Transportation Program Update

James Carlson, Director, Transportation and Logistics Division
Office of Civilian Radioactive Waste Management

Presented to
Nuclear Waste Technical Review Board
March 11, 1992
SUPPORT SYSTEM AND OPERATIONAL PLANNING ACTIVITIES

- EVALUATING IMPLICATIONS OF STANDARD CONTRACT WITH WASTE GENERATORS ON THE TRANSPORTATION SYSTEM
  - AGREEMENTS WILL DEFINE, IN MORE DETAIL, TRANSPORTATION SYSTEM REQUIREMENTS
  - GOAL IS TO INTEGRATE WASTE ACCEPTANCE PROCESS AND TRANSPORTATION PLANNING

- EVALUATING REACTOR SITE HANDLING AND LOADING CAPABILITIES AND LOCAL TRANSPORTATION INFRASTRUCTURE
SUPPORT SYSTEM AND OPERATIONAL PLANNING ACTIVITIES (CON'T)

- DEVELOPING SITE SPECIFIC SERVICE PLANNING DOCUMENTS
- BEGINNING LONG-TERM SITE SPECIFIC LOGISTICAL PLANNING
- IDENTIFYING COMPONENTS NEEDED FOR TRANSPORTATION OPERATIONS
- ESTABLISHING CASK MAINTENANCE FACILITY REQUIREMENTS
- REVIEWING TRANSPORTATION SYSTEM OPERATIONAL MANAGEMENT OPTIONS
  - IDENTIFY OPTIONS THAT ARE AVAILABLE TO DOE IN MANAGING THE TRANSPORTATION SYSTEM
  - IDENTIFY THE ADVANTAGES AND DISADVANTAGES OF EACH OPTION
INSTITUTIONAL PLANNING

• SECTION 180(C) ASSISTANCE STRATEGY AND OPTIONS PAPER
  - DRAFT STRATEGY PUBLISHED IN JANUARY

• CVSA INSPECTION PROCEDURES

• ROUTING

• PUBLIC OUTREACH
IMPLEMENTING SECTION 180(C)
A FIVE-STEP PROCESS

• STRATEGY

• POLICY OPTIONS PAPER

• POLICY STATEMENT

• IMPLEMENTATION PLAN

• IMPLEMENT TRAINING ASSISTANCE
SECTION 180(C) STATUS

- DRAFT STRATEGY FOR OCRWM TO PROVIDE TRAINING ASSISTANCE TO STATE, TRIBAL AND LOCAL GOVERNMENTS
  - HAS BEEN DISTRIBUTED
  - ANNOUNCEMENT OF AVAILABILITY PUBLISHED IN FEDERAL REGISTER MARCH 6, 1992
  - THERE WILL BE A 60 DAY COMMENT PERIOD

- DRAFTING SECTION 180(C) POLICY OPTIONS PAPER

- INTEGRATING WITH OTHER DOE EMERGENCY PREPAREDNESS ACTIVITIES
DRAFT 180 (C) STRATEGY
ISSUED FOR COMMENT

• DISCUSSES LEGAL ISSUES SURROUNDING THE REQUIREMENT

• INCLUDES PLANNING PRINCIPLES BASED ON COMMENTS RECEIVED FROM EXTERNAL PARTIES ON PREVIOUS DRAFT

• INCLUDES A PROPOSED ORGANIZATIONAL MEMBERSHIP FOR WORKING GROUP

• ADDS DEFINITIONS TO THE TERMS USED IN THE LANGUAGE OF SECTION 180(C)

• STATES THE DOE WILL IMPLEMENT ITS SECTION 180(C) REQUIREMENTS BY USING THE RULEMAKING PROCESS
DRAFTING THE SECTION 180(C)
POLICY OPTIONS PAPER

OCRWM IS CONDUCTING RESEARCH ON:

- DOE AND OTHER FEDERAL FUNDING MECHANISMS
  - FEMA - COMPREHENSIVE COOPERATIVE AGREEMENT (CCA)
  - EPA - SARA TITLE III FUNDING TO STATES THROUGH FEMA CCA
  - DOT MOTOR CARRIER SAFETY ASSISTANCE PROGRAM (MCSAP)
  - DOE - MECHANISMS INTERNALLY FOR OCRWM OR DOE-WIDE GRANT PROGRAM
  - HMTUSA GRANT PROGRAM
DOE TRANSPORTATION EMERGENCY PREPAREDNESS EXTERNAL COORDINATION (TEC) WORKING GROUP

• WILL ADDRESS DOE ASSISTANCE FOR THE TRANSPORTATION OF RADIOACTIVE MATERIALS EMERGENCY PREPAREDNESS

• FIRST MEETING MARCH 31-APRIL 1, 1992, NEW ORLEANS, LA

• MEETING OPEN TO THE PUBLIC

• OCRWM WILL CHAIR WORKING GROUP

• MEMBERSHIP WILL INCLUDE REPRESENTATIVES FROM STATE, REGIONAL, LOCAL, TRIBAL, AND INDUSTRY ORGANIZATIONS
INTEGRATION WITH OTHER DOE EMERGENCY PREPAREDNESS ACTIVITIES

- DOE HAS CONVENED A DEPARTMENT-WIDE TRANSPORTATION EMERGENCY PREPAREDNESS PROGRAM (TEPP) TO:
  - COORDINATE ALL DOE TRANSPORTATION EMERGENCY PREPAREDNESS ACTIVITIES
  - ASSESS STATE AND LOCAL SUPPORT NEEDS
  - AN OCRWM REPRESENTATIVE WILL SERVE ON A TEPP SUBCOMMITTEE ON STATE, TRIBAL, AND LOCAL NEEDS

- DOE WILL IMPROVE COORDINATION AND MINIMIZE DUPLICATIVE TRAINING FOR STATE, LOCAL, AND TRIBAL PERSONNEL DEALING WITH OCRWM, WIPP, AND OTHER DOE PROGRAMS
CVSA INSPECTION PROCEDURES PROJECT

- OCRWM ENTERED INTO A COOPERATIVE AGREEMENT IN 1986 WITH COMMERCIAL VEHICLE SAFETY ALLIANCE (CVSA), TO:
  - DEVELOP UNIFORM INSPECTION OF VEHICLES CARRYING SPENT FUEL AND HIGH-LEVEL WASTE
  - DEVELOP CRITERIA FOR INSPECTIONS OF
    - DRIVERS,
    - SHIPPING PAPERS
    - VEHICLE,
    - AND PACKAGE.

- GOAL OF EFFORT: TO STANDARDIZE INSPECTIONS AND MINIMIZE OR ELIMINATE THE NEED FOR EN ROUTE INSPECTIONS
CVSA PROJECT MILESTONES

1989 - COOPERATIVE AGREEMENT EXTENDED FOR 5 YEARS TO CONDUCT PILOT STUDY TO TEST INSPECTION PROCEDURES ON WIPP SHIPMENTS

1990 - COOPERATIVE AGREEMENTS SIGNED BETWEEN CVSA AND THE 7 WIPP CORRIDOR STATES

1991 - PROCEDURES AND PILOT STUDY DEVELOPED

5/1992 - PILOT COURSE SCHEDULED (TENTATIVE)

1992-95 - WIPP SHIPMENTS AND OTHER RADIOACTIVE WASTE SHIPMENTS WILL BE INSPECTED UNDER PILOT PROCEDURES

1995 - PROCEDURES WILL BE RECOMMENDED TO ALL CVSA MEMBERS FOR ADOPTION
HIGHWAY AND RAIL ROUTING ISSUES

- OCRWM is required to follow federal highway routing regulations for the transport of spent nuclear fuel.
  - All shipments must be on preferred routes or designated alternative routes.
  - All routes must be NRC approved.

- Routes selected must be the shortest distance from pick-up and delivery to the preferred route; and use reduced time in transit criteria on the preferred route. Variation to ensure physical security is permitted to meet NRC requirements.

- No federal rail routing requirements for spent nuclear fuel exist, although
  - Rail routes for spent fuel shipments must be NRC approved.
STATE AND TRIBAL HIGHWAY
ALTERNATIVE ROUTE DESIGNATION

• 8 STATES HAVE DESIGNATED ALTERNATIVE ROUTES
  - ARKANSAS, COLORADO, IOWA, KENTUCKY, NEBRASKA, TENNESSEE, VIRGINIA, AND NEW MEXICO

• 7 OTHER STATES HAVE DESIGNATED THE INTERSTATE

• NO TRIBES HAVE DESIGNATED ALTERNATIVE ROUTES

• NEVADA IS IN THE PROCESS OF ROUTE DESIGNATION

• DOE WILL ASSIST STATES AND INDIAN TRIBES WITH COMPUTER MODELS AND THROUGH COOPERATIVE AGREEMENT GROUPS
PUBLIC OUTREACH ACTIVITIES

• DEVELOPMENT OF NEW TRANSPORTATION EXHIBIT FOR DISPLAY AT NATIONAL AND REGIONAL MEETINGS

• CASK MODELS

• UPDATES OF TRANSPORTATION FACT SHEETS AND BROCHURES

• AVAILABILITY OF THE FILM: "ENGINEERED FOR SAFETY"

• SUPPORT NEWS REQUESTS AND OCRWM BULLETIN DEVELOPMENT

• BRIEFINGS AND TECHNICAL PAPERS PRESENTED AT NATIONAL MEETINGS
FUTURE INSTITUTIONAL ACTIVITIES

1991 - 1993

- DEVELOP PLANS FOR SECTION 180(C) TRAINING ASSISTANCE

- CONDUCT CVSA INSPECTIONS OF WIPP SHIPMENTS

- SUPPORT MRS EA AND EIS ACTIVITIES

- DEVELOP DRAFT RAIL ROUTING CRITERIA FOR OCRWM SHIPMENTS
FUTURE INSTITUTIONAL ACTIVITIES (CON’T)

1994 - 1995

• IDENTIFY POTENTIAL ROUTES FOR 180(C) TRAINING PURPOSES
• BEGIN TRAINING ASSISTANCE TO STATES AND INDIAN TRIBES
• CVSA ADOPTION OF UNIFORM STATE INSPECTION PROCEDURES
• BEGIN TO WORK DIRECTLY WITH CORRIDOR STATES AND INDIAN TRIBES

1995 - 1997

• CONTINUE PROVIDING TRAINING ASSISTANCE TO STATES AND INDIAN TRIBES
• CONTINUE TO WORK WITH STATES AND INDIAN TRIBES IN PREPARATION OF SHIPMENTS