



Update on Yucca Mountain and State of Nevada Activities

Presentation to
City Council, Las Vegas, Nevada
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Overview

- Status of Yucca Mountain Repository Project
- Expected Events over next 90 Days
- Safety Case against Yucca Mountain
- Business Case against Yucca Mountain



Yucca Mountain Status

- DOE – Project terminated, moved to withdraw license application, no funding request (2010)
- NRC – Licensing proceeding suspended (2011)
- Congress – Zero appropriation for FY 2012, 2013 & 2014 (continuing resolution?)
- US Court of Appeals -- August 13, 2013 Ordered NRC to promptly restart licensing proceeding
- State of Nevada & Nye County filed Motions with NRC regarding licensing restart



Expected Events

- Track 1, Responses to motions filed with the NRC regarding the structure and schedule of the proceeding and recusal & disqualification (Sept. 3)
- Track 2, NRC response to the order of the court - Likely Commission meeting in October, proceeding could resume as early as November (Chairman Macfarlane to testify before Congress Sept. 10)
- Track 3, Motions for Reconsideration to the CADC can be filed through September 27; Nevada is currently evaluating all options



Safety Case Against Yucca Mountain

- Spent nuclear fuel is dangerous
- The site is unsuitable
- The repository design is flawed
- Transportation impacts are unacceptable



Spent Nuclear Fuel is Dangerous

Fresh fuel is not dangerous



Spent fuel

Fuel Cooling Time (years)	Unshielded Lethal Exposure Time
1	15 seconds
5	75 seconds
10	3 minutes
50	7 minutes
100	28 minutes

Storage Risks: Lessons of Fukushima Daiichi

Transportation Accident/Sabotage Cleanup Costs:

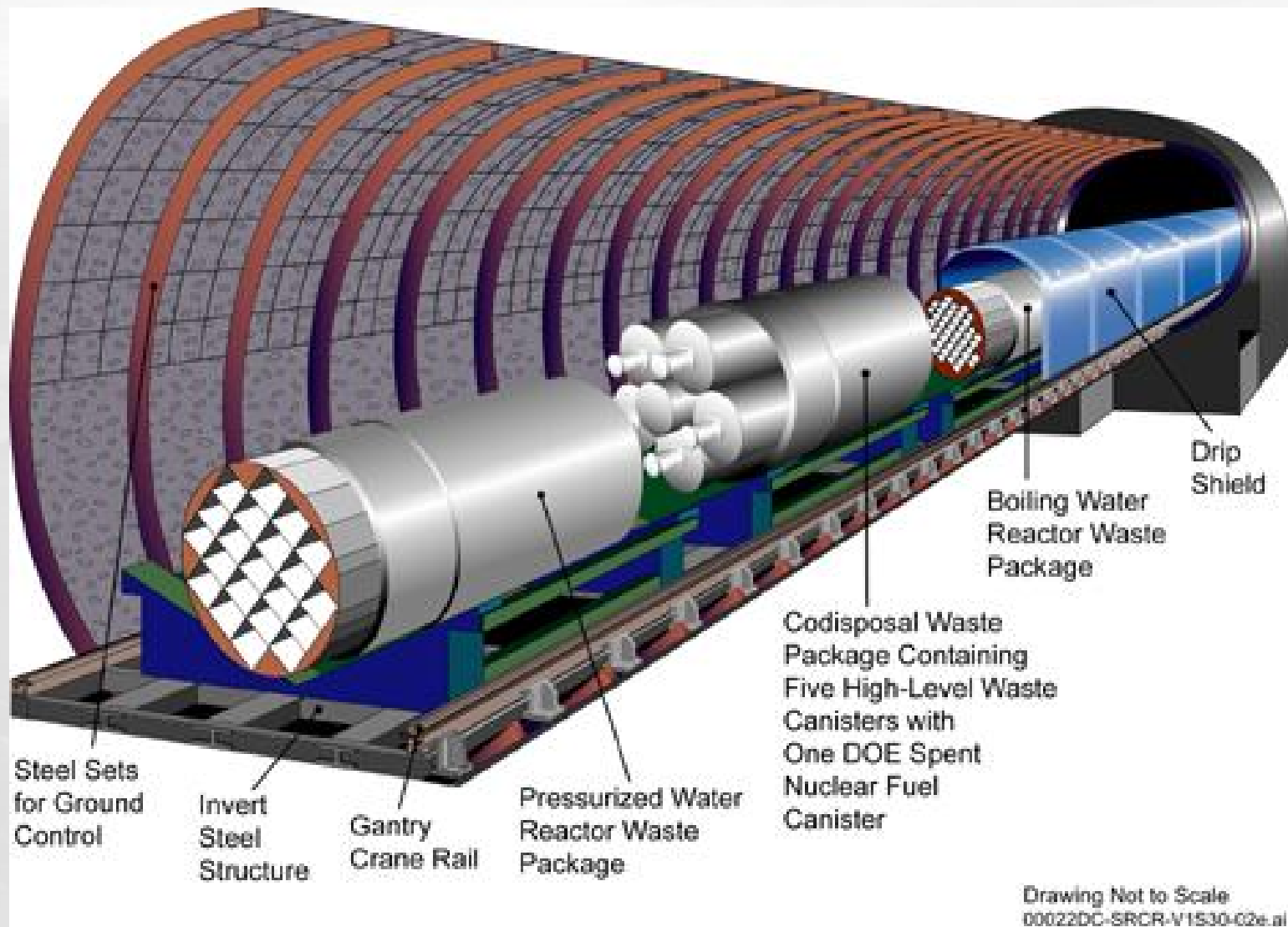
\$10 Billion or more in urban area (DOE, State of Nevada)

Unsuitable Site

Corrosive water chem
Precipitation & infil
Groundwater travel
Earthquakes
Volcanoes
Erosion

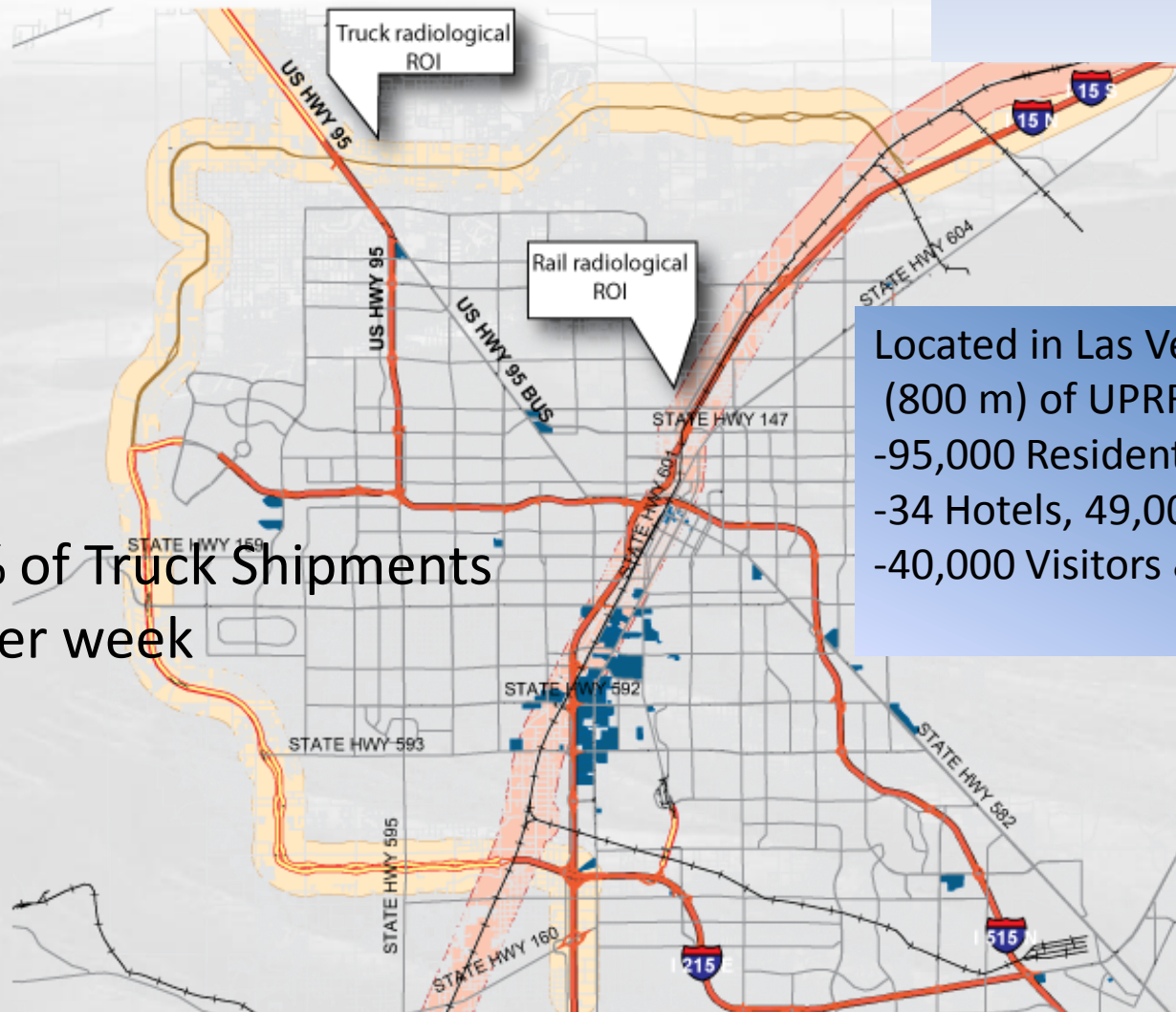


Flawed Disposal Concept



Unacceptable Transportation Impacts

Rail Casks through Las Vegas
to Yucca Mountain via Caliente
Minimum – 8% Maximum – 79%
4 - 110 trainloads per year



Located in Las Vegas within 0.5 mile
(800 m) of UPRR Route to Caliente :
-95,000 Residents
-34 Hotels, 49,000 Hotel Rooms
-40,000 Visitors & Workers

100% of Truck Shipments
1-2 per week

Except for the 5 mile exploratory tunnel constructed to gain access to the mountain's interior for characterization, none of the required subsurface infrastructure exists.

- Panel numbers represent the proposed construction and emplacement sequence
- Sequence:
 - 6 drifts in Panel 1
 - 27 drifts in Panel 2
 - 45 drifts in 3E & 3W
 - 30 drifts in Panel 4
- Total emplacement length available is approximately 41 miles (66 km)
- Existing 5 mile exploratory tunnel



Business Case Against Yucca Mountain

- What currently exists at Yucca Mountain is an exploratory tunnel, not a repository
- Obtaining a license to construct a repository at Yucca Mountain would be difficult, time-consuming, costly, and cannot be assumed to succeed
- Constructing and operating a repository at Yucca Mountain could cost \$90-100 Billion (2007\$)
- Terminating Yucca Mountain and developing another site could save \$13-28 Billion (2007\$)



Question & Answers

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