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NOTE TO: Daniel M. Gillen
Low-Level Waste and Uranium
Recovery Projects Branch
Division of Waste Management

FROM: Steve Smykowski
Engineering Branch
Division of Waste Management

SUBJECT: MINUTES FROM THE NRC/DOE UMTRA RADON BARRIER SRP/DESIGN
MANUAL MEETING - JULY 2, 1985

PARTICIPANTS: Steve Smykowski, WMEG (Lead)
Giorgio Gnugnoli, WMLU
Wesley Davis, WMEG
Kenneth Baker, TAC/DOE
James Keithley, RAC/DOE

WM Record File

WM Project 39

Docket No.

PDR ✓

LPDR

LOCATION: Willste Building
Room 110
Silver Spring, MD

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D. SMITH

(Return to WM, 623-SS)

The following items were determined as a result of the meeting:

1. The TAC will develop a rationale for the sampling plan that will be used when estimating radiological parameter values of the contaminated tailings material and radon barrier material. The rationale as applied to tailings material will take into consideration specific sampling plans based upon the type of remedial action that will be performed (i.e. homogeneous mixing of the tailings material during relocation versus stabilization of the tailings material in place). The NRC will prepare a parameter review procedure which would correspond to the DOE sampling plan.
2. The DOE Design Manual will be based on the EPA criterion that limits the average radon release rate over the entire surface of the disposal site to 20 pCi/m²s. Designs considering the alternative standard that limit the annual average concentration of radon in air at or above any location outside the disposal site to 0.5 pCi/l will not be included in the Design Manual. However, both alternatives of the EPA radon criterion will be addressed in the SRP.

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3. The TAC will investigate the error analysis approach for estimating the cover thickness based upon testing error when determining material parameter values for tailings and cover.
4. The TAC will investigate testing procedures to be used by the DOE to verify that offsite locations comply with the EPA soil cleanup standards.
5. A follow-up meeting is scheduled during the week of August 5 in Albuquerque, New Mexico. Randy Brich, URFO, will be an additional participant at this meeting.
6. The NRC staff gave the TAC/RAC personnel draft copies of the Regulatory Guide on radon attenuation through tailings cover material. The TAC gave the NRC staff publications on sensitivity of parameters affecting the radon barrier cover thickness, long-term moisture content determination, and the estimation of radiological parameter values.

Original Signed By

Steve Smykowski
Engineering Branch
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