

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

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

**SUBJECT: DOE UPDATE ON PRIOR NUCLEAR
WASTE TECHNICAL REVIEW BOARD
CONCERNS AND RECOMMENDATIONS**

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FIVE TRANSPORTATION RECOMMENDATIONS IN THE BOARD'S MARCH 1990 REPORT

- **RADTRAN/TRANSNET VALIDATION**
- **TRANSNET USER NEEDS ASSESSMENT**
- **TRANSPORTATION SYSTEM SAFETY PROGRAM**
- **TRANSPORTATION HUMAN FACTORS PROGRAM**
- **EVALUATION OF RISK-BASED PLANNING TOOLS**

OCRWM RESPONSE TO BOARD'S REPORT

- **INTERNAL EVALUATION OF BOARD'S
RECOMMENDATIONS & CONCERNS**
- **REQUESTED FIELD OFFICE & CONTRACTOR
INPUT**
- **ASSESSED CURRENT ACTIVITIES**
- **EVALUATING EUROPEAN EXPERIENCE**
- **IMPLEMENTING ACTIONS IN RESPONSE TO
BOARD'S CONCERNS**

RADTRAN/TRANSNET VALIDATION

- **RADTRAN IS BEING DOCUMENTED TO OCRWM QA STANDARDS**
- **RADTRAN HAS APPLICATIONS IN DOE BEYOND OCRWM**
- **OCRWM IS INVESTIGATING MEANS TO INDEPENDENTLY PEER REVIEW RADTRAN IN A MANNER THAT WILL SERVE ALL DOE INTERESTS.**
- **OCRWM WILL KEEP THE BOARD INFORMED OF PROGRESS AND ACTIONS**

TRANSNET USER NEEDS ASSESSMENT

- **RADTRAN USER MANUAL IS BEING DEVELOPED**
- **DATA MODULES SPECIFIC TO OCRWM ARE BEING DEVELOPED**
- **FURTHER EVALUATIONS WILL BE MADE OF USER NEEDS AS MODULES ARE INCORPORATED**
- **DOE/EM PERIODICALLY ASSESSES USER TRENDS AND REQUESTS**
- **PEER REVIEW TEAM WILL EVALUATE TRANSNET USER NEEDS**

TRANSPORTATION SYSTEM SAFETY

- **OCRWM OFFICE OF SYSTEMS AND COMPLIANCE HAS OVERALL RESPONSIBILITY FOR DEVELOPING OCRWM SYSTEMS SAFETY REQUIREMENTS**
- **SAFETY REQUIREMENTS FOR TRANSPORTATION ACTIVITIES ARE EMBODIED IN NRC AND DOT REGULATIONS**
- **OCRWM WILL DEVELOP A TRANSPORTATION SYSTEM SAFETY PROGRAM PLAN**
- **PLAN WILL ADDRESS APPLICABLE REQUIREMENTS, CASK DESIGN, OPERATIONS PLANNING, SYSTEM SAFETY ENGINEERING AND APPLICATION OF RISK-BASED PLANNING TOOLS**

EVALUATION OF RISK-BASED PLANNING TOOLS

- **OCRWM IS EVALUATING APPLICABILITY OF THE MANAGEMENT OVERSIGHT RISK TREE (MORT) TO THE TRANSPORTATION PROGRAM**
- **OCRWM IS RETAINING AN OUTSIDE CONSULTANT FOR THE EVALUATION**
- **AT A LATER DATE OCRWM WILL DISCUSS RESULTS OF EVALUATIONS WITH THE BOARD**

TRANSPORTATION HUMAN FACTORS PROGRAM

- **OCRWM OFFICE OF SYSTEMS AND COMPLIANCE HAS OVERALL RESPONSIBILITY FOR DEVELOPING OCRWM HUMAN FACTORS REQUIREMENTS**
- **HUMAN FACTORS ENGINEERING IS BEING IMPLEMENTED AT CASK DESIGN LEVEL**
 - **CASK DESIGNERS WILL HAVE HUMAN FACTORS PERSONNEL**
 - **CASK DESIGN REVIEWS WILL INCLUDE HUMAN FACTORS SPECIALISTS**
- **HUMAN FACTORS WILL BE INCORPORATED IN PLANNING FOR TRANSPORTATION OPERATIONS**
- **REPORT IN PREPARATION ON HUMAN FACTORS CONSIDERATIONS IN TRUCK TRANSPORT**