Georgia Power Company
333 Piedmont Avenue
Atlanta, Georgia 30308
Telephone 404 526-6526

Mailing Address:
Post Office Box 4545
Atlanta, Georgia 30302

Georgia Power
the southern electric system

**L. T. Gucwa**
Manager Nuclear Safety
and Licensing

SL-2190
0173m

March 18, 1987

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

NRC DOCKETS 50-424, 50-425
OPERATING LICENSE NPF-68, CONSTRUCTION PERMIT CPPR-109
VOGTLE ELECTRIC GENERATING PLANT UNITS 1, 2
NRC CONFIRMATORY MEASUREMENTS PROGRAM

Gentlemen:

Our November 24, 1986 letter transmitted the results of the Hatch spiked sample analysis and stated that the Vogtle results would be provided at a later date. In accordance with that commitment, the Vogtle analysis results are hereby provided for your use.

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

Sincerely,

L. T. Gucwa

JH/lm

Enclosure

8703250232 870318
PDR ADOCK 05000424
A PDR

A001
1/1

Georgia Power



c(w): Georgia Power Company
Mr. R. E. Conway
Mr. J. P. O'Reilly
Mr. G. Bockhold, Jr.
Mr. J. F. D'Amico
GO-NORMS

Southern Company Services
Mr. J. A. Bailey

Shaw, Pittman, Potts & Trowbridge
Mr. B. W. Churchill, Attorney-at-Law

Troutman, Sanders, Lockerman & Ashmore
Mr. J. E. Joiner, Attorney-at-Law

U. S. Nuclear Regulatory Commission
Dr. J. N. Grace, Regional Administrator
Mr. H. H. Livermore, Senior Resident Inspector-Construction, Vogtle
Ms. M. A. Miller, Licensing Project Manager, NRR (2 copies)
Mr. J. F. Rogge, Senior Resident Inspector-Operations, Vogtle

Georgians Against Nuclear Energy
Mr. D. Feig
Ms. C. Stangler

0173m

VAX/VMS Peak Search Report V1.4 Generated 21-NOV-1986 15:48:07

Configuration : $DISK1:[CHEMISTRY.DATA]177_86.CNF;1
Analyses by : PEAK V15.5
Sample title : NRC SAMPLE B
Sample date : 11-JAN-1986 12:00:00 Acquisition date : 21-NOV-1986 14:57:37
Sample ID : 177-86 Sample quantity : 15.000 ml
Sample type : RC Liquid Sample geometry : SCIN_SO
Detector name : PGT 1759 D2 Detector geometry: LSVIAL_394
Elapsed live time: 0 00:50:00.00 Elapsed real time: 0 00:50:05.00 0.2%
Start energy : 49.95 keV End energy : 2048.06 keV
Sensitivity : 5.00 Gaussian : 5.00

| Pk | It | Energy | Area | Bkgnd | FWHM | Channel | Left | Rw | Cts/Sec | %Err | Fit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 661.41 | 7223 | 347 | 1.28 | 1322.96 | 1317 | 13 | 2.41E+00 | 1.3 | |
| 2 | 0 | 834.53 | 2012 | 344 | 1.50 | 1669.21 | 1663 | 14 | 6.71E-01 | 3.1 | |
| 3 | 0 | 1172.93 | 3593 | 112 | 1.61 | 2345.98 | 2338 | 17 | 1.20E+00 | 1.8 | |
| 4 | 0 | 1332.15 | 3209 | 43 | 1.73 | 2664.40 | 2656 | 17 | 1.07E+00 | 1.8 | |

VAX/VMS Nuclide Identification Report V1.4 Generated 21-NOV-1986 15:48:18

Configuration : $DISK1:[CHEMISTRY.DATA]177_86.CNF;1
Analyses by : PEAK V15.5,PEAKEFF V1.2,NID V1.5
Sample title : NRC SAMPLE B
Sample date : 11-JAN-1986 12:00:00 Acquisition date : 21-NOV-1986 14:57:27
Sample ID : 177-86 Sample quantity : 15.000 ml
Sample type : RC Liquid Sample geometry : SCIN_SO
Detector name : PGT 1759 D2 Detector geometry: LSVIAL_394
Elapsed live time: 0 00:50:00.00 Elapsed real time: 0 00:50:05.00 0.2%
Energy tolerance : 1.00 keV Half life ratio : 8.00
Abundance limit : 80.00

Summary of Nuclide Activity

| | | |
|---|---|---|
| Total number of lines in spectrum | 4 | |
| Number of unidentified lines | 0 | |
| Number of lines tentatively identified by NID | 4 | 100.00% |

Nuclide Type : ap

| Nuclide | Hlife | Decay | Uncorrected UCI/ml | Decay Corr UCI/ml | 2-Sigma %Error |
|---|---|---|---|---|---|
| MN-54 | 312.20D | 2.009 | 1.311E-04 | 2.633E-04 | 6.14 |
| CO-60 | 5.27Y | 1.120 | 3.391E-04 | 3.797E-04 | 3.64 |

Nuclide Type : fp

| Nuclide | Hlife | Decay | Uncorrected UCI/ml | Decay Corr UCI/ml | 2-Sigma %Error |
|---|---|---|---|---|---|
| CS-137 | 30.10Y | 1.020 | 4.169E-04 | 4.252E-04 | 2.58 |

Nuclide Type: ap

| Nuclide | Energy | Area | %Abn | %Eff | Uncorrected UCI/ml | Decay Corr UCI/ml | 2-Sigma %Error |
|---|---|---|---|---|---|---|---|
| MN-54 | 834.81 | 2011 | 99.98* | 9.219E-01 | 1.311E-04 | 2.633E-04 | 6.14 |
| CO-60 | 1173.23 | 3592 | 99.86 | 6.436E-01 | 3.358E-04 | 3.760E-04 | 3.61 |
| | 1332.51 | 3208 | 99.98* | 5.684E-01 | 3.391E-04 | 3.797E-04 | 3.64 |

Nuclide Type: fp

| Nuclide | Energy | Area | %Abn | %Eff | Uncorrected UCI/ml | Decay Corr UCI/ml | 2-Sigma %Error |
|---|---|---|---|---|---|---|---|
| CS-137 | 661.62 | 7223 | 84.62* | 1.230E+00 | 4.169E-04 | 4.252E-04 | 2.58 |

VAX/VMS Peak Search Report V1.4 Generated 21-NOV-1986 14:56:48

| | | | |
|---|---|---|---|
| Configuration | : $DISK1:[CHEMISTRY.DATA]176_86.CNF;1 | | |
| Analyses by | : PEAK V15.5 | | |
| Sample title | : NRC SAMPLE A | | |
| Sample date | : 11-JAN-1986 12:00:00 | Acquisition date | : 21-NOV-1986 14:06:00 |
| Sample ID | : 176-86 | Sample quantity | : 1000.0 ml |
| Sample type | : NRC SAMPLE | Sample geometry | : 1LMAR_SO |
| Detector name | : PGT 1759 | Detector geometry | : 1.0 1 marinelli |
| Elapsed live time | : 0 00:50:00.00 | Elapsed real time | : 0 00:50:04.00 0.1% |
| Start energy | : 49.95 keV | End energy | : 2048.06 keV |
| Sensitivity | : 5.00 | Gaussian | : 5.00 |

| Pk | It | Energy | Area | Bkgnd | FWHM | Channel | Left | Pw | Cts/Sec | %Err | Fit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 661.35 | 3608 | 181 | 1.36 | 1322.86 | 1316 | 15 | 1.20E+00 | 1.9 | |
| 2 | 0 | 834.50 | 1096 | 188 | 1.47 | 1669.14 | 1661 | 16 | 3.65E-01 | 4.1 | |
| 3 | 0 | 1172.88 | 1964 | 123 | 1.69 | 2345.87 | 2339 | 14 | 6.55E-01 | 2.5 | |
| 4 | 0 | 1332.08 | 1786 | 17 | 1.71 | 2664.25 | 2658 | 13 | 5.95E-01 | 2.4 | |

VAX/VMS Nuclide Identification Report V1.4 Generated 21-NOV-1986 14:57:02

Configuration : $DISK1:[CHEMISTRY.DATA]176_86.CNF;1
Analyses by : PEAK V15.5,PEAKEFF V1.2,NID V1.5
Sample title : NRC SAMPLE A
Sample date : 11-JAN-1986 12:00:00 Acquisition date : 21-NOV-1986 14:06:00
Sample ID : 176-86 Sample quantity : 1000.0 ml
Sample type : NRC SAMPLE Sample geometry : 1LMAR_SO
Detector name : PGT 1759 Detector geometry: 1.0 l marinelli
Elapsed live time: 0 00:50:00.00 Elapsed real time: 0 00:50:04.00 0.1%
Energy tolerance : 1.00 keV Half life ratio : 8.00
Abundance limit : 80.00

Summary of Nuclide Activity

| | | |
|---|---|---|
| Total number of lines in spectrum | 4 | |
| Number of unidentified lines | 0 | |
| Number of lines tentatively identified by NID | 4 | 100.00% |

Nuclide Type : ap

| Nuclide | Hlife | Decay | Uncorrected UCI/ml | Decay Corr UCI/ml | 2-Sigma %Error |
|---|---|---|---|---|---|
| MN-54 | 312.20D | 2.008 | 2.709E-06 | 5.442E-06 | 8.23 |
| CO-60 | 5.27Y | 1.120 | 6.733E-06 | 7.539E-06 | 4.84 |

Nuclide Type : fp

| Nuclide | Hlife | Decay | Uncorrected UCI/ml | Decay Corr UCI/ml | 2-Sigma %Error |
|---|---|---|---|---|---|
| CS-137 | 30.10Y | 1.020 | 8.307E-06 | 8.473E-06 | 3.71 |

Nuclide Type: ap

| Nuclide | Energy | Area | %Abn | %Eff | Uncorrected UCI/ml | Decay Corr UCI/ml | 2-Sigma %Error |
|---|---|---|---|---|---|---|---|
| MN-54 | 834.81 | 1096 | 99.98* | 3.646E-01 | 2.709E-06 | 5.442E-06 | 8.23 |
| CO-60 | 1173.23 | 1964 | 99.86 | 2.695E-01 | 6.575E-06 | 7.362E-06 | 5.08 |
| | 1332.51 | 1785 | 99.98* | 2.389E-01 | 6.733E-06 | 7.539E-06 | 4.84 |

Nuclide Type: fp

| Nuclide | Energy | Area | %Abn | %Eff | Uncorrected UCI/ml | Decay Corr UCI/ml | 2-Sigma %Error |
|---|---|---|---|---|---|---|---|
| CS-137 | 661.62 | 3607 | 84.62* | 4.623E-01 | 8.307E-06 | 8.473E-06 | 3.71 |