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WM-39/85/10/01

Distribution:

MEMORANDUM FOR: Dan Martin, WMLU

FROM: Mark Haisfield, WMLU

SUBJECT: MEETING MINUTES FOR SEPTEMBER 27, 1985, MEETING WITH DOE

ATTENDEES: See Attached List

PURPOSE: FOR DOE TO DISCUSS COST ESCALATION OF UMRAP AND POTENTIAL COST REDUCTION TECHNIQUES

SUMMARY

Mr. Baublitz discussed the fact that based on experience to date UMRAP current cost estimates are expected to rise three times from earlier cost estimates and the program will take longer than seven years to complete. DOE will be attempting to reach agreement with EPA and NRC on ways to interpret "reasonable assurance" which could provide cost savings in the \$100 million range. The DOE/NRC working groups are developing general procedures and criteria for design and review of sites. Significant results, of a cost saving nature, from these groups as presented by Roger Williams are:

1. Protection from flooding - If the incremental cost to design for a PMF increases 15 to 20% above a SIP design flood (yet to be determined), then backing off from the PMF might be appropriate. Potential savings are \$13 to \$21 million.
2. Erosion protection from on pile PMP's - DOE would design for the PMP, but would not add extra measures for flow concentration. Potential savings \$5 to \$10 million.
3. Rock durability - DOE would like to be able to use less durable rock when readily available and then monitor more closely for deterioration that would need repair. Potential savings \$5 to \$10 million.
4. Radon barrier cover thickness - DOE would like to use moisture contents higher than the wilting point. NRC will agree if DOE can justify. Potential savings \$20 to \$40 million.
5. Seismic regime - Use MCE for a 10,000 instead of 100,000 year recurrence interval. There is a disagreement between NRC and DOE regarding acceleration assumptions which result in significant design

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changes. Potential savings by using DOE assumptions would be up to \$50 million due to the not having to move up to eight sites.

6. Groundwater - NRC has agreed with DOE that institutional controls can be used when aquifer restoration does not appear to be feasible. Also, although quarterly sampling is a DOE goal, it will not be done in all cases.

Because of the existing uncertainty as to what has been agreed to by NRC and DOE at the working groups, it was agreed that we need to get the groups together to straighten this out. Based on NRC comments during and after this meeting, NRC/DOE working group agreements have not been reached in many of the above six areas.

DOE indicated that based on the current cost experience, they will be asking EPA to relook at Title I standards. Since the current standards used some cost/benefit analysis in their development, the additional data should allow EPA to examine these standards and evaluate their current appropriateness.

DOE will be formalizing the above information and will be sending letters to NRC and EPA.

Mark Haisfield,
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