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May 11, 1989

TO: Susan Linner, Permit Supervisor

FROM: Mike DeWeese, Reclamation Hydrologist *MD*

RE: Deficiency Review, TDN Response, U.S. Fuel Company,
Hiawatha Complex, ACT/007/011-88(F), Folder #2, Carbon
County, Utah

SUMMARY:

The Division has reviewed the operator's latest submittal received March 24, 1989. This submittal contains additional requested design information of the Middle Fork, South Fork and Upper Rail Yard diversions and the Lower Rail Yard catch basins addressed in TDN 88-2-116-2. The submitted information in conjunction with information from field inspections has shown that the structures in question are technically adequate.

ANALYSIS:

Submitted designs of the Middle Fork, South Fork, and Upper Rail Yard diversions demonstrate that the existing structures contain adequate capacity to convey the expected runoff from the 50 year 6 hour event as required in the approved permit. Check dams are employed in the Middle Fork and South Fork diversions to mitigate erosive velocities and provide sediment control. In addition to these measures described in the submittal, site inspections have revealed that all three diversions have essentially been armored through geomorphic processes to produce natural riprap in the channels. cursory field measurements indicate that even without the check dams the existing riprap material is sufficient for the expected velocities. However the operator has verbally agreed to survey existing riprap material in the diversions and submit accurate riprap size distributions as part of the forthcoming Mid-Permit Term Review. This information will be required at that time as part of the review process.

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The operator has conducted an updated survey of the catch basin below the lower rail yard which demonstrates that the actual volume is greater than that shown in the Mining and Reclamation Plan. The Division has determined that the existing basin volume is sufficient to contain the expected runoff from the 10 year 24 hour storm.

RECOMMENDATIONS:

The Division recommends that the submitted designs be granted conditional final approval with the stipulation that the aforementioned riprap information be submitted during the mid-term review.

BT98/28-29