

NRC-DOE SAMPLE DISTRIBUTION MEETING  
FEBRUARY 4, 1985

USGS CORE LIBRARY  
MERCURY, NEVADA

Attendees

A list of attendees and their organizational affiliations is attached as Enclosure 1.

Background/Facts

The meeting was convened to provide samples to NRC/ORNL for use in conducting geochemical studies. The agenda included an introduction by Uel Clanton (DOE/WMPO) followed by:

1. A review of core from holes USW G-1, USW G-3 and UE25 A#1 presented by G. Dixon and USGS staff.
2. A brief presentation by B. Crowe on statistical correlation of sorption study results at LANL.
3. The intent and purpose of the NRC/ORNL program was described by John Bradbury of NRC - the project is not intended to duplicate LANL work but rather to evaluate technical approaches and uncertainties that may be involved in tuff sorption studies.
4. A. D. Kelmer discussed the status of ORNL activities relative to tuff. Most ORNL work in the past has been conducted on basalt from BWIP. ORNL plans to concentrate on key radionuclides including Np, U and possibly Tc for the development of isotherms.
5. LANL analytical procedures, including "lessons learned" were discussed by F. Lawrence and K. Thomas of LANL.
6. The above presentations were followed by a general discussion of the quantities and type of core needed and the analytical responsibilities of each laboratory.
7. LANL sorption test procedures (Att. 2) were provided to NRC/ORNL.

Observations

1. Both NRC and DOE agreed that the meeting was productive and represented a useful exchange at the technical level as well as resolving management and procedural questions relative to sample curation and distribution.
2. State of Nevada - Nevada is interested in the process of sample distribution. While the state has no desire for samples at this time, it may desire samples in the future and wants to understand the procedures required.

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Agreements

1. DOE will provide approximately 2kg each of Topopah Spring, Calico Hills, and Bullfrog (saturated) core to NRC/ORNL. Samples will be representative of units and will not be ground or crushed. In addition a small sample of each core will be provided to LANL for thin sections, probe samples and x-ray work. Results will be made available to NRC/ORNL.
2. A large sample (10-15kg) from Busted Butte of the lower portion of Topopah Springs unit will be supplied by GS to NRC/ORNL.
3. Samples will be shipped within 2 weeks of the meeting date.
4. ORNL agreed to supply small (10 to 20g) samples of crushed and sized samples of LANL as each is prepared. ORNL also will supply 5g of each to LLNL for surface area determination.
5. LLNL agreed to perform BET surface area measurements on samples supplied by ORNL and LANL.
6. ORNL agreed to supply container for J-13 well water.

  
Uel Clanton  
Waste Management Project Office  
DOE/NV

  
John Bradbury  
Division of Waste Management  
US NRC

NRC/DOE MEETING

ALL

2/4/85

Mercury, NU

NAME	ORG
G.C. Dixon	USGS
John Bradbury	NRC
A.D. Kelmers	ORNL
Kevin Knauss	LLNL
James G. Blencoe	ORNL
Virginia OVERSAY	LLNL
CARL JOHNSON	STATE OF NEVADA
Paul Presthoff	U.S. NRC
MIKE GLORA	SAIC
Tim Hart	USGS
G. Balloster	LANL
Del Clinton	DOE/UNMID
F. LAWRENCE	LANL
Kim Thomas	LANL
Bruce Crowe	LANL