

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

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

**SUBJECT: SERVICING AND MAINTENANCE SUBSYSTEM
FIELD OPERATIONS SUBSYSTEM**

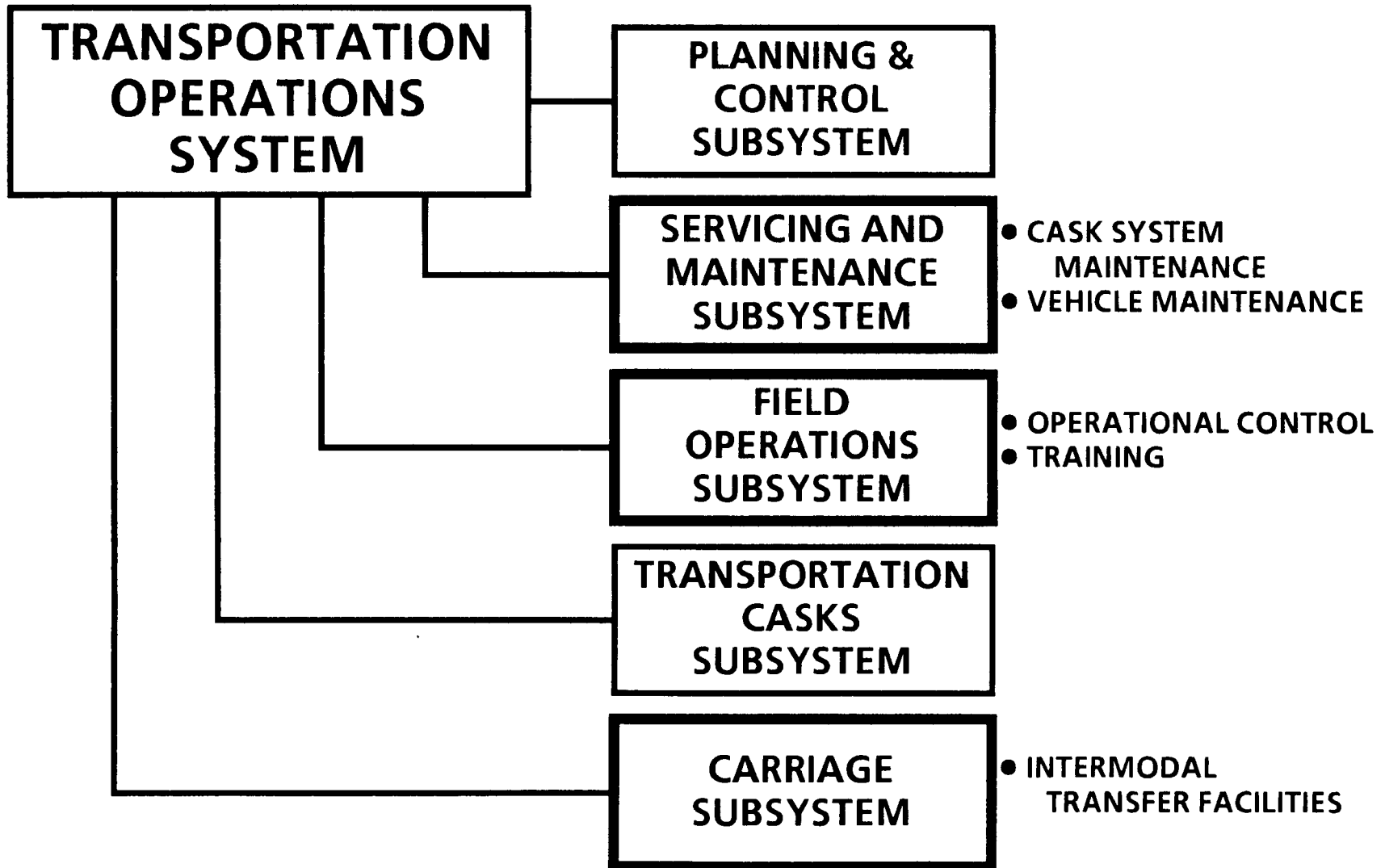
PRESENTER: RONALD POPE

**PRESENTER'S TITLE
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AUGUST 21, 1989

THE TRANSPORTATION OPERATIONS SYSTEM ELEMENTS RELATED TO OPERATIONAL FACILITIES



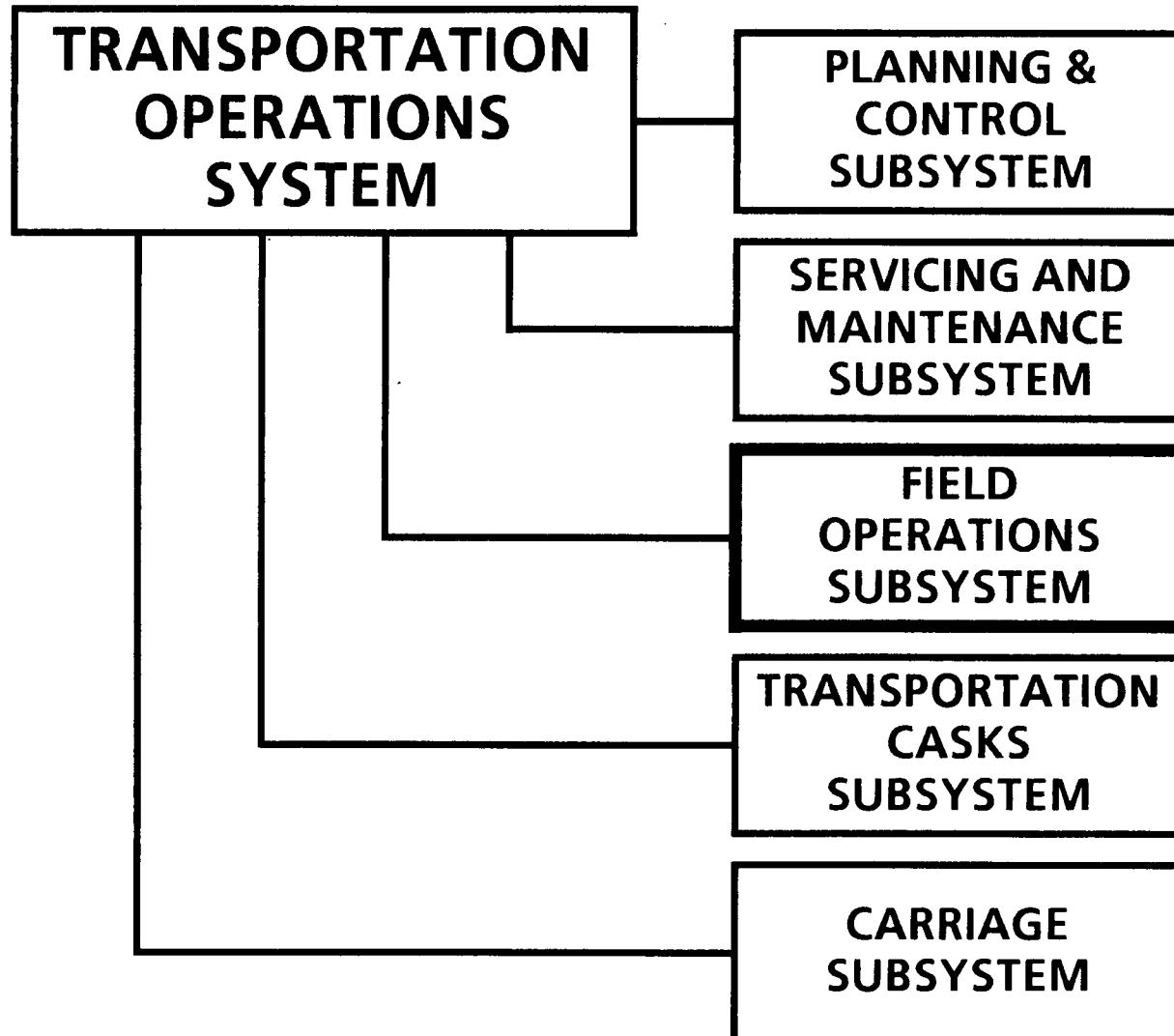
CASK MAINTENANCE FACILITY FEASIBILITY STUDY

- **INITIATED IN FY 88, EXPECTED COMPLETION IN FY 90**
- **PERFORMED TO DEVELOP ESTIMATE OF COST AND SCHEDULE**
- **DEVELOPED FACILITY SYSTEMS REQUIREMENTS**
- **LONGEST LEAD TIME OPERATIONS FACILITY**
- **ASSUMED TO BE**
 - **OPERATIONAL WHEN FLEET BECOMES OPERATIONAL**
 - **A STAND-ALONE FACILITY**
 - **GOVERNMENT-OWNED CONTRACTOR-OPERATED FACILITY**

CASK MAINTENANCE FACILITY (CMF) FUNCTIONS

- **SCHEDULE AND PERFORM CASK INSPECTION, TESTING, PREVENTIVE SERVICING AND MAINTENANCE, AND DAMAGE REPAIR**
- **PROVIDE CAPABILITY TO PERFORM UNPLANNED CASK REPAIR AND INSPECTION AT LOCATIONS OTHER THAN THE CMF**
- **PROVIDE CASK RECONFIGURATION CAPABILITY INCLUDING STORAGE AND MAINTENANCE OF RECONFIGURATION HARDWARE**
- **PROVIDE FOR INTERNAL AND EXTERNAL CASK DECONTAMINATION AND CLEANING**
- **SUPPORT CASK RECERTIFICATION**

THE TRANSPORTATION OPERATIONS SYSTEM ELEMENTS



FIELD OPERATIONS SUBSYSTEM

- **SUBSYSTEM INVOLVES SERVICES, DATA, PROCEDURES, AND EQUIPMENT PERTAINING TO**
 - **FACILITY/TRANSPORTATION INTERFACE**
 - **FACILITY TECHNICAL SUPPORT**
 - **WASTE ACCEPTANCE OPERATIONS**
 - **FACILITY INTERFACE EQUIPMENT**
 - **EMERGENCY RESPONSE OPERATIONS SUPPORT**
- **FIRST STEP**
 - **OBTAIN, ASSESS, AND INTEGRATE PAST AND ONGOING EXPERIENCE**

INTEGRATION OF EXPERIENCE INTO FIELD OPERATIONS PLANNING

- **OBSERVE AND DOCUMENT TRANSPORTATION ACTIVITIES**
- **OBTAIN FOREIGN TECHNOLOGY INFORMATION**
- **PERFORM RESEARCH AND DEMONSTRATION PROGRAMS**
- **APPLY EXPERIENCE TO DEVELOPMENT OF TRANSPORTATION OPERATIONS PLAN**
- **PROVIDE INPUT TO CASK SYSTEMS DEVELOPMENT**
- **ULTIMATE GOAL**
 - **PROVIDE COST EFFECTIVE, FULLY INTEGRATED, SAFE TRANSPORTATION OPERATIONS SYSTEM**

CASK OPERATIONS STUDIES

- **DOCUMENT EXPERIENCE WITH CURRENT CASK SYSTEMS AND CASK FLEET OPERATIONS**
 - **LEGAL WEIGHT TRUCK**
 - **OVERWEIGHT TRUCK**
 - **IF-300 RAIL CASK OPERATIONS (PLANNED)**
- **DOCUMENTATION COVERS TWO AREAS**
 - **CURRENT OPERATIONS AND PRACTICE**
 - **RECOMMENDATIONS FOR CASK SYSTEM IMPROVEMENTS**

INPUT BEING OBTAINED FROM PAST AND CURRENT OPERATIONS

- **CASK OPERATIONS STUDIES ADDRESS**
 - **QA IN PARTS CONTROL**
 - **FACILITY FOR RECONFIGURATION**
 - **FACILITY FOR MAINTENANCE**
 - **CASK CERTIFICATION MAINTENANCE INTERVALS**
 - **CASK LIFTING, HANDLING, LOADING**
 - **DESIGN OF IMPACT LIMITERS, CASK LIDS, BASKETS**
 - **DESIGN OF PERSONNEL BARRIERS**
 - **BOLT HANDLING**

INTEGRATION OF OPERATING EXPERIENCE INTO TRANSPORTATION OPERATIONS SYSTEM

- **UTILIZE AVAILABLE DOCUMENTATION OF EXPERIENCE**
- **OBSERVE AND DOCUMENT CURRENT EXPERIENCE**
 - **EXAMPLE: OBSERVATION OF SAN ONOFRE NUCLEAR GENERATION STATION**
- **OBTAIN APPLICABLE FOREIGN EXPERIENCE AND TECHNOLOGY**