



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



Yucca Mountain Project Update

Presented to:

National Association of Regulatory Utilities Commissioners

Presented by:

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U.S. Department of Energy

July 25, 2005

Austin, TX

Vision



Purpose

- **Provide status of the Yucca Mountain Project**
- **Provide the status of reviews about the impacts associated with the U.S. Geological Survey e-mail issue**
- **Provide the status of the Rail Alignment Environment Impact Statement (EIS)**



FY 2006 Budget Request Summary

	<u>FY 2005 Approps</u>	<u>FY 2006 Request</u>
Yucca Mountain Project	\$ 413.0M	\$ 427.3M
Transportation Project	\$ 30.7M	\$ 85.4M
Program Mgmt & Integration/Program Direction	\$ 128.6M	\$ 138.7M
Total Program	\$ 572.4M	\$ 651.4M



Funding to Affected Units of Government and Nevada University System

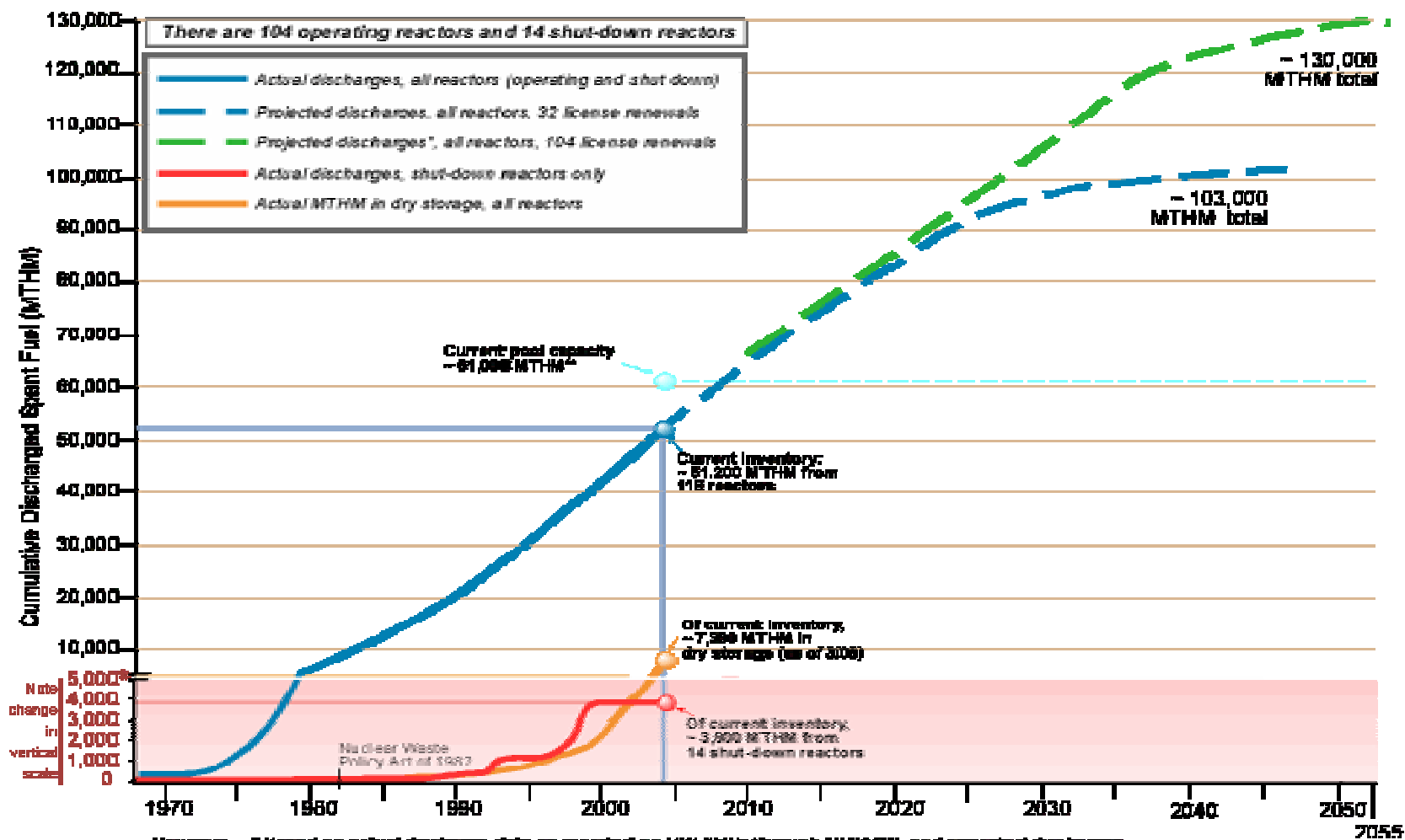
As of 7/13/2005

	Year Initiated	Total to Date (Actual)
Affected Units of Local Government* - Oversight	1989	\$76,439,826
State of Nevada - Oversight	1983	\$81,718,109
Payments Equal to Taxes	1983	\$106,287,228
University & Community College System of Nevada	1984	\$104,120,940
Clark County, NV Transportation Grant	2004	\$2,000,000
Inyo County, CA Death Valley Regional Ground Water Monitoring Program	2002	\$1,989,750
Nye County, NV Science & Verification Program	1996	\$22,873,409
Nye County, NV Transportation Cooperative Agreement	2004	\$430,000
Total Funding to the Affected Units of Government and the University & Community College System of Nevada since 1983	All Years	\$395,859,262

*The Affected Units of Government are the State of Nevada and the ten counties designated "affected" by the Nuclear Waste Policy Act or the Secretary of Energy.



Historical and Projected Commercial Spent Nuclear Fuel Discharges



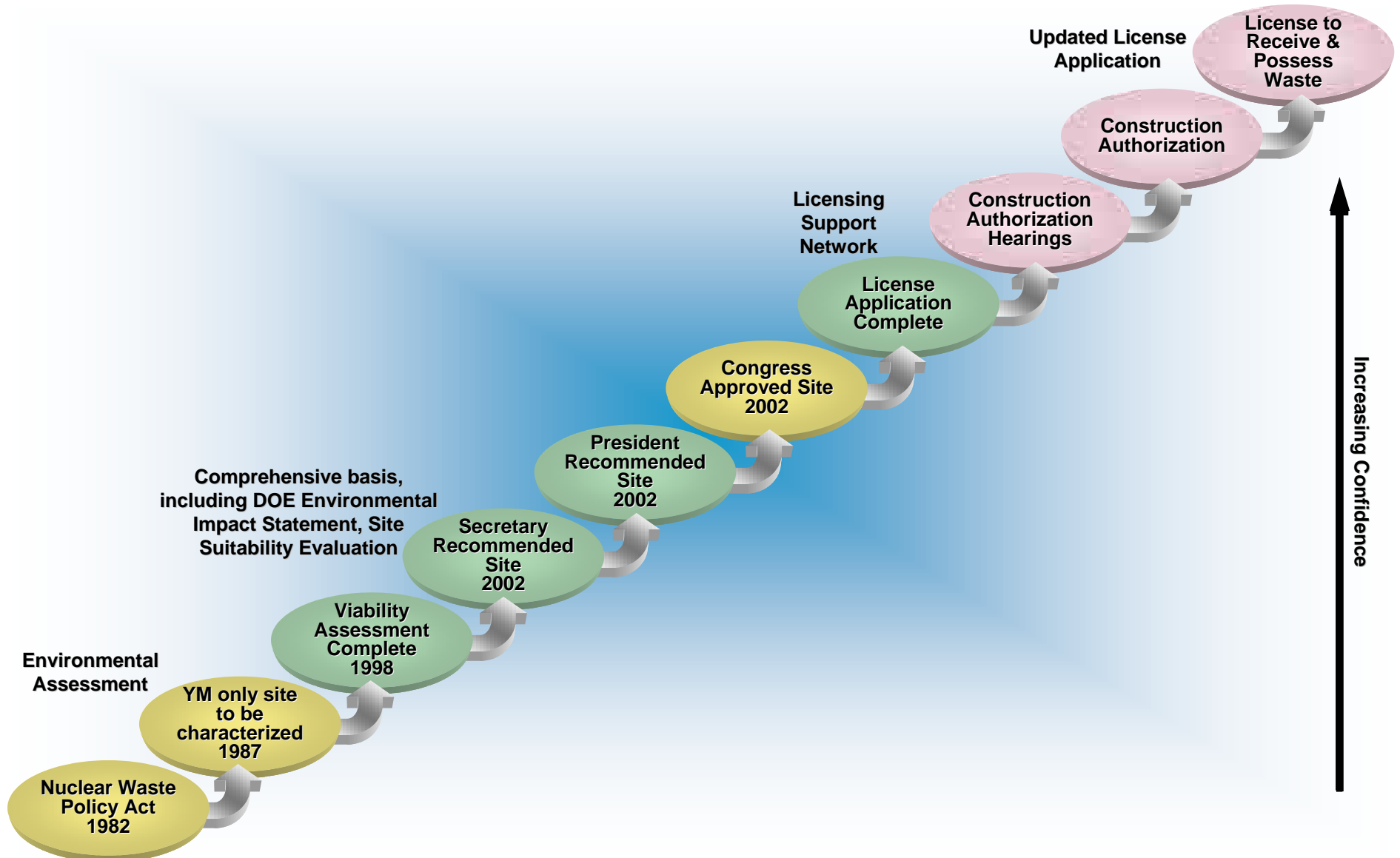
Source: * Based on actual discharge data as reported on NRC-85M's through 12/31/02, and projected discharges, in this case 2003-2055, based on 104 license renewals.
** Based on pool capacities provided in 2002 RW-85B (low FCR) and supplemented by utility storage plans.

Discharge Curves 051805.FH10

As of May 2005



Repository Program Steps



Action required by: ■ Department of Energy/President ■ Congress ■ NRC



Waste Package Prototype



Longitudinal seam welding on the 316 stainless steel inner vessel



Alloy 22 Inside seam weld



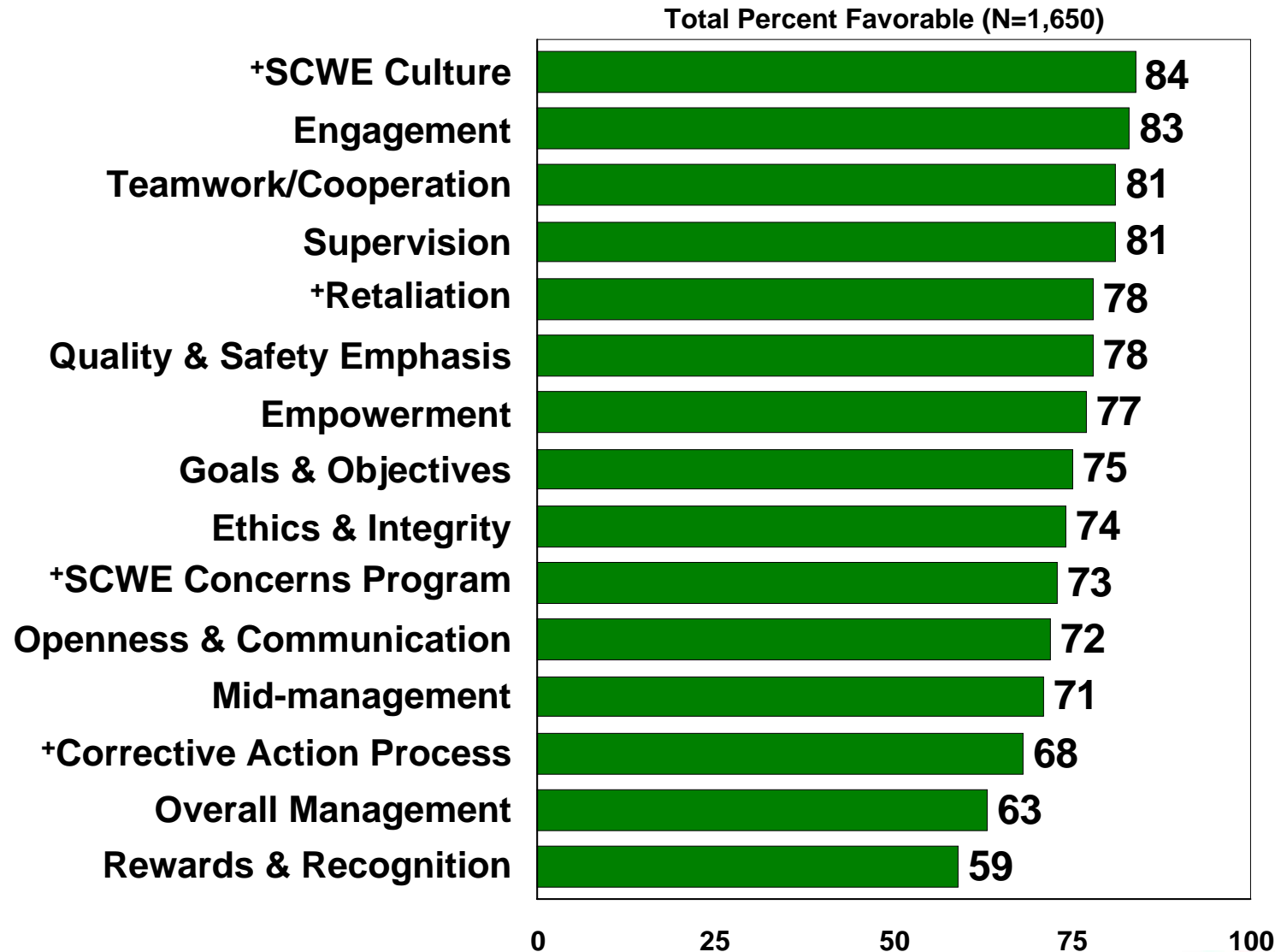
Inner cylinders showing weld prep



Ongoing Site Improvements



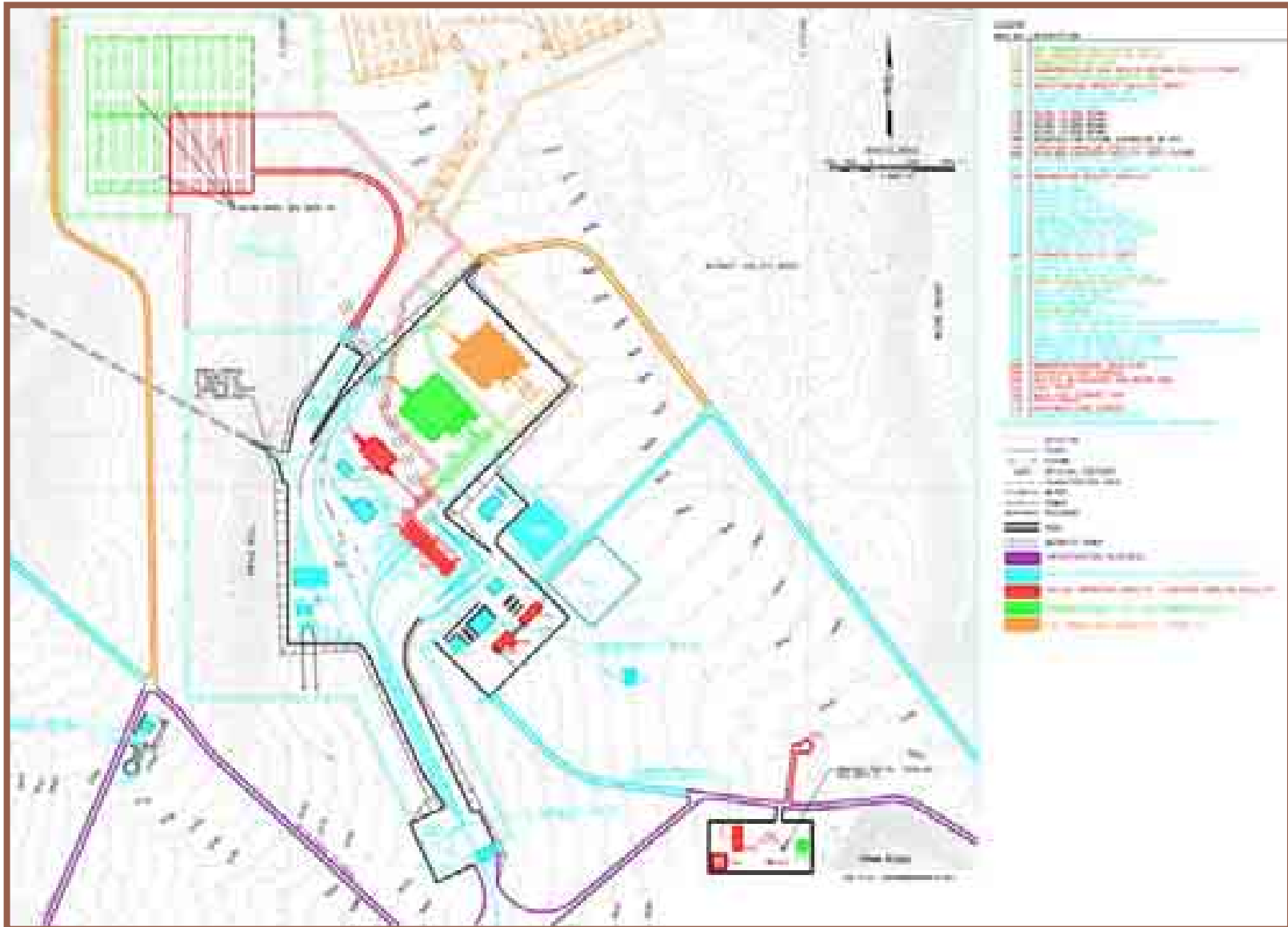
2004 Safety Conscious Work Environment (SCWE) Survey YMP 2004 Overall Category Scores



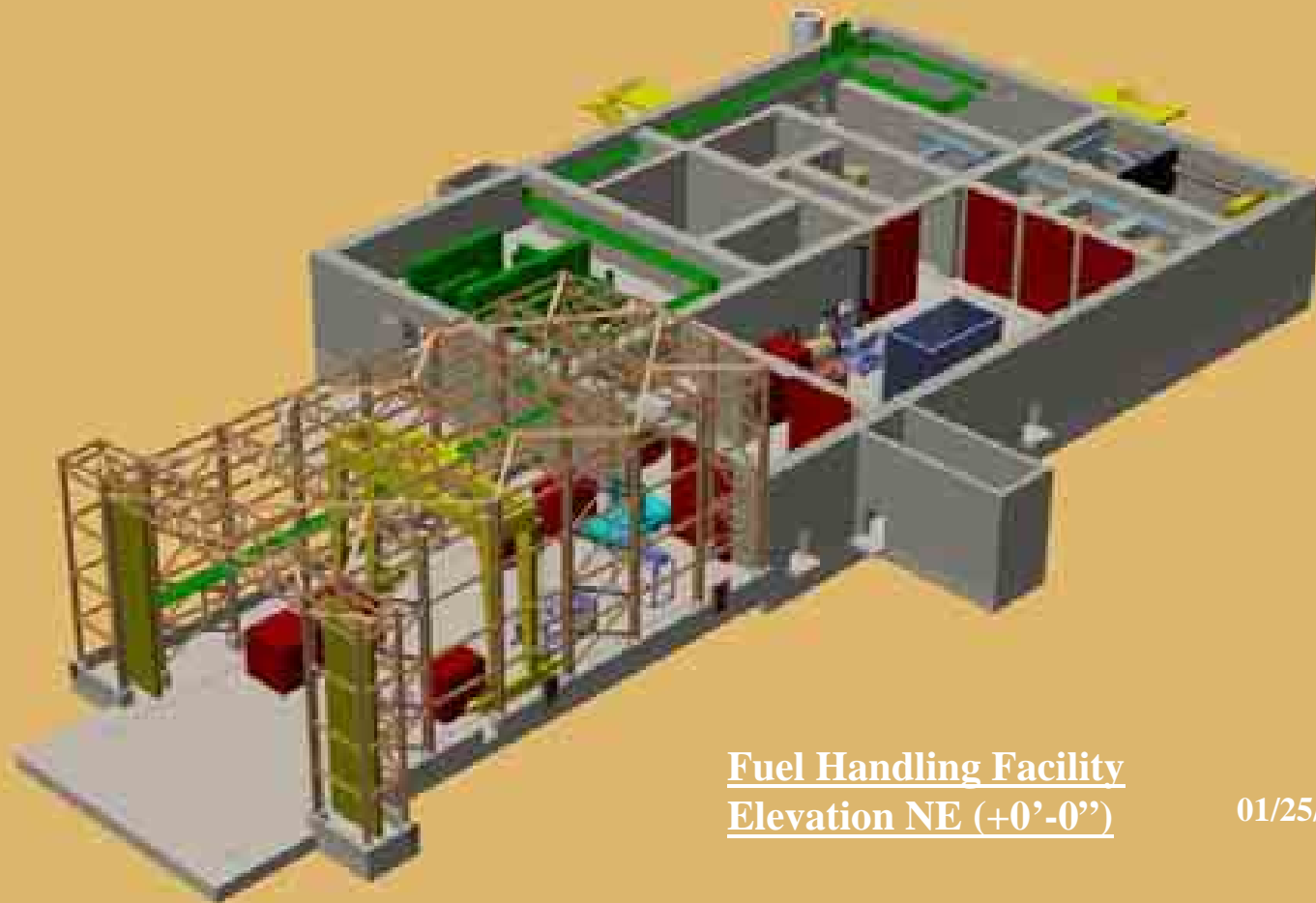
+Indicates a new category for 2004



Surface Facilities – Site Plan



Fuel Handling Facility

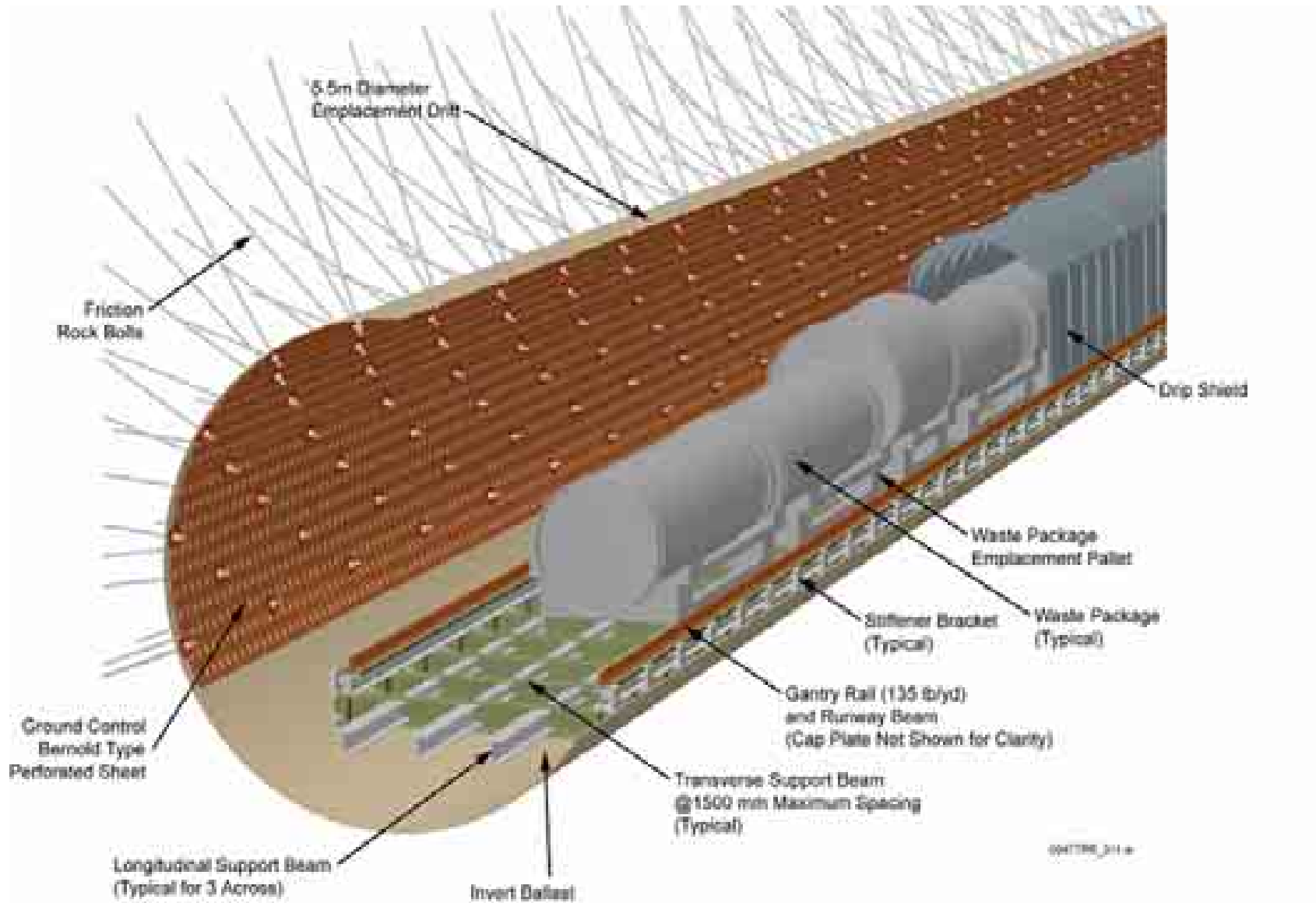


Fuel Handling Facility
Elevation NE (+0'-0")

01/25/05



Emplacement Drift



License Support Network Status

License Application Status

- **The Department of Energy (DOE) is proceeding with the Licensing Support Network certification in August**
- **All 293 Key Technical Issue agreements have now been addressed by DOE; 255 approved by the Nuclear Regulatory Commission**
- **We are preparing to address potential changes due to the ruling on the Environmental Protection Agency's standard compliance period by the U.S. Court of Appeals**
- **DOE is reviewing the draft License Application:**
 - **Design optimization and pre-closure safety analysis completion**
 - **Review of design for defensibility, constructability, or efficiency of operations**
 - **Refinement of uncertainty treatment in post-closure analysis**
 - **Core team and management reviews of License Application sections underway**



USGS E-mail Issue

- **In March 2005 the DOE learned that certain employees of the U.S. Geological Survey working on the Project may have falsified documentation of their work**
- **Technical work that may be called into question has been identified**
- **Determine the impact of the technical basis on**
 - **Site Recommendation; Key Technical Issue agreements; Draft License Application**
- **Preliminary findings**
 - **Net infiltration estimates consistent with and corroborated by peer-review**
 - **Strong technical basis**
- **Strategy for corrective action developed; cost and schedule analysis underway**
- **Extent of Condition review planned for completion – late summer 2005**



Nevada Rail Alignment EIS Status

- Nevada Rail Alignment Environmental Impact Statement (EIS) was initiated.
- Public scoping meetings completed in June 2004, with over 4,000 comments received.
- EIS work is continuing on the Caliente Rail Corridor
- Publication of Draft EIS is estimated to be in early 2006
 - Hold public hearings to obtain comments



Caliente Corridor



Summary



- We have made significant progress toward completing the License Application
- Radiation protection standard compliance period is being revised by Environmental Protection Agency
- DOE is addressing work required for Licensing Support Network Certification
- We are committed to the safe disposal of U.S. spent nuclear fuel and high-level radioactive waste



Questions?

