

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Streator Energy Partners, L.L.C.
 Attn: Dominic Antignano
 1420 Church Street, Unit D
 Bohemia, New York 11716

Application No.: 99090040 I.D. No.: 105822AAM
Applicant's Designation: Date Received: September 13, 1999
Subject: Landfill Gas Flare and Engines
Date Issued: February 7, 2003 Expiration Date: February 7, 2008
Location: R.R. #7, 2111 Coalville Road, Streator

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of landfill gas (LFG) collection system serving enclosed flare and two LFG burning engine/generators pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 100 tons/year of carbon monoxide (CO), 10 tons/year for a single hazardous air pollutant (HAP) and 25 tons/year for totaled HAPs). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
 - b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
 - c. This permit supersedes all operating permits issued for this location.
2. Operation and emissions of the landfill gas burning equipment shall not exceed the following limits:
- a. Flare: LFG Usage: 51 mmscf/mo, 157 mmscf/yr

<u>Pollutant</u>	<u>Emission Factor (lb/mmscf)</u>	<u>Control Efficiency (Wt.%)</u>	<u>Emissions (Ton/Mo)(Ton/Yr)</u>	
Carbon Monoxide (CO)	150	--	3.8	11.8
Nitrogen Oxides (NO _x)	30	--	0.8	2.4
Volatile Organic Materials (VOM)	133	98	0.07	0.2
Sulfur Dioxide (SO ₂)	8	--	0.2	0.6
Hydrogen Chloride (HCl)	12	-	0.3	0.9
Particulate Matter (PM)	9	--	0.2	0.7

- b. Engine/Generators: LFG Usage: 29 mmscf/mo, 344 mmscf/yr

<u>Pollutant</u>	<u>Emission Factor</u>	<u>Emissions</u>	
	(lb/mmscf)	(Ton/Mo)	(Ton/Yr)
Carbon Monoxide (CO)	467	6.8	80.3
Nitrogen Oxides (NO _x)	260	3.8	44.7
Volatile Organic Materials (VOM)	39	0.6	6.7
Sulfur Dioxide (SO ₂)	8	0.1	1.4
Hydrogen Chloride (HCl)	12	0.2	2.1
Particulate Matter (PM)	27	0.4	4.6

These limits are based on the maximum equipment operating rate, manufacturers' emission factors, default concentrations of non-methane organic compounds (NMOC), sulfur and chlorine in LFG and standard emission factors (AP-42, Table 2.4-5) for particulate matter emission. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

- 3. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.
- 4. The Permittee shall maintain monthly records of the LFG consumption (mmscf/mo, mmscf/yr) separately by flare and engines.
- 5. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
- 6. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
- 7. The Permittee shall submit the following additional information with the Annual Emission Report, due May 1st of each year:
 - a. Landfill gas usage by flare and engine/generators.

8. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

If you have any questions on this permit, please call Valeriy Brodsky at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:VJB:jar

cc: Illinois EPA, FOS Region 3
Illinois EPA, Compliance Section
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the landfill operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. This is usage of 157 million standard cubic feet of landfill gas in the flare and 344 million standard cubic feet of landfill gas in the engine/generators per year. The resulting maximum emissions are well below the levels, e.g. 100 tons/year of CO, 10 tons/year for a single HAP and 25 tons/year for totaled HAPs at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

1. Operation and emissions of the landfill gas burning equipment shall not exceed the following limits:

- a. Flare: LFG Usage: 51 mmscf/mo, 157 mmscf/yr

<u>Pollutant</u>	<u>Emission Factor (lb/mmscf)</u>	<u>Control Efficiency (Wt.%)</u>	<u>Emissions</u> (Ton/Mo) (Ton/Yr)	
Carbon Monoxide (CO)	150	--	3.8	11.8
Nitrogen Oxides (NO _x)	30	--	0.8	2.4
Volatile Organic Materials (VOM)	133	98	0.07	0.2
Sulfur Dioxide (SO ₂)	8	--	0.2	0.6
Hydrogen Chloride (HCl)	12	-	0.3	0.9
Particulate Matter (PM)	9	--	0.2	0.7

- b. Engine/Generators: LFG Usage: 29 mmscf/mo, 344 mmscf/yr

<u>Pollutant</u>	<u>Emission Factor (lb/mmscf)</u>	<u>Emissions</u> (Ton/Mo) (Ton/Yr)	
Carbon Monoxide (CO)	467	6.8	80.3
Nitrogen Oxides (NO _x)	260	3.8	44.7
Volatile Organic Materials (VOM)	39	0.6	6.7
Sulfur Dioxide (SO ₂)	8	0.1	1.4
Hydrogen Chloride (HCl)	12	0.2	2.1
Particulate Matter (PM)	27	0.4	4.6

VJB:jar