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MEMORANDUM FOR: Malcolm R. Knapp, Chief, WMGT

FROM: Myron H. Fliegel, Section Leader, WMGT

Ted Johnson, WMGT

SUBJECT: TRIP REPORTS - LAKEVIEW & BEATTY

Enclosed are reports of our recent site visits to the Lakeview, Oregon UMTRA site and to the Beatty, Nevada low-level waste site. Additionally, meetings were held in Denver with URFO prior to these visits. If you have any questions please contact us at your convenience.

Original Signed By

Myron H. Fliegel, Section Leader
Hydrology Section
Geotechnical Branch
Division of Waste Management

Original Signed By

T. L. Johnson
Hydrology Section
Geotechnical Branch
Division of Waste Management

Enclosure:
As stated

WM Record File

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Monday, May 20th

We met with URFO, DOE and Jacobs Weston at the URFO office to discuss surface water hydrology and erosion protection issues at the Lakeview disposal site. We discussed the questions that we had previously transmitted to R. Dale Smith and Leo B. Higginbotham by memo of May 6, 1985. The discussions centered on runoff from the drainage area above the proposed remediated pile and whether the diversion ditch designed to convey the runoff around the pile could become clogged. We added a third potential solution to the two given in Comment 1 of the May 6 memo; namely to slope the upper portion of the pile back toward the ditch, thus preventing runoff from the top of the hillside overflowing the pile in the event that the diversion ditch was blocked.

We also met with Ed Hawkins of URFO to discuss a proposal by Colorado State University (CSU) to run a series of tests on riprap stability using flumes. At this meeting, we agreed to contact CSU and URFO to try to get the flume tests started as soon as possible.

Tuesday, May 21

Accompanied by G. Gnugnoli, WMLU and M. Matthews, DOE, we visited the Lakeview UMTRA site. We first toured the mill site, walking across part of the pile. We viewed the stream channel through the pile that DOE will divert during construction. It contained water but did not appear to be flowing. We then drove to an area of the pile that was covered with wood chips. DOE will attempt to separate the uncontaminated organic material before moving the pile.

We drove to the proposed disposal site, several miles from the pile. We walked the area of the hillside that will be used for disposal. At the time of our visit, a drilling crew was working near what will be the lower perimeter of the pile.

We then drove to the proposed borrow area, an open cut along the face of a hill. There appeared to be abundant rock of various sizes and durability available. Although some of the rock was vesticular and of poor quality, there also appeared to be durable rock available.

No commitments or agreements were made during this visit.

May 22, 1984

We visited the Beatty low-level site, accompanied by several engineers from U.S. Ecology, Inc., operators of the site. We first toured the trenches where waste had been buried for some time and then the newer trenches where waste is

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currently being emplaced. We then walked to several areas where the site encroaches upon the Amargosa River floodplain. We then drove for approximately 1/4 mile across the floodplain and observed several dry channels of the Amargosa River. We noted the presence of several channelized portions of the floodplain which could affect the stability of any diversion channels that may be needed during closure.

We were also given a tour of the chemical waste disposal facilities (also operated by US Ecology), which are located immediately adjacent to the radioactive waste disposal facilities. We noted that the entire operation seems very efficient and very well run.

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