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

Ioneer USA Corporation Rhyolite Ridge Project Esmeralda County, Nevada June 18, 2025

Ioneer USA Corporation (Ioneer) submitted an application for a revised Class II Air Quality Operating Permit, AP1099-4256, FIN A2243, for the Rhyolite Ridge Project facility in Esmeralda County, Nevada. The project is located approximately 40 miles southwest of Tonopah, NV. The project is located in all or portions of Sections 19 - 23, and 26 - 35, Township 1S, Range 37E and Sections 2 - 4, Township 2S, Range 37E, M.D.B.&M.

Ioneer is proposing to revise their current AQOP. Below is a list of changes from this revision.

- Updated throughput/flowrate for Systems 1 3, 6 8, 12, 16 18, 26 30, and 33
- Updated UTM coordinates for Systems 1, 2, 6 8, 11 14, 16 21, and 25 33
- Updated Stack Parameters for Systems 12 15, 19 22, 28 31, and 33
- Updated unit descriptions for PF1.012, PF1.014 PF1.016, and PF1.024
- Added units PF1.0035 (System 3), PF1.036 (System 7), PF1.037 (System 8), PF1.038 PF1.055 (System 9), PF1.056 and PF1.057 (System 10), S2.028 (System 31), and S2.029 (System 32)
- Removed units PF1.004 (System 2), PF1.005, PF1.007, and PF1.008 (System 3), PF1.013 (System 6), PF1.017 (System 7), PF1.019 (System 9), PF1.023 (System 10), and S2.019 S2.021 (System 28)
- Incorporated Systems 4 and 5 into System 3
- Added Systems 35 through 37 (Sulphuric Acid Plant emission units S2.030 through S2.032)
- Emission unit numbers PF1.003 (System 2), PF1.006, and PF1.009 PF1.011 (System 3) were removed as they are fully enclosed
- System 15: updated SO₂ value to 11.5 ppm resulting in decreased SO₂ emissions
- System 21: Updated engine horsepower from 4,376 to 4,693 hp
- Systems 26 and 27 (Cooling Towers): Increased TDS values

The Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC) has reviewed the application for the abovereferenced 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.

Current	Rhyolite Ridge Project Potential to Emit (PTE)			
emissions estimates indicate Ioneer is a <i>Class II</i> <i>source</i> , because the facility-wide PTE for any individual regulated pollutant is <i>less</i> than 100	Pollutant		Revision Net Change (tons/year)	Facility-Wide (tons/year)
	PM	Particulate Matter	18.9	88.2
	PM10	Particulate Matter ≤ 10 microns in diameter	18.8	71.4
	PM2.5	Particulate Matter ≤ 2.5 microns in diameter	18.0	61.6
	SO ₂	Sulfur Dioxide	6.13	88.5
	NO _x	Oxides of Nitrogen	-0.53	94.1
	СО	Carbon Monoxide	1.30	29.4
	VOC	Volatile Organic Compounds	0.059	4.99
	Pb	Lead	0.00	0.00
	HAP (single)	Hazardous Air Pollutants	<10	<10
tons per year.	HAPs (all)	Hazardous Air Pollutants	0.00	0.10

The project is located in Air Quality Hydrographic Area (HA) 117 of the Fish Lake Valley. HA 117 is not a triggered basin for an increment anlaysis. Ioneer will be subject to 40 CFR Part 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants, 40 CFR Part 60 Subpart H – Standards of Performance for Sulfuric Acid Plants, 40 CFR Part 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR Part 63 Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR Part 63 Subpart ZZZZ – Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, and 40 CFR Part 63 Subpart CCCCCC – for Gasoline Dispensing Facilities.

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 Ioneer, will not violate any air quality standard.

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