GE Nuclear Energy

General Electric Company
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March 31, 1994

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

Attention: Document Control Desk

Reference: License TR-1, Docket 50-70

Gentlemen:

Enclosed are three signed copies of Annual Report No. 35 for the General Electric Test Reactor.

Sincerely,

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

/ca

Enclosures

GE Nuclear Energy

Vallecitos Nuclear Center
Pleasanton, California

GENERAL ELECTRIC TEST REACTOR

(DEACTIVATED)

ANNUAL REPORT NO. 35

LICENSE TR-1
DOCKET 50-70

GENERAL ELECTRIC TEST REACTOR
(DEACTIVATED)

ANNUAL REPORT NO. 35

The 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. This annual report summarizes the status of the facility for the period January 1, 1993, to December 31, 1993.

I. SUMMARY

The facility remains in essentially the same condition described in Annual Report No. 34. Entry into the reactor building was made for routine radiation surveys and a general check of conditions throughout the building.

II. STATUS

A. Maintenance

There were no major preventive or corrective maintenance activities having safety significance performed during 1993.

B. Changes

There were no changes authorized by the Facility Manager pursuant to 10CFR50.59(a) and completed in 1993.

C. Organization

There were no organization changes in 1993.

III. RADIATION LEVELS AND SAMPLE RESULTS AT ON- AND OFF-SITE MONITORING STATIONS

The data below are from sample and dosimeter results accumulated during 1993. Except for the GETR stack data, these data are for the entire VNC site and include the effects of operations other than the GETR.

A. GETR Stack

Total airborne releases (stack emissions) for 1993 are as follows.

Alpha Particulate, < 0.059 µCi (predominantly radon-thoron daughter products)
Beta-Gamma Particulate, < 1.42 µCi

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	$< 3.3 \times 10^{-15}$ µCi/cc	(predominantly radon-thoron daughter products)
Average	$< 1.1 \times 10^{-15}$ µCi/cc	

Beta Concentration:

Maximum	$< 4.2 \times 10^{-14}$ µCi/cc
Average	$< 1.9 \times 10^{-14}$ µCi/cc

C. Gamma Radiation

TLD dosimeter readings for the year 1993 at the site perimeter were within acceptable limits.

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. 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