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Southern Utah Fuel Company
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Subsidiary of
Coastal States
Energy Company

June 11, 1985

Mr. Wayne Hedberg
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Dear Mr. Hedberg:

SUBJECT: Main Fan Diversion Modification

Because of a concern for water quality expressed by DOGM inspection personnel, Southern Utah Fuel Company requests Division approval to eliminate the main mine fan small area exemption from its Mine and Reclamation Plan. The proposed modifications will convey the runoff from this area through the sediment pond control facilities. The area involved was included in the original pond sizing design calculations. The condensation from the humid mine air generates a small amount of water that runs out of the fan into the small area exemption. Runoff within the area also picks up rock dust deposited by the fan. The silt fence sediment control facility used to treat this water has had limited success. The average water quality of this drainage for the first quarter of 1984 is: Fe 7.41 mg/l, TSS 1,302 mg/l, TDS 3,193 mg/l, and a pH of 7.20.

The following is provided for your consideration in approving the proposed drainage change. A request for a small area exemption for the main mine fan area was requested in 1981 after the new fan was installed because of the difficulty in draining water from this area to the sediment pond. This area is nine feet lower than the yard drainage system. The total area of all the surface facilities including the fan area was included in the ATOF (area top of fill) category in Merricks' hydrologic work in 1979, Exhibit 9, Volume 2 of the M&RP. The same ATOF hydrologic data including the fan area was used by Valley Engineering to design the current sediment pond in 1980, Drainage/Sediment Control, Volume 6 of the M&RP. The pond was shown to meet the design criteria in the July 15, 1983 submittal to DOGM.

The ATOF has the following calculated design values:

- Acres: 12.0
- Runoff Volume: 0.49 Ac. Ft. for a 10 year, 24 hour event
- Peak Flow: 9.2 cfs

The main mine fan area which is included in the above values has the following calculated contribution to the ATOF design values:

- Acres: 0.23
- Runoff Volume: 0.02 Ac. Ft. for a 10 year, 24 hour event
- Peak Flow: 0.176 cfs

The modification project will consist of installing a sump pump with automatic float controls in front of the main mine fan. This sump pump will collect the runoff from this area and pump it into the yard drain line which discharges into the sediment control facilities (see Revised Mine Drainage Diversion Map 83-2). In addition, the undisturbed interception ditch will be modified by moving the riprap ditch above the area affected by the rock dust. Pipes will be installed down the slope and through the fan area to the present drain line box to the ESC bypass culvert, this drain line box will be capped and sealed to prevent runoff from the fan area entering it. The drainage modification calculations are included on the enclosed revised pages of our M&RP.

This submittal has been prepared following the format outlined in Dr. Nielson's May 6, 1985 letter. Although we are concerned that this will obscure the record of the M&RP development, please replace the appropriate pages with the enclosed revised pages and diversion Map 83-2 in your copies of Volume 8 of our Mining and Reclamation Plan. If you have any questions, please call Mike Davis at 637-4880.

Sincerely,
SOUTHERN UTAH FUEL COMPANY

Wesley K. Sorensen
Chief Engineer

MD:cfc

Enclosures

xc: Mr. Charles R. Allred
District Ranger
Fishlake National Forest

Mr. Reed Christensen
Supervisor
Manti-LaSal National Forest

Mr. John Neibergall
District Ranger
Manti-LaSal National Forest

Sevier County Courthouse
Richfield, Utah