

VALLECITOS BOILING WATER REACTOR

ANNUAL REPORT NO. 18

(DEACTIVATED)

LICENSE DPR-1

DOCKET 50-18

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(DEACTIVATED)

The status of the Vallecitos Boiling Water Reactor (VBWR) during the calendar year of 1982 is described in this eighteenth report of the deactivated facility, in conformance with License DPR-1, Docket 50-18, Amendment 19, Paragraph 5.d.2.

I. SUMMARY

The facility remained essentially in a static condition as described in Annual Report No. 17. 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

No changes were made during the report period.

III. PERIODIC INSPECTIONS

Inspections of the facility were continued on a routine basis. The annual air samples and radiation and contamination surveys of the containment building are given in Table 1 of this report.

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

The responsibility for maintaining the VBWR facilities remains that of the Irradiation Processing Operation (IPO), which is also responsible for the GETR facility. However, because of the extended shutdown of the GETR, the IPO organizational structure was modified in 1982. The responsibilities of the Manager, Plant Engineering and Maintenance, and the Manager, GETR Operations, were combined and assigned to a new position, the Manager, Design Engineering Services. This new position reports to the Manager, Engineering and Support Services. The latter has the responsibilities formerly assigned to the Manager, Reactor Irradiations; e.g., he serves as the Facility Manager for the VBWR.

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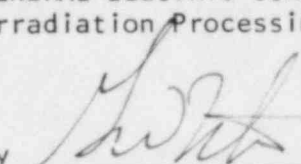
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VI. CONCLUSION

In our opinion, the deactivated Vallecitos Boiling Water Reactor continues to be maintained in a safe condition, commensurate with its shutdown 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  
Irradiation Processing Operation

By



G. W. Titus, Manager  
Engineering & Support Services

TABLE 1. RADIATION AND CONTAMINATION REPORT

	Radiation Levels (mR/h Gamma)		Contamination Levels			
			Surface Smears Beta-Gamma (c/in/100 cm <sup>2</sup> x 10 <sup>3</sup> )		Airborne Beta-Gamma ( $\mu$ Ci/cc x 10 <sup>-10</sup> )	
			12/81	12/82	12/81	12/82
Reactor Enclosure						
Main Floor - General Field	<1	<1	0.4	<0.1	0.009*	0.016*
1. Top of Missile Shield, Field	<1	<1	0.2	0.1	NA	NA
2. Top of Spent Fuel Pit Cover	1.0	<1	0.2	<0.1	NA	NA
3. Pit (Down 3 ft)	1.0	<1	NA	NA	NA	NA
Reactor Basement						
1. Upper Level, Field	15	15	NA	NA	NA	NA
2. Bottom Wall, Ladder	20	20	0.4	0.2	NA	NA
3. East Ladder, Bottom	5	15	0.5	0.5	NA	NA
4. West Ladder, Bottom	25	25	0.2	0.1	0.46 *	0.197*
5. Between Recirculation Pumps (2 ft Off Deck)	30	25	NA	NA	NA	NA
6. RCP No. 1 Surface	90	90	1.5	2.0	NA	NA
7. RCP No. 2 Surface	55	50	1.5	8.0	NA	NA
8. Downcomers	40	40	0.3	0.1	NA	NA
9. Downcomers Behind Reactor Shield	40	40	1.0	<0.1	NA	NA
10. Main Steam Line	10	1	1.5	0.2	NA	NA
Enclosure Stack - Outside Surface	<1	<1	<0.1	<0.1	NA	NA
Main Valve Pit						
Valve Pit Lines and Valves	<1	<1	<0.1	<0.1	NA	NA

NA indicates readings not taken or not analyzed.

\*24-hour decay.

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