

***EXPERIENCES FROM PLANNING AN
INTERIM ON-SITE SPENT FUEL STORAGE FACILITY
AT RANCHO SECO NUCLEAR GENERATION STATION***

SACRAMENTO MUNICIPAL UTILITY DISTRICT

NUCLEAR WASTE TECHNICAL REVIEW BOARD

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JIM SHETLER / KEN MILLER

***Objective: To Provide A Discussion Of Institutional Issues
As They Relate To Interim On-Site Spent Fuel Storage
At A Decommissioning Reactor, Such As Rancho Seco***

- o Factors Impacting Decommissioning***
- o Spent Fuel Storage/Disposition Strategy***
- o Economics of On-Site Spent Fuel Storage***
- o Environmental Activities***
- o Future Developments***

FACTORS IMPACTING PLANT DECOMMISSIONING

o Decommissioning Issues

- Available Funds***
- Low Level Radioactive Waste Disposition***
- Spent Fuel Disposition***

o Spent Fuel Storage Issues

- Extended Fuel Pool Storage***
- Dry Storage Capital Investment***
- Storage After Plant Decommissioning***
- Mitigation Of "Off-Normal" Conditions After Fuel Pool/Plant Decommissioning***

SPENT FUEL STORAGE / DISPOSITION STRATEGY

o Options Explored

- Continued Storage In Spent Fuel Pool***
- Dry Cask Storage***
- Shipment To Federal Repository***
- Reprocessing***
- Storage At Another Utility***

o On-Site Dry Cask Storage Determined Most Effective

SCHEDULE

o Decommissioning And Spent Fuel Storage/Disposition

- *Custodial-SAFSTOR Until Spent Fuel Stored In Dry Casks, About 1998*
- *Hardened-SAFSTOR Until 2008*
- *DECON Between 2008 and 2011*
- *Spent Fuel Acceptance 2001 to 2015*

ECONOMICS OF DRY CASK STORAGE

o Cost Of ISFSI/Transportable Storage Cask System

- Capital Investment: \$16.0 Million

o Estimated Savings From Dry Cask Storage

- Annual Cost Of Pool Storage: \$10.6 Million

- Annual Cost Of Dry Storage: \$2.6 Million

- Total Saving During SAFSTOR: \$64.0 Million, Minimum

ENVIRONMENTAL ACTIVITIES

o California Environmental Quality Act (CEQA)

- No Significant Impacts***
- Negative Declaration***

o National Environmental Policy Act (NEPA)

- No Significant Impacts***
- Challenge To NRC's Environmental Report
May Result In Public Hearings***

o Public Meetings/Hearings

- Three Public Meetings***
- Two Public Hearings***

o Public Participation Minimal

- No Significant Issues***

FUTURE DEVELOPMENTS

o Rancho Seco Site Park Upgrades

- Golf Course/Clubhouse***
- Equestrian Center***
- Nature Center***
- Hiking and Riding Trails***
- Camping/Group Use Area***

o Generating Plant Developments

- Solar Thermal***
- Gas Options***

CONCLUSION

- o Interim On-Site Dry Spent Fuel Storage, Although Costly, Is The Most Effective Method For Rancho Seco And Does Not Appear To Be A Major Local Concern Or A Factor In Future Site Development.*