



BOARD OF COMMISSIONERS

AGENDA REQUEST & STAFF REPORT

MEETING DATE: February 5, 2025

SUBJECT: Award of agreement with Parnel Biogas Inc. for sole source procurement of landfill gas flaring equipment and startup services

RECOMMENDED MOTION:

- 1) Move approval of Resolution 2025-003 for the sole source procurement of supplying landfill gas flaring equipment and startup services with Parnel Biogas Inc.
- 2) Move approval of Document No. 2024-950, a contract with Parnel Biogas Inc. for landfill gas flare equipment and startup services.

BACKGROUND AND POLICY IMPLICATIONS:

In October 2021, the Oregon Department of Environmental Quality (DEQ) adopted OAR 340-239 relating to landfill gas emissions. This rule outlines additional requirements for monitoring landfill gas (methane) through Surface Emissions Monitoring (SEM) to quantify concentrations of methane on landfills. The rule also outlines testing parameters for both open and enclosed flares for mandatory gas collection and control systems (GCCS). Because the Knott Landfill GCCS is currently operated as a voluntary system to control the movement of gas from the property to neighboring properties, it is exempt from the required source testing of the flares.

In December of 2023, the County's Department of Solid Waste received the Title V Permit No. 09-0040TV-01 renewal from DEQ. Language in the renewed permit requires the use of either an enclosed flare that can be source tested through specific standards as defined in the permit, or an open flare that can be tested through the same method regardless of the GCCS being a voluntary system. The existing open flare was not designed to be source tested using the method options specified in the renewed permit. The current open flare is approximately eight years old and was built by Parnel Biogas Inc. Some features of the flare—including the skid, blowers and blower motors—are reusable.

Sole sourcing with Parnel Biogas Inc. to reuse compatible components from the existing flare will result in an estimated savings to the County between \$175,000-\$325,000 based on an evaluation conducted by Jacobs Engineering of what a new flare may cost. It is anticipated that the flare will operate only as a back up to the RNG facility with a yearly run time of 262 to 438 hours, or three to five percent of the main facility.

This services agreement is for the purchase of enclosed flare components and startup services for the completed enclosed flare.

BUDGET IMPACTS:

The total amount of the contract is \$428,240.15. Funds have been budgeted in the Solid Waste FY25 Capital Project 613 fund for a landfill gas flare.

ATTENDANCE:

Tim Brownell, Director of Solid Waste