

**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

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**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

