Bureau of Mining Regulation and Reclamation

APPLICATION REQUIREMENTS FOR MINING OPERATIONS

Name of Facility: ______________________

Permit Number: ______________________

Nevada Administrative Code (NAC) 445A.394  General  Reference

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:

NAC 445A.395  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
   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.