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Georgia Power

Edwin I. Hatch Nuclear Plant

November 23, 1982
PM-82-1140

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

Pursuant to Section 6.9.1.9.d of Plant Hatch Unit One Technical Specifications and Sections 3.2 and 5.7.2 of the Hatch Unit One Environmental Technical Specifications, please find the attached Supplemental Narrative Summary to Reportable Occurrence Report No. 50-321/1979-021, Rev. 5. The attached report provides supplemental information to the previous submittal of this LER.

CT/ows for
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October 29, 1982

SUPPLEMENTAL NARRATIVE SUMMARY
TO
LER 50-321/1979-021, REV. 5
EDWIN I. HATCH NUCLEAR PLANT - HATCH 1
NON-ROUTINE 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 1982 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 insignificant doses to the public.

The tritium levels found in all samples gathered at the reportable locations during the third quarter along with a complete listing of the past average quarterly levels for those locations are presented in Tables 1 and 2. Table 1 provides data for the samples collected in the CST-1 area and Table 2 provides data for the samples collected near the NE corner of the Unit 1 turbine building.

The source of the tritium in the CST-1 area is the leakage from the condensate transfer pumps and associated plumbing. During 1980, dikes were erected around the pumps to preclude water from any future leaks from entering the ground. In July 1981 and again in January 1982 the dike floor became flooded when leaks occurred to one of the condensate transfer pumps. Soon after each of these incidents the tritium levels in nearby groundwater samples increased sharply.

To stop the dike leakage all joints were filled with a sealant and an epoxy paint was applied to the floor and to the inside walls to several feet above the floor. This water proofing treatment was also applied to the CST-2 dike. This work was completed during the third quarter. Leak tests have been performed and the results indicate that the dikes are sealed..

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Table 1

Tritium Levels at Affected Locations in CST-1 Area

pCi/l

Qtr or Date	P16	T18
	QUARTERLY AVERAGE	
2-78	1.44E5	
3-78	1.54E5	
4-78		
1-79	1.26 E5	
2-79	9.60 E4	6.68 E4
3-79	7.08 E4	7.61 E4
4-79	6.38 E4	6.84 E4
1-80	9.18 E4	8.71 E4
2-80	1.12 E5	6.36 E4
3-80	dry	7.61 E4
4-80	dry	5.91 E4
1-81	6.22 E4	8.29 E4
2-81	5.73 E4	7.77 E4
3-81	8.55 E4	1.27 E5
4-81	dry	1.56 E5
1-82	1.26 E5	1.29 E5
2-82	dry	1.56 E5
3-82	1.64 E5	9.33 E4
	During Third Quarter 1982	
7/13		1.47 E5
7/14	dry	
7/20	1.76 E5	9.05 E4
7/27	1.51 E5	
8/12		1.18 E5
8/18	dry	
9/21	dry	1.76 E4

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Table 2

Tritium Levels at Affected Locations
Near NE Corner of the Unit 1 Turbine Building

pCi/l

Qtr or Date	N9B	T3
	QUARTERLY AVERAGES	
3-78	3.45 E3	
4-78	4.49 E3	
1-79	3.42 E4	
2-79	8.50 E4	1.19 E4
3-79	1.38 E5	1.28 E4
4-79	1.71 E5	2.01 E4
1-80	1.73 E5	2.47 E4
2-80	1.79 E5	3.92 E4
3-80	1.64 E5	4.60 E4
4-80	1.13 E5	4.29 E4
1-81	1.06 E5	4.80 E4
2-81	8.17 E4	5.55 E4
3-81	8.47 E4	4.74 E4
4-81	9.77 E4	5.29 E4
1-82	4.20 E5	1.10 E5
2-82	4.42 E5	1.13 E5
3-82	3.64 E5	4.34 E4
	During Second Quarter 1982	
7-13	4.20 E5	4.67 E4
7-20	3.64 E5	3.51 E4
7-27	3.39 E5	2.12 E4
8-10	4.26 E5	4.54 E4
8-12		4.28 E4
8-24	3.82 E5	4.89 E4
9-17	3.32 E5	5.28 E4
9-21	2.88 E5	5.46 E4

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