

STATE OF NEVADA  
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL PROTECTION – BUREAU OF AIR POLLUTION CONTROL

**Director’s Review and Preliminary Determination of Permit Issuance for**

**ORNI 32 LLC  
Dixie Meadows Geothermal  
Churchill County, Nevada  
August 6, 2021**

ORNI 32 LLC (ORNI 32) submitted an application for a new Class II Air Quality Operating Permit, AP4911-4346, FIN A2281, for the Dixie Meadows Geothermal facility in Churchill County, Nevada. The project is located approximately 43 miles northeast of Fallon in Churchill County, NV, in all or portions of Section 8, Township 22 N, Range 35 E, M.D.B.&M.

The Dixie Meadows Geothermal Development Project in Dixie Valley, Nevada will consist of one 19.22 MW geothermal power plant. The facility will also employ a 490 HP emergency generator.

The Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC) has reviewed the application for the above-referenced operating permit, and has made a preliminary determination to issue the operating permit. The facility-wide Potential to Emit (PTE), including emissions from Non-Permit equipment are given in the table below.

	<i>Dixie Meadows Geothermal Potential to Emit (PTE)</i>		
	Pollutant		New (tons/year)
	Current emissions estimates indicate ORNI 32 is a <i>Class II source</i> , because the facility-wide PTE for any individual regulated pollutant is <i>less</i> than 100 tons per year.	<b>PM</b>	Particulate Matter
<b>PM<sub>10</sub></b>		Particulate Matter ≤ 10 microns in diameter	0.0077
<b>PM<sub>2.5</sub></b>		Particulate Matter ≤ 2.5 microns in diameter	0.0077
<b>SO<sub>2</sub></b>		Sulfur Dioxide	0.051
<b>NO<sub>x</sub></b>		Oxides of Nitrogen	0.15
<b>CO</b>		Carbon Monoxide	0.14
<b>VOC</b>		Volatile Organic Compounds	30.2
<b>Pb</b>		Lead	0.00
<b>HAP (single)</b>		Hazardous Air Pollutants	0.00021
<b>HAPs (all)</b>		Hazardous Air Pollutants	0.00067

The project is located in Air Quality Hydrographic Area (HA) 128 of the Dixie Valley. HA 128 is not a triggered basin for an increment analysis. ORNI 32 will be subject to NSPS – 40 CFR Part 60 Subpart IIII – for Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and NESHAP – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines.

Air dispersion modeling conducted by the applicant and the Nevada Division of Environmental Protection – Bureau of Air Quality Planning (BAQP) demonstrates that continued operation of ORNI 32, will not violate any air quality standard.

ORNI 32 must comply with all State and Federal air quality requirements and all conditions established within the proposed draft Class II Air Quality Operating Permit.