GE Nuclear Energy

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 DPR-1, Docket 50-18

Gentlemen:

Enclosed are three signed copies of Annual Report No. 35 for the Vallecitos Boiling Water Reactor (deactivated).

Sincerely,

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

/ca

Enclosures

A020

*GE Nuclear Energy*
*Vallecitos Nuclear Center*
*Sunol, California*

# VALLECITOS BOILING WATER REACTOR

# (DEACTIVATED)

## ANNUAL REPORT NO. 35

## LICENSE DPR-1
## DOCKET 50-18

# VALLECITOS BOILING WATER REACTOR
# (DEACTIVATED)

## ANNUAL REPORT NO. 35

The status of the Vallecitos Boiling Water Reactor (VBWR) during the calendar year of 1999 is described in this thirty-fifth 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. 34. 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

The annual air samples and radiation and contamination surveys of accessible areas within 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 1999.

## 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** ($cpm/ft^2 \times 10^3$) | | Contamination Levels: Airborne Beta-Gamma* ($\mu Ci/cc \times 10^{-10}$) | |
|---|---|---|---|---|---|---|
| | 11/98 | 12/99 | 11/98 | 12/99 | 11/98 | 12/99 |
| Reactor Enclosure, Main Floor | | | | | | |
| 1. General | <1.0 | <1.0 | 0.2 | 1.1 | 0.0013 | 0.021 |
| 2. Top of Spent Fuel Pit Cover | <1.0 | <1.0 | 1.0 | 1.5 | 0.023 | 0.28 |
| Reactor Basement | | | | | | |
| 1. Upper Level, Field | 2 | <1-1.2 | | | | |
| 2. West Ladder, Bottom | 5 | 10 | 3.0 | 8.0 | | |
| 3. East Ladder, Bottom | 2 | 1-2.5 | 4.0 | 1.8 | 0.079 | 0.025 |
| 4. Between Recirculation Pumps (2 ft. off deck) | 12 | 9 | | | | |

*The 11/98 and 12/99 values are given for the 24-hour decay counts as normally presented.
**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.