

RIC 2002

Session W3

“Waste”

John F. Ahearne
Adjunct Professor and Lecturer
Duke University
March 6, 2002



Reports Addressing the Concept and Implementation of Geologic Disposal:

The Disposal of Radioactive Waste on Land (1957)

Thermal Considerations in Deep Disposal of Radioactive Waste (1958)

Disposal of Solid Radioactive Wastes in Bedded Salt Deposits (1970)

Geological Criteria for Repositories for High-Level Radioactive Wastes (1978)

A Study of the Isolation System for Geologic Disposal of Radioactive Wastes (1983)

Social and Economic Aspects of Radioactive Waste Disposal (1984)

Quality Assurance Aspects of Geotechnical Practices for Underground Radioactive Waste Repositories: Proceedings of a Colloquium (1989)

Disposition of High-Level Waste and Spent Nuclear Fuel: The Continuing Societal and Technical Challenges (2001)

Reports Addressing Standards and Regulations:

Radioactive Waste Repository Licensing: Synopsis of a Symposium (1992)

Technical Bases for Yucca Mountain Standards (1995)

Reports Addressing the U.S. DOE's HLW Disposal Program:

An Evaluation of the Concept of Storing Radioactive Wastes in Bedrock Below the Savannah River Plant Site (1972)

Letter Report on the U.S. Department of Energy's Draft Mission Plan for the Civilian Radioactive Waste Management Program (1984)

Reports Addressing the U.S. DOE's HLW Disposal Program (Continue):

Letter Report on the U.S. Department of Energy's Guidelines for Site Selection (1984)

Letter Report to the U.S. Department of Energy on the Methodology for Selecting Candidate Repository Sites (1986)

Rethinking High-Level Radioactive Waste Disposal (1990)

Ground Water at Yucca Mountain: How High Can It Rise? (1992)

Letter Report to the U.S. Department of Energy on the Creation of a Chief Scientist's Position (1994)

Review of the U.S. Department of Energy Technical Basis Report for Surface Characteristics, Preclosure Hydrology, and Erosion (1995)

Major Studies:

Technical Bases for Yucca Mountain
Standards (1995)

Disposition of High-Level Waste and
Spent Nuclear Fuel: The Continuing
Societal and Technical Challenges
(2001)

Current Studies:

Principles and Operational Strategies
for Staged Repository Systems

Long-Term Institutional Management
of DOE Legacy Waste Sites: Phase 2

Challenges:

Responses to 9/11

NWTRB vs. DOE vs. Nevada

Independent Analyses