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STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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May 12, 1988

TO: John Whitehead, Permit Supervisor  
FROM: Jim Fricke, Reclamation Hydrologist *JF*  
RE: Mid-Term Review Sunnyside Mine, Kaiser Coal Corporation,  
Sunnyside Mine, ACT/007/007, Folder #2, Carbon County, Utah

UMC 817.42 Hydrologic Balance: Water Quality Standards and  
Effluent Limitations-(JRF)

The approved MRP notes seven areas (Plate III-33) that qualify for small area exemption status. During the mid-term review site visit, the Division has identified three additional areas that need to be addressed. Furthermore, the existing seven areas will require maintenance to meet the requirements of UMC 817.42.

Required Maintenance

1. Twin Shafts Area

The silt fence structure should be extended to adequately treat the disturbed area runoff.

2. Number 2 Canyon Fan

Modify Plate III-33(2) to reflect the field conditions. The silt fence and berm should be changed to the straw bale and berm combination.

3. Water Canyon Portals

Presently undisturbed area runoff enters a portal on the north side of Water Canyon. Corrective action must be taken to prevent undisturbed runoff from entering the portal.

A concrete bridge connects the portals on the north and south side of Water Canyon. Sediment deposition under the bridge has reduced freeboard by 95 percent. The operator must demonstrate that the bridge will pass the 10-year, 24-hour runoff event.

The silt fence structures should be keyed into the berms at least 1.5 feet.

A section of road berm needs to be installed, and several washouts on the refuse pile will require preventive maintenance.

4. Pole Canyon

Plate III-33(4) denotes a berm and silt fence combination for alternative sediment controls. The silt fence structure should be installed and the berm repaired.

5. Whitmore Fan

A section of the berm (near the fan) requires maintenance and Plate III-33(5) should be modified to reflect the ditch section. Alternative sediment control must be provided at the vegetated area northeast of the fan pad.

6. Number 2 Mine Fan

Undisturbed area runoff has recently eroded the substation pad. The operator has initiated remedial action; the Division requires alternative sediment control downgradient of the gullies. Plate III-33(6) should be modified to reflect the final field disposition for this area.

7. Number 1 Mine Outcrop Fan

The rock gabion should be reconstructed to meet the dimensions shown on Plate III-33(7). The silt fence should be installed.

8. Borrow Areas

The two borrow areas east of the East Slurry Cell must be addressed for adequate sediment control. Presently, one silt fence structure provides sediment control for the two areas and undisturbed runoff. The Division recommends construction of a sediment pond at the silt fence location or diversion of the undisturbed runoff and an additional silt fence structure located between the two borrow areas.

9. Substation in Whitmore Canyon

The substation located east of the East Carbon Water Treatment Facility should be included in the small area exemption discussion. A map delineating extent and sediment control must be submitted.

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The MRP should be modified to include the additional small area exemptions; appropriate text and map modifications are required.

UMC 817.46 Hydrologic Balance: Sedimentation Ponds-(JRF)

The abandoned Coarse Refuse Toe Pond should be reclaimed. The discharge structure should be removed, the pond and ditch backfilled, and slopes revegetated. Sediment control must be provided during and after reclamation. The reclaimed pond should be included in the mine plan small area exemption discussion.

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