



DEPARTMENT ORDER

State of Maine and  
NEWSME Landfill Operations, LLC  
d/b/a Juniper Ridge Landfill  
Penobscot County  
Old Town, Maine  
A-921-77-6-A

Departmental  
Findings of Fact and Order  
New Source Review  
NSR #6

FINDINGS OF FACT

After review of the air emission license amendment application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 Maine Revised Statutes (M.R.S.) § 344 and § 590, the Maine Department of Environmental Protection (the Department) finds the following facts:

I. REGISTRATION

A. Introduction

FACILITY	State of Maine and NEWSME Landfill Operations , LLC d/b/a Juniper Ridge Landfill
LICENSE TYPE	06-096 C.M.R. ch. 115, Minor Modification
NAICS CODES	562212
NATURE OF BUSINESS	Solid Waste Landfill
FACILITY LOCATION	2828 Bennoch Road, Old Town, Maine

B. NSR License Description

Juniper Ridge Landfill (JRL) is a solid waste disposal facility currently owned by the State of Maine (Bureau of General Services) and operated by NEWSME Landfill Operations, LLC.

JRL has requested a New Source Review (NSR) license to change the pilot light on Flare #4 from intermittent use to a continuous pilot.

C. Emission Equipment

The following equipment is addressed in this NSR license:

Equipment	Capacity	Maximum Flow Rate (scfm)
Flare #4	106.5 MMBtu/hr	3,550

D. Project Description

The State of Maine (Bureau of General Services) owns the Juniper Ridge Landfill, which is currently operated by NEWSME Landfill Operations, LLC. Gases formed from the decomposition of the landfill materials are collected and controlled by the facility's three flares.

The landfill gas (LFG) generated at JRL is collected and then flared or sent to a nearby independent facility operated by AHJRLFLG LLC (Archaea). Archaea may process JRL's LFG for sale or beneficial use. The processing of the LFG at the Archaea facility is considered a treatment system equivalent to JRL's flares.

The primary flare at JRL is Flare #4. It is rated at 106.5 MMBtu/hr (3,550 scfm) and is typically in continuous use. Flares #2 and #3 are to be used as back-up and are rated at 22.5 MMBtu/hr (750 scfm) and 40.5 MMBtu/hr (1,350 scfm), respectively.

Flare #4 currently operates a propane-fueled pilot light intermittently as needed to ensure a continuous flame. The flare is monitored by a heat sensing device to ensure there is flame present whenever the flare is in operation.

With startup of the Archaea facility, JRL may no longer need to use their flares continuously. However, they will still be used to control any LFG not processed by the Archaea facility. Upsets in Archaea's system, especially during commissioning, may cause LFG to be rerouted to Flare #4 unpredictably. Therefore, JRL has proposed a continuous pilot light for Flare #4 to ensure flame is always present to spark ignition of the LFG. The pilot light will have a maximum heat input of 0.55 MMBtu/hr firing natural gas or propane.

Due to its size, the proposed continuous pilot light for Flare #4 is considered an insignificant activity pursuant to *Minor and Major Source Air Emission License Regulations*, 06-096 C.M.R. ch. 115, Appendix B, §§ B.1 and 2.

E. Application Classification

All rules, regulations, or statutes referenced in this air emission license refer to the amended version in effect as of the issued date of this license.

The application for JRL does not violate any applicable federal or state requirements and does not reduce monitoring, reporting, testing, or recordkeeping requirements.

The modification of a major source is considered a major or minor modification based on whether or not expected emissions increases exceed the "Significant Emission Increase" levels as given in *Definitions Regulation*, 06-096 Code of Maine Rules (C.M.R.) ch. 100.

For a major stationary source, the expected emissions increase from each new, modified, or affected unit may be calculated as equal to the difference between the post-modification projected actual emissions and the baseline actual emissions for each NSR regulated pollutant.

For this project, baseline actual emissions (BAE) were assumed to be zero and projected actual emissions (PAE) were based on the potential to emit emission from the pilot light. Emissions increases were calculated by subtracting BAE from the PAE resulting in emissions increases of less than 1.0 tpy for each individual pollutant and less than 1.5 tpy for all regulated pollutants combined.

Since emissions increases do not exceed significant emissions increase levels, this NSR license is determined to be a minor modification under 06-096 C.M.R. ch. 115. JRL has submitted an application to incorporate the requirements of this NSR license into the facility's Part 70 air emission license.

F. Annual Emissions

This license amendment will not change the facility's licensed annual emissions.

**ORDER**

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants New Source Review License Amendment A-921-77-6-A pursuant to the preconstruction licensing requirements of 06-096 C.M.R. ch. 115 and subject to the specific conditions below.

Severability. The invalidity or unenforceability of any provision of this License Amendment or part thereof shall not affect the remainder of the provision or any other provisions. This License Amendment shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

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4

### SPECIFIC CONDITIONS

This NSR license amendment does not add or change any license conditions.

DONE AND DATED IN AUGUSTA, MAINE THIS 8<sup>th</sup> DAY OF DECEMBER, 2023.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:  for  
MELANIE LOYZIM, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 10/13/2023

Date of application acceptance: 10/13/2023

Date filed with the Board of Environmental Protection:

This Order prepared by Lynn Muzzey, Bureau of Air Quality.

