



U.S. Department of Energy
Office of Civilian Radioactive Waste Management



Office of National Transportation Infrastructure Development

Presented to:
Nevada Legislative Committee

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EXHIBIT G Lands Document consists of 21 slides.

☒ Entire document provided.

Meeting Date: 12-14-05

Introduction

- **Today, I will talk about**
 - **Fiscal Year (FY) 2006 priorities**
 - **Development of a rail line in Nevada**
 - **Status of land withdrawal from Bureau of Land Management (BLM)**



FY 06 ONT Program Priorities

- **Focus on completing draft Nevada Rail Alignment Environmental Impact Statement (EIS)**
- **Support Waste Acceptance efforts to develop standardized canister**
- **Continue visits to tribes and communities**
- **Coordinate with key stakeholders regarding route selection criteria, Section 180(c) development, and security planning**



Nevada Rail Line Development

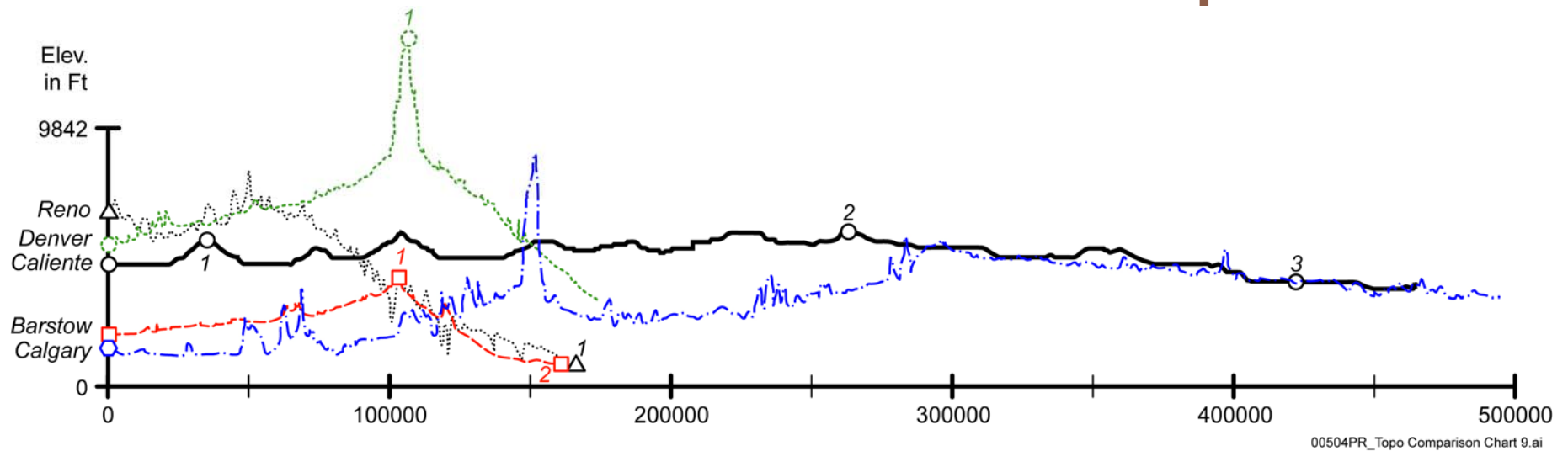
- **Environmental Impact Statement (EIS) work is continuing on the Caliente corridor**
 - **Completing technical data collection along the corridor**
- **Publish draft Rail Corridor EIS in mid-2006**
 - **Hold public hearings to obtain comments on draft Rail Alignment EIS**
- **Publish final EIS in mid-2007**
- **Issue record of decision for Rail Alignment**



Caliente Rail Corridor



Caliente Corridor / Other Pass Comparison



NOTE:
All Profiles start at the Eastern most point.

LEGEND

- — Caliente Rail Topographic Profile (Max Grade 2%)
 - 1 Bennett Pass
 - 2 Warm Springs Pass
 - 3 Beatty Wash
- - - - CP - Rogers Pass Topographic Profile (Max Grade 2.2%)
- - - - UP - Denver West Topographic Profile (Max Grade 2.1%) [.5 Mile of 2.6%]
 - 1 Granby (Moffet Tunnel)
- - - - Cajon Pass Topographic Profile (Max Grade 2.2%)
 - 1 Cajon Pass
 - 2 San Bernadino
- △ - - - Donner Pass Topographic Profile (Max Grade 2.2%) [<Mile 2.4% and <Mile of 2.65%]
 - 1 Sacramento Area



The Nevada Rail Line – Proposed Scope

- **320 miles of line**
- **950,000 concrete rail ties**
- **Approximately 11 construction camps**
- **2,300 construction workers**
- **No tunnels**



Rail Line Operation

- **10,000 cask cars; Operate 25 years**
- **150-200 trains per year (2-3 per week)**
- **5-10 car trains**
- **260/year additional under “Shared Use”**
- **40-50 mph; approximately 7 hours one way**
- **500-650 total staff**



The Rail Roadbed

Cuts, Rail Roadbed, Large Fills, Ballast:

- Total cut and fill of 52 million yards (reuse)
- Total ballast placement of 3 million tons
- Ballast materials – granite, dolomite, and basalt
- 1-4 new quarries and/or commercial sources
- Borrow pits
- Ship ballast via rail



Railroad Crossings



Active



Passive



Railroad Crossings

(Continued)

- **Almost all crossings at grade with passive signage (low traffic, gravel)**
- **US 93, 318, 375 grade separation – over or under**
- **Signals at AR 504, Beaver Dam Road**



Rail Ties

- Typical view
- 950,000 concrete ties

*Concrete
rail ties
sitting
on a
crushed
rock
ballast*



Rail Project Ancillary Facilities

Construction logistics and maintenance capabilities needed for infrastructure development:

- **Maintenance shops and temporary work camps**
- **Switching yards and sidings**
- **Water/wells**
- **Power and communications**
- **Waste management**



Ancillary Facilities

- **Union Pacific Railroad (UPRR) Interchange**
 - Interchange Tracks
 - Staging Yard
- **Maintenance of way**
- **End of line**
- **Fleet management**
(co-located at one of the facilities above)



The Maintenance of Way Facility

- **Maintenance/rail repair for rail system**
- **Near rail line midpoint**
- **6 acre facility; satellite facilities at UPRR and end of line**
- **Buildings, storage, and fenced equipment yards**
- **Approximately 10-15 employees**
- **Multiple locations possible**



Repository End of Line Facility

- **40 acres within proposed Yucca Mountain land withdrawal area**
- **Cask transfer, storage**
- **Fueling, locomotive service**
- **Receipt of construction materials**
- **1 mile south of repository operations**



Fleet Maintenance Facility

- End of line
- Processing casks; fleet management
- 20 acres
- Approximately 300 staff
- 5-6 buildings and tank farm
- Design pending



Nevada Rail Line Procurement Strategy

- We plan to issue a *Federal Register* Notice of Program Interest to discuss Nevada Rail Line procurement with potential vendors
- ONT will decide on a procurement strategy to be pursued based on the vendor input
- Possible options include:
 - Design-build
 - Design-bid-build
 - Construction-manage



Draft Environmental Assessment (EA) for Protection of Public Lands

- **December 2003 application to BLM was filed to protect 308,600 acres of public lands from surface entry and mining – requested 20-year protection**
 - Land would be segregated for two years in anticipation of Rail Alignment EIS completion
 - Two-year segregation will expire in December 2005
- **Draft EA on land withdrawal provides BLM with documentation on**
 - Mineral resources and socioeconomic analyses
 - Land use and ownership
 - Public participation
 - Intergovernmental consultation



Draft EA for Protection of Public Lands (continued)

- **EA preferred alternative is for 10-year withdrawal which should be enough time to complete the Rail Alignment EIS and issue a record of decision on the corridor alignment**



Summary

- **Nevada Rail continues to be ONT's highest priority**
- **ONT will be ready when it is time to ship**

