



General Electric Company  
Vallecitos Nuclear Center  
6705 Vallecitos Road, Sunol, CA 94586

March 16, 2000

U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

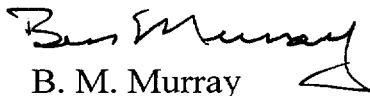
Attention: Document Control Desk

Reference: License DR-10, Docket 50-183

Gentlemen:

Enclosed are three signed copies of Annual Report No. 32 for the ESADA-Vallecitos Experimental Superheat Reactor (deactivated).

Sincerely,

  
B. M. Murray  
Senior Licensing Engineer  
(925) 862-4455

/ca

Enclosures

A020



*GE Nuclear Energy*

*Vallecitos Nuclear Center*

*Sunol, California*

---

**ESADA-VALLECITOS EXPERIMENTAL**

**SUPERHEAT REACTOR**

**(DEACTIVATED)**

**ANNUAL REPORT NO. 32**

**LICENSE DR-10**

**DOCKET 50-183**

**ESADA-VALLECITOS EXPERIMENTAL SUPERHEAT REACTOR  
(DEACTIVATED)**

**ANNUAL REPORT NO. 32**

General Electric Company has maintained the ESADA Vallecitos Experimental Superheat Reactor (EVESR) in a deactivated status under the authority of Amendment No. 3 to License DR-10, Docket 50-183, issued June 11, 1976. In this thirty-second annual report, a summary is presented as to the status of the facility for the period from January 1, 1999, to December 31, 1999, as required by paragraph 3.E.2. of the license.

**I. SUMMARY**

The facility remains in essentially the same condition described in the thirty-first annual report. Entry into the containment building was made for routine radiation surveys and a general check of conditions throughout the building.

Radiation levels remain essentially unchanged.

**II. STATUS OF FACILITY**

Access to the containment building is controlled by the Facility Manager according to written procedures. The reactor vessel and head storage shield plugs, the wooden cover over the fuel storage pool, and the locked covers for the personnel and equipment hatchways remain in place.

**III. RADIATION AND CONTAMINATION**

Complete radiation and contamination surveys of the facility indicate that the levels remain low. Survey results are tabulated in Table 1. The radiation/contamination levels listed are representative but not necessarily maximum values.

#### **IV. ACTIVITIES**

Routine inspections were conducted during this report period.

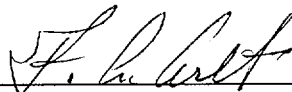
#### **V. ORGANIZATION**

There were no organization changes in 1999.

#### **VI. CONCLUSION**

The General Electric Company concludes that the deactivated ESADA Vallecitos Experimental Superheat Reactor is being maintained in a safe shutdown condition. The inspections, access control, and administratively controlled activities ensure maximum protection for the public health and safety. The procedures will be continued to maintain this high level of protection.

GENERAL ELECTRIC COMPANY  
Vallecitos and Morris Operations



---

F. A. Arlt, Manager  
Facilities Maintenance

**TABLE 1. RADIATION AND CONTAMINATION REPORT**

Reactor Enclosure

	<u>11/98</u>	<u>10/99</u>
1. Radiation Readings (mR/h gamma)		
a. Top of spent fuel pool (main floor)	< 1	0.7
b. 549-ft level (main floor)	< 1	< 1
c. 534-ft level	< 1-2.5	< 1-3
d. 519-ft level	< 1-1.5	< 1-3
e. 503-ft level (maximum pipe reading)	0.8	0.6
f. 487-ft level (basement)	< 1	< 1-1.5
2. Air Samples ( $\mu\text{Ci/cc}$ air beta-gamma) $\times 10^{-10}$ *		
a. 549-ft level	0.038	0.028
b. 519-ft level	0.064	0.16
c. 487-ft level	0.041	0.21
3. Floor Smears (c/m beta-gamma)**		
549-ft level	600/ft <sup>2</sup>	200/ft <sup>2</sup>

---

\*The 11/98 and 10/99 concentrations are the 24-hour decayed values.

\*\*For conversion to d/m, assume an instrument efficiency of 20%.

NOTE: Radiation levels, surface smears and air samples may vary from survey to survey as they are taken in general areas rather than at specific locations.