

Bureau of Mining Regulation and Reclamation

APPLICATION REQUIREMENTS FOR MINING OPERATIONS

Name of Facility: _____

Permit Number: _____

<u>Nevada Administrative Code (NAC) 445A.394</u> General	<u>Reference</u>
Appropriate fee submitted	_____
Application signed by owner, operator, or designated agent	_____
Name, location and mailing address of the facility, owner, operator, and authorized agent	_____
Legal structure of applicant	_____
Name of landowner or mining claim(s)	_____
Documentation of notice to county commissioners	_____
Rate of ore processing in tons per year:	_____
<u>NAC 445A.395</u> Assessment of Area Review	
Hydrogeology and lithology defined beneath and adjacent to point sources to a minimum of 100 feet	_____
Geological map covering one mile radius	_____
Topographical map which identifies:	
1. All known surface water within one mile radius	_____
2. Existing habitable buildings within one mile radius	_____
3.a. Boundaries and area of upgradient watershed	_____
3.b. Degree to which 100-year, 24-hour storm event will affect process components	_____
4. All drinking water wells downgradient to five miles	_____

Greater or lesser review required based on population, depth to groundwater, distance to surface water(s), and quality, uses or potential uses of groundwater/surface water

NAC 445A.396 Meteorological Report; Analysis of Samples

Monthly average of rainfall

10-, 25-, 100-, and 500-year, 24-hour storm event

Diurnal temperature variation

Multi-element spectrographic assay or equivalent of overburden, waste rock, and ore

Samples evaluated for potential to release pollutants

NAC 445A.397 Engineering Design Report; Specifications for Fluid Management System

Prepared and stamped by Nevada Professional Engineer

Does report include:

- 1. Engineering plans for process components
- 2. General specifications and calculations for process components
- 3. Topographic map showing all potential sources

Drawings of structures and devices

Method for control of storm flow run-off

Geological and hydrogeological conditions beneath and adjacent to the site of:

- 1. Fluid management system and waste rock disposal sites
- 2. Degree of natural containment, preferential flow pathways, and structural stability

Description of liner material

Installation procedures for pads, ponds, and ditches

Description of subbase preparation

Details of leak detection and site monitoring systems

- Process schematic _____
- Specifications for constructing the fluid management system _____
- Specifications of material used _____
- Methods of testing, inspecting, and quality assurance/control _____
- Is all information sufficient to determine:
 - 1. Process components _____
 - 2. If design shall protect waters of the State _____
 - 3. If monitoring system is adequate to protect waters of the State _____

NOTE: For existing facilities, the integrity of containment must be documented by using the regulatory containment criteria as a reference (areas that must be considered).

NAC 445A.398 Proposed Operating Plans

Do the proposed operating plans include:

- 1. Description of mineral processing circuit which includes:
 - a. a flow chart _____
 - b. range of operating conditions for which the process components were designed _____
- 2. Plan for management of process fluids which describes:
 - a. methods to be used for monitoring and controlling all process fluids _____
 - b. description of the means to evaluate the conditions in the fluid management system, to quantify the available storage capacity, and to define when and to what extent the design capacity has been exceeded _____
- 3. Plan for monitoring which describes:
 - a. water quality in the area _____
 - b. proposed monitoring locations _____
 - c. analytical profile of surface and groundwater _____
 - d. locations of leak detection systems, frequency of sampling, and analytical profile _____

- 4. Plan for management of waste rock
 - a. Representative characterization data and sample locations to be mined at facility _____
 - b. Evaluates potential for waste rock to degrade waters of the State _____
 - c. Size and location of proposed waste rock facilities _____
 - d. Sampling and analysis protocols to verify character of waste rock _____
 - e. If indicated potential to degrade, protocols/designs to eliminate the potential degradation _____
- 5. Plan for responding to emergencies which describes:
 - a. what actions must be initiated and by whom _____
 - b. minimizes environmental impact _____
- 6. Temporary closure plan which describes activities which must be maintained during time of closure _____
- 7. Tentative plan for permanent closure which describes:
 - a. the procedures, methods and schedule for stabilizing spent process materials and all other sources on site _____

The plan must include:

 - b. procedures for characterizing spent process materials as they are generated _____
 - c. the procedure to stabilize all process components and other sources at the facility with costs _____
 - d. Conceptual Closure plans for all sources at facility with enough detail to support a cost estimate. _____

NOTE: Refer to regulations NAC 445A.350 – 445A.447 for detailed requirements, including the revised regulations effective August 30, 2018 (e.g., 500-year, 24-hour design storm event for permanent closure), available on the Division website: [NDEP Mining Laws and Regulations](#).

Date of Review: _____

* Information that was previously submitted to NDEP, which completely addresses one or more of the above items, may be referenced. The author, title, date and pertinent pages must be identified.