Georgia Power Company
Post Office Box 439
Baxley, Georgia 31513
Telephone 912 367-7781
912 537-9444

Georgia Power

Edwin I. Hatch Nuclear Plant

May 2, 1983
GM-83-451

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.

H. C. Nix
General Manager

HCN/SBT/abb

xc: R. J. Kelly
G. F. Head
J. T. Beckham, Jr.
P. D. Rice
K. M. Gillespie
S. B. Tipps
R. D. Baker
Control Room
Document Control

IE 27

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 first 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.

High tritium levels have been found in groundwater samples taken from two separate areas of the plant yard - an area centered just south of CST-1 and an area about the north side of the Unit 1 turbine building. These areas appear to be essentially unrelated to each other in that the causes of the high tritium levels are different and there appears not to be a good hydraulic connection between the two areas.

There were three reportable locations (test holes P16, T12 and T18) for the CST-1 area for the fourth quarter of 1982. During the first quarter of 1983, test holes P16 and T18 were dry and the average tritium level at T12 dropped below the report level to 1.38 E4 pCi/l.

There were four reportable locations (test holes N9B, T3 and T4, and the steam pipe chase for the auxiliary boiler) for the area about the north side of the Unit 1 turbine building for the fourth quarter of 1982. During the first quarter of 1983, the average tritium levels at T3 and the steam pipe chase dropped below the report level and no sample was collected at T4. The average levels at T3 and the pipe chase were 2.76 E4 and 6.59 E3 pCi/l, respectively.

The tritium levels found in all samples gathered at N9B, the only reportable location for the first quarter of 1983 along with a complete listing of the past average quarterly levels at this location are presented in Table 1.

Gamma scans were run on each sample collected in the steam pipe chase. No radionuclides above background were found.

Table 1

High Tritium Levels About the North Side of the Unit 1 Turbine Building

pCi/l

Quarter or Date	QUARTERLY AVERAGES N9B
3-78	3.45 E3
4-78	4.49 E3
1-79	3.42 E4
2-79	8.50 E4
3-79	1.38 E5
4-79	1.71 E5
1-80	1.73 E5
2-80	1.79 E5
3-80	1.64 E5
4-80	1.13 E5
1-81	1.06 E5
2-81	8.17 E4
3-81	8.47 E4
4-81	9.77 E4
1-82	4.20 E5
2-82	4.42 E5
3-82	3.64 E5
4-82	3.12 E5
1-83	3.64 E5
	During First Quarter 1983
1/11	3.38 E5
1/25	3.62 E5
2/08	3.57 E5
2/22	3.28 E5
3/08	3.78 E5
3/22	4.21 E5