MSHA METAL AND NONMETAL TAILINGS AND WATER IMPOUNDMENT INSPECTION FORM

Note: This form should be completed for all dams classified as having high or significant hazard potential and for low-hazard-potential dams which either are 25 feet or more in height (and can store more than 15 acre-feet) or can store 50 acre-feet or more (and exceed 6 feet in height). For the same Mine ID Number, report each dam that meets any of these criteria on a separate form. Fill out as much information as can be obtained from the operator or directly determined.

MINE ID ____________________ Inspector _____________________________
Date ________________________
Mine Name ________________________________________________________
Mining Company ___________________________________________________
MSHA District __________________________ MSHA Field Office__________
Mine Product ________________________ Name of Dam or Impoundment________
(MSHA Field Office)
Dam ID Number __________________________

(The Dam ID Number is assigned by the District and is the MSHA Mine ID Number followed by -01, -02, etc., so that individual mines at the mine that meet the hazard potential or size criteria have unique numbers.)

State____________________ County __________________________________
Does a state agency regulate this dam?           Yes ___  No____
If So, which State Agency?____________________________________________

Type of information provided on this form:             New___ Update___
Is impoundment currently under construction?           Yes____  No____
Dam owner’s contact person ____________________  Phone # _______________
The dam was designed by ____________________________

IMPOUNDMENT FUNCTION:
_____ Tailings/Mine Waste Disposal       _____ Sediment Control
_____ Fresh Water Supply              _____ Water Treatment     _____ Other

Nearest Downstream Town Name: __________________________________________
Distance from the Dam ___________________________ miles
Dam Location (coordinates of center of dam crest or point along dam crest for diked dams):
Longitude (as decimal) ________ (or as ___Degrees ___Minutes ___Seconds)
Latitude    (as decimal) ________ (or as ___Degrees ___Minutes ___Seconds)

Note: Longitude or latitude as a decimal equals [(degrees) + (minutes/60) + (seconds/3600)]. Longitude and latitude are input into MSIS as decimal values, with the longitude being negative.
Does the dam have an Emergency Action Plan (EAP)? YES ___ NO ___

HAZARD POTENTIAL CLASSIFICATION: The hazard potential classification depends solely on the consequences of failure of the dam and not on the condition of the dam. Check with the mine operator for what classification has been assigned to the dam. If one has been assigned, determine whether it appears reasonable - classifications can change as downstream conditions change. If it appears reasonable, indicate the classification on this form below. If it does not appear reasonable, or no classification has been assigned, then judge the appropriate hazard potential classification and indicate it below. For uncertain cases, the District Dam Safety Representative can be consulted or further assistance can be requested from Technical Support.

_____ High: Dams, regardless of their condition or size, whose failure will probably cause loss of life.

_____ Significant: Dams, regardless of their condition or size, whose failure would result in no probable loss of life but would disrupt important utilities or cause significant economic loss or significant environmental damage.

_____ Low: Dams whose failure would result in no probable loss of life and only slight property damage such as to farm buildings, forest or agricultural land, or minor roads.

DESCRIBE REASONING FOR HAZARD RATING INDICATED:

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
CONFIGURATION:

CROSS-VALLEY

SIDE-HILL

DIKED

Cross-Valley_____ Side-Hill_____ Diked_____

Note that any portion of an impoundment that is “incised,” meaning it is excavated below undisturbed natural ground such that release of that portion of the impoundment is precluded, should not be considered in the storage capacity or in the dam height reported on this form.

Type of dam construction: _____ upstream _____ downstream _____ centerline

Dam Height (above downstream toe): _______ feet Dam Crest Length: _______ feet

Reservoir Area: Width _____ feet Length _____ feet or ______ Acres (W x L / 43560)

Current Freeboard: ___________ feet Drainage Area: _______ square miles

Normal Storage Capacity: ____acre-feet Maximum Storage Capacity: ____acre-feet
**TYPE OF OUTLET:** (Mark all that apply)

Open Channel Spillway:
- Yes_____ No_____  
  - _____ Trapezoidal  
  - _____ Triangular  
  - _____ Rectangular  
  - _____ Irregular  

- _____ Channel Depth  
- _____ Bottom (or average) width  
- _____ Top width

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**Decant Conduit:** Yes_____ No_____  
Size of conduit: Inside diameter: _____ inches  
or  Width: ____inches x Height: ____ inches

Conduit Material  
- _____ corrugated metal  
- _____ welded steel  
- _____ concrete  
- _____ plastic (HDPE, PVC, etc.)  
- _____ other (specify) ____________________

Is water flowing through the decant?  
- Yes___  No____

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**Other Type of Outlet** (specify, e.g. floating pump system) __________________

 Has the dam been totally removed or breached or has the impoundment been filled in so that the impounding capability has been eliminated?  
- Yes___  No____

If “Yes,” as of what date?________
Has there ever been a failure or incident at this site that resulted in a partial or complete loss of the dam or any of its hydraulic components or a partial or complete unintentional release from the reservoir?  YES _____  NO ______  
If so, when? ___________________________
If so, please describe: ________________________________________
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Notes to assist with completing form:  **Freeboard** is the vertical distance between the pool level and the lowest point on the dam. **Normal Storage Capacity** can be estimated as the Reservoir Area times the Normal Reservoir Depth. **Maximum Storage Capacity** can be estimated as the Reservoir Area times the Maximum Reservoir Depth. **Drainage Area** is the area that contributes runoff into the impoundment – it must be obtained from the operator’s information or a topographic map.