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Nuclear Operations Department



Georgia Power

the southern electric system

SL-4881  
2088C  
X7GJ17-H320

July 5, 1988

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

PLANT HATCH - UNITS 1, 2  
NRC DOCKETS 50-321, 50-366  
OPERATING LICENSES DPR-57, NPF-5  
RESULTS OF CHEMISTRY CROSSCHECK SAMPLES

Gentlemen:

Enclosed are Georgia Power Company's results of the crosscheck of chemistry samples prepared by Brookhaven National Laboratory (BNL) and recently delivered to the Plant Hatch facility. These results have customarily been forwarded directly to Mr. Charles Hughey of the Region II Radiological Effluents and Chemistry Section. Mr. Hughey's Section Chief, Mr. J. B. Kahle, has been put on distribution for this letter.

Should you have any questions in this regard, please contact this office at any time.

Sincerely,

W. G. Hairston, III  
Senior Vice President  
Nuclear Operations

GKM/lg

Enclosure: Plant E. I. Hatch/Brookhaven Crosschecks

c: (see next page)

*Handwritten notes:*  
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Add: NRR/PREP/R.  
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c: Georgia Power Company

Mr. J. T. Beckhart, Jr., Vice President - Plant Hatch  
Mr. L. T. Gucwa, Manager Nuclear Safety and Licensing  
GO-NORMS

U. S. Nuclear Regulatory Commission, Washington, D. C.  
Mr. L. P. Crocker, Licensing Project Manager - Hatch

U. S. Nuclear Regulatory Commission, Region II

Dr. J. N. Grace, Regional Administrator  
Mr. J. E. Menning, Senior Resident Inspector - Hatch  
Mr. J. B. Kahle, Section Chief of Radiological Effluents and Chemistry

PLANT E. I. HATCH/BROOKHAVEN CROSSCHECKS

Method	Sample ID	Analyte	Dil. factor	Tech. 1 Results(ppm)	AVG.	Tech. 2 Results(ppm)	AVG.	Tech. 3 Results(ppm)	AVG.
IC	87A	*Chloride	2000	17.8,15.9,17.8	(17.2)	15.0,17.4,22.3	(18.2)	No more sample	---
	87B			33.4,33.7,34.6	(33.9)	21.7,28.4,26.0	(25.4)	25.8,26.4,26.9	(26.4)
	87C			70.8,68.4,68.5	(69.2)	78.2,70.3,100.7	(81.1)	57.3,57.3,53.2	(55.9)
IC	87A	Sulfate	2000	20.3,19.5,20.3	(20.0)	17.5,21.1,20.8	(19.8)	No more sample	---
	87B			41.5,41.5,41.3	(41.4)	30.6,40.6,39.6	(36.9)	44.9,46.7,48.0	(46.5)
	87C			81.9,81.7,82.0	(81.9)	86.5,89.2,108.9	(94.9)	80.0,86.6,87.8	(84.8)
AA flame	87G	Iron	1000	20.0,19.8,20.3	(20.0)	21.0,21.5,21.2	(21.2)	24.2,24.7,23.6	(24.2)
	87H			39.6,41.0,39.8	(40.1)	41.5,41.3,41.4	(41.4)	42.8,43.6,42.4	(42.9)
	87I			57.0,57.1,58.0	(57.4)	62.6,62.2,62.2	(62.3)	62.3,61.3,62.8	(62.1)
AA flame	87G	Copper	1000	20.0,20.0,20.0	(20.0)	21.0,21.1,20.6	(20.9)	23.0,23.0,23.0	(23.0)
	87H			39.8,39.9,40.5	(40.1)	40.9,41.0,40.7	(40.9)	42.8,42.1,42.8	(42.6)
	87I			60.1,59.9,60.0	(60.0)	62.0,62.7,62.7	(62.5)	62.2,62.5,62.7	(62.5)
AA flame	87G	Nickel	1000	20.3,20.1,20.1	(20.2)	20.9,21.3,21.4	(21.2)	23.4,22.7,23.5	(23.2)
	87H			40.0,41.0,40.3	(40.4)	41.6,41.5,41.9	(41.7)	41.2,41.7,42.9	(41.9)
	87I			57.5,58.0,57.3	(57.8)	63.6,63.3,64.0	(63.6)	60.9,61.8,62.0	(61.6)
AA flame	87G	Chromium	1000	19.9,19.7,20.3	(19.9)	21.9,21.9,22.0	(21.9)	21.0,20.6,21.2	(20.9)
	87H			39.9,39.7,40.3	(40.0)	43.0,43.2,43.2	(43.1)	39.1,39.2,39.6	(39.3)
	87I			57.8,58.0,58.1	(58.0)	64.8,64.9,65.3	(65.0)	58.9,59.1,59.8	(59.3)
IC	87J	Sodium	1000	6.10,6.20,5.8	(6.0)	4.3,4.8,5.2	(4.8)	5.5,6.4,5.9	(5.9)
	87K		2000	11.15,11.20,10.75	(11.0)	7.5,9.5,10.86	(9.3)	11.0,11.0,11.0	(11.0)
	87L		30ul to 250ml	16.67,15.25,16.04	(15.9)	17.8,14.56,13.8	(15.4)	15.8,15.0,16.0	(15.6)
IC	87J	Lithium	2000	16.90,16.80,16.90	(16.9)	19.6,19.2,19.1	(19.3)	17.2,19.8,18.3	(18.4)
	87K		2000	31.76,31.94,31.93	(31.9)	24.23,24.88,24.43	(24.5)	24.1,24.4,24.9	(24.5)
	87L		30ul to 250ml	36.92,38.2,41.7	(38.9)	31.28,31.1,31.8	(31.4)	38.9,37.4,37.2	(37.8)
Spectro- photo- meter	87S	Silica	1000	35,42,42	(39.7)	40.9,37,40	(39)	47,45,37	(43)
	87T		1000	90,83,88	(87)	88.2,89.1,89.5	(88.9)	93,93,97	(94.3)
	87U		1000	139,132,133	(134.7)	133.2,135.0,134.2	(134.1)	139,129,108	(125)
AA flame	Unk Metal	Iron	100	249.2,249.1,251.0	(250.0)				
AA flame	Unk Metal	Copper	100	253.0,253.1,253.9	(253.3)				
AA flame	Unk Metal	Ni	100	250.3,250.3,252.3	(251.0)				
AA flame	Unk Metal	Cr	100	251.1,243.9,244.8	(246.6)				
IC	Unk Anion	Chloride	2000	45.0,36.4,36.0	(39.1)			*Problems with defective concentrator columns.	
IC	Unk Anion	Sulfate	1000	52.4,54.0,55.1	(53.8)				

ENCLOSURE

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