



General Electric Company
Vallecitos Nuclear Center
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Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Annual Report for 2000

Reference: License TR-1, Docket 50-70

Gentlemen:

Enclosed are three signed copies of Annual Report No. 42 for the deactivated General Electric Test 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)

A020



GE Nuclear Energy

*Vallecitos Nuclear Center
General Electric Company
Sunol, California*

**GENERAL ELECTRIC TEST REACTOR
(DEACTIVATED)**

**ANNUAL REPORT NO. 42
FOR THE YEAR 2000**

**LICENSE TR-1
DOCKET 50-70**

MARCH 2001

**General Electric Test Reactor
(Deactivated)**

Annual Report No. 42

General Electric Company has maintained the General Electric Test Reactor (GETR) in a deactivated status under the authority of Amendment No. 16 to License TR-1, Docket 50-70, issued September 30, 1992. 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.

I. Summary

The facility remains in essentially the same condition described in Annual Report No. 41. Entry into the reactor building was made for routine radiation surveys and a general examination of conditions throughout the building.

Radiation levels remain essentially unchanged.

II. Status of Facility

In accordance with written procedures, the Facility Manager controls access to the containment building and general systems. The facility continues to be in deactivated status. There were no changes authorized by the Facility Manager pursuant to 10CFR50.59(a) and completed in 2000.

III. Radiation and Contamination

The data below are from sample and dosimeter results accumulated during 2000. These data are for the entire VNC site and include the effects of operations other than GETR.

A. GETR Stack

Not operated.

B. Air Monitors (Yearly average of all meteorological stations.)

Four environmental air monitoring stations are positioned approximately 90 degrees apart around the operating facilities of the site. Each station is equipped with a membrane filter

which is changed weekly and analyzed for gross alpha and gross beta-gamma.

Alpha Concentration:

Maximum, $5.02\text{E-}14$ $\mu\text{Ci/cc}$ (predominantly radon-thoron daughter products)

Average, $2.78\text{E-}15$ $\mu\text{Ci/cc}$

Beta Concentration:

Maximum, $2.78\text{E-}15$ $\mu\text{Ci/cc}$

Average, $1.87\text{E-}14$ $\mu\text{Ci/cc}$

C. Gamma Radiation

The yearly dose results for the year 2000 as determined from evaluation of site perimeter TLD environmental monitoring dosimeters showed no departure from normal stable backgrounds.

D. Vegetation

No alpha, beta or gamma activity attributable to activities at the GETR facility was found on or in vegetation in the vicinity of the site.

E. Off-Site

Samples taken off the site indicate normal background for the area.

IV. Activities

Routine inspections were conducted during this report period. There were no preventive or corrective maintenance activities performed having safety significance during the reporting period.

V. Organization

There were no organization changes in 2000.

VI. Conclusion

The General Electric Company concludes that the deactivated GETR 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