



GE Nuclear Energy

General Electric Company
Vallecitos Nuclear Center
P.O. Box 460, Vallecitos Road
Pleasanton, CA 94566

March 31, 1994

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


Attention: Document Control Desk

Reference: License DPR-1, Docket 50-18

Gentlemen:

Enclosed are three signed copies of Annual Report No. 29 for the Vallecitos Boiling Water Reactor (deactivated).

Sincerely,


G. E. Cunningham
Senior Licensing Engineer
(510) 862-4330

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Enclosures

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GE Nuclear Energy

Vallecitos Nuclear Center
Pleasanton, California

VALLECITOS BOILING WATER REACTOR

(DEACTIVATED)

ANNUAL REPORT NO. 29

LICENSE DPR-1
DOCKET 50-18

VALLECITOS BOILING WATER REACTOR
(DEACTIVATED)

ANNUAL REPORT NO. 29

The status of the Vallecitos Boiling Water Reactor (VBWR) during the calendar year of 1993 is described in this twenty-ninth report of the deactivated facility in conformance with License DPR-1, Docket 50-18, Amendment No. 19, paragraph 5.d.2.

I. SUMMARY

The facility remained essentially in a static condition as described in Annual Report No. 28. Some changes were made on peripheral systems (see II.B.). Entry into the containment building was made for routine radiation surveys and for a check of general conditions throughout the building to verify the unchanged condition of the facility. The reactor vessel water level was monitored and remained essentially constant.

II. STATUS OF THE FACILITY

A. Containment Building

No changes were made during the report period.

B. General Systems

The reactor building stack and associated blower, ducting, and piping were removed and disposed of as radioactive waste. In addition, peripheral piping, including cooling water, condensate and steam pipes, also were removed. All materials removed were external to the reactor building. Penetrations to the reactor building were sealed after the piping was removed.

III. PERIODIC INSPECTIONS

The annual air samples and radiation and contamination surveys of the containment building are given in Table 1 of this report. The levels shown are representative and are not necessarily maximums.

IV. RADIATION AND CONTAMINATION

Radiation and contamination surveys of the facility indicate the levels in all cases were well below the limits for any safety concern.

V. ORGANIZATION

There were no organization changes in 1993.

VI. CONCLUSION

The deactivated Vallecitos Boiling Water Reactor continues to be maintained in a safe condition, commensurate with its shut down status. The methods of inspection and control of safety-related items ensure maximum protection for the public and the General Electric Company.

GENERAL ELECTRIC COMPANY
Vallecitos and Morris Operations



F. A. Arlt, Manager
Facilities Maintenance

TABLE 1. RADIATION AND CONTAMINATION REPORT

	Radiation Levels (mR/h Gamma)		Contamination Levels			
			Surface Smears Beta-Gamma** (cpm/ft ² x 10 ³)		Airborne Beta-Gamma* (μCi/cc x 10 ⁻¹⁰)	
	11/92	12/93	11/92	12/93	11/92	12/93
<u>Reactor Enclosure, Main Floor</u>						
1. General	<1	<1	2.5	2.6	0.014	0.044
2. Top of Spent Fuel Pit Cover	<1	<1	1.0	0.30	0.041	0.012
<u>Reactor Basement</u>						
1. Upper Level, Field	5	2				
2. West Ladder, Bottom	3.5	10	1.5	1.0		
3. East Ladder, Bottom	12	8	10.0	1.0	0.130	0.108
4. Between Recirculation Pumps (2 ft. off deck)	10	12				
Enclosure Stack, Outside Surface	<1	<1				
Main Valve Pit Lines and Valves	<1	<1				

N/A indicates readings not taken or not analyzed.

*24-hour decay.

**For conversion to dpm, 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.