



Carolina Power & Light Company

ROBINSON NUCLEAR PROJECT DEPARTMENT
POST OFFICE BOX 790
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APR 16 1985

Robinson File No: 13510

Serial: RNPD/85-800

Dr. J. Nelson Grace, Regional Administrator
United States Nuclear Regulatory Commission
Region II
101 Marietta Street, N. W., Suite 3100
Atlanta, Georgia 30323

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23

30 DAY SPECIAL REPORT - REACTOR COOLANT SYSTEM IODINE RADIOACTIVITY SPIKE

Dear Dr. Grace:

This 30-day special report concerning an iodine spike of approximately 2 hours duration on March 18, 1985, is reported pursuant to Technical Specification 3.1.4.

On March 18, 1985, at 1409 hours, the Plant tripped from 100% power. Subsequent reactor coolant samples indicated an increase in the I-131 dose equivalent. A sample drawn at 1530 hours indicated the I-131 dose equivalent was 1.057 $\mu\text{Ci/gm}$ which exceeded the I-131 dose equivalent reportability limit of 1.0 $\mu\text{Ci/gm}$. The subsequent sampling met the requirements of Technical Specification 3.1.4.

1. Reactor Power History of the Previous 48 Hours

The Plant was operating at 100% reactor power for the 48 hours prior to the reactor trip at 1409 hours on March 18, 1985.

2. Fuel Burnup by Core Region

Fuel burnup by core regions as of March 31, 1985, is as follows:

| | |
|------------|-------------------|
| Region 11A | 22,774.32 MWD/mt* |
| Region 12 | 12,193.62 MWD/mt* |
| Region 12A | 1,930.86 MWD/mt* |
| Region 12B | 1,494.09 MWD/mt* |
| Region 13 | 504.92 MWD/mt* |
| Region 13A | 1,607.70 MWD/mt* |

* MegaWatt days/metric ton

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3. Status of Letdown Demineralizers 48 Hours Prior to Event

Reactor coolant letdown flow through the letdown demineralizers was approximately 105 gpm at the time of the reactor trip. It had been increased from approximately 60 gpm to approximately 105 gpm at 1530 hours on March 16, 1985.

4. History of Degassing Operations 48 Hours Prior to the Event

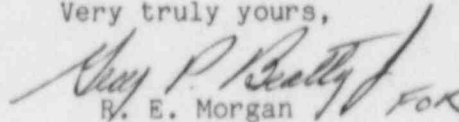
The Plant did not conduct degassing operations during the previous 48 hours.

5. Time Duration When I-131 Dose Equivalent Exceeded Reporting Limit

The I-131 dose equivalent limit was exceeded for approximately 2 hours. At 1530, the activity was 1.057 μ ci/gm, and at 1730 had decreased to .933 μ ci/gm. By March 20, 1985, the RCS I-131 dose equivalent had returned to previously experienced levels for this fuel cycle.

If you have any questions concerning this response, please contact Mr. David C. Stadler at 803-383-4524, Extension 363.

Very truly yours,



R. E. Morgan
General Manager

H. B. Robinson S. E. Plant

CLW:tk/C-819

cc: H. E. P. Krug
Document Control Desk