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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
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April 24, 1997

TO: File #2

THRU: Joe Helfrich, Permit Supervisor *Jeh*

FROM: Steven M. Johnson, Reclamation Specialist *SMJ*

RE: Sedimentation and Drainage Control, U.S. Fuel Company, Hiawatha Complex, ACT/007/011-97B, File #2, Carbon County, Utah

## SUMMARY:

U.S. Fuel has submitted an appendix to amend the Hiawatha Mining and Reclamation Plan (MRP). Appendices VII-19 and 20 provides hydrologic designs and calculations for the facilities east of the railroad tracks. This amendment may complete parts of Division Order 97A.

## TECHNICAL ANALYSIS:

## **OPERATION PLAN**

## **OPERATIONAL HYDROLOGY**

Regulatory Reference: R645-301-742.

### **Sediment Control**

#### **Analysis:**

Appendix VII-20 includes designs and calculations for sediment control measures on the east side of the railroad tracks. This includes designs for sediment ponds 005, 006, 007 and 5A (Slurry Pond 5A). These designs are evaluated beginning on page 12.

Table 15 shows the summary of designs for Slurry Pond 5A. This pond has a total volume 89.55 acre-feet which is much large than the MSHA pond criteria. However, the Slurry Pond 5/5A unit has always been subject to the MSHA rules, thus there is no change in frequency or type of inspections that will be necessary. The actual volume needed to treat runoff in Pond 5A is 18.67 acre-feet; much less than the total capacity.

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### **Findings:**

The operational sediment control plan for the areas described in Appendix VII-20 is complete and accurate.

### **Diversions**

### **Analysis:**

Appendix VII-19 has been updated with design calculation for all drainages in the Hiawatha Mine permit area. These calculation were made using the storm runoff model.

### **Findings:**

The operational diversion designs for the Hiawatha Mine permit area are complete and adequate.

## **RECLAMATION PLAN**

### **Analysis:**

U.S. Fuel has eliminated all reclamation sediment control design. These designs will be resubmitted under DO97A.

### **RECOMMENDATION:**

U.S. Fuel has accurately address drainage control in the area east of the railroad tracks and have adequately address the operational drainage control design and Pond 5A design portions of DO97A. They must address the remaining portions of that division order after mapping has been completed.