

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

September 17, 2004

TO: Internal File

FROM: Stephen J. Demczak, Environmental Scientist III/Engineering, Team Lead *SJD by an*

RE: Addition of Three Conveyors, Savage Services Corporation, Savage Loadout, C/007/022, Task ID #2035

SUMMARY:

The permittee has requested the installation of three conveyor belts at the Savage Loadout. These conveyors will be used to transfer coal from stockpiles to the railroad loading facilities. This will make the coal yard more efficient in handling high volumes of coal.

The amendment will include the extension of an existing culvert and the elimination of a ditch.

Bonding for the additional structures will be minimal and is already covered in the contingency in the bond.

OPERATION PLAN

TOPSOIL AND SUBSOIL

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-230.

Analysis:

Topsoil Removal and Storage

The area for construction is in the disturbed area and the topsoil has been removed.

Findings:

The permittee has met the minimum requirements of this section.

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VEGETATION

Regulatory Reference: R645-301-330, -301-331, -301-332.

Analysis:

The area for construction is in the disturbed area and the vegetation has been removed.

Findings:

The permittee has met the minimum requirements of this section.

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.

Analysis:

Diversions: General

The permittee has submitted an amendment to connect culvert C-8 with C-26. These culverts are covered. Culvert C-26 will be eliminated and become part of culvert C-7. The current plan has a diversion connecting the culverts. The culverts are needed since a conveyor belt will be installed above the culverts. The installation of the belt conveyors will not change the water flow to the sediment ponds. All water in this area will still report to the sediment pond. This request will not change any hydrologic controls.

The permittee has updated the design calculations using Manning's Equation. This design is P.E. certified. The permittee will install an 18-inch connecting culvert to the existing 18-inch culverts that are located at each end.

Findings:

The permittee has met the minimum requirements of this section.

SUPPORT FACILITIES AND UTILITY INSTALLATIONS

Regulatory Reference: 30 CFR Sec. 784.30, 817.180, 817.181; R645-301-526.

Analysis:

The permittee has revised the conveyor belt map location and text. These are pages 3-28 and 3-29 in the Mining and Reclamation Plan.

Findings:

The permittee has met the minimum requirements of this section.

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:

Mining Facilities Maps

The permittee has updated the Facilities Map 3-2 showing the location and the connecting of the two culverts. This map is P.E. certified.

Certification Requirements

The permittee has P.E. certified design calculations and facilities map.

Findings:

The permittee has met the minimum requirements of this section.

RECLAMATION PLAN

GENERAL REQUIREMENTS

Regulatory Reference: PL 95-87 Sec. 515 and 516; 30 CFR Sec. 784.13, 784.14, 784.15, 784.16, 784.17, 784.18, 784.19, 784.20, 784.21, 784.22, 784.23, 784.24, 784.25, 784.26; R645-301-231, -301-233, -301-322, -301-323, -301-331, -301-333, -301-341, -301-342, -301-411, -301-412, -301-422, -301-512, -301-513, -301-521, -301-522, -301-525, -301-526, -301-527, -301-528, -301-529, -301-531, -301-533, -301-534, -301-536, -301-537, -301-542, -301-623, -301-624, -301-625, -301-626, -301-631, -301-632, -301-731, -301-723, -301-724, -301-725, -301-726, -301-728, -301-729, -301-731, -301-732, -301-733, -301-746, -301-764, -301-830.

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Analysis:

The reclamation of the three conveyors will be easily performed. The conveyors are bolted together in sections and can be hauled away.

The culverts will be in shallow ground and can be removed with little effort.

There will be little or minimal change to the existing ground contour.

Findings:

The permittee has met the minimum requirements of this section.

BONDING AND INSURANCE REQUIREMENTS

Regulatory Reference: 30 CFR Sec. 800; R645-301-800, et seq.

Analysis:

Determination of Bond Amount

The total projected cost for the Transfer Conveyor Addition is \$14,332.40. The Savage Coal Terminal is presently bonded for a total of \$2,525,000. Included in the bond is a contingency of \$126,000. The amendment will account for 11.35% of the contingency. Therefore, the permittee has sufficient amount of bond to cover the cost of reclamation for this project.

Findings:

The permittee has met the minimum requirements of this section.

RECOMMENDATIONS:

The permittee has met the minimum requirements and is recommended for approval.