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Edwin I. Hatch Nuclear Plant

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November 2, 1983
GM-83-1073

PLANT E. I. HATCH
Licensee Event Report
Docket No. 50-321

United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

ATTENTION: Mr. James P. O'Reilly

Attached is a Supplemental Narrative Summary to Licensee Event Report No. 50-321/1979-021, Rev. 5. This report is required by Hatch Unit 1 Technical Specifications 6.9.1.9.d and Environmental Technical Specifications 3.2 and 5.7.2.

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IE 22
1/1

October 31, 1983

SUPPLEMENTAL NARRATIVE SUMMARY
TO
LER 50-321/1979-021, REV. 5
EDWIN I. HATCH NUCLEAR PLANT - HATCH 1
NONROUTINE RADIOLOGICAL ENVIRONMENTAL OPERATING
ANOMALOUS MEASUREMENT REPORT

This report which supplements the previous submittals on LER 50-321/1979-021 provides updated data on tritium levels in groundwater samples taken from locations where the average value during the third quarter of 1983 exceeded 3.0 E4 pCi/l which is the report level for tritium in environmental water samples according to Table 3.2-3 of the ETS. There continues to be no significant impact on the public health and safety due to these readings which exceeded the report level. As reported previously, any releases to unrestricted areas are through the outfalls of the drainage system; such releases continue to be small and result in nonsignificant doses to the public.

Reportable levels were found only at test holes N9B and T3 which are adjacent to each other. Reportable levels have continuously occurred at N9B for over four years. The tritium levels at T3 were reportable for a few years but then dropped below the report level for a few quarters.

The tritium levels found during the third quarter at N9B and T3 are presented in Table 1. It is seen that the levels at N9B are steadily decreasing while those at T3 are increasing. The quarterly average levels were 1.85 E5 and 3.83 E4 pCi/l at N9B and T3, respectively.

During the second quarter of 1983, reportable levels were also found at test hole T18. This test hole was found to be dry in each attempt to obtain samples during the third quarter.

The Center of Applied Isotope Studies of the University of Georgia who performs the tritium analyses of the groundwater samples has determined that their results have been in error due to their failure to account for decay of the tritium standard. The results obtained in July were approximately 36% too high; the error increases about 1/2% per month.

The results reported herein have been corrected. Results reported previously have accordingly been too high. Corrective action has been taken by the Center for Applied Isotope Studies, such that, accurate results are now being obtained.

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Table 1
High Tritium Levels During Third Quarter 1983

pCi/l

Date	N9B	T3
7/12	2.14 E5	2.69 E4
7/29	dry	2.01 E4
8/09	1.76 E5	4.09 E4
8/23	1.88 E5	4.63 E4
9/06	1.54 E5	4.04 E4
9/20	1.93 E5	5.53 E4

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