GE Nuclear Energy

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Washington, D.C. 20555

Subject: **Annual Report for 2000**

Reference: License DR-10, Docket 50-183

Gentlemen:

Enclosed are three signed copies of Annual Report No. 33 for the deactivated ESADA-Vallecitos Experimental Superheat Reactor located at Vallecitos Nuclear Center in Sunol, California.

If there are any questions or additional information is required, please contact the undersigned at 925-862-4455.

Sincerely,

Chris Hamilton
Senior Licensing Engineer

Enclosures (3)

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GE Nuclear Energy

Vallecitos Nuclear Center
General Electric Company
Sunol, California

ESADA-VALLECITOS EXPERIMENTAL SUPERHEAT REACTOR (DEACTIVATED)

ANNUAL REPORT NO. 33 FOR THE YEAR 2000

LICENSE DR-10
DOCKET 50-183

MARCH 2001

ESDA-Vallecitos Experimental Superheat Reactor
(Deactivated)

Annual Report No. 33

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 annual report, a summary of the status of the facility for the period of January 1, 2000 to December 31, 2000 is presented, as required by paragraph 3.E.2. of the license.

I. Summary

The facility remains in essentially the same condition described in Annual Report No. 32. Entry into the containment building was made for routine radiation surveys, a general examination of conditions throughout the building, and a maintenance project. In accordance with written procedures, the Facility Manager controls access to the containment building.

Radiation levels remain essentially unchanged.

II. Status of Facility

The facility continues to be in deactivated status. The plugs to the reactor vessel and head storage shield, the wooden cover over the fuel storage pool, and the locked covers for the personnel and equipment hatchways remain in-place except during maintenance or inspection activities.

Changes were made to the facility during the reporting period. A Change Authorization was issued to remove asbestos-containing material from the facility and install a new lockable boundary cover over the equipment access hatchway/stairway. Access to areas below the 549 foot level remain in accordance with EVESR Technical Specifications.

III. Radiation and Contamination

Complete radiation and contamination surveys of the facility indicate that levels remain low. Results of the surveys are presented 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. An asbestos remediation project was completed. The project included removal of asbestos-containing material from the facility by a licensed contractor and proper disposal of the material removed. A new lockable boundary cover was installed over the equipment access hatchway/stairway. All work was performed under the supervision of the Facility Manager.

V. Organization

There were no organization changes in 2000.

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

Reactor Enclosure

1.	Radiation Readings (mR/h gamma)	10/99	12/00
	a. Top of spent fuel pool (main floor)	0.7	0.5
	b. 548-ft level (main floor)	<1	<1-1.5
	c. 534-ft level	<1-3	<1-4
	d. 519-ft level	<1-3	<1-4
	e. 503-ft level (maximum pipe reading)	0.6	0.5
	f. 487-ft level (basement)	<1-1.5	<1
2.	Air Samples (μCi/cc air beta-gamma) x 10^{-10*}		
	a. 549-ft level	0.028	0.009
	b. 519-ft level	0.16	0.15
	c. 487-ft level	0.21	0.002
3.	Floor Smears (c/m beta-gamma)†		
	a. 549-level	200/ft^2	500/ft^2

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.

* 24-hour decayed values
† For conversion to d/m, assume an instrument efficiency of 20%.