of a stack test performance date, the permittee shall request, with justification, approval prior to the due date, in writing, from the Regional Enforcement Office. The extension of the stack test performance date if approved by the Regional Enforcement Office prior to the due date would not constitute a permit revision. If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial start-up requires prior approval from US EPA. [N.J.A.C. 7:27- 8.13(d)1]

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New Jersey Department of Environmental Protection  
Facility Specific Requirements

Emission Unit: U1 Engines Firing Landfill Gas (2)

OS Summary

Operating Scenario:

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Fuel allowed to be used in the Engines is only the landfill gas collected and treated from the Warren County Landfill (WCLF) operating under SWF Permit no.LOP04-0002 issued by Division of Solid and Hazardous Waste [N.J.A.C. 7:27- 8.13(a)]			
2	Hours of Operation While Firing Other Gaseous Fuel <= 15,900 hr/yr total for two engines. Other gaseous fuel is defined in Reference 1 above. [N.J.A.C. 7:27- 8.13(h)]	Hours of Operation While Firing Other Gaseous Fuel: Monitored by hour/time monitor continuously, based on an instantaneous determination. [N.J.A.C. 7:27- 8.13(d)1]	Hours of Operation While Firing Other Gaseous Fuel: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The compliance shall be based on the use of data collected for previous 11 months and current month. [N.J.A.C. 7:27- 8.13(d)3]	
3	Landfill gas total flow to both engines < or =1,475.7 MM cubic feet per year. [N.J.A.C. 7:27- 8.13(h)]	Monitored by gas use totalizing meter continuously, based on an instantaneous determination. [N.J.A.C. 7:27- 8.13(h)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The compliance shall be based on the use of data collected for previous 11 months and current month. [N.J.A.C. 7:27- 8.13(d)3]	
4	H2S in Fuel <= 120 Parts per Million. [N.J.A.C. 7:27- 8.13(a)]	H2S in Fuel: Monitored by fuel sampling (e.g. gas) each month during operation allowed by BTS under protocol approval. Alternatively, compliance shall be determined from the analysis performed by the landfill gas analysis done by the WCLF under permit no. 85517/05-0001. [N.J.A.C. 7:27- 8.13(d)1]	H2S in Fuel: Recordkeeping by manual logging of parameter upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)3]	
5	The Engines shall be shutdown, if the landfill gas fuel quality is not conforming to the condition stipulated under U1 OSO Reference 4, above. [N.J.A.C. 7:27- 8.13(a)]	Monitored by review of fuel delivery records once per shift during operation, based on an instantaneous determination based on the operational status of the Sulfur Control Equipment/System operated by WCLF/PCFA. [N.J.A.C. 7:27- 8.13(d)1]		

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	TSP <= 8.85 tons/yr. [N.J.A.C. 7:27-8.13(h)]	TSP: Monitored by calculations each month during operation, based on a 12 calendar month period and using previous 11 months recorded data. [N.J.A.C. 7:27- 8.13(d)1]	TSP: Recordkeeping by manual logging of parameter upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)3]	
7	VOC (Total) <= 7.16 tons/yr. [N.J.A.C. 7:27- 8.13(h)]	VOC (Total): Monitored by calculations each month during operation, based on a 12 calendar month period and using previous 11 months recorded data. [N.J.A.C. 7:27- 8.13(d)1]	VOC (Total): Recordkeeping by manual logging of parameter upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)3]	
8	NOx (Total) <= 24.87 tons/yr. [N.J.A.C. 7:27- 8.13(h)]	NOx (Total): Monitored by calculations each month during operation, based on a 12 calendar month period and using previous 11 months recorded data. [N.J.A.C. 7:27- 8.13(d)2]	NOx (Total): Recordkeeping by manual logging of parameter upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)3]	
9	CO <= 98.53 tons/yr. [N.J.A.C. 7:27- 8.13(h)]	CO: Monitored by calculations each month during operation, based on a 12 calendar month period and using previous 11 months recorded data. [N.J.A.C. 7:27- 8.13(d)2]	CO: Recordkeeping by manual logging of parameter upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)3]	
10	Vinyl chloride <= 89.21 lb/yr. [N.J.A.C. 7:27- 8.13(a)]	Vinyl chloride: Monitored by calculations each month during operation, based on a 12 calendar month period and using previous 11 months recorded data and emission rate of 0.005 lb/hr per engine (stated in the application). [N.J.A.C. 7:27- 8.13(d)2]	Vinyl chloride: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)4]	
11	SO2 <= 18.31 tons/yr. [N.J.A.C. 7:27- 8.13(h)]	SO2: Monitored by calculations each month during operation, based on a 12 calendar month period and using previous 11 months recorded data. [N.J.A.C. 7:27- 8.13(d)2]	SO2: Recordkeeping by manual logging of parameter upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)3]	
12	The permittee shall submit stack emissions testing for air contaminants: TSP, CO, NOx, VOC, SO2 and opacity to BTS for review and approval, within 90 days of the approval of the permit or 60 days from the date of commissioning. Stack emissions testing shall be done within 60 days of the approval of the protocol by BTS. [N.J.A.C. 7:27- 8.13(a)]			

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New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Maximum No. of Billable Compliance Inspections <= 4 inspections over the life of the Operating Certificate. The permittee will be invoiced for a \$200 service fee per inspection pursuant to N.J.A.C. 7:27-8.6 after the periodic compliance inspection is conducted. [N.J.A.C. 7:27- 8.13(e)]	None.	None.	
14	Compliance with all applicable provisions of the of NSPS WWW, with respect to Landfill Gas to Energy plant shall be required as a condition of this permit. [40 CFR 60.752]			

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U1 Engines Firing Landfill Gas (2)

OS1 Engine No. 1 Firing LFG

**Operating Scenario:**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 1.11 lb/hr. [N.J.A.C. 7:27- 8.13(h)]	TSP: Monitored by stack emission testing once initially and every 5 years. [N.J.A.C. 7:27- 8.13(d)1]	TSP: Recordkeeping by manual logging of parameter once initially and every 5 years. [N.J.A.C. 7:27- 8.13(d)3]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)]
2	PM-10 (Total) <= 1.11 lb/hr. The Department may require stack emissions testing. [N.J.A.C. 7:27- 8.13(h)]	None.	None.	None.
3	VOC (Total) <= 0.9 lb/hr. [N.J.A.C. 7:27- 8.13(h)]	VOC (Total): Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. [N.J.A.C. 7:27- 8.13(d)1]	VOC (Total): Recordkeeping by stack test results once initially and every 5 years. [N.J.A.C. 7:27- 8.13(d)3]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)5]
4	VOC Control Efficiency <= 98 % or 20 ppmvd as hexane @ 3% O <sub>2</sub> . [N.J.A.C. 7:27- 8.12]	VOC Control Efficiency: Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. [N.J.A.C. 7:27- 8.13(d)1]	VOC Control Efficiency: Recordkeeping by stack test results once initially and every 5 years. [N.J.A.C. 7:27- 8.13(d)3]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)5]
5	NOx (Total) <= 0.53 grams/brake horsepower-hour. [N.J.A.C. 7:27- 8.13(h)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. [N.J.A.C. 7:27- 8.13(d)1]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years. [N.J.A.C. 7:27- 8.13(d)3]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)5]
6	NOx (Total) <= 3.13 lb/hr. [N.J.A.C. 7:27- 8.13(h)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. [N.J.A.C. 7:27- 8.13(d)1]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years. [N.J.A.C. 7:27- 8.13(d)3]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)5]
7	SO <sub>2</sub> <= 2.3 lb/hr. [N.J.A.C. 7:27- 8.13(h)]	SO <sub>2</sub> : Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. [N.J.A.C. 7:27- 8.13(d)1]	SO <sub>2</sub> : Recordkeeping by stack test results once initially and every 5 years. [N.J.A.C. 7:27- 8.13(d)3]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)5]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
8	CO <= 12.39 lb/hr. [N.J.A.C. 7:27- 8.13(h)]	CO: Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. [N.J.A.C. 7:27- 8.13(d)1]	CO: Recordkeeping by stack test results once initially and every 5 years. [N.J.A.C. 7:27- 8.13(d)3]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)5]
9	CO <= 2.1 grams/brake horsepower-hour (SOTA). [N.J.A.C. 7:27- 8.13(h)]	CO: Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. [N.J.A.C. 7:27- 8.13(h)]	CO: Recordkeeping by stack test results once initially and every 5 years. [N.J.A.C. 7:27- 8.d(3)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)5]
10	Oxygen > 6 %. [N.J.A.C. 7:27- 8.13(d)3]	Oxygen: Monitored by stack emission testing once initially and every 5 years, based on an instantaneous determination and using a portable flue gas monitor, monthly, based on an instantaneous determination. [N.J.A.C. 7:27- 8.13(h)]	Oxygen: Recordkeeping by stack test results once initially and every 5 years and by manual logging of portable emissions monitoring results upon occurrence of the event. [N.J.A.C. 7:27- 8.13(d)3]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. [N.J.A.C. 7:27- 8.4(f)5]



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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U1 Engines Firing Landfill Gas (2)

OS2 Engine No. 2 Firing LFG

**Operating Scenario:**

The requirements for this item are identical to those for: U1 OS1

New Jersey Department of Environmental Protection  
Reason for Application

Permit Being Modified

Permit Class:                      Number: 0

**Description of Modifications:** WC Landfill Energy, LLC (WCLE) is proposing to implement a Landfill Gas-to-Energy (LFGTE) project at the Warren County District Landfill (WCDL). The WCLE LFGTE facility will comprise of two reciprocating internal combustion engines. The engines will fire only LFG that has been collected and controlled via a network of extraction wells and piping owned and operated by the landfill.

Once construction on the LFGTE facility is complete, the primary method of LFG control will be by combustion in WCLE's engines. The LFG will be routed to two Jenbacher Energiesysteme AG (Jenbacher) JGS 616 GS-L.L internal combustion engines. The shaft power generated (2,677 brake horsepower (bhp) per engine) will be used to drive electrical generators to produce electricity on a continuous basis. The proposed LFGTE system will utilize the LFG to produce approximately 3.82 gross megawatts (MW) of electricity on a continuous basis. The LFG be routed to the landfill's flare when WCLE's engines are shutdown for maintenance.

New Jersey Department of Environmental Protection  
Facility Profile (General)

Facility Name (AIMS): WCLE LFG to Energy Plant

Facility ID (AIMS): 85517

Street 500 MT PISGAH AVE  
Address: OXFORD, NJ 07863

Mailing 500 MT PISGAH AVE  
Address: OXFORD, NJ 07863

County: Warren

Location  
Description:

State Plane Coordinates:

X-Coordinate: 350,505

Y-Coordinate: 723,555

Units: Feet

Datum: NAD83

Source Org.: DEP-GIS

Source Type: Digital Image

Industry:

Primary SIC: 4931

Secondary SIC:

NAICS:

New Jersey Department of Environmental Protection  
Facility Profile (General)

**Contact Type:** Consultant

**Organization:** Trinity Consultants

**Org. Type:** Corporation

**Name:** Christine Heath

**NJ EIN:**

**Title:** Senior Consultant

**Phone:** (973) 285-9977 x

**Mailing Address:** 4 Century Drive

**Fax:** (973) 285-9966 x

Suite 220

**Other:** ( ) - x

Parsippany, NJ 07054

**Type:**

**Email:** cheath@trinityconsultants.com

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**Contact Type:** General Contact

**Organization:** DCO Energy LLC

**Org. Type:** Corporation

**Name:** Donald Butler

**NJ EIN:** 00202502135

**Title:** Vice President

**Phone:** (609) 345-8455 x

**Mailing Address:** 17 Gordon's Alley

**Fax:** (609) 345-8452 x

Suite 100

**Other:** ( ) - x

Atlantic City, NJ 08401

**Type:**

**Email:** dbutler@dcoenergy.com

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**Contact Type:** Operator

**Organization:** DCO Energy LLC

**Org. Type:** Corporation

**Name:** FReiderick J. Eckert

**NJ EIN:** 00202502135

**Title:** Vice President

**Phone:** (609) 345-8455 x

**Mailing Address:** 17 Gordon's Alley

**Fax:** (609) 345-8452 x

Suite 100

**Other:** ( ) - x

Atlantic City, NJ 08401

**Type:**

**Email:** dbutler@dcoenergy.com

New Jersey Department of Environmental Protection  
Facility Profile (General)

Contact Type: Responsible Official

Organization: DCO Energy LLC

Org. Type: Corporation

Name: FReiderick J. Eckert

NJ EIN: 00202502135

Title: Vice President

Phone: (609) 345-8455 x

Mailing Address: 17 Gordon's Alley

Fax: (609) 345-8452 x

Suite 100

Other: ( ) - x

Atlantic City, NJ 08401

Type:

Email: dbutler@dcoenergy.com

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand-Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E1	Engine 1	Engine No. 1 Firing LFG	Stationary Reciprocating Engine		9/1/2005	No		
E2	Engine 2	Engine No. 2 Firing LFG	Stationary Reciprocating Engine		9/1/2005	No		

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New Jersey Department of Environmental Protection  
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
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WARREN CNTY DISTRICT LANDFILL LFG (85517)  
PCP050001

Date: 11/20/2013

New Jersey Department of Environmental Protection  
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	Engine1	Engine No. 1 stack	Round	20	35	1,000		68.0	873.0		0.0	14,771.0	Up	
PT2	Engine2	Engine No. 2 stack	Round	20	35	1,000		68.0	873.0		0.0	14,771.0	Up	



WARREN CNTY DISTRICT LANDFILL LFG (85517)

Date: 11/20/2013

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New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory

U 1 LFG Engines Engines Firing Landfill Gas (2)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper.		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Engine 1	Engine No. 1 Firing LFG	Normal - Steady State	E1		PT1	2-01-008-02	0.0	7,950.0		0.0	14,771.0	68.0	873.0
OS2	Engine 2	Engine No. 2 Firing LFG	Normal - Steady State	E2		PT2	2-01-008-02	0.0	7,950.0		0.0	14,771.0	68.0	873.0

Date: 11/20/2013

**New Jersey Department of Environmental Protection**  
**Subject Item Group Inventory**

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**New Jersey Department of Environmental Protection  
Potential to Emit**

Subject Item: U1 LFG Engines

Operating Scenario: OS0 Summary

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Acrylonitrile			0.06500000	0.06500000	tons/yr	No
CO			98.53000000	98.53000000	tons/yr	No
Hydrogen chloride			4.56000000	4.56000000	tons/yr	No
NOx (Total)			24.87000000	24.87000000	tons/yr	No
PM-10 (Total)			8.85000000	8.85000000	tons/yr	No
SO2			41.98000000	41.98000000	tons/yr	No
TSP			8.85000000	8.85000000	tons/yr	No
VOC (Total)			15.48000000	15.48000000	tons/yr	No
Vinyl chloride			0.04500000	0.04500000	tons/yr	No

Subject Item: U1 LFG Engines

Operating Scenario: OS1 Engine 1

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Acrylonitrile			0.00820000	0.00820000	lb/hr	No
CO			12.39000000	12.39000000	lb/hr	No
Hydrogen chloride			0.57000000	0.57000000	lb/hr	No
NOx (Total)			3.13000000	3.13000000	lb/hr	No
PM-10 (Total)			1.11000000	1.11000000	lb/hr	No
SO2			5.28000000	5.28000000	lb/hr	No
TSP			1.11000000	1.11000000	lb/hr	No
VOC (Total)			1.95000000	1.95000000	lb/hr	No
Vinyl chloride			0.00560000	0.00560000	lb/hr	No

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**New Jersey Department of Environmental Protection**  
**Potential to Emit**

Subject Item: U1 LFG Engines

Operating Scenario: OS2 Engine 2

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Acrylonitrile			0.00820000	0.00820000	lb/hr	No
CO			12.39000000	12.39000000	lb/hr	No
HAPs (Total)					lb/hr	No
Hydrogen chloride			0.57000000	0.57000000	lb/hr	No
NOx (Total)			3.13000000	3.13000000	lb/hr	No
PM-10 (Total)			1.11000000	1.11000000	lb/hr	No
Pb					lb/hr	No
SO2			5.28000000	5.28000000	lb/hr	No
TSP			1.11000000	1.11000000	lb/hr	No
VOC (Total)			1.95000000	1.95000000	lb/hr	No
Vinyl chloride			0.00560000	0.00560000	lb/hr	No