



## NUCLEAR WASTE TECHNICAL REVIEW BOARD

1111 18th Street, N.W., Suite 801

Washington, D.C. 20036

### Containers and Transportation Panel Albuquerque, New Mexico

August 21, 1989

8:30 - 8:35	Introduction	D. Deere, NWTRB D. Price, NWTRB
8:35 - 8:50	Opening Remarks	R. Stein, DOE/HQ
8:50 - 9:15	Overview of OCRWM Transportation Program	C. Kouts, DOE/HQ
9:15 - 12:15	<b>Cask System Development Program and Related Subjects</b>	
9:15 - 9:30	Overview	C. Kouts, DOE/HQ M. Pellechi, DOE/ID
	-Goals -Strategy -Current activities and status	
9:30 - 10:00	Cask Regulatory Considerations	M. Warrant, Sandia
	-Regulatory Requirements -Codes and Standards in Design -Design Integrity	
10:00 - 10:15	Break	
10:00 - 10:45	Cask Testing	M. Warrant, Sandia
	-Design Support Testing -Prototype Testing -Confirmatory Demonstrations	
10:45 - 11:45	Cask Development	I. Hall, EG&G
	-OCRWM Transportation requirements -Design -Optimization -Certification	
11:45 - 12:00	Cask Fabrication	"
12:00 - 12:15	Cask Carriage Development and Use	"

(Day 1 continued)

12:15 - 1:15 Lunch

1:30 - 4:45 TRANSPORTATION OPERATIONAL PLANNING  
FOR THE FEDERAL WASTE MANAGEMENT  
SYSTEM B. Darrough, DOE/HQ

1:30 - 1:40 Overview of Operational planning

- Goals and objectives
- Strategy
- Current activities and status

1:40 - 2:00 Systems Engineering Approach &  
Transportation Cask Subsystem M. Klimas, DOE/CH

2:00 - 2:40 Servicing and Maintenance Subsystem R. Pope, ORNL  
R. Rothman, DOE/CH  
& C. Kouts, DOE/HQ

- Cask Maintenance Facility

Field Operations Subsystem

- Review current shipping  
experience
- Foreign technology
- Human factors
- R & D programs
- Application of experience to  
Operational planning

2:40 - 2:55 Break

2:55 - 3:20 Transportation Modal Mix R. Rothman, DOE/HQ

- Modal options
- Modal split

3:20 - 3:40 Specialty Services "

- Overweight truck
- Dedicated train
- Truck convoy

3:40 - 4:00 Routing D. Joy, ORNL

- Regulatory framework
- Analyses/models

(Day 1 continued)

4:00 - 4:30	Nevada Routing	C. Gertz, DOE/YMPO
	- Highway	
	- Rail Access	
4:30 - 4:45	Summary and Conclusions	C. Kouts, DOE/HQ

TECHNICAL REVIEW BOARD  
TRANSPORTATION PANEL BRIEFING  
AGENDA

Albuquerque, New Mexico

August 21-23, 1989

(Day 2)

August 22, 1989

8:30 - 12:00	RISK ASSESSMENT/MANAGEMENT	
8:30 - 8:45	Overview of Transportation Risk Assessment	B. Darrough, DOE/HQ
8:45 - 9:15	Probabilistic Risk Assessment	S. Neuhauser, Sandia
	- RADTRAN	
	- TRANSNET	
9:15 - 9:45	RADTRAN Demonstration	J. Cashwell, Sandia
9:45 - 10:00	Break	
10:00 - 10:30	Planned Revisions to RADTRAN for OCRWM Shipments	R. Rothman, DOE/CH
	- Route-Specific Analysis	
	- Quality assurance compliance	
10:30 - 10:50	Individual/Actual Risks	"
	- Incident-free	
	- Accident	
10:50 - 11:20	Perceived Risk	B. Darrough, DOE/HQ & R. Hemphill, Argonne
	- Multi-disciplinary studies	
	- Different approaches in estimating risk	
	- Behavioral consequences of risk perception	
	- DOE studies in risk perceptions	
11:20 - 11:45	Risk Management	B. Darrough, DOE/HQ & P. Sutherland, Battelle
	- Application of risk assessment	
	- Prevention and mitigation of risks	
	- Risk management	
	- Principles applied to Transportation Program	

(Day 2 continued)

11:45 - 1:00 Lunch

1:00 - 4:30 Tour of Sandia Test Facilities

TECHNICAL REVIEW BOARD  
TRANSPORTATION PANEL BRIEFING  
AGENDA

Albuquerque, New Mexico

August 21 - 23, 1989

(Day 3)

August 23, 1989

8:30 - 10:30	INSTITUTIONAL ISSUES	
8:30 - 9:00	Overview of Institutional Program	C. Kouts, DOE/HQ
	- Goals and Objectives	
	- Strategy	
	- Current activities and status	
9:00 - 9:15	Motor Vehicle Inspection	J. Willis, DOE/CH
9:15 - 9:30	Motor Vehicle Permitting/ Overweight Trucks	J. Holm, DOE/CH
9:45 - 10:00	Shipment Monitoring	M. Klimas, DOE/CH
10:00 - 10:30	Emergency Response	C. Kouts, DOE/HQ
	- Existing Programs	
	- Section 180(c) training requirements	
10:30 - 10:45	Break	
10:45 - 2:00	GENERIC ISSUES AFFECTING OCRWM AND TRANSPORTATION	
10:45 - 11:15	System Safety Analysis within the OCRWM Transportation Program	C. Kouts, DOE/HQ
	- System safety analysis	
	- Safety activities	
11:15 - 11:45	Human Factors Engineering within the OCRWM Transportation Program	"
	- Human factors engineering	
	- Human factors engineering activities	

(Day 3 continued)

11:45 - 1:00	Lunch	
1:00 - 1:30	Issue Identification within the OCRM Transportation Program	J. Roberts, DOE/CH
	- Systems engineering approach - Institutional issue identification	
1:30 - 2:00	General Wrap-up Discussion	All
2:00 - 2:15	Break	
2:15 - 4:00	Waste Package Container Corrosion	M. Cloninger, DOE/YMPO & D. Stahl, SAIC
	- General overview - Corrosion issues	
4:00 - 4:15	Final comments	