

GE Hitachi Meeting with NRC Vallecitos Nuclear Test Reactor (NTR) R-33 License Renewal

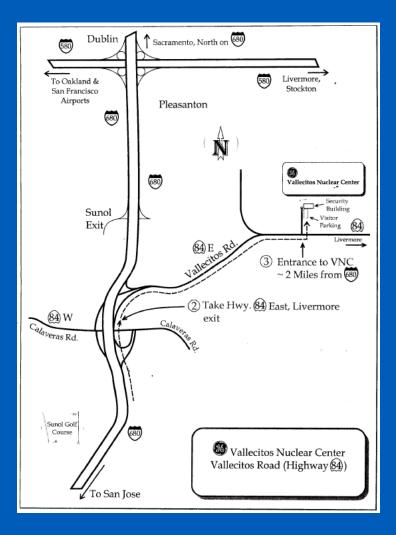


Agenda

- Welcome & Introductions
- Purpose of Meeting
- NTR Operation Overview
- NTR License Current Status
- License Renewal Plan
- Additional Licensing Considerations
- Discussion



GE Hitachi NTR Operation Site



- 35 miles E-SE of San Francisco
- North of State Route 84
- 2 miles east of I-680
- 1,600 acre rectangular tract
- 135 acre site developed area houses all buildings and licensed activities

*Distances are approximate



GE Hitachi NTR Operation Site



Owner Controlled Area

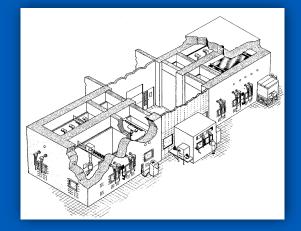
- The NTR is in a stand-alone building within the 135 acre site developed area in the SW corner of the Owned Controlled Area
- The site includes three retired, defueled reactors currently in possession-only status.



Vallecitos Nuclear Center Products & Services

Medical & Industrial Sealed Source Fabrication

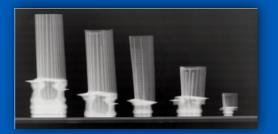
- Co-60: medical therapy, medical & industrial sterilization
- Cf-252: nuclear reactor startup & industrial sources





Neutron Radiography

- Non-destructive examination of hardware & components
- NASA, defense contractors, nuclear industry





NTR Current Status

Operating NTR (R-33):

- 100 kW thermal NTR used for non-destructive material imaging
- License issued: October 31, 1957
- Licensed renewed: July 22, 1969, December 28, 1984 and April 20, 2001 (current)
- License expiration date: April 20, 2021
- NTR has unique imaging capabilities, requesting license renewal until 2041
- Ongoing principal activity



License Renewal Plan

 October 2019: Update and incorporate by reference previously submitted SAR and Tech Specs and pending amendments

 ~April 2020: Submit license renewal application per NUREG-1537/Interim Staff Guidance (Oct. 2009, Streamlined Review Process)



Additional Licensing Considerations

- Updates to chapters 4 & 13 involving revisions to core modeling codes, neutronics and thermal hydraulics
- Inclusion of pending Amendment 24 as necessary
- Decommissioning Financial Assurance
 - \$5.2 million security bond effective March 28, 2018
 - Pending revision to \$5.4 million



Discussion

