Bureau of Mining Regulation and Reclamation

APPLICATION REQUIREMENTS FOR MINING OPERATIONS

Name of Facility: _____

Permit Number: _____

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 land owner or mining claim(s)	_____
Documentation of notice to county commissioners	_____
Rate of ore processing in tons of ore/year	_____

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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-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 _____

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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 schematics _____

Specifications for constructing the fluid management system _____

Specifications of material used _____

Methods of testing, inspecting, and quality assurance/control _____

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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 _____

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d. locations of leak detection systems, frequency of sampling, and analytical profile _____

4. Plan for responding to emergencies which describes:

a. what actions must be initiated and by whom _____

b. minimizes environmental impact _____

5. Temporary closure plan which describes:

a. activities which must be maintained during this closure _____

6. Tentative plan for permanent closure which describes:

a. the procedures, methods and schedule for stabilizing spent process materials _____

The plan must include:

b. procedures for characterizing spent process materials as they are generated _____

c. the procedure to stabilize all process components _____

NOTE: Refer to regulations for detailed requirements.

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.

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