



U.S. Department of Energy



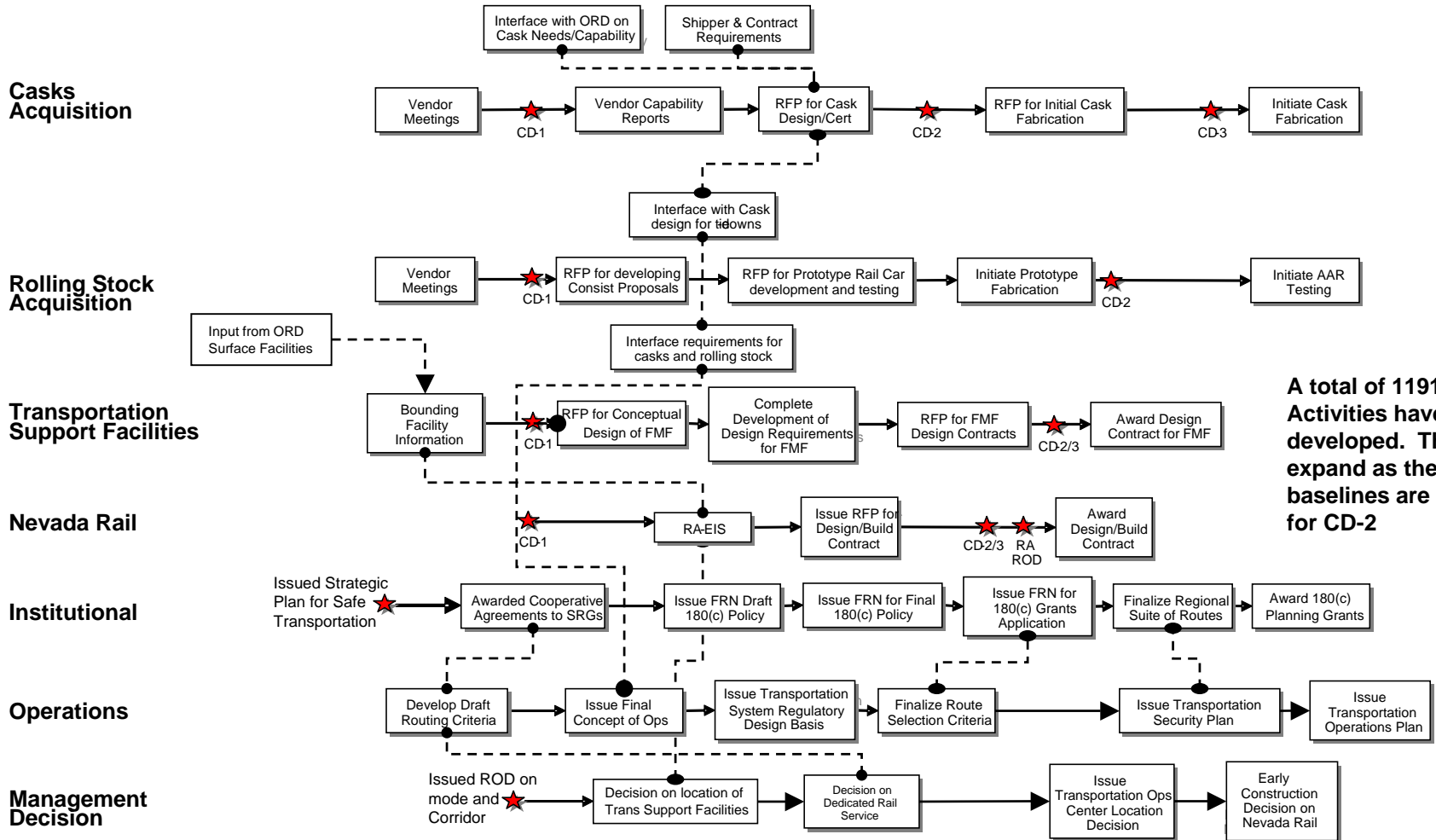
Office of National Transportation Update

**Presented to:
Nuclear Waste Technical Review Board**

**Presented by:
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Office of National Transportation**

**February 10, 2005
Caliente, NV**

ONT Projects and Interrelationships

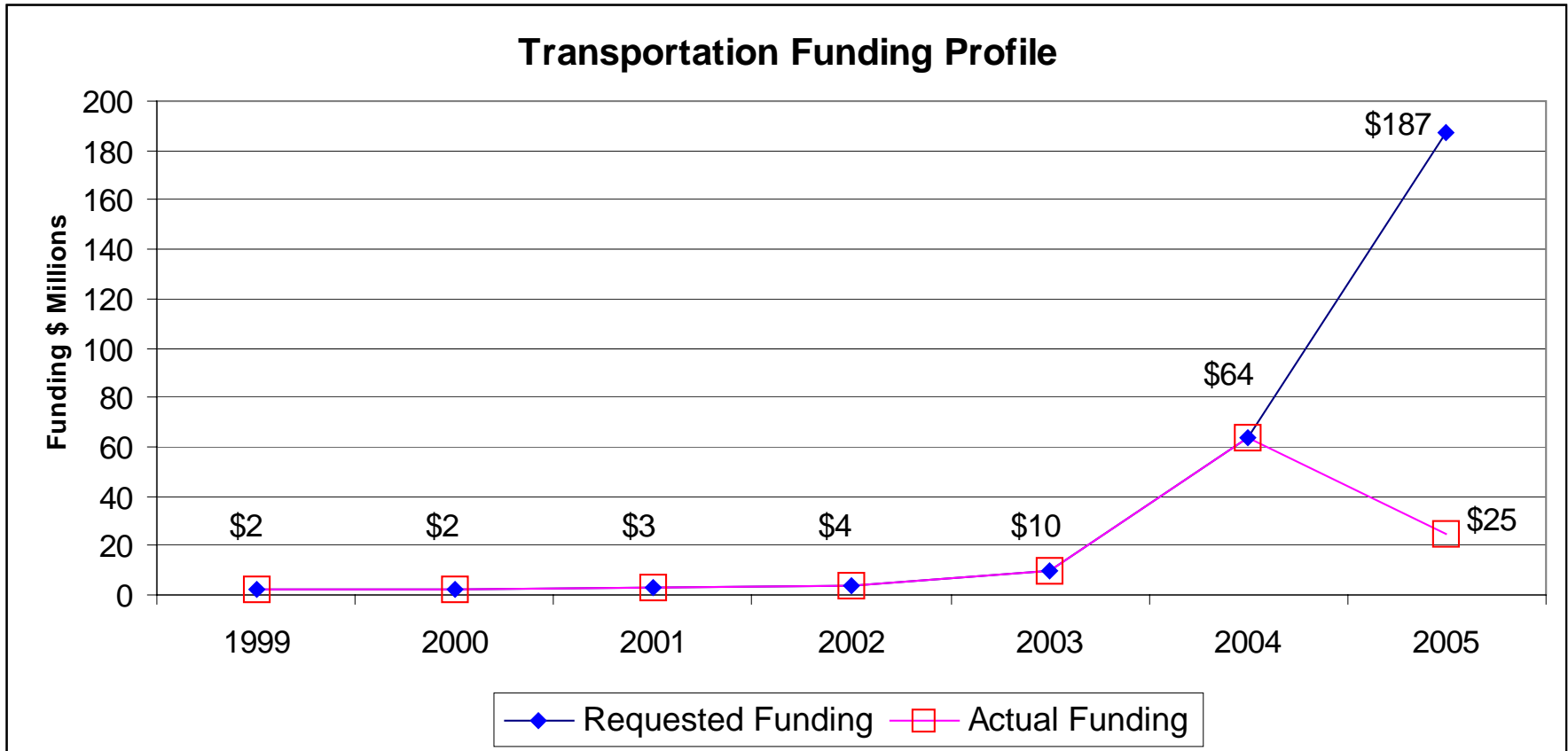


A total of 1191 Activities have been developed. This will expand as the project baselines are finalized for CD-2

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 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**



