

**U. S. DEPARTMENT OF ENERGY  
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

**PRESENTATION TO  
THE NUCLEAR WASTE TECHNICAL REVIEW BOARD**

**SUBJECT: OVERVIEW**

**PRESENTER: CHRIS KOUTS**

**PRESENTER'S TITLE**

**AND ORGANIZATION: MANAGER, TRANSPORTATION BRANCH  
DOE-HQ (OCRWM)  
WASHINGTON, DC**

**PRESENTER'S**

**TELEPHONE No: (202) 586-2285**

**AUGUST 21-23, 1989**

# **CASK SYSTEMS DEVELOPMENT PROGRAM**

## **0 OBJECTIVES**

- SAFETY**
- HIGHER EFFICIENCY/PAYLOAD**
- PUBLIC ACCEPTANCE**

## **0 PURPOSE - PROVIDE NRC-CERTIFIED TRANSPORTATION CASKS FOR OCRWM**

- FROM-REACTOR, SPENT FUEL**
- FROM-MRS, SPENT FUEL**
- SPECIALTY CASKS, MISC. FUEL/NFBC**
- DEFENSE WASTE, HLW**

# **CASK DEVELOPMENT STRATEGY**

- 0 PHILOSOPHY - DEVELOP SAFE AND EFFICIENT CASKS**
  - NONPROSCRIPTIVE, BOUNDING SPECIFICATION PROVIDED**
  - USE SKILLS OF VENDORS**
  - PROVIDE FOR INNOVATION**
  
- 0 JOINT DOE, EG&G, SNL, AND CASK CONTRACTOR EFFORT**

**PROGRAM ACTIVITIES FOR PHASE 1 OF THE  
FROM-REACTOR CASK PROGRAM INCLUDE:**

- 0 DEVELOP FROM-REACTOR CASKS BY 1998  
TO SUPPORT OCRWM SHIPMENTS**
- 0 CONDUCT TECHNOLOGY DEVELOPMENT TO SUPPORT  
ABOVE INITIATIVE**
- 0 SUPPORT INSTITUTIONAL AND OPERATIONAL  
ELEMENTS OF THE PROGRAM**

## **TECHNICAL REVIEW GROUP**

- 0 DESIGN SUBMITTALS ARE REVIEWED BY A GROUP OF EXPERTS WITH TECHNICAL EXPERTISE IN SELECTED AREAS**
- 0 A TRG HAS BEEN ASSIGNED FOR EACH CASK CONTRACTOR**
  - DESIGN SUBMITTALS**
  - MISCELLANEOUS TECHNICAL SUBMITTALS**

# TECHNICAL REVIEW GROUP DISCIPLINES

0 STRUCTURAL

0 CRITICALITY

0 SHIELDING

0 ALARA

0 CASK HANDLING

0 MATERIALS

0 THERMAL ANALYSIS

0 TRANSPORTATION

0 QUALITY

0 SAFETY

**U. S. DEPARTMENT OF ENERGY  
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

**PRESENTATION TO  
THE NUCLEAR WASTE TECHNICAL REVIEW BOARD**

**SUBJECT: CASK SYSTEMS DEVELOPMENT  
PROGRAM OVERVIEW**

**PRESENTER: MARK PELLECHI**

**PRESENTER'S TITLE**

**AND ORGANIZATION:**

**PROJECT MANAGER**

**IDAHO OPERATIONS OFFICE**

**U. S. DEPARTMENT OF ENERGY**

**IDAHO FALLS, ID**

**PRESENTER'S**

**TELEPHONE No: (208) 526-9916**

**AUGUST 21-23, 1989**

# **CASK PROGRAM**

- 0 STATUS**
- 0 REGULATIONS, CODES, STANDARDS**
- 0 CASK TESTING**
- 0 CASK DEVELOPMENT/FABRICATION**



# CASK CONTRACTORS

## 0 LEGAL WEIGHT TRUCK CASKS

- GENERAL ATOMICS (GA)
- WESTINGHOUSE (W)

## 0 RAIL/BARGE CASKS

- BABCOCK AND WILCOX (B&W)
- NUCLEAR ASSURANCE CORPORATION (NAC)
- NUCLEAR PACKAGING (NUPAC)

## **CASK CONTRACTORS (CONT')**

- O PRELIMINARY DESIGN -- ONE YEAR**
- O FINAL DESIGN -- ONE YEAR**
- O SAFETY ANALYSIS REPORT -- TWO YEARS**
- O NRC CERTIFICATION -- TWO YEARS**

## **CASK CONTRACTOR STATUS**

- O ALL HAVE NRC AND DOE-ID APPROVED QA PROGRAMS**
- O ALL HAVE COMPLETED PREREQUISITE DOCUMENTATION FOR START OF PRELIMINARY DESIGN**
- O ALL ARE IN PRELIMINARY DESIGN**
- O ADDITIONAL TRADE-OFF STUDIES BEING INITIATED**
- O EXPECT START OF FINAL DESIGN IN FY-1990**

# Cask System Development Program From-Reactor Cask Schedule

