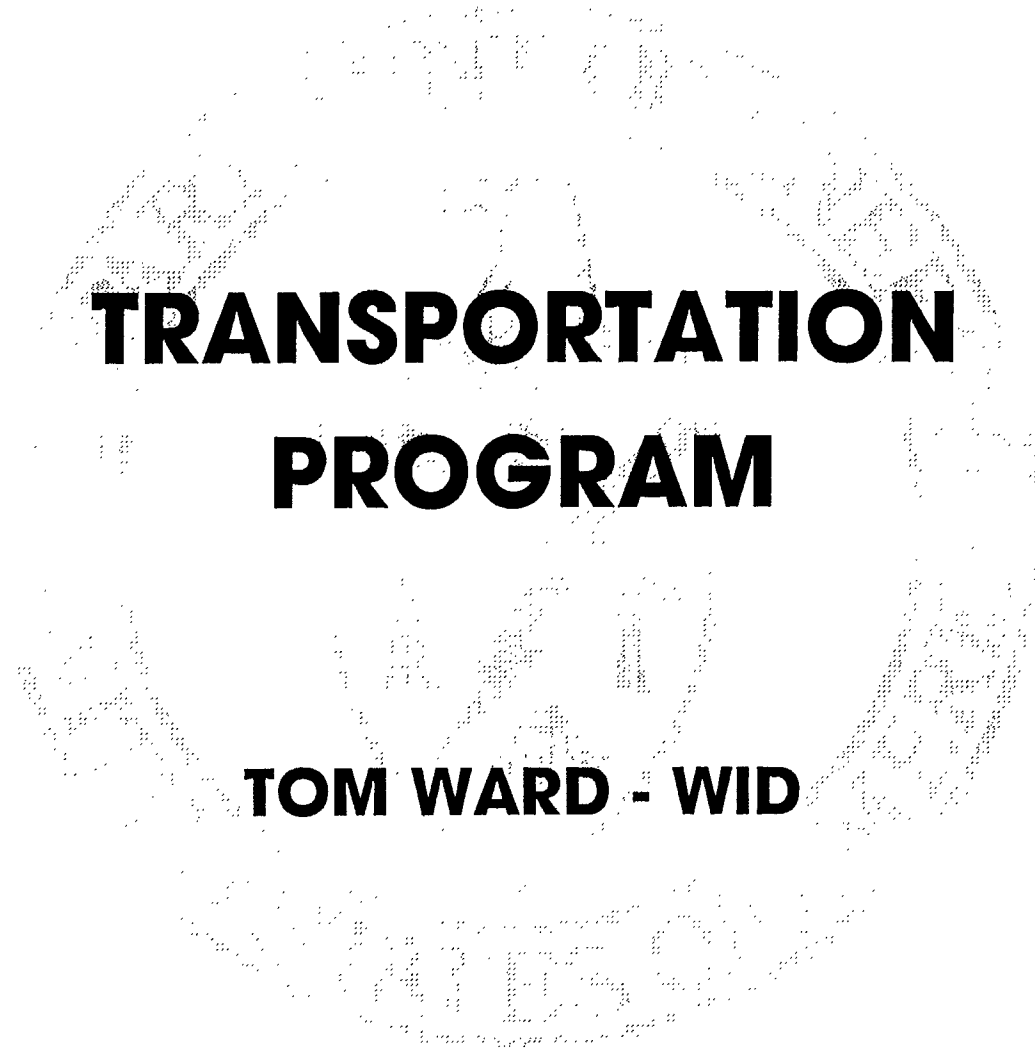


102

28 ✓



TRANSPORTATION PROGRAM

TOM WARD - WID

TRU WASTE TRANSPORTATION LESSONS LEARNED

CARRIER SELECTION

- **Use of dedicated contract carrier provides best control**
 - **Tractors dedicated to TRU waste shipments**
 - **High level of maintenance is assured**
 - **Unique tractor requirements (lightweight)**
 - **Specially trained drivers**
 - **Drivers familiar with TRU waste program requirements**
 - **Management plan tailors operation to TRU waste only**



VEHICLE INSPECTION AND MAINTENANCE

HIGH VISIBILITY ITEM

- **High level of public concern over vehicle condition**
- **CVSA pilot study adopted for WIPP TRU waste shipments**
- **Resulted in vehicles being inspected to this standard prior to departure from NM maintenance facility**
- **Drivers were provided training and qualified CVSA inspectors**
- **Point of origin**
- **Colorado inspection**



ADVERSE WEATHER

MAJOR PUBLIC CONCERN

- **Western Governors' Association states have developed a protocol to notify DOE of local adverse weather**
- **Safe parking agreement was signed with the DOD for this contingency**
- **WIPP Central Monitoring Room continuously monitors weather**



TRAILER/PACKAGE WEIGHT

ALLOWANCES SHOULD BE CONSIDERED

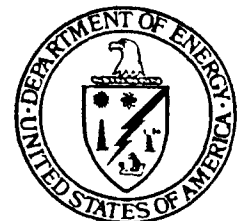
- **To preclude need for overweight permit 80,000 pounds was used**
- **18,000 pounds backed out for tractor**
 - **Actual 17,960 pounds wet**
- **Trailer design weight was 8,500 pounds**
 - **Grew to 9,800 pounds**
- **TRUPACT-II design was 10,800 pounds**
 - **Grew to 12,500 pounds**
- **Weight gain affects payload**



PACKAGE RECOVERY IN EVENT OF AN ACCIDENT

MAJOR CONCERN

- **Plan must be developed and tested to demonstrate capability**
- **Must address damaged package**
 - **Unlikely though it may be**
- **Must address replacement trailers/tractors in reasonable timeframe**
- **Must be demonstrated to states**



CONDUCT TRAILER TEST

- **TRUPACT-II trailer developed frame cracks in non-loadbearing cross members**
- **Cross member was redesigned and is being tested**
- **Public should be made aware of problem and solution**



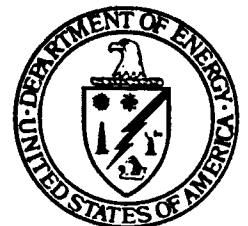
CONDUCT DRY RUNS TO SITES

- **Provides opportunity to test procedures**
- **Familiarizes drivers with routes**
- **Conduct in periods of adverse weather to test protocols**
- **Include shipment of empty packages**



WHAT WOULD I DO DIFFERENTLY NEXT TIME?

- **Restrict carrier selection to dedicated contract carrier**
- **Raise flag about anticipated weight problems earlier**
- **Initiate trailer test program earlier**
- **Develop package recovery guide earlier**
- **Require carrier management plan as part of initial contract**
- **Require peer review in driver selection process after cadre hired**



NATIONAL ACADEMY OF SCIENCES

- **Conclusion**

“The system proposed for transportation of TRU waste to WIPP is safer than that employed for any other hazardous material in the United States today and will reduce risk to very low levels.”

