ONT Projects and Interrelationships

The CDs or Critical Decisions noted on this chart refer to an internal DOE approval process for acquisition of capital assets.
Transportation Update - Funding

Transportation Funding Profile

- Requested Funding
- Actual Funding

- 1999: $2
- 2000: $2
- 2001: $3
- 2002: $4
- 2003: $10
- 2004: $64
- 2005: $187

- 2005: $25

Funding: $ Millions

Transportation Update - Priorities

- Support for the Nevada Rail Alignment EIS
- Support for State Regional Group Cooperative Agreements, Tribal Interactions & other institutional activities
- Support for acquisitions that will advance infrastructure development without major capital requirements (e.g. Procurement of design proposals, but not fabrication of hardware)
- Support for facility conceptual design work, modeling work, and development of operational aspects of the program that do not require major capital expenditures
- Project management and integration costs will be included for all funded activities
Transportation Update - Casks

Cask Acquisition:

- The initial cask approach was to procure design, certification and fabrication all at once
- Current plans are to procure conceptual designs first, followed by certification, and then by separate fabrication contracts
- Contracts for conceptual design and proposals for modified certificates are included in this year’s activities
- Existing designs will service a large portion of future transportation needs
- Integration efforts between transportation and the shippers and the receiver are continuing
- Meetings with the Nuclear Regulatory Commission are held regularly to keep them appraised of the certification workload expected
Transportation Update – Rail Cars

Rail Car Acquisition:

- Meetings with the rail car manufacturing industry representatives were held to solicit their views on how to proceed with eventual rail car design, manufacture, and testing
- Cask and buffer car vendors in the main concurred that all rolling stock acquisition (cask, buffer and escort cars) could be included in one contract
- These vendors also indicated that a five year schedule for developing these cars was realistic
- Conceptual proposals for the train-consist will be pursued this year
- Development of rail car prototypes for testing will be delayed until adequate funding is available
Transportation Update, Facilities

Transportation Support Facility Development:

- Transportation facility design work has been deferred until adequate funding is available.
- Options are being developed for procuring transportation inventory services in lieu of developing facility capabilities for initial operations.
Transportation Update - Institutional

- Work with the four State Regional Groups (SRG) continues on
  - Development of routing criteria and route selection methodology
  - Recommendations for implementing Section 180 (c) of the Nuclear Waste Policy Act

- Transportation External Coordination Working Groups are active
  - Additional participants have been added to the security topic group
  - Tribal Topic Group is being expanded to include all tribes potentially along OCRWM routes
  - Routing Topic Group held training on RADTRAN, TRAGIS and Decision Model
Transportation Update – Institutional
(Continued)

- Communications materials are being developed for TEC review at the next meeting
- Work on updates to the DOE Transportation Protocols and development of detailed operational plans will follow key policy decisions
Transportation Update - Operations

Operations and Security:

- Engaging with the Department of Energy’s (DOE) Office of Security to advance various security projects
  - Launching Transportation Classification Guide interagency working group and review
  - Obtaining security technical assistance on transportation and hardware system designs
  - Examining threat analyses to identify appropriate countermeasures to build at the front end of ONT system
  - Initiating analysis for personnel, physical, and information security, including requirements and special training needs
Transportation Update – Operations (Continued)

• Operations and Security (Continued)
  – Continuing Burn-Up Credit data collection and analysis
  – Progressing on optimization modeling for transportation security and operations
  – Supporting modeling tools, esp. RADTRAN and TRAGIS
  – Collaborating with international partners on transportation sabotage testing
  – Examining federal agency regulations and policies to ensure ‘best practices’ inform the path forward for operations
Transportation Update – Nevada Rail

- The Nevada Rail Alignment EIS was initiated
- Public scoping meetings completed in June 2004
  - Over 4,000 comments received
- Contracts awarded to perform data collection for the EIS and develop conceptual design
  - Meeting with land owners and users prior to conducting surveys
  - Conducting field surveys
  - Developing conceptual design
- Draft EIS is scheduled to be issued in the Spring/Summer of 2005
Transportation Update - Shippers

- Data on shipping facility capabilities were updated last fall
- The data updates include
  - Rated design load lift capacity of cranes
  - Site access and dimensions of cask receiving areas
  - Dimensions and floor loading limits of cask loading and processing areas
- Constraints at shipping sites will impact the number and type of casks needed
Transportation Update - Receiver

- Integration meetings with the Office of Repository Development (ORD) have helped establish an approach to common cask procurements
- Meetings with the ORD surface design team have helped prioritize transportation infrastructure development efforts
- Collaboration with the ORD and local counties on communications infrastructure began
- Collaboration with the ORD surface design team continues as funding and shipper issues are resolved
Intra/Inter-Agency Coordination

- ONT regularly meets with Environmental Management, Office of Nuclear Energy, Science and Technology, and Office of Naval Reactors on transportation issues
- ONT Institutional staff attended Naval Reactors’ transportation exercise in Topeka, KS
- ONT continues to review “lessons learned” from other shipments made by the Department
- Development of routing criteria for repository shipments will take into account the collaborative development process used by the Foreign Research Reactor (FRR) and Waste Isolation Pilot Plant (WIPP) programs
- ONT worked with the Department of Homeland Security, NRC, and Department of Transportation on Critical Infrastructure Protection Plans
Summary

- Office of National Transportation has a funding shortfall in FY05, but critical infrastructure development activities are still supported.

- By focusing on completion of the Nevada RA EIS and development of conceptual designs for casks and rail cars, progress on final design/construction and fabrication can begin quickly when funding increases.

- The Department will continue working with States and Tribes to resolve transportation issues such as routing and emergency response training. Progress in this area is significant.

- Successful development of the transportation system to move spent fuel and high level waste is appropriately tied to development of the repository.