



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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March 1, 2001

TO: Internal file

THRU: Michael J. Suflita, Team Lead *MJS*

RE: Permit Drawings Revision, PacifiCorp, Deer Creek Mine, C/015/018-AM00A-1

SUMMARY:

On February 4, 2000 the Division received an amendment to update two maps in the Mining and Reclamation Plan (MRP). On March 27, 2000 the Division sent a Technical Analysis which contained deficiencies. Several meetings, e-mails, phone calls, and unofficial submittals followed. On January 19, 2001 a second submittal was received by the Division. This Technical Memo is a review of the latest submittal. No deficiencies were found.

It should be noted that the original, February 4, 2000 submittal contained revisions to the soils sampling program for Reclamation. It was mutually decided between the Operator and the Division that these were more appropriately contained in another amendment. As such, they were not included in the January 19, 2000 submittal.

TECHNICAL ANALYSIS:

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

TECHNICAL MEMO

Analysis:

Diversions

The submittal consists of three maps, 3-9, Deer Creek Mine Surface Yard Map DS202E, (a revised edition), 3-9A, Deer Creek Mine Surface Yard Area, Pre/Post SMCRA Development Map DS1812E (a new map), and 1-4, Deer Creek Mine Surface Yard & Overland Conveyor Disturbed Area Boundary CM-10882-DR (a revised edition). All are certified by a Registered Engineer. The new maps were submitted after a field inspection showed some minesite drainages were not shown on the maps. These diversions are now shown. Several of the diversion ditches appeared to improve the site by directing the water and thus controlling erosion. The new berms appear to enhance safety at the edges of several flat areas and the berms help direct water flows.

The Disturbed Area boundary has been changed in the southwest corner of the site as a result of identifying diversion ditches in the area. The new map 3-9 has colored symbols and shows the disturbed area much more clearly than the map which it replaces. Some physical facilities were shown outside the disturbed areas on the original map. The new map shows them inside the boundary. The ASCAs within the disturbed area are now clearly identified and show the respective areas.

During discussions after the first TA was sent, it was noted that there was no differentiation between the pre- and post-SMCRA areas of the disturbed area. This differentiation is a regulatory requirement. The new map 3-9A clearly set out which areas are pre- and post-SMCRA. Maps 1-4 and 3-9A are based on aerial photos whose dates are before and after SMCRA was implemented. The construction dates for various constructed facilities are clearly shown. Highwalls and their respective construction dates are also shown. In general the new maps are more easily read and show actual on-the-ground conditions accurately.

Findings:

The submittal meets minimum regulatory requirements.

RECOMMENDATION:

The proposed amendment can be approved in its present form.