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ACT/043/008

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November 10, 1986

TO: File

FROM: Lynn Kunzler, Reclamation Biologist *LK*

RE: Determination of Completeness Review, Summit Coal Company, Boyer #1 Mine, ACT/043/008, Summit County, Utah

After reviewing the latest submittal of the referenced mine plan, the following sections were found to be incomplete or technically inadequate.

Completeness items:

UMC 783.19 Vegetation information - LK

The location of the reference area is not oriented correctly (as to what was approved in the field) on the range site map. Also, please indicate how the reference area will be permanently marked in the field.

UMC 784.21 Fish and Wildlife Plan - LK

The applicant has not recognized the seriousness of impacts to the critical deer winter range. While total acreage of disturbance is relatively small, the loss of production is considered serious and must be mitigated. It is suggested that fencing an area of equal or greater acreage of the disturbed area to exclude domestic grazing for the life of the mine would provide adequate mitigation.

UMC 784.13 Revegetation Plan - LK

(b)(5)(vi) The applicant needs to provide specific information regarding post revegetation monitoring. The plan should provide a discussion of the parameters to be sampled, the frequency and timing of the sampling program, methodology to be used, and the criteria to be used to determine success of revegetation efforts.

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Technical deficiencies:

UMC 784.13(b)(5) and UMC 817.111-.117 Revegetation Plan - LK

(pages 3-82 & 3-83) The mulching plan needs to be revised to show a higher rate of mulch application on steeper slopes (i.e. 3000 pounds per acre). It is recommended that the tackifier be added at a rate of 100 - 120 pounds per ton of fiber for all areas. The discussion of how tack rates are developed for various slopes could then be eliminated.

(page 3-83) Fertilizer is to be applied before seeding and is not to be incorporated in the mulch slurry. Please revise the plan to reflect this.

(page 3-85) While 1000 shrubs is acceptable for bonding purposes, please clarify the rates for the individual species. I.e., is the number indicated a percent of the total number of shrubs that will be planted as determined from post revegetation monitoring?

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