

Spent Nuclear Fuel High Level Radioactive Waste

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NWPA of 1982

- **DOE to Develop Repository**
- **2 Repositories to be Developed**
- **Fuel Receipt to Begin 1/1/1998**
- **DOE to Study MRS Feasibility**
- **Utility Financed**

NWPAA of 1989

- **Develop Only One Repository**
- **Study Yucca Mountain, Nevada**
- **Build MRS, Use Negotiator to Site**
- **Still Utility Financed**

REPOSITORY PROGRESS

<u>YEAR</u>	<u>REPOSITORY START DATE</u>
1985	1998
1987	2003
1989	2010
1992	?

COOK OBLIGATION to NWPA

- **Ongoing 1 mill/kwhr Fee**
 - **Annually \$10 to \$13 million**
 - **To Date \$101 million**
 - **Pre-1983 One-time Fee**
 - **Principal \$72 million**
 - **Interest \$70 million**
- Total \$142 million**

MRS PROGRESS

- **No Site Selected**
 - **8 Regions Accepted \$100,000 to Study Feasibility**
 - **MRS Cannot Accept Fuel Until Repository Construction Started**
 - **DOE Unlikely to Receive Fuel in 1998**



MRS - AEP POSITION

- **Diversion of DOE Priority**
- **Further Government Delay**
- **Higher Utility Costs with MRS**
- **Subsidizes Utilities with Near Term Needs**
- **Redundancy Not Required**

NEW DOE STRATEGY

- **Standardized Container System**
- **Terminate MRS Work**
- **Interim Storage at Federal Sites**
- **Recommendation to Take Nuclear Waste
Fund Off Budget**
- **Potential Compensation of Utility Onsite
Storage**

NEW DOE STRATEGY - AEP POSITION

- **Good Ideas:**
 - **Standardized Containers**
 - **Taking NWF Off Budget**
 - **Termination of MRS Work**
- **Bad Ideas:**
 - **Interim Storage at Federal Sites**
 - **Potential Utility Compensation**
- **Strategy May Change Again with
New Administration**

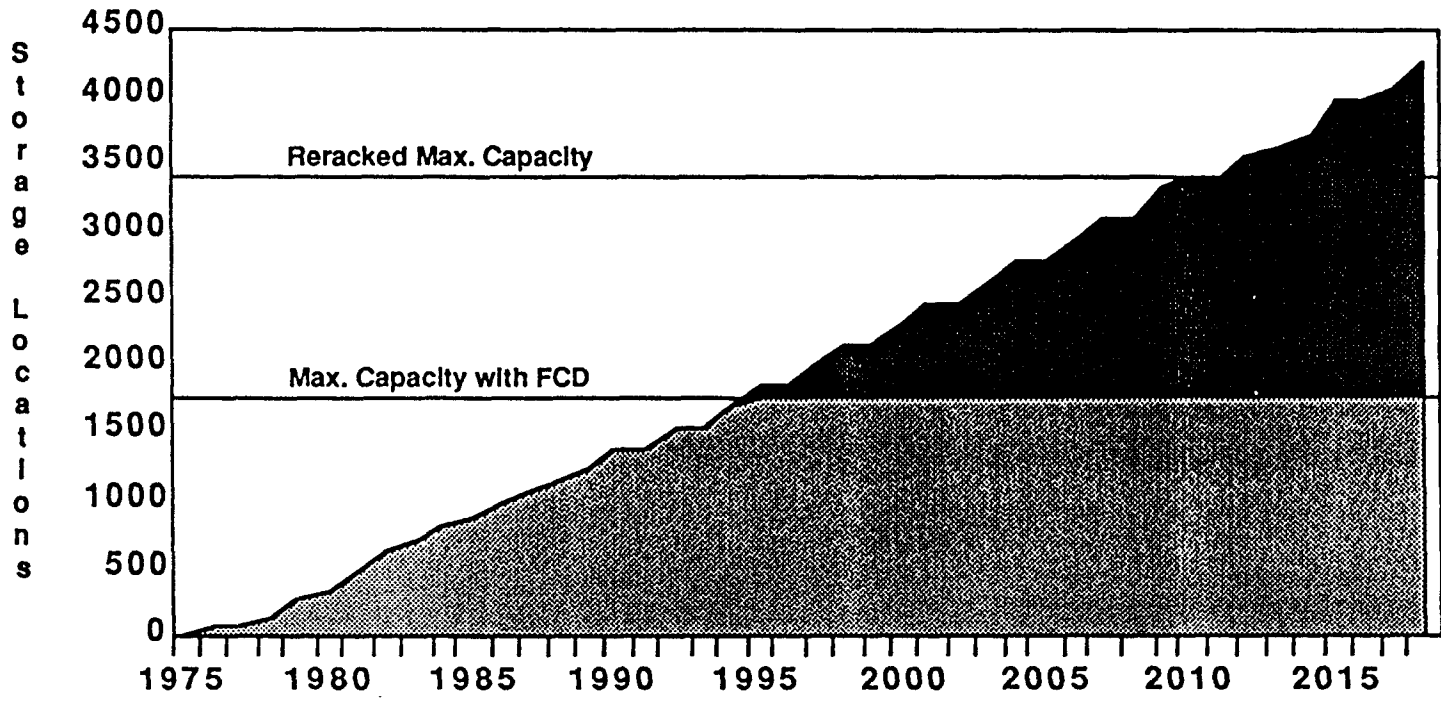


COOK NUCLEAR PLANT

**Spent Nuclear Fuel
Storage**



COOK NUCLEAR PLANT SPENT FUEL STORAGE PROJECTION THROUGH 2018



Assumes DOE Does Not Perform

STORAGE OPTIONS

- **Dry Cask or Vault**
- **Consolidation**
- **Rerack**

DRY CASK or VAULT

- **Licensed and Used at
Various Plants**
- **Most Expensive at \$20,000
per Assembly**

CONSOLIDATION

- **Licensed and Demonstrated**
- **Rerack Necessary to Consolidate**
- **Not Yet Economical or Practical**

RERACK

- **Common Practice**
 - **10.5" Spacing to 9" Spacing**
 - **Least Costly**
- (\$8,250 per Assembly)**



SPENT FUEL POOL RERACK PROJECT SCHEDULE

- AWARD CONTRACT
- GATHER DATA
- START ANALYSIS
- SUBMIT LICENSING REPORT
- START FABRICATION
- LICENSE PENDING
- RECEIVE RACKS
- COMPLETE INSTALLATION

