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**NRC Public Meeting on the  
Proposed Partial Site Release of Land  
at the  
GE Hitachi  
Vallecitos Nuclear Center**

**March 28, 2019**

**Jack Parrott, Sr. Project Manager**

**Reactor Decommissioning Branch  
*Office of Nuclear Material Safety and Safeguards*  
*U.S. Nuclear Regulatory Commission***



## ***GE Hitachi Vallecitos Nuclear Center Public Meeting***

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**This an NRC Category 3 public meeting for the purpose of discussing and obtaining public comments on a request from GE-Hitachi to release part of the controlled property of the Vallecitos Nuclear Center for unrestricted use.**

- **Meeting Logistics**
- **Introduction of NRC staff**
- **Invitation to make opening introductions/statements**
- **Meeting Agenda/Presentations**
- **Comment/Question period**
- **End meeting on time at 8:30 pm**



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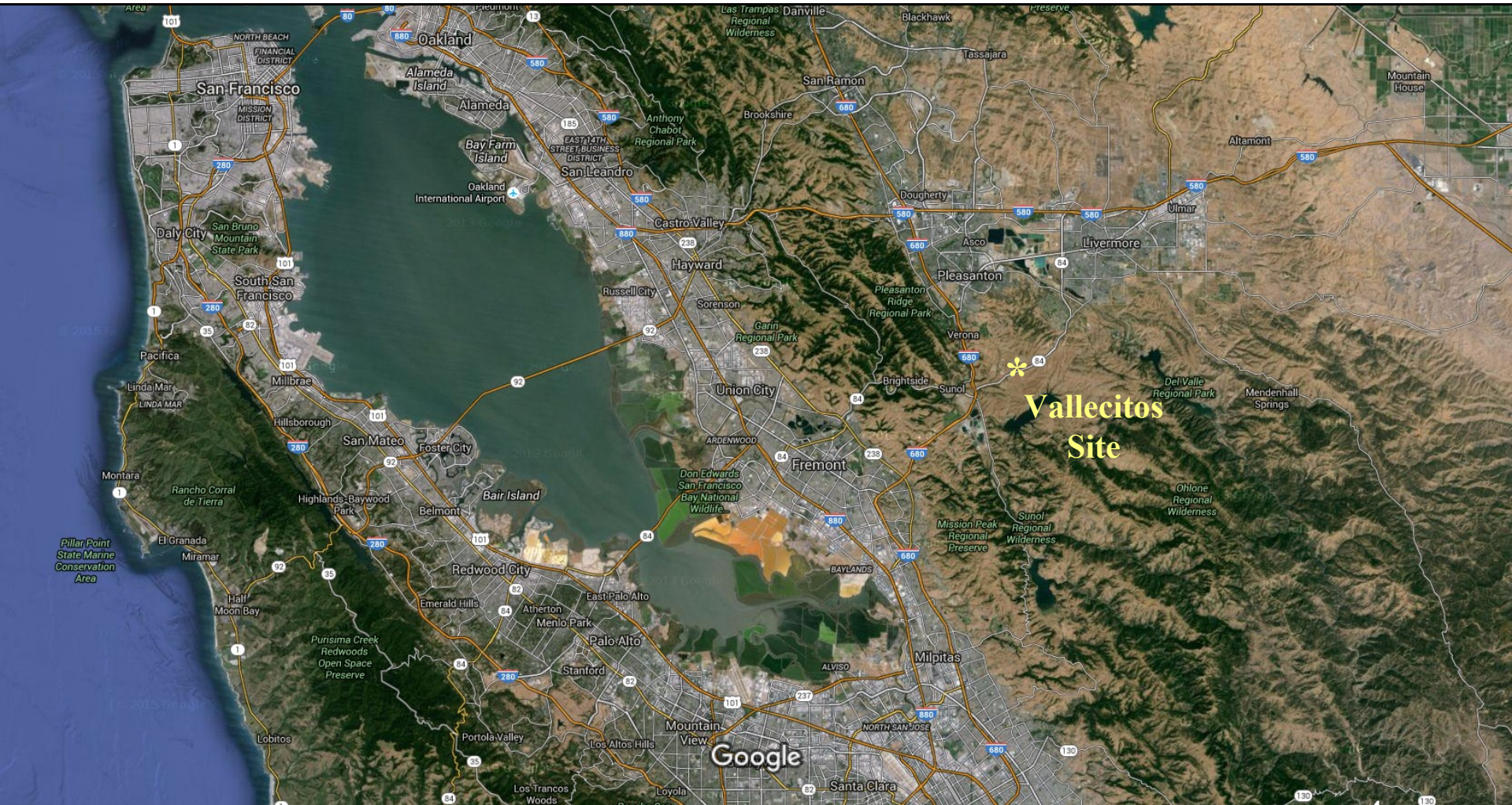
**There are two power reactors at the GE Vallecitos Nuclear Center -**

- **Vallecitos Boiling Water Reactor (VBWR) – entered shutdown status in 1965**
- **ESADA Vallecitos Experimental Superheat Reactor (EVESR) – entered shutdown status in 1970**





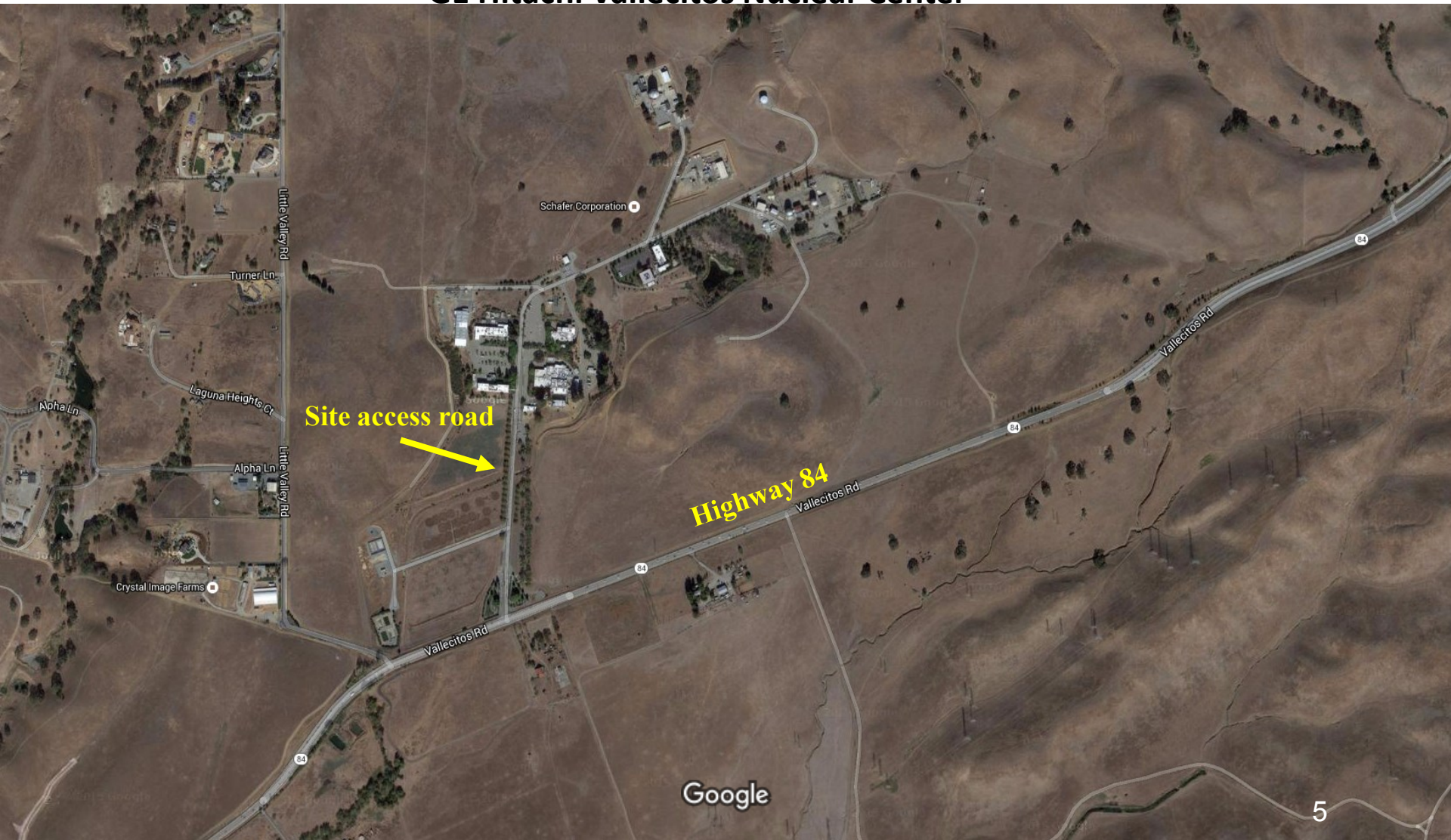
# Location of GE-Hitachi Vallecitos Nuclear Center







# GE Hitachi Vallecitos Nuclear Center

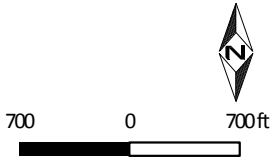




# PROJECT OVERVIEW



- Legend
- Proposed Right-of-Way
  - Proposed Construction Easement
  - Existing Parcel Boundary



SR 84 Expressway Widening  
and SR 84/I-680 Interchange  
Improvement Project  
Alameda County





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# **The NRC's Power Reactor Partial Site Release Regulations and Process**

- **10 CFR Part 50 – covers licensing of nuclear power reactors**
- **§ 50.82 – “Termination of license”**
- **§ 50.83 – “Release of part of a power reactor facility or site for unrestricted use”**





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# **Power Reactor Partial Site Release 10 CFR 50.83**

- **Used for unrestricted release of areas before license termination**
- **Prior written approval from NRC required**
- **Typically applied to outlying unused areas**
- **Different requirements for impacted vs non-impacted areas\***

**\*Non-impacted areas - areas with no reasonable potential for residual radioactivity in excess of natural background or fallout levels**



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### **§ 50.83 requirements for partial site release (non-impacted areas)**

- **There is no reduction in the effectiveness of emergency planning or physical security**
- **Effluent releases remain within license conditions**
- **Environmental monitoring program and offsite dose calculations are revised to account for the changes**
- **All other applicable statutory and regulatory requirements continue to be met**



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### **§ 50.83 requirements for partial site release (non-impacted areas), cont'd**

- **Licensee performs a historical site assessment of the part of the facility or site to be released**
- **Provide the results of the safety evaluations performed in accordance with § 50.59**
- **Provide the reasons for concluding that the environmental impacts associated with the proposed release are bounded by previously issued environmental impact statements**





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### **Other NRC requirements for approval of partial site release**

- **10 CFR Part 20, Subpart D – Radiation Dose Limits for Individual Members of the Public**
- **10 CFR 50.75 – Reporting and recordkeeping for decommissioning planning**
- **10 CFR Part 100 – Reactor siting criteria continue to be met**



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### **NRC actions (non-impacted areas)**

- **Notice receipt of the release approval request and make the approval request available for public comment**
- **Conduct a public meeting in the vicinity of the licensee's facility for the purpose of obtaining public comments**



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### **NRC actions**

**(non-impacted areas) cont'd**

- **Determine whether the licensee has adequately evaluated the effect of releasing the property relative to dose, emergency planning, security, environmental, and regulatory requirements**
- **Determine whether the licensee's classification of any release areas as non-impacted is adequately justified**
- **Upon determining that the licensee's submittal is adequate, inform the licensee in writing that the release is approved**





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# Radiological Surveys

- **GEH conducted an environmental site assessment to verify that the properties proposed for release were not impacted by previous operations involving radioactive materials**
- **A survey was conducted to support release of sites for unrestricted use**
- **NRC conducted a confirmatory survey to confirm the licensee's findings**



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# NRC Confirmatory Survey

- Surveys conducted by NRC and ORAU staff, Oak Ridge, TN on behalf of the NRC
- ORAU is NRC's independent contractor with experience, equipment, and trained staff to conduct radiological surveys
- ORAU developed and submitted a proposed sampling plan to NRC prior to onsite inspection )
- The confirmatory survey was conducted the week of February 4<sup>th</sup>, 2019 and consisted of surface scans and soil sampling.



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# **Photos of the NRC Confirmatory Survey in Progress**























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# **Forthcoming reports**

**ORAU will send a report to NRC**

- **Scan survey maps, location of soil samples**
- **Soil sample results**

**NRC safety evaluation**

- **Results of ORAU survey**
- **NRC will draw conclusion about GEH's site assessment**

**The NRC safety evaluation and ORAU report is expected to be issued and will be publicly available with the NRC decision on the requests by the end of August 2019.**





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Thank you  
Questions/Comments?

