

JUL 23 1990

URFO:DLJ
Docket No. 40-8905

MEMORANDUM FOR: Docket File No. 40-8905
FROM: D. L. Jacoby
Project Manager
SUBJECT: MEETING WITH RIO ALGOM MINING CORPORATION TO DISCUSS THE
RECLAMATION PLAN FOR QUIVIRA MINING COMPANY'S AMBROSIA
LAKE MILL
DATE: July 18, 1990

Participants: Rio Algom Mining URFO
Bill Ferdinand Ray Gonzales
Marvin Freeman Dawn Jacoby
Pete Garcia
Gary Konwinski
Ray Hall

Summary of Discussions: Rio Algom Mining Corporation requested the meeting to discuss the additional information requested by NRC letters dated May 11 and June 11, 1990. The following issues were discussed.

Ponding: To eliminate ponding on the tailings surfaces, the spillway in Pond 1 will be increased in width from 10 feet to 600 feet which will essentially eliminate all ponding. The required spillway width was determined based on a maximum rock medium rock size of 7 inches. Rio Algom was informed that NRC calculations using the Stephenson sizing method rather than the Corp's method resulted in a substantially reduced section. Rio Algom will revisit the spillway width using the Stephenson method.

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DJacoby/1v
07/23/90

PM:URFO
PGarcia
07/23/90

DD:URFO
EHawkins
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REHall
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The Pond 2 weir will be increased from 12 feet to 100 feet which will reduce the ponding time from 56 hours to less than 2 hours during the design storm. Reduced storms were not considered. Rio Algom will submit routing for the 100-year storm. If there is no ponding from the 100-year event, the design will be acceptable. If the additional storm routing is not available by August 1, 1990, a supplemental submittal will be made.

Cross Sections: The proposed cross sections and scales were outlined and found to be acceptable.

Toe Apron: Rio Algom will provide a toe apron on all outslopes except for slopes that are totally contained within Region 1 of the design. NRC indicated that this was acceptable.

Filter: Rio Algom questioned the need for durability requirements for the filter material. The scoring criteria set forth in the Staff Technical Position was discussed. Rock will be considered acceptable if it is reasonably durable; i.e., scores close to 65. Also, it is not necessary for the filter materials to meet the critical filter gradation requirements. Studies have found that the critical filter gradation tends to retard water movement and therefore, it is desirable to design a coarser filter.

Specifications: The need for good quality control and the type and frequency of testing that support a good program were discussed. Rio Algom will provide revised specifications with the understanding that deviations from the Staff Technical Paper should be substantiated.

Rio Algom was requested to submit the following additional information during the meeting.

1. Stage/storage and discharge curves for Pond 1 and Pond 2.
2. Specifications for each rock size.

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D. L. Jacoby
Project Manager

Attachment:
List of Attendees

bcc:
Docket File 40-8905
PDR/DCS
URFO r/f
ABBeach, RIV
LLO Branch, LLWM
DJacoby
PGarcia
RCPD, NM
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