

0016

# FILE COPY

February 19, 1987

TO: File

FROM: James Leatherwood *JL*

RE: Reconstruction Plan for Emery Revegetation demonstration Sites, Consolidation Coal Co., Emery Deep Mine, ACT/015/015, Emery County, Utah

The above mentioned January 12, 1987 submittal has been reviewed. The plan contains several deficiencies and concerns. The specific deficiencies must be addressed.

UMC 817.22 Topsoil: Removal - JSL

- (e) The operator must submit the 1984 soil data for the demonstration sites as referred in the Final Plans for the Emery Revegetation Demonstration Test Sites. April 1984, third submittal. The 1987 soils data should also include phosphorus and saturation percentage.

The depth of irrigation water per irrigation is a concern. The operator proposed to irrigate one inch of water every other week on several of the test plots. Based on non-specific soils data, the potential for a saline horizon developing at a two to four inch depth is evident. The saline build-up zone may not warrant concern with the proposed saline tolerant species. However the irrigation must begin as early in the spring season as possible. The in situ soil water coupled with the irrigation water will leach the salt build-up zone to a lower depth. If the operator is not able to irrigate within this time frame, the first irrigation should be increased from a one to a two or three inch depth. Until the soils data is available specific irrigation management decisions cannot be determined.

cc: S. Linner  
W. Hedburg  
L. Kunzler  
0534R-89