

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

December 5, 2006

TO: Internal File

THRU: Pamela Grubaugh-Littig, Permit Supervisor 

FROM: David Darby, Lead, Environmental Scientist III 

RE: Savage Plant Overflow Pond, Savage Industries Inc., Savage Coal Terminal C/007/0022-Task ID #2706

SUMMARY:

The Division received a proposal on November 27, 2006 to add a plant overflow pond at the Savage Coal Terminal. With the restart of the wash plant, the pond will be needed. The pond intercepts overflow and wash down water from the plant. Overflow from the pond will be directed to Pond 6 where it is filtered and re-circulated to the plant.

Information in the proposal is not considered adequate to meet the minimum requirements of the regulations.

TECHNICAL ANALYSIS:

OPERATION PLAN

MINING OPERATIONS AND FACILITIES

Regulatory Reference: 30 CFR 784.2, 784.11; R645-301-231, -301-526, -301-528.

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Analysis:

Facilities and Structures

The proposed structure will consist of a 60 feet X 30 feet X 5 feet pond. The material excavated for the pond depth will be used as a berm to surround the pond. An 18 inch corrugated metal pipe will deliver inflow to the pond and a 6 inch steel pipe will deliver the pond overflow to Pond #6. The pond side slopes will be 1:1. The berm is planned to be 15 inches across the top. The freeboard above the discharge will be 3 feet.

Not seen on the maps submitted by the Permittee is the overland flow pattern. Pricilla Burton, DOGM, Price Field Office conducted a field visit at the facilities and reported that the natural flow pattern flows through the area intended for pond development. She stated that she talked to Dan Guy and he mentioned he would have to design a ditch to direct the flow around the pond area to a sedimentation pond. This information needs to be discussed and submitted in the MRP.

Findings:

Information to meet the minimum Mining Operations and Facilities requirements of the regulations not complete at this time.

R645-301-722.200, The Permittee provide the information and maps necessary to identify overland flow and structures necessary to control flow.

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, -300-148, -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.

Analysis:

Sediment control measures

Since the proposed structure will lie within the existing disturbed area, all runoff will be directed to sediment pond 6 through existing diversions.

Findings:

Information provided in the application is adequate to meet the minimum Hydrologic Information requirements of the regulations.

MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

Analysis:

The location of the new structure in relation to the permit area and other structures is shown on Plates 3-2 Savage Coal Terminal Facility Map and 7-2 Savage Coal Terminal Hydrology Map. Plate 7-4C shows the detailed plans for constructing the pond.

Findings:

Information provided in the application is adequate to meet the minimum Maps, Plans and Cross Sections of Mining Operations requirements of the regulations.

RECOMMENDATIONS:

This application should not be approved until the deficiency is addressed adequately.