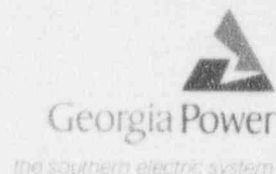


Georgia Power Company
40 Inverness Center Parkway
Post Office Box 1295
Birmingham, Alabama 35201
Telephone 205 877-7279

J. T. Beckham, Jr.
Vice President - Nuclear
Hatch Project



Docket Nos. 50-321
50-366

HL-4537

March 23, 1994

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

Edwin I. Hatch Nuclear Plant
Annual Environmental Surveillance Report

Gentlemen:

In accordance with the Plant Hatch Units 1 and 2 Environmental Technical Specifications, (Appendix B to the Operating Licenses) Section 5.6.1, Georgia Power Company is submitting the enclosed Environmental Surveillance Report for 1993.

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

Sincerely,

J. T. Beckham, Jr.

LPD:sls
ENV-94-067

Enclosure: Annual Environmental Surveillance Report

cc: Georgia Power Company
Mr. H. L. Sumner, General Manager - Nuclear Plant
Mr. C. M. Hobson, Manager - Environmental Affairs
NORMS

U. S. Nuclear Regulatory Commission, Washington, D. C.
Mr. K. N. Jabbour, Licensing Project Manager - Hatch

U. S. Nuclear Regulatory Commission, Region II
Mr. S. D. Ebnetter, Regional Administrator
Mr. L. D. Wert, Senior Resident Inspector - Hatch

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ENCLOSURE

**EDWIN I. HATCH NUCLEAR PLANT - UNITS 1 AND 2
NRC DOCKETS 50-321, 50-366
OPERATING LICENSES DPR-57, NPF-5
ANNUAL ENVIRONMENTAL SURVEILLANCE REPORT**

1993

Specification

In accordance with the Edwin I. Hatch Nuclear Plant (Plant Hatch) Technical Specifications, Appendix B, Section 5.6.1, this report is submitted summarizing the environmental activities for Units 1 and 2 of the Edwin I. Hatch Nuclear Plant for the period January 1, 1993 through December 31, 1993.

Reporting Requirements

A. Summaries, Analyses, and Interpretations of the Environmental Monitoring Activities Results for the Report Period

No nonradiological environmental monitoring activities were performed at Plant Hatch during the reporting period beyond those performed in accordance with NPDES Permit No. GA 0004120. Monitoring activities performed in accordance with NPDES Permit No. GA 0004120 are referenced in Section H.

B. Comparison With Preoperational Studies, With Operational Controls, and With Previous Monitoring Reports

Comparisons with preoperational studies, operational controls, and previous monitoring reports were not necessary because no nonradiological monitoring programs were conducted during the monitoring period beyond those performed in accordance with NPDES Permit No. GA 0004120.

C. An Assessment of Observed Impacts of Plant Operation on the Environment

No significant environmental impacts were associated with plant operation during the reporting period.

EDWIN I. HATCH NUCLEAR PLANT - UNITS 1 AND 2
ANNUAL ENVIRONMENTAL SURVEILLANCE REPORT

1993

D. Environmental Technical Specifications (ETS) Noncompliances and Corrective Actions Taken

No instances of ETS noncompliance occurred during the reporting period.

E. Changes to Federal and State Permits or Certificates

U. S. Army Corps of Engineers Permit No. 199101536 was reissued in 1993. This permit authorizes the construction of a temporary weir in the Altamaha River to assure adequate cooling water during severe drought periods. Attachment 1 provides an informational copy of the permit.

F. Changes in Station Design or Operation that Could Involve an Environmental Impact or Change in the Findings of the Final Environmental Statement

In 1993, no changes were made in station design or operation which presented significant environmental impact or resulted in a change in the findings of the Final Environmental Statement.

G. Changes in the ETS

No amendments to the ETS were issued during the reporting period.

H. Copies of All Reports Regarding Station Discharges Made in Accordance With NPDES Permit No. GA 0004120

Copies of the Plant Hatch 1993 quarterly NPDES Operations Monitoring Reports and the 1993 Flow Monitoring and Characterization Study are included as Attachments 2 and 3 respectively.

HL-4547
ENV-94-067

ATTACHMENT 1

EDWIN I. HATCH NUCLEAR PLANT - UNITS 1 AND 2

CORPS OF ENGINEERS PERMIT NO. 199101536

HL-4537

ENV-94-067

Edwin I. Hatch Nuclear Plants - Units 1 and 2

NRC Dockets 50-321, 50-366

Operating Licenses DPR-57, NPF-5

Annual Environmental Surveillance Report

DEPARTMENT OF THE ARMY PERMIT

Permittee: Georgia Power Company

Permit Number: 199101536

ISSUING OFFICE:

Savannah District
Corps of Engineers
Post Office Box 889
Savannah, GA 31402-0889

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

PROJECT DESCRIPTION: The permitted activity is the construction of a temporary water retaining structure (weir) containing approximately 475 cubic yards of bagged river sand. The temporary structure will be 550' long, 3' wide at the top, and 8' to 23' wide at the base. The height of the structure will vary from 1' to 4' depending on river bottom contours. The crest elevation will be 62.3' above mean sea level, adequate to provide intake water to Plant Hatch. The temporary structure will have 2 fish ladders each 30' wide with the crest at 62.0' mean sea level. There will be a boat pass near the center of the structure 15' wide and approximately 4' deep. The temporary structure will be marked upstream with 6 lighted buoys at 100' center to center spacing 1,000' upstream and 3 lighted buoys at 200' center to center spacing 500' upstream. Six lighted buoys at 100' center to center spacing will also be placed 500' downstream of the structure. The weir would be placed only in the event of an extreme low flow situation in the Altamaha River, after supplemental flows from upstream reservoirs were near exhaustion.

PROJECT LOCATION: The site is located in the Altamaha River, approximate River Mile 116.3, near the E. I. Hatch Steam Electric Generating Station, Plant Hatch, approximately 4,200 feet downstream of U. S. Highway 1, in Appling and Toombs, Counties Georgia.

PERMIT CONDITIONS:

General Conditions:

1. The time limit for completing the work authorized ends on February 1, 1998. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

1. The weir will only be constructed in the event of an extreme low flow situation after supplemental flow from upstream reservoirs are near exhaustion.
2. That the permittee will notify this office as early in advance of construction as possible, at least 10 days in advance. Once the notification is received, the District Engineer will

notify the appropriate Federal and State agencies, and issue the necessary Notice to Mariners.

3. That the permittee will place all lights and signals to mark the weir as may be prescribed by the U. S. Coast Guard. These lights and signals shall be installed and maintained by and at the expense of the permittee.
4. That all materials used in construction of the weir will be removed to a high ground site.
5. That any change to the river due to construction equipment be restored after construction.
6. That someone with a background in riparian and riverine habitat studies be present during construction of the weir to insure that impacts to riparian and riverine habitats are minimized. That the weir be under surveillance and daily reports on weir conditions be made by the permittee.
7. That the permittee shall begin removal of the weir on or before 1 January and complete removal of the weir by 1 February. If deviation from this schedule is anticipated by the permittee due to extreme low or high water elevations, the permittee shall notify the District Engineer of the situation at the earliest possible date and request approval of a new schedule of removal.
8. That sounding or bottom probing be conducted to ensure that all materials have been removed. That results of all sounding and/or probing shall be reported.
9. That the permittee shall notify this office once removal of the weir is completed.

FURTHER INFORMATION:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(x) Section 10 of the River and Harbor Act of 1899 (33 U.S.C. 403).

(x) Section 404 of the Clean Water Act (33 U.S.C. 1344).

() Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data. The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Re-evaluation of Permit Decision. This office may re-evaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require re-evaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a re-evaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures

such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

S. H. Yelch
(PERMITTEE)

3-31-53
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Wesley D. ...

4/8/53
(DATE)

Issued for and in behalf of:
Donald R. Holzwarth
Colonel, U. S. Army
District Engineer

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE)

(DATE)



This notice of authorization must be
conspicuously displayed at the site of work.

United States Army Corps of Engineers

19 93

A permit to construct a temporary weir in the Altamaha River

at Plant Hatch in Appling and Toombs Counties

has been issued to Georgia Power Company ON April 8, 19 93

Address of Permittee Georgia Power Company

Permit Number

199101536

Donald R. Holzwarth
For District Commander
Donald R. Holzwarth
Colonel, U.S. Army
District Engineer

ATTACHMENT 2

EDWIN I. HATCH NUCLEAR PLANT - UNITS 1 AND 2
1993 NPDES OPERATION MONITORING REPORTS

HL-4537
ENV-94-067
Edwin I. Hatch Nuclear Plants - Units 1 and 2
NRC Dockets 50-321, 50-366
Operating Licenses DPR-57, NPF-5
Annual Environmental Surveillance Report

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 01G - Low Volume Waste (Neutralization Tank)

Type of Sample: Grab
 Frequency of Analysis: 2/Mo

Code:	(530)	(550)
Parameter:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

Date:

01-08-93	0.5	0.0
01-18-93	14.7	0.0
02-01-93	6.0	0.1
02-16-93	11.9	1.0
03-11-93	24.2	0.0
03-16-93	8.0	0.0

Number of Samples:	6	6
Average Value:	10.9	0.2
Maximum Value:	24.2	1.0
Minimum Value:	0.5	0.1
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 01H - Low Volume Waste (Pressure Filters Backwash)

Type of Sample: Grab
 Frequency of Analysis: 1/Qtr

Code:	(530)	(550)
Parameter:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20
Date:		
03-23-93 (A)	3	<5
03-23-93 (B)	4	<5
03-23-93 (C)	3	<5
03-23-93 (D)	5	<5

Number of Samples:	4	4
Average Value:	4	<5
Maximum Value:	5	<5
Minimum Value:	3	<5
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 01A - Cooling Tower Blowdown Unit One

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
01-06-93	0	0	0 0	--	--
01-08-93	-	-	- -	.06	0
01-13-93	0	0	0 0	--	--
01-20-93	0	0	0 0	--	--
01-27-93	0	0	0 0	--	--
02-03-93	0	0	0 0	--	--
02-10-93	0	0	0)	--	--
02-18-93	0	0	0 (--	--
02-24-93	0	0	0 C	--	--
03-03-93	0	0	0 0	--	--
03-10-93	0	0	0 0	--	--
* 03-17-93	-	-	- -	--	--
* 03-24-93	-	-	- -	--	--
Number of Samples:	10	10	10 10	1	1
Avg Value:	0	0	0 0	.06	0
Max Value:	0	0	0 0	.06	0
Min Value:	0	0	0 0	.06	0
Limits Exceeded:	0	0	0 0	0	0

* Note: Unit 1 in outage. Unable to obtain sample.

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 02A - Cooling Tower Blowdown Unit Two

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min)(mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
01-05-93	0	0	0 0	--	--
01-08-93	-	-	0 0	.87	0.0
01-13-93	0	0	0 0	--	--
01-20-93	0	0	0 0	--	--
01-27-93	0	0	0 0	--	--
02-03-93	0	0	0 0	--	--
02-10-93	0	0	0 0	--	--
02-18-93	0	0	0 0	--	--
02-24-93	0	0	0 0	--	--
03-03-93	0	0	0 0	--	--
* 03-10-93	--	--	-- --	--	--
* 03-17-93	--	--	-- --	--	--
* 03-24-93	--	--	-- --	--	--
Number of Samples:	9	9	9 9	1	1
Avg Value:	0	0	0 0	0	0
Max Value:	0	0	0 0	0	0
Min Value:	0	0	0 0	0	0
Limits Exceeded:	0	0	0 0	0	0

* Unit Two in outage. Unable to obtain sample.

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 01B - Unit One Cooling Water Overflow

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
03-19-93	--	--	-- --	<.1	<.1

Number of					
Samples:	0	0	0	0	1
Avg Value:	-	-	-	-	<.1
Max Value:	-	-	-	-	<.1
Min Value:	-	-	-	-	<.1
Limits					
Exceeded:	0	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

** Discharge Location: 01I - Unit One Cooling Tower Basin Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
03-23-93	-	-	-	.5	0

Discharge occurred during period of no chlorination.

Number of Samples:	0	0	0	0	1	1
Avg Value:	0	0	0	0	.5	0
Max Value:	0	0	0	0	.5	0
Min Value:	0	0	0	0	.5	0
Limits Exceeded:	0	0	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 01J - Unit One Cooling Tower Basin Overflows
 to Storm Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.	
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab	
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr	
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.	
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)	
Limits:	0.2	0.5	120 N/A	1.0	0.2	
Codes:	50064	50064	81400 50060	1092	1034	
Date:	03-23-93	-	-	-	.1	0

Discharge occurred during period of no chlorination.

Number of Samples:	0	0	0	0	1	1
Avg Value:	0	0	0	0	.1	0
Max Value:	0	0	0	0	.1	0
Min Value:	0	0	0	0	.1	0
Limits Exceeded:	0	0	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 02B - Unit Two Cooling Water Overflow To Storm
 Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.	
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab	
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr	
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.	
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)	
Limits:	0.2	0.5	120 N/A	1.0	0.2	
Codes:	50064	50064	81400 50060	1092	1034	
Date:						
01-16-93	--	--	--	--	0.6	0
* 03-31-93	<.1	<.1	0	<.1	0.2	0

* Temperature reading = 68° F (20° C), Flow rate of 400 gpm

* Bypass Authorization due to Unit One Dual Division Plant Service
 Water Outage.

Discharges occurred during periods of no chlorination.

Number of					
Samples:	1	1	1	1	2
Avg Value:	<.1	<.1	0	<.1	0.4
Max Value:	<.1	<.1	0	<.1	0.6
Min Value:	<.1	<.1	0	<.1	0.2
Limits					
Exceeded:	0	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 02C - Unit Two Cooling Water Overflow

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
01-16-93	--	--	-- --	0.6	0

Discharge occurred during a period of no chlorination.

Number of Samples:	0	0	0	0	1	1
Avg Value:	0	0	0	0	0.6	0
Max Value:	0	0	0	0	0.6	0
Min Value:	0	0	0	0	0.6	0
Limits Exceeded:	0	0	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 01E - Low Volume Waste (Liquid Radwaste System Unit One)

Type of Sample: Grab
 Frequency of Analysis: 2/Mo

Code: (530) (550)

Parameter: TSS O & G Nitrite (Chill Water) Releases
 mg/l mg/l to discharge point OSN 01

Limits: Avg. 30 Avg. 15 Initial Amount Dilution Final
 Max.100 Max. 20 Conc. Drained Flow rate Conc.
 (ppm) (gallons) (gpm) (ppb)

Date:

01-04-93	7	0.5	--	--	--	--
01-18-93	14	0.0	--	--	--	--
02-01-93	.1	0.3	--	--	--	--
02-15-93	1	0.0	--	--	--	--
03-01-93	2	2.9	--	--	--	--
03-15-93	4	2.4	--	--	--	--
03-30-93	-	-	300	6792	14000	141

Number of Samples :	6	6	1	1	1	1
Average Value:	5	1.0	300	6792	14000	141
Maximum Value:	14	2.9	300	6792	14000	141
Minimum Value:	.1	0.0	300	6792	14000	141
Limits Exceeded:	0	0	NA	NA	NA	NA

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 02E - Low Volume Waste (Liquid Radwaste System
 Unit Two)

Type of Sample: Grab
 Frequency of Analysis: 2/Mo

Code: (530) (550)

Parameter: TSS mg/1 O & G mg/1 Nitrite (Chill Water) Releases
 to discharge point OSN 02

Limits: Avg. 30 Max.100 Avg. 15 Max. 20 Initial Conc. (ppm) Amount Drained (gallons) Dilution Flow rate (gpm) Final Conc. (ppb)

Date:

01-04-93	2	1.3	--	--	--	--
01-18-93	1	0.3	--	--	--	--
02-01-93	3	1.3	--	--	--	--
02-15-93	1	1.9	--	--	--	--
03-01-93	2	2.4	--	--	--	--
03-15-93	.7	0.9	--	--	--	--

Number of Samples :	6	6	0	0	0	0
Average Value:	1.6	1.4	0	0	0	0
Maximum Value:	3	2.4	0	0	0	0
Minimum Value:	.7	0.3	0	0	0	0
Limits Exceeded:	0	0	NA	NA	NA	NA

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 01 - Combined Plant Waste Streams Unit One

Frequency of Analysis:	1/Wk			
Type of Samples:	In Situ	Grab	Grab	Grab
Parameter:	Temperature	T.R.C.	F.A.C.	pH
Limits:	Deg. F	N/A	N/A	Min. 6.0 Max. 9.0

Code:	(11)	(50060)	(50064)	(400)
-------	------	---------	---------	-------

Date:

01-04-93	62	<.1	<.1	6.8
01-11-93	68	<.1	<.1	6.6
01-18-93	73	<.1	<.1	7.3
01-25-93	71	<.1	<.1	7.4
02-01-93	77	<.1	<.1	7.4
02-08-93	71	<.1	<.1	7.7
02-15-93	64	<.1	<.1	7.0
02-22-93	60	<.1	<.1	7.1
03-01-93	59	<.1	<.1	7.1
03-08-93	75	<.1	<.1	7.5
03-15-93	60	<.1	<.1	7.2
03-22-93	59	<.1	<.1	7.3
03-29-93	66	<.1	<.1	6.9

Number of Samples:	13	13	13	13
Average Value:	67	<.1	<.1	7.2
Maximum Value:	77	<.1	<.1	7.7
Minimum Value:	59	0	0	6.6
Limits Exceeded:	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 01-01-93
 To: 03-31-93

Permit Number: GA0004120

Discharge Location: 02 - Combined Plant Waste Streams Unit Two

Frequency of Analysis:	1/Wk			
Type of Samples:	In Situ	Grab	Grab	Grab
Parameter:	Temperature	T.R.C.	F.A.C.	pH
Limits:	Deg. F	N/A	N/A	Min. 6.0 Max. 9.0

Code:	(11)	(50060)	(50064)	(400)
-------	------	---------	---------	-------

Date:

01-04-93	73	<.1	<.1	7.4
01-11-93	73	<.1	<.1	7.1
01-18-93	73	<.1	<.1	7.4
01-25-93	66	<.1	<.1	7.1
02-01-93	68	<.1	<.1	7.5
02-08-93	68	<.1	<.1	7.6
02-15-93	71	<.1	<.1	7.8
02-22-93	66	<.1	<.1	7.1
03-01-93	64	<.1	<.1	7.8
03-08-93	62	<.1	<.1	7.4
03-15-93	66	<.1	<.1	7.2
03-22-93	57	<.1	<.1	6.8
03-29-93	66	<.1	<.1	6.9

Number of Samples:	13	13	13	13
Average Value:	67	<.1	<.1	7.3
Maximum Value:	73	<.1	<.1	7.8
Minimum Value:	57	<.1	<.1	6.8
Limits Exceeded:	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
Plant E.I. Hatch
P.O. Box 4545
Atlanta, Georgia 30302

From: 01-01-93
To: 03-31-93

Permit Number: GA0004120

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.



H. L. Sumner, Jr.
General Manager
Nuclear Plant

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 01G - Low Volume Waste (Neutralization Tank)

Type of Sample: Grab
 Frequency of Analysis: 2/Mo

Code:	(530)	(556)
Parameter:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

Date:

04-05-93	2.9	1.0
04-26-93	13.5	0.0
05-06-93	15.2	0.5
05-19-93	19.0	0.0
06-07-93	0.3	0.0
06-23-93	2.4	0.5

Number of Samples:	6	6
Average Value:	8.9	0.3
Maximum Value:	19.0	1.0
Minimum Value:	0.3	0.0
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 01H - Low Volume Waste (Pressure Filters Backwash)

Type of Sample: Grab
 Frequency of Analysis: 1/Qtr

Code:	(530)	(556)
Parameter:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20
Date:		
05-17-93 (A)	2	<5
05-17-93 (B)	2	<5
05-17-93 (C)	4	<5
05-17-93 (D)	5	<5

Number of Samples:	4	4
Average Value:	3.3	<5
Maximum Value:	5	<5
Minimum Value:	2	<5
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 01A - Cooling Tower Blowdown Unit One

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
* 04-07-93	-	-	-	---	---
* 04-14-93	-	-	-	---	---
* 04-21-93	-	-	-	---	---
* 04-28-93	-	-	-	---	---
* 05-04-93	-	-	-	---	---
05-12-93	0	0	0 0	---	---
05-19-93	0	0	0 0	---	---
05-25-93	-	-	-	0.4	0
05-26-93	0	0	0 0	---	---
06-02-93	0	0	0 0	---	---
06-09-93	0	0	0 0	---	---
06-16-93	0	0	0 0	---	---
06-23-93	0	0	0 0	---	---
Number of Samples:	7	7	7 7	1	1
Avg Value:	0	0	0 0	0.4	0
Max Value:	0	0	0 0	0.4	0
Min Value:	0	0	0 0	0.4	0
Limits Exceeded:	0	0	0 0	0	0

* Note: Unit 1 in outage. Unable to obtain sample.

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 02A - Cooling Tower Blowdown Unit Two

Location: Type: Frequency: Parameter:	Blowdown Mltpl Grab 1/Wk/Unit Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time & TRC avg.	Tower Basin Grab 1/Qtr Zinc max.	Tower Basin Grab 1/Qtr Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
04-07-93	0	0	0 0	.04	0.0
04-14-93	0	0	0 0	--	--
04-22-93	0	0	0 0	--	--
04-28-93	0	0	0 0	--	--
05-04-93	0	0	0 0	--	--
05-12-93	0	0	0 0	--	--
05-19-93	0	0	0 0	--	--
05-26-93	0	0	0 0	--	--
06-02-93	0	0	0 0	--	--
06-09-93	0	0	0 0	--	--
06-16-93	0	0	0 0	--	--
06-23-93	0	0	0 0	--	--

Number of Samples:	12	12	12	12	1	1
Avg Value:	0	0	0	0	.04	0
Max Value:	0	0	0	0	.04	0
Min Value:	0	0	0	0	.04	0
Limits Exceeded:	0	0	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 01B - Unit One Cooling Water Overflow

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
04-20-93	--	--	-- --	0.8	0.0

Number of					
Samples:	0	0	0	0	1
Avg Value:	-	-	-	-	0.8
Max Value:	-	-	-	-	0.8
Min Value:	-	-	-	-	0.8
Limits					
Exceeded:	0	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 01I - Unit One Cooling Tower Basin Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					

There were no discharges from this sample point during this time period.

Number of					
Samples:	0	0	0	0	0
Avg Value:	-	-	-	-	-
Max Value:	-	-	-	-	-
Min Value:	-	-	-	-	-
Limits					
Exceeded:	-	-	-	-	-

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 01J - Unit One Cooling Tower Basin Overflows
 to Storm Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.	
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab	
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr	
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.	
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)	
Limits:	0.2	0.5	120 N/A	1.0	0.2	
Codes:	50064	50064	81400 50060	1092	1034	
Date:	06-30-93	-	-	-	**	**

** Sample results are to be submitted on next quarter's report due to lateness of sample and turn around time from the lab.

Discharge occurred during period of no chlorination.

Number of Samples:	0	0	0	0	1	1
Avg Value:	-	-	-	-	**	**
Max Value:	-	-	-	-	**	**
Min Value:	-	-	-	-	**	**
Limits Exceeded:	-	-	-	-	**	**

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 02B - Unit Two Cooling Water Overflow To Storm
 Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
04-10-93	--	--	-- --	0	0

Discharge occurred during period of no chlorination.

Number of					
Samples:	0	0	0	0	1
Avg Value:	-	-	-	-	0
Max Value:	-	-	-	-	0
Min Value:	-	-	-	-	0
Limits					
Exceeded:	-	-	-	-	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 02C - Unit Two Cooling Water Overflow

Location:	Blowdown	Blowdown	Blowdown	Tower Disch.	Tower Disch.	
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab	
Frequency:	1/Wk/Unit	1/Wk/Unit	1/Wk/Unit	1/Qtr	1/Qtr	
Parameter:	Fac	Fac max.	Total Time of TRC rel & TRC avg.	Zinc max.	Chromium max.	
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)	
Limits:	0.2	0.5	120 N/A	1.0	0.2	
Codes:	50064	50064	81400 50060	1092	1034	
Date:	04-20-93	--	--	--	0.5	0

Discharge occurred during a period of no chlorination.

Number of Samples:	0	0	0	0	1	1
Avg Value:	-	-	-	-	0.5	0
Max Value:	-	-	-	-	0.5	0
Min Value:	-	-	-	-	0.5	0
Limits Exceeded:	-	-	-	-	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 01E - Low Volume Waste (Liquid Radwaste System Unit One)

Type of Sample: Grab
 Frequency of Analysis: 2/Mo

Code: (530) (556)

Parameter:	TSS	O & G	Nitrite (Chill Water) Releases to discharge point OSN 01			
	mg/1	mg/1	Initial Conc. (ppm)	Amount Drained (gallons)	Dilution Flow rate (gpm)	Final Conc. (ppb)
Limits:	Avg. 30 Max.100	Avg. 15 Max. 20				
Date:						
04-05-93	15	1.4	--	--	--	--
04-19-93	2	2.8	--	--	--	--
04-26-93	-	-	120	6829	12000	720
05-03-93	7	2.5	--	--	--	--
05-17-93	3	7.1	--	--	--	--
05-29-93	-	-	80	6110	16000	357
06-07-93	6	6.3	--	--	--	--
06-21-93	12	3.9	--	--	--	--

Number of Samples :	6	6	2	2	2	2
Average Value:	8	4	100	6470	14000	539
Maximum Value:	15	6.3	120	6829	16000	720
Minimum Value:	3	1.4	80	6110	12000	357
Limits Exceeded:	0	0	NA	NA	NA	NA

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 02E - Low Volume Waste (Liquid Radwaste System
 Unit Two)

Type of Sample: Grab
 Frequency of Analysis: 2/Mo

Code:	(530)	(556)				
Parameter:	TSS mg/l	O & G mg/l	Nitrite (Chill Water) Releases to discharge point OSN 02			
Limits:	Avg. 30 Max.100	Avg. 15 Max. 20	Initial Conc. (ppm)	Amount Drained (gallons)	Dilution Flow rate (gpm)	Final Conc. (ppb)
Date:						
04-05-93	5	0.0	--	--	--	--
04-07-93	-	--	320	5015	15000	1488
04-08-93	-	--	360	5182	10000	1984
04-10-93	-	--	480	4897	11000	2705
04-11-93	-	--	80	6591	8500	564
04-19-93	2	2.9	--	--	--	--
05-03-93	1	3.8	--	--	--	--
05-17-93	2	0.0	--	--	--	--
06-07-93	2	1.0	--	--	--	--
06-21-93	2	1.0	--	--	--	--

Number of						
Samples :	6	6	4	4	4	4
Average Value:	2.3	1.5	310	5414	11125	1685
Maximum Value:	5	3.8	480	6591	15000	2705
Minimum Value:	1	0.0	80	5015	8500	564
Limits Exceeded:	0	0	NA	NA	NA	NA

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Sewage Treatment Plant Sludge Disposal
 (lbs/day/month)

April	May	June
<u>Date</u> <u>lbs</u>	<u>Date</u> <u>lbs</u>	<u>Date</u> <u>lbs</u>
No sludge removed during the month of April	05/06 131 05/10 138 05/11 196 05/12 128 05/14 128 05/15 140 05/18 148 05/20 534 05/22 367 05/25 248 05/26 144 05/27 473 05/28 230	06/01 312 06/02 196 06/03 436 06/05 1347 06/06 442 06/07 242 06/08 246 06/09 237 06/10 163 06/11 86 06/12 220 06/13 209 06/15 378 06/16 201

This sludge was removed for disposal for incineration and burial as dry active waste.

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 01 - Combined Plant Waste Streams Unit One

Frequency of Analysis:	1/WK			
Type of Samples:	In Situ	Grab	Grab	Grab
Parameter:	Temperature	T.R.C.	F.A.C.	pH
Limits:	Deg. F	N/A	N/A	Min. 6.0 Max. 9.0

Code:	(11)	(50060)	(50064)	(400)
-------	------	---------	---------	-------

Date:

04-05-93	66	<.1	<.1	6.8
04-12-93	62	<.1	<.1	6.7
04-19-93	66	<.1	<.1	7.0
04-26-93	71	<.1	<.1	7.4
05-03-93	73	<.1	<.1	7.5
05-10-93	75	<.1	<.1	7.2
05-17-93	82	<.1	<.1	7.4
05-24-93	82	<.1	<.1	8.1
05-31-93	87	<.1	<.1	8.2
06-07-93	88	<.1	<.1	7.3
06-14-93	84	<.1	<.1	8.0
06-21-93	86	0	0	8.1
06-28-93	86	<.1	<.1	7.6

Number of Samples:	13	13	13	13
Average Value:	78	<.1	<.1	7.5
Maximum Value:	88	<.1	<.1	8.2
Minimum Value:	62	0	0	6.7
Limits Exceeded:	0	0	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 04-01-93
 To: 06-30-93

Permit Number: GA0004120

Discharge Location: 02 - Combined Plant Waste Streams Unit Two

Frequency of Analysis:	1/Wk	Grab	Grab	Grab
Type of Samples:	In Situ	T.R.C.	F.A.C.	pH
Parameter:	Temperature	N/A	N/A	Min. 6.0
Limits:	Deg. F	N/A	N/A	Max. 9.0

Code:	(11)	(50060)	(50064)	(400)
-------	------	---------	---------	-------

Date:

04-05-93	66	<.1	<.1	6.8
04-12-93	64	<.1	<.1	6.8
04-19-93	69	<.1	<.1	7.5
04-26-93	68	<.1	<.1	7.4
05-03-93	75	<.1	<.1	7.7
05-10-93	77	<.1	<.1	7.4
05-17-93	82	<.1	<.1	7.6
05-24-93	78	<.1	<.1	8.2
05-31-93	82	<.1	<.1	7.6
06-07-93	91	<.1	<.1	7.6
06-14-93	86	<.1	<.1	8.1
06-21-93	86	0	0	8.0
06-28-93	87	<.1	<.1	7.6

Number of Samples:	13	13	13	13
Average Value:	78	<.1	<.1	7.6
Maximum Value:	91	<.1	<.1	8.2
Minimum Value:	64	0	0	6.8
Limits Exceeded:	0	0	0	0

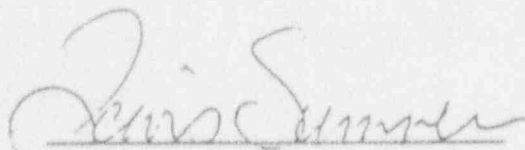
NPDES: OPERATION MONITORING REPORT

Georgia Power Company
Plant E.I. Hatch
P.O. Box 4545
Atlanta, Georgia 30302

From: 04-01-93
To: 06-30-93

Permit Number: GA0004120

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.



H. L. Sumner, Jr.
General Manager
Nuclear Plant

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 01G - Low Volume Waste (Neutralization Tank)

Type of Sample:	Grab	Grab
Frequency of Analysis:	2/Month	2/Month
PCS Code:	(530)	(556)
Parameter:	Suspended Solids mg/l (TSS)	Oil & Grease mg/l (O&G)
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20
	TSS	O&G
<u>Date:</u>	<u>MG/L</u>	<u>MG/L</u>
07-08-93	12.5	4.0
07-20-93	5.0	0.0
08-02-93	3.4	2.5
08-22-93	22.0	0.0
09-06-93	1.6	0.6
09-24-93	8.0	0.0

Month of July

No. of Samples:	2	2
Average Value:	8.8	2.0
Max. Value:	12.5	4.0
Min. Value:	5.0	0.0
Limits Exceeded:	0	0

Month of August

No. of Samples:	2	2
Average Value:	13.7	1.3
Max. Value:	22.0	2.5
Min. Value:	3.4	0.0
Limits Exceeded:	0	0

Month of September

No. of Samples:	2	2
Average Value:	4.8	0.3
Max. Value:	8.0	0.6
Min. Value:	1.6	0.0
Limits Exceeded:	0	0

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 01H - Low Volume Waste (Pressure Filters Backwash)

Type of Sample:	Grab	Grab
Frequency of Analysis:	1/Quarter	1/Quarter
PCS Code:	(530)	(556)
Parameter:	Suspended Solids mg/l (TSS)	Oil & Grease mg/l (O&G)
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

<u>Date:</u>	<u>TSS</u> <u>MG/L</u>	<u>O&G</u> <u>MG/L</u>
08-17-93 (A)	<1	<5
08-17-93 (B)	<1	<5
08-17-93 (C)	<1	<5
08-17-93 (D)	<1	<5

Month of July:

No. of Samples:	0	0
Average Value:	---	---
Max. Value:	---	---
Min. Value:	---	---
Limits Exceeded:	---	---

Month of August:

No. of Samples:	4	2
Average Value:	<1	< 5
Max. Value:	<1	< 5
Min. Value:	<1	< 5
Limits Exceeded:	0	0

Month of September:

No. of Samples:	0	0
Average Value:	---	---
Max. Value:	---	---
Min. Value:	---	---
Limits Exceeded:	---	---

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box #545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 01A - Unit One Cooling Tower Blowdown

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	Grab	Grab	Grab		
Parameter:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
	Fac	Fac max.	Total Time TRC	Zinc	Chromium
			rel & avg.	max.	max.
Limits:	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
PCS Code:	50064	50064	81400 50060	1092	1034
<u>Date:</u>					
07-02-93	0	0	0 0	--	--
07-06-93	0	0	0 0	.04	0.0
07-14-93	0	0	0 0	--	--
07-21-93	0	0	0 0	--	--
07-28-93	0	0	0 0	--	--
08-04-93	0	0	0 0	--	--
08-11-93	0	0	0 0	--	--
08-18-93	0	0	0 0	--	--
08-25-93	0	0	0 0	--	--
09-01-93	0	0	0 0	--	--
09-08-93	0	0	0 0	--	--
09-15-93	0	0	0 0	--	--
09-22-93	0	0	0 0	--	--
09-29-93	0	0	0 0	--	--
<u>Month of July:</u>					
No. of Samples:	5	5	5 5	1	1
Avg. Value:	0	0	0 0	.04	0.0
Max. Value:	0	0	0 0	.04	0.0
Min. Value:	0	0	0 0	.04	0.0
Limits Exceeded:	0	0	0 0	0	0
<u>Month of August:</u>					
No. of Samples:	4	4	4 4	0	0
Avg. Value:	0	0	0 0	----	----
Max. Value:	0	0	0 0	----	----
Min. Value:	0	0	0 0	----	----
Limits Exceeded:	0	0	0 0	----	----
<u>Month of September:</u>					
No. of Samples:	5	5	5 5	0	0
Avg. Value:	0	0	0 0	----	----
Max. Value:	0	0	0 0	----	----
Min. Value:	0	0	0 0	----	----
Limits Exceeded:	0	0	0 0	----	----

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 02A - Unit Two Cooling Tower Blowdown

Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:	1/Week Fac	1/Week Fac max.	1/Week Total Time TRC rel & avg.	1/Quarter Zinc max.	1/Quarter Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
PCS Code:	50064	50064	81400 50060	1092	1034
<u>Date:</u>					
07-02-93	0	0	0 0	---	---
07-06-93	0	0	0 0	0.4	.02
07-14-93	0	0	0 0	---	---
07-21-93	0	0	0 0	---	---
07-28-93	0	0	0 0	---	---
08-04-93	0	0	0 0	---	---
08-11-93	0	0	0 0	---	---
08-18-93	0	0	0 0	---	---
08-25-93	0	0	0 0	---	---
09-01-93	0	0	0 0	--	--
09-08-93	0	0	0 0	--	--
09-15-93	0	0	0 0	--	--
09-22-93	0	0	0 0	--	--
09-29-93	0	0	0 0	--	--
<u>Month of July:</u>					
No. of Samples:	5	5	5 5	1	1
Avg. Value:	0	0	0 0	0.4	.02
Max. Value:	0	0	0 0	0.4	.02
Min. Value:	0	0	0 0	0.4	.02
Limits Exceeded:	0	0	0 0	0	0
<u>Month of August:</u>					
No. of Samples:	4	4	4 4	0	0
Avg. Value:	0	0	0 0	---	---
Max. Value:	0	0	0 0	---	---
Min. Value:	0	0	0 0	---	---
Limits Exceeded:	0	0	0 0	---	---
<u>Month of September:</u>					
No. of Samples:	5	5	5 5	0	0
Avg. Value:	0	0	0 0	---	---
Max. Value:	0	0	0 0	---	---
Min. Value:	0	0	0 0	---	---
Limits Exceeded:	0	0	0 0	---	---

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 01B - Unit One Cooling Water Overflow

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl Grab	Mltpl Grab	Mltpl Grab	Grab	Grab
Frequency:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
Parameter:	Fac	Fac max.	Total Time TRC rel & avg.	Zinc max.	Chromium max.
Limits:	(mg/l) 0.2	(mg/l) 0.5	(min)(mg/l) 120 N/A	(mg/l) 1.0	(mg/l) 0.2
PCS Code:	50064	50064	81400 50060	1092	1034
Date:					

Cooling water did not overflow during this reporting period.

Month of July:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

Month of August:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

Month of September:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 01I - Unit One Cooling Tower Basin Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
Parameter:	Fac	Fac max.	Total Time TRC rel & avg.	Zinc max.	Chromium max.
Limits:	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
	0.2	0.5	120 N/A	1.0	0.2
PCS Code:	50064	50064	81400 50060	1092	1034
<u>Date:</u>					

Basins were not drained during this reporting period.

Month of July:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

Month of August:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

Month of September:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 01J - Unit One Cooling Tower Basin Overflows
 to Storm Drains

Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:	1/Week Fac	1/Week Fac max.	1/Week Total Time TRC rel & avg.	1/Quarter Zinc max.	1/Quarter Chromium max.
Limits:	(mg/l) 0.2	(mg/l) 0.5	(min) (mg/l) 120 N/A	(mg/l) 1.0	(mg/l) 0.2
PCS Code:	50064	50064	81400 50060	1092	1034
Date:					

Basins did not overflow during this reporting period.

Month of July:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

Month of August:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

Month of September:

No. of Samples:
 Avg. Value:
 Max. Value:
 Min. Value:
 Limits Exceeded:

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 02B - Unit Two Cooling Water Overflow To Storm Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
Parameter:	Fac	Fac max.	Total Time TRC rel & avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
PCS Code:	50064	50064	81400 50060	1092	1034
<u>Date:</u>					
07-01-93	-	-	- -	0.39	0.0
08-26-93	-	-	- -	0.50	0.0

Month of July:

No. of Samples:	0	0	0	0	1	1
Avg. Value:	---	---	---	---	0.39	0.0
Max. Value:	---	---	---	---	0.39	0.0
Min. Value:	---	---	---	---	0.39	0.0
Limits Exceeded:---	---	---	---	---	0	0

Month of August:

No. of Samples:	0	0	0	0	1	1
Avg. Value:	---	---	---	---	0.50	0.0
Max. Value:	---	---	---	---	0.50	0.0
Min. Value:	---	---	---	---	0.50	0.0
Limits Exceeded:---	---	---	---	---	0	0

Month of September:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	---	---	---	---	---	---
Max. Value:	---	---	---	---	---	---
Min. Value:	---	---	---	---	---	---
Limits Exceeded:---	---	---	---	---	---	---

Discharges occurred during periods of no chlorination.

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 02C - Unit Two Cooling Water Overflow

Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Tower Basin Grab	Tower Basin Grab
Frequency:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
Parameter:	Fac	Fac max.	Total Time TRC rel & avg.	Zinc max.	Chromium max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
PCS Code:	50064	50064	81400 50060	1092	1034
<u>Date:</u>					
07-21-93	--	--	-- --	0.27	0.0

Month of July:

No. of Samples:	0	0	0	0	1	1
Avg. Value:	---	---	---	---	0.27	0.0
Max. Value:	---	---	---	---	0.27	0.0
Min. Value:	---	---	---	---	0.27	0.0
Limits Exceeded:	---	---	---	---	0	0

Month of August:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	---	---	---	---	---	---
Max. Value:	---	---	---	---	---	---
Min. Value:	---	---	---	---	---	---
Limits Exceeded:	---	---	---	---	---	---

Month of September:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	---	---	---	---	---	---
Max. Value:	---	---	---	---	---	---
Min. Value:	---	---	---	---	---	---
Limits Exceeded:	---	---	---	---	---	---

Discharge occurred during period of no chlorination.

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 01E - Low Volume Waste (Liquid Radwaste System Unit One)

Type of Sample: Grab
 Frequency of Analysis: 2/Month
 PCS Code: (530) (556)

Parameter:	TSS	O & G	Nitrite (Chill Water) Releases to discharge point OSN 01			
	mg/l	mg/l	Initial Conc. (ppm)	Amount Drained (gallons)	Dilution Flow rate (gpm)	Final Conc. (ppb)
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20				

Date:

07-06-93	8	2.4	--	--	--	--
07-19-93	.2	0.5	--	--	--	--
08-02-93	2	2.9	--	--	--	--
08-16-93	28	2.5	--	--	--	--
09-06-93	11	0.3	--	--	--	--
09-20-93	7	1.3	--	--	--	--

Month of July:

No. of Samples	2	2	0	0	0	0
Average Value:	4.1	1.5	----	----	----	----
Max. Value	8.0	2.4	----	----	----	----
Min. Value	0.2	0.5	----	----	----	----
Limits Exceeded:	0	0	----	----	----	----

Month of August:

No. of Samples	2	2	0	0	0	0
Average Value:	15	2.7	----	----	----	----
Max. Value	28	2.9	----	----	----	----
Min. Value	2	2.5	----	----	----	----
Limits Exceeded:	0	0	----	----	----	----

Month of September:

No. of Samples	2	2	0	0	0	0
Average Value:	9	0.8	----	----	----	----
Max. Value	11	1.3	----	----	----	----
Min. Value	7	0.3	----	----	----	----
Limits Exceeded:	0	0	----	----	----	----

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 02E - Low Volume Waste (Liquid Radwaste System Unit Two)

Type of Sample: Grab
 Frequency of Analysis: 2/Month
 PCS Code: (530) (556)

Parameter:	TSS	O & G	Nitrite (Chill Water) Releases to discharge point OSN 02			
	mg/1	mg/1	Initial Conc. (ppm)	Amount Drained (gallons)	Dilution Flow rate (gpm)	Final Conc. (ppb)
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20				

Date:

07-05-93	1.2	2.4	--	--	--	--
07-20-93	1	0.5	--	--	--	--
08-02-93	1	0.0	--	--	--	--
08-16-93	0.8	0.0	--	--	--	--
09-06-93	4.2	0.0	--	--	--	--
09-20-93	0.5	1.0	--	--	--	--

Month of July:

No. of Samples	2	2	0	0	0	0
Average Value:	1.1	2.3	---	---	---	---
Max. Value	1.2	4.0	---	---	---	---
Min. Value	1.0	0.5	---	---	---	---
Limits Exceeded:	0	0	---	---	---	---

Month of August:

No. of Samples	2	2	0	0	0	0
Average Value:	0.9	1.3	---	---	---	---
Max. Value	1.0	2.5	---	---	---	---
Min. Value	0.8	0.0	---	---	---	---
Limits Exceeded:	0	0	---	---	---	---

Month of September:

No. of Samples	2	2	0	0	0	0
Average Value:	1	0.5	---	---	---	---
Max. Value	1.6	1.0	---	---	---	---
Min. Value	0.5	0.0	---	---	---	---
Limits Exceeded:	0	0	---	---	---	---

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
Plant E.I. Hatch
P.O. Box 4545
Atlanta, Georgia 30302

From: 07-01-93
To: 09-30-93

Permit Number: GA0004120

Sewage Treatment Plant Sludge Disposal
(lbs/day/month)

July	August	September
Date	Date	Date
lbs	lbs	lbs
No sludge removed during the month of July	No sludge removed during the month of August	09/21 288 09/22 216

This sludge was removed for disposal as dry active waste.

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 01 - Combined Plant Waste Streams Unit One

Frequency of Analysis:	1/Week			
Type of Samples:	In Situ	Grab	Grab	Grab
Parameter:	Temperature	T.R.C.	F.A.C.	pH
Limits:	Degree F	N/A	N/A	Min. 6.0 Max. 9.0
PCS Code:	(11)	(50060)	(50064)	(400)

<u>Date:</u>				
07-05-93	91	<.1	<.1	7.5
07-12-93	89	<.1	<.1	8.2
07-19-93	89	<.1	<.1	8.4
07-26-93	89	<.1	<.1	8.3
08-02-93	89	<.1	<.1	6.7
08-09-93	89	<.1	<.1	7.4
08-16-93	87	<.1	<.1	7.3
08-23-93	95	<.1	<.1	7.6
08-30-93	89	<.1	<.1	8.2
09-06-93	89	<.1	<.1	7.2
09-13-93	69	<.1	<.1	8.4
09-20-93	85	<.1	<.1	8.2
09-27-93	89	<.1	<.1	8.4

<u>Month of July:</u>				
No. of Samples	4	4	4	4
Average Value:	90	<.1	<.1	8.2
Max. Value	91	<.1	<.1	8.4
Min. Value	89	<.1	<.1	7.5
Limits Exceeded:	0	0	0	0

<u>Month of August:</u>				
No. of Samples	5	5	5	5
Average Value:	90	<.1	<.1	7.5
Max. Value	95	<.1	<.1	8.2
Min. Value	87	<.1	<.1	6.7
Limits Exceeded:	0	0	0	0

<u>Month of September:</u>				
No. of Samples	4	4	4	4
Average Value:	83	<.1	<.1	8.1
Max. Value	89	<.1	<.1	8.4
Min. Value	69	<.1	<.1	7.2
Limits Exceeded:	0	0	0	0

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 07-01-93
 To: 09-30-93

Permit Number: GA0004120

Discharge Location: 02 - Combined Plant Waste Streams Unit Two

Frequency of Analysis:	1/Week			
Type of Samples:	In Situ	Grab	Grab	Grab
Parameter:	Temperature	T.R.C.	F.A.C.	pH
Limits:	Degree F	N/A	N/A	Min. 6.0 Max. 9.0
Code:	(11)	(50060)	(50064)	(400)

Date:

07-05-93	93	<.1	<.1	7.7
07-12-93	87	<.1	<.1	7.9
07-19-93	87	<.1	<.1	8.3
07-26-93	91	<.1	<.1	8.2
08-03-93	87	<.1	<.1	8.3
08-10-93	84	<.1	<.1	8.4
08-17-93	87	<.1	<.1	7.5
08-24-93	93	<.1	<.1	8.3
08-31-93	89	<.1	<.1	7.7
09-06-93	87	<.1	<.1	7.7
09-13-93	82	<.1	<.1	8.3
09-20-93	89	<.1	<.1	8.3
09-27-93	86	<.1	<.1	8.5

Month of July:

No. of Samples	4	4	4	4
Average Value:	90	<.1	<.1	8.0
Max. Value	93	<.1	<.1	8.3
Min. Value	87	<.1	<.1	7.7
Limits Exceeded:	0	0	0	0

Month of August:

No. of Samples	5	5	5	5
Average Value:	88	<.1	<.1	8.0
Max. Value	93	<.1	<.1	8.4
Min. Value	84	<.1	<.1	7.5
Limits Exceeded:	0	0	0	0

Month of September:

No. of Samples	4	4	4	4
Average Value:	86	<.1	<.1	8.2
Max. Value	89	<.1	<.1	8.5
Min. Value	82	<.1	<.1	7.7
Limits Exceeded:	0	0	0	0

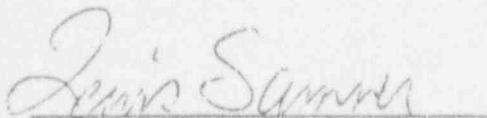
QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
Plant E.I. Hatch
P.O. Box 4545
Atlanta, Georgia 30302

From: 07-01-93
To: 09-30-93

Permit Number: GA0004120

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.



H. L. Sumner, Jr.
General Manager
Nuclear Plant

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 01G - Low Volume Waste (Neutralization Tank)

Type of Sample:	Grab	Grab
Frequency of Analysis:	2/Month	2/Month
PCS Code:	(530)	(556)
Parameter:	Suspended Solids mg/l (TSS)	Oil & Grease mg/l (O&G)
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

<u>Date:</u>	<u>TSS</u> <u>MG/L</u>	<u>O&G</u> <u>MG/L</u>
10-05-93	8.1	1.0
10-19-93	33.5	3.3
11-01-93	0.6	0.4
11-2-93	8.8	1.8
12-06-93	1.5	0.0
12-20-93	6.0	2.9

Month of October

No. of Samples:	2	2
Average Value:	20.9	2.2
Max. Value:	33.5	3.3
Min. Value:	8.3	1.0
Limits Exceeded:	0	0

Month of November

No. of Samples:	2	2
Average Value:	4.7	1.1
Max. Value:	8.8	1.8
Min. Value:	0.6	0.4
Limits Exceeded:	0	0

Month of December

No. of Samples:	2	2
Average Value:	3.8	1.5
Max. Value:	6.0	2.9
Min. Value:	1.5	0.0
Limits Exceeded:	0	0

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E. I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 01H - Low Volume Waste (Pressure Filters Backwash)

Type of Sample:	Grab	Grab
Frequency of Analysis:	1/Quarter	1/Quarter
PCS Code:	(530)	(556)
Parameter:	Suspended Solids mg/l (TSS)	Oil & Grease mg/l (O&G)
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

<u>Date:</u>	<u>TSS</u> <u>MG/L</u>	<u>O&G</u> <u>MG/L</u>
11-08-93 (A)	<1	<5
11-08-93 (B)	2	<5
11-08-93 (C)	<1	<5
11-08-93 (D)	<1	<5

Month of October:

No. of Samples:	0	0
Average Value:	---	---
Max. Value:	---	---
Min. Value:	---	---
Limits Exceeded:	---	---

Month of November:

No. of Samples:	4	4
Average Value:	<1	< 5
Max. Value:	2	< 5
Min. Value:	<1	< 5
Limits Exceeded:	0	0

Month of December:

No. of Samples:	0	0
Average Value:	---	---
Max. Value:	---	---
Min. Value:	---	---
Limits Exceeded:	---	---

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 01A - Unit One Cooling Tower Blowdown

Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:	1/Week Fac	1/Week Fac max.	1/Week Total Time TRC rel & avg.	1/Week Total Time TRC rel & avg.	1/Quarter Zinc max.	1/Quarter Chromium max.
Limits:	(mg/l) 0.2	(mg/l) 0.5	(min) (mg/l) 120	(mg/l) N/A	(mg/l) 1.0	(mg/l) 0.2
PCS Code:	50064	50064	81400	50060	1092	1034
<u>Date:</u>						
10-04-93	--	--	--	--	0.3	0.0
10-07-93	0	0	0	0	--	--
10-14-93	0	0	0	0	--	--
10-20-93	0	0	0	0	--	--
10-28-93	0	0	0	0	--	--
11-03-93	0	0	0	0	--	--
11-10-93	0	0	0	0	--	--
11-17-93	0	0	0	0	--	--
11-24-93	0	0	0	0	--	--
12-01-93	0	0	0	0	--	--
12-08-93	0	0	0	0	--	--
12-15-93	0	0	0	0	--	--
12-22-93	0	0	0	0	--	--
12-29-93	0	0	0	0	--	--
<u>Month of October:</u>						
No. of Samples:	4	4	4	4	1	1
Avg. Value:	0	0	0	0	0.3	0.0
Max. Value:	0	0	0	0	0.3	0.0
Min. Value:	0	0	0	0	0.3	0.0
Limits Exceeded:	0	0	0	0	0	0
<u>Month of November:</u>						
No. of Samples:	4	4	4	4	0	0
Avg. Value:	0	0	0	0	---	---
Max. Value:	0	0	0	0	---	---
Min. Value:	0	0	0	0	---	---
Limits Exceeded:	0	0	0	0	---	---
<u>Month of December:</u>						
No. of Samples:	5	5	5	5	0	0
Avg. Value:	0	0	0	0	---	---
Max. Value:	0	0	0	0	---	---
Min. Value:	0	0	0	0	---	---
Limits Exceeded:	0	0	0	0	---	---

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 02A - Unit Two Cooling Tower Blowdown

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	Grab	Grab	Grab		
Parameter:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
	Fac	Fac max.	Total Time TRC	Zinc	Chromium
	(mg/l)	(mg/l)	rel & avg.	max.	max.
Limits:	0.2	0.5	120 N/A	1.0	0.2
PCS Code:	50064	50064	81400 50060	1092	1034
<u>Date:</u>					
10-04-93	--	--	--	.05	0.0
10-07-93	0	0	0	---	---
10-14-93	0	0	0	---	---
10-20-93	0	0	0	---	---
10-28-93	0	0	0	---	---
11-03-93	0	0	0	---	---
11-10-93	0	0	0	---	---
11-17-93	0	0	0	---	---
11-24-93	0	0	0	---	---
12-01-93	0	0	0	--	--
12-08-93	0	0	0	--	--
12-15-93	0	0	0	--	--
12-22-93	0	0	0	--	--
12-29-93	0	0	0	--	--
<u>Month of October:</u>					
No. of Samples:	4	4	4	1	1
Avg. Value:	0	0	0	.05	0.0
Max. Value:	0	0	0	.05	0.0
Min. Value:	0	0	0	.05	0.0
Limits Exceeded:	0	0	0	0	0
<u>Month of November:</u>					
No. of Samples:	4	4	4	0	0
Avg. Value:	0	0	0	---	---
Max. Value:	0	0	0	---	---
Min. Value:	0	0	0	---	---
Limits Exceeded:	0	0	0	---	---
<u>Month of December:</u>					
No. of Samples:	5	5	5	0	0
Avg. Value:	0	0	0	---	---
Max. Value:	0	0	0	---	---
Min. Value:	0	0	0	---	---
Limits Exceeded:	0	0	0	---	---

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 01B - Unit One Cooling Water Overflow

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	Grab	Grab	Grab		
Parameter:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
	Fac	Fac max.	Total Time TRC	Zinc	Chromium
			rel & avg.	max.	max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
PCS Code:	50064	50064	81400 50060	1092	1034
<u>Date:</u>					
10-13-93	--	--	-- --	.20	0.0

Overflow did not occur during period of chlorination.

Month of October:

No. of Samples:	0	0	0	1	1
Avg. Value:	--	--	--	.20	0.0
Max. Value:	--	--	--	.20	0.0
Min. Value:	--	--	--	.20	0.0
Limits Exceeded:--	--	--	--	0	0

Month of November:

No. of Samples:	0	0	0	0	0
Avg. Value:	--	--	--	--	--
Max. Value:	--	--	--	--	--
Min. Value:	--	--	--	--	--
Limits Exceeded:--	--	--	--	--	--

Month of December:

No. of Samples:	0	0	0	0	0
Avg. Value:	--	--	--	--	--
Max. Value:	--	--	--	--	--
Min. Value:	--	--	--	--	--
Limits Exceeded:--	--	--	--	--	--

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 01I - Unit One Cooling Tower Basin Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	Grab	Grab	Grab		
Parameter:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
	Fac	Fac max.	Total Time TRC	Zinc	Chromium
			rel & avg.	max.	max.
Limits:	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
PCS Code:	0.2	0.5	120 N/A	1.0	0.2
Date:	50064	50064	81400 50060	1092	1034

Basins were not drained during this reporting period.

Month of October:

No. of Samples:	0	0	0	0	0
Avg. Value:	--	--	--	--	--
Max. Value:	--	--	--	--	--
Min. Value:	--	--	--	--	--
Limits Exceeded:	--	--	--	--	--

Month of November:

No. of Samples:	0	0	0	0	0
Avg. Value:	--	--	--	--	--
Max. Value:	--	--	--	--	--
Min. Value:	--	--	--	--	--
Limits Exceeded:	--	--	--	--	--

Month of December:

No. of Samples:	0	0	0	0	0
Avg. Value:	--	--	--	--	--
Max. Value:	--	--	--	--	--
Min. Value:	--	--	--	--	--
Limits Exceeded:	--	--	--	--	--

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 01J - Unit One Cooling Tower Basin Overflows
 to Storm Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	Grab	Grab	Grab		
Parameter:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
	Fac	Fac max.	Total Time TRC	Zinc	Chromium
			rel & avg.	max.	max.
	(mg/l)	(mg/l)	(min) (mg/l)	(mg/l)	(mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
PCS Code:	50064	50064	81400 50060	1092	1034
<u>Date:</u>					
10-13-93	--	--	-- --	.15	0.0

Chlorination did not occur during period of overflow.

Month of October:

No. of Samples:	0	0	0	0	1	1
Avg. Value:	--	--	--	--	.15	0.0
Max. Value:	--	--	--	--	.15	0.0
Min. Value:	--	--	--	--	.15	0.0
Limits Exceeded:	--	--	--	--	0	0

Month of November:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	--	--	--	--	--	--
Max. Value:	--	--	--	--	--	--
Min. Value:	--	--	--	--	--	--
Limits Exceeded:	--	--	--	--	--	--

Month of December:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	--	--	--	--	--	--
Max. Value:	--	--	--	--	--	--
Min. Value:	--	--	--	--	--	--
Limits Exceeded:	--	--	--	--	--	--

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 02B - Unit Two Cooling Water Overflow To Storm Drains

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
Parameter:	Fac	Fac max.	Total Time TRC	Zinc	Chromium
	(mg/l)	(mg/l)	rel & avg.	max.	max.
Limits:	0.2	0.5	120 N/A	1.0	0.2
PCS Code:	50064	50064	81400 50060	1092	1034
Date:					
10-14-93	-	-	- -	0.07	0.0

Month of October:

No. of Samples:	0	0	0	0	1	1
Avg. Value:	---	---	---	---	0.07	0.0
Max. Value:	---	---	---	---	0.07	0.0
Min. Value:	---	---	---	---	0.07	0.0
Limits Exceeded:	---	---	---	---	0	0

Month of November:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	---	---	---	---	--	--
Max. Value:	---	---	---	---	--	--
Min. Value:	---	---	---	---	--	--
Limits Exceeded:	---	---	---	---	--	--

Month of December:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	---	---	---	---	---	---
Max. Value:	---	---	---	---	---	---
Min. Value:	---	---	---	---	---	---
Limits Exceeded:	---	---	---	---	---	---

Discharge occurred during periods of no chlorination.

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 02C - Unit Two Cooling Water Overflow

Location:	Blowdown	Blowdown	Blowdown	Tower Basin	Tower Basin
Type:	Mltpl	Mltpl	Mltpl	Grab	Grab
Frequency:	Grab	Grab	Grab		
Parameter:	1/Week	1/Week	1/Week	1/Quarter	1/Quarter
	Fac	Fac max.	Total Time TRC	Zinc	Chromium
	(mg/l)	(mg/l)	rel & avg.	max.	max.
Limits:	0.2	0.5	(min) (mg/l)	(mg/l)	(mg/l)
PCS Code:	50064	50064	81400 50060	1092	1034
Date:					
10-14-93	--	--	-- --	0.05	.01

Month of October:

No. of Samples:	0	0	0	0	1	1
Avg. Value:	---	---	---	---	0.05	.01
Max. Value:	---	---	---	---	0.05	.01
Min. Value:	---	---	---	---	0.05	.01
Limits Exceeded:	---	---	---	---	0	0

Month of November:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	---	---	---	---	---	---
Max. Value:	---	---	---	---	---	---
Min. Value:	---	---	---	---	---	---
Limits Exceeded:	---	---	---	---	---	---

Month of December:

No. of Samples:	0	0	0	0	0	0
Avg. Value:	---	---	---	---	---	---
Max. Value:	---	---	---	---	---	---
Min. Value:	---	---	---	---	---	---
Limits Exceeded:	---	---	---	---	---	---

Discharge occurred during period of no chlorination.

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 01E - Low Volume Waste (Liquid Radwaste System Unit One)

Type of Sample: Grab
 Frequency of Analysis: 2/Month
 PCS Code: (530) (556)

Parameter:	TSS	O & G	Nitrite (Chill Water) Releases to discharge point OSN 01			
	mg/1	mg/1	Initial Conc.	Amount Drained (gallons)	Dilution Flow rate (gpm)	Final Conc. (ppb)
Limits:	Avg. 30	Avg. 15				
	Max. 100	Max. 20	(ppm)	(gallons)	(gpm)	(ppb)

Date:

10-04-93	12	1.9	--	--	--	--
10-09-93	--	--	80	6140	17000	31
10-10-93	--	--	80	6890	17500	32
10-12-93	--	--	80	6640	16000	33
10-12-93	--	--	80	6890	14000	38
10-13-93	--	--	80	6540	23000	25
10-19-93	5	3.8	--	--	--	--
11-01-93	3	1.5	--	--	--	--
11-15-93	6	0.9	--	--	--	--
12-07-93	1	3.8	--	--	--	--
12-26-93	19	1.6	--	--	--	--

Month of October:

No. of Samples	2	2	5	5	5	5
Average Value:	8.5	2.9	80	6620	17500	32
Max. Value	12	3.8	80	6890	23000	38
Min. Value	5	1.9	80	6140	14000	25
Limits Exceeded:	0	0	0	0	0	0

Month of November:

No. of Samples	2	2	0	0	0	0
Average Value:	5	1.2	---	---	---	---
Max. Value	6	1.5	---	---	---	---
Min. Value	3	0.9	---	---	---	---
Limits Exceeded:	0	0	---	---	---	---

Month of December:

No. of Samples	2	2	0	0	0	0
Average Value:	10	2.7	---	---	---	---
Max. Value	19	3.8	---	---	---	---
Min. Value	1	1.6	---	---	---	---
Limits Exceeded:	0	0	---	---	---	---

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 02E - Low Volume Waste (Liquid Radwaste System Unit Two)

Type of Sample: Grab
 Frequency of Analysis: 2/Month
 PCS Code: (530) (556)

Parameter:	TSS	O & G	Nitrite (Chill Water) Releases to discharge point OSN 02			
	mg/1	mg/1	Initial Conc. (ppm)	Amount Drained (gallons)	Dilution Flow rate (gpm)	Final Conc. (ppb)
Limits:	Avg. 30	Avg. 15				
	Max. 100	Max. 20				

Date:

10-04-93	0.3	0.5	--	--	--	--
10-18-93	0.7	1.0	--	--	--	--
11-01-93	1	1.0	--	--	--	--
11-15-93	1.3	2.0	--	--	--	--
12-06-93	0.8	0.8	--	--	--	--
12-20-93	4.5	1.6	--	--	--	--

Month of October:

No. of Samples	2	2	0	0	0	0
Average Value:	0.5	0.8	---	---	---	---
Max. Value	0.7	1.0	---	---	---	---
Min. Value	0.3	0.5	---	---	---	---
Limits Exceeded:	0	0	---	---	---	---

Month of November:

No. of Samples	2	2	0	0	0	0
Average Value:	1.2	1.5	---	---	---	---
Max. Value	1.3	2.0	---	---	---	---
Min. Value	1.0	1.0	---	---	---	---
Limits Exceeded:	0	0	---	---	---	---

Month of December:

No. of Samples	2	2	0	0	0	0
Average Value:	2.7	1.2	---	---	---	---
Max. Value	4.5	1.6	---	---	---	---
Min. Value	0.8	0.8	---	---	---	---
Limits Exceeded:	0	0	---	---	---	---

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E. I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Sewage Treatment Plant Sludge Disposal
 (lbs/day/month)

October	November	December
Date lbs	Date lbs	Date lbs
No sludge removed during the month of October	No sludge removed during the month of November	12/20 2893 12/21 6300 12/22 2893 12/23 11576 12/27 7235 12/29 13161 12/30 2481 Total 48921

This sludge was removed for disposal as dry active waste.

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 01 - Combined Plant Waste Streams Unit One

Frequency of Analysis:	1/Week			
Type of Samples:	In Situ	Grab	Grab	Grab
Parameter:	Temperature	T.R.C.	F.A.C.	pH
Limits:	Degree F	N/A	N/A	Min. 6.0 Max. 9.0
PCS Code:	(11)	(50060)	(50064)	(400)

<u>Date:</u>				
10-04-93	82	<.1	<.1	8.3
10-11-93	80	<.1	<.1	8.3
10-18-93	80	<.1	<.1	8.3
10-25-93	66	<.1	<.1	7.9
11-01-93	68	<.1	<.1	8.2
11-08-93	71	<.1	<.1	7.1
11-15-93	69	<.1	<.1	7.4
11-22-93	73	<.1	<.1	8.1
11-29-93	69	<.1	<.1	8.2
12-06-93	75	<.1	<.1	8.0
12-13-93	66	<.1	<.1	7.9
12-20-93	66	<.1	<.1	7.7
12-27-93	53	<.1	<.1	7.8

Month of October:

No. of Samples	4	4	4	4
Average Value:	77	<.1	<.1	8.2
Max. Value	82	<.1	<.1	8.3
Min. Value	66	<.1	<.1	7.9
Limits Exceeded:	0	0	0	0

Month of November:

No. of Samples	5	5	5	5
Average Value:	70	<.1	<.1	7.8
Max. Value	73	<.1	<.1	8.2
Min. Value	68	<.1	<.1	7.1
Limits Exceeded:	0	0	0	0

Month of December:

No. of Samples	4	4	4	4
Average Value:	65	<.1	<.1	7.8
Max. Value	75	<.1	<.1	8.0
Min. Value	53	<.1	<.1	7.8
Limits Exceeded:	0	0	0	0

QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4545
 Atlanta, Georgia 30302

From: 10-01-93
 To: 12-31-93

Permit Number: GA0004120

Discharge Location: 02 - Combined Plant Waste Streams Unit Two

Frequency of Analysis: 1/Week

Type of Samples:	In Situ	Grab	Grab	Grab
Parameter:	Temperature	T.R.C.	F.A.C.	pH
Limits:	Degree F	N/A	N/A	Min. 6.0 Max. 9.0
Code:	(11)	(50060)	(50064)	(400)

Date:

10-04-93	80	<.1	<.1	8.2
10-11-93	82	<.1	<.1	7.7
10-18-93	82	<.1	<.1	7.8
10-29-93	72	<.1	<.1	8.4
11-01-93	69	<.1	<.1	8.4
11-08-93	55	<.1	<.1	7.2
11-15-93	69	<.1	<.1	7.6
11-22-93	71	<.1	<.1	8.2
11-29-93	60	<.1	<.1	8.1
12-06-93	69	<.1	<.1	7.7
12-13-93	66	<.1	<.1	8.0
12-20-93	68	<.1	<.1	8.0
12-27-93	66	<.1	<.1	7.9

Month of October:

No. of Samples	4	4	4	4
Average Value:	79	<.1	<.1	8.0
Max. Value	82	<.1	<.1	8.4
Min. Value	72	<.1	<.1	7.7
Limits Exceeded:	0	0	0	0

Month of November:

No. of Samples	5	5	5	5
Average Value:	65	<.1	<.1	7.9
Max. Value	71	<.1	<.1	8.4
Min. Value	55	<.1	<.1	7.2
Limits Exceeded:	0	0	0	0

Month of December:

No. of Samples	4	4	4	4
Average Value:	67	<.1	<.1	7.9
Max. Value	69	<.1	<.1	8.0
Min. Value	66	<.1	<.1	7.7
Limits Exceeded:	0	0	0	0

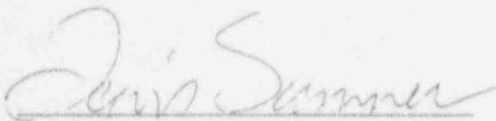
QUARTERLY OPERATIONAL MONITORING REPORT

Georgia Power Company
Plant E.I. Hatch
P.O. Box 4545
Atlanta, Georgia 30302

From: 10-01-93
To: 12-31-93

Permit Number: GA0004120

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.



H. L. Sumner, Jr.
General Manager
Nuclear Plant

ATTACHMENT 3

EDWIN I. HATCH NUCLEAR PLANT - UNITS 1 AND 2

1993 FLOW MONITORING AND CHARACTERIZATION STUDY

HL-4537

ENV-94-067

Edwin I. Hatch Nuclear Plants - Units 1 and 2

NRC Dockets 50-321, 50-366

Operating Licenses DPR-57, NPF-5

Annual Environmental Surveillance Report

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

Mailing Address
Post Office Box 4545
Atlanta, Georgia 30302

S. D. Holder
Manager
Licensing and Compliance



Georgia Power

the southern electric system

January 6, 1994

NPDES PERMIT REQUIREMENTS

Flow Monitoring and Characterization Studies
Annual Priority Pollutant Certification

Mr. Lawrence W. Hedges
Georgia Environmental Protection Division
Industrial Wastewater Program
205 Butler Street, S.E., Suite 1070
Atlanta, GA 30334

Dear Mr. Hedges:

As required by the following NPDES Permits, attached are the Flow Monitoring and Characterization Studies for the referenced plants:

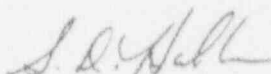
Plant Arkwright	NPDES Permit No. GA0026069
Plant Bowen	NPDES Permit No. GA0001449
Plant Branch	NPDES Permit No. GA0026051
Plant Hammond	NPDES Permit No. GA0001457
Plant Hatch	NPDES Permit No. GA0004120
Plant McDonough/Atkinson	NPDES Permit No. GA0001431
Plant Mitchell	NPDES Permit No. GA0001465
Plant Scherer	NPDES Permit No. GA0035564
Plant Vogtle	NPDES Permit No. GA0026786
Plant Wansley	NPDES Permit No. GA0026778
Plant Yates	NPDES Permit No. GA0001473

In accordance with the provisions of the following NPDES permits, Georgia Power Company certifies that no priority pollutants, other than chromium or zinc, are present in detectable amounts in the cooling water discharges of the referenced plants. This certification is based on the manufacturer's certification for their products and applies to pollutants present as a result of their presence in water treatment chemicals added by Georgia Power Company and not their presence in raw water supplies.

Plant Bowen	NPDES Permit No. GA0001449
Plant Hatch	NPDES Permit No. GA0004120
Plant Scherer	NPDES Permit No. GA0035564
Plant Vogtle	NPDES Permit No. GA0026786
Plant Wansley	NPDES Permit No. GA0026778
Plant Yates	NPDES Permit No. GA0001473

If you have questions or require additional information, please contact Howard Shelnutt at 526-7058.

Sincerely,


S. D. Holder

hls

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
1993

INTRODUCTION

This flow study was performed in accordance with Part III, Section B.9, of the Georgia Power Company, E.I. Hatch Nuclear Generating Facility, National Pollutant Discharge Elimination System, (NPDES), Permit No. GA 0004120; issued by the State of Georgia, Department of Natural Resources, Environmental Protection Division, on December 1, 1992.

BACKGROUND

This study was conducted on the NPDES permitted waste streams using data collected during the time period of July 6 to July 19, 1993. A description of the waste streams are as follows:

1. NON-CONTACT COOLING

This system consisted of discharges from the Plant Auxiliary Heat Exchangers and the Diesel Generator Cooling.

The Plant Auxiliary Cooling Systems consisted of heat exchangers located in the control, radwaste, reactor, turbine and waste gas buildings. This system was supplied by the plant service water system and discharges into the circulating water system (cooling towers) to provide make-up water. Flow rates were calculated using pump name plate data.

The diesel generator cooling water system was supplied by the plant service water system and discharges to the discharge structure mixing chamber via the radwaste discharge line. This system was used for cooling the emergency diesel generators. The diesel generators for Unit One, (1A and 1C), normally had a continuous flow of cooling water regardless of their operational status. Unit One's diesel generator (1B) and Unit Two's diesel generators, (2A and 2C), were supplied with cooling water only during system operation; which consisted of testing and emergencies. Flow rates and measurements were calculated using pump name plate data.

2. LOW VOLUME WASTE (NEUTRALIZATION TANK) 01G

This waste stream consisted of demineralizer regeneration waste composed of sulfuric acid, sodium hydroxide and rinse water. All regenerative waste was collected in a sump and recirculated into a 38,000 gallon aboveground tank until the pH was between 6 and 9. The neutralization tank was discharged via gravity into the Unit One mixing chamber. The maximum flow rate achievable was calculated using the volume of the tank and the radius of the discharge pipe. The daily average flow rate was calculated by dividing the total volume discharged by the total minutes in the test period. The flow rate measurements of this system were based on its calculated maximum flow rates and discharge duration.

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
1993

3. LOW VOLUME WASTE (PRESSURE FILTER BACKWASH) 01H
This waste stream consisted of backwash water originating from four pressure sand filters that preceded the demineralizer unit. The backwash waste gravity drained into the neutralization tank discharge line. The maximum flow rate achievable was based on the backwash pump name plate data. The daily average flow rate was calculated by using backwash flow rate data and operating times during the test period. The flow rate measurements of this system were based on flow indicators for each pressure filter.
4. COOLING TOWER BLOWDOWN (UNIT ONE) 01A
This waste stream consisted of discharges from the Unit One closed-loop circulating water system. Make-up water for this system was derived from non-contact auxiliary plant cooling water. The discharge originated at the circulating water pumps discharge and was routed to the Unit One mixing chamber. The maximum flow rate achievable was based on the total pumping capacity of the plant service water system. The daily average flow rate was calculated using the difference between the Unit One mixing chamber flow rates and the other Unit One waste streams. The flow rate measurements of this system were based on mathematical computations relating this waste stream to all the others that were applicable.
5. COOLING TOWER BLOWDOWN (UNIT TWO) 02A
This waste stream consisted of discharges from the Unit Two closed-loop circulating water system. Make-up water for this system was derived from the non-contact auxiliary plant cooling water. The discharge originated at the circulating water pumps discharge and was routed to the Unit Two mixing chamber. The maximum flow rate achievable was based on the total pumping capacity of the plant service water system. The daily average flow rate was calculated using the difference between the Unit Two mixing chamber flow rates and the other Unit Two waste streams. The flow rate measurements of this system were based on mathematical computations relating this waste stream to all the others that were applicable.
6. COOLING WATER OVERFLOW (UNIT ONE) 01B
This waste stream consisted of discharges from the closed-loop circulating water system. Make-up water for the system originated from the non-contact auxiliary plant cooling water system. The discharge originated at the Unit One cooling tower flume and was routed to the Unit One mixing chamber. The maximum flow rate achievable was based on the total pumping capacity of the plant service water system. The daily average flow rate was calculated by dividing the total gallons discharged by the total minutes in the test period. The flow rate measurements of this stream were based on the best conservative estimate at the time of subsequent discharge.

NOTE: This waste stream was permitted for use in lieu of outfall number 01A.

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
1993

7. COOLING WATER OVERFLOW TO STORM DRAINS (UNIT ONE) 01J
This waste stream consisted of discharges from the closed-loop circulating water system. Make-up water for the system originated from the non-contact auxiliary plant cooling water system. The discharge originated at the Unit One cooling tower basins and was routed to storm drains, then to the river. The maximum flow rate achievable was based on the total pumping capacity of the plantservice water system. The daily average flow rate was calculated by dividing the total gallons discharged by the total minutes in the test period. The flow rate measurements of this stream were based on the best conservative estimate at the time of subsequent discharge.

NOTE: This waste stream was permitted for use in lieu of outfall number 01A.

8. COOLING TOWER BASIN DRAINS (UNIT ONE) 01I
This waste stream consisted of discharges from the closed-loop circulating water system. Make-up water for the system originated from the non-contact auxiliary plant cooling water system. The discharge originated at the Unit One cooling tower basins and was routed to storm drains, then to the river. The maximum flow rate achievable was based on the total pumping capacity of the plant service water system. The daily average flow rate was calculated by dividing the total gallons discharged by the total minutes in the test period. The flow rate measurements of this stream were based on the best conservative estimate at the time of subsequent discharge.

NOTE: This waste stream was permitted for use in lieu of outfall number 01A.

9. COOLING WATER OVERFLOW TO STORM DRAINS (UNIT TWO) 02B
This waste stream consisted of discharges from the closed-loop circulating water system. Make-up water for the system originated from the non-contact auxiliary plant cooling water system. The discharge originated at the Unit Two cooling tower basins and was routed to storm drains, then to the river. The maximum flow rate achievable was based on the total pumping capacity of the plant service water system. The daily average flow rate was calculated by dividing the total gallons discharged by the total minutes in the test period. The flow rate measurements of this stream were based on the best conservative estimate at the time of subsequent discharge.

NOTE: This waste stream was permitted for use in lieu of outfall number 02A.

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
1993

10. COOLING WATER OVERFLOW (UNIT TWO) 02C
This waste stream consisted of discharges from the closed-loop circulating water system. Make-up water for the system originated from the non-contact auxiliary plant cooling water system. The discharge originated at the Unit Two cooling tower flume and was routed to the Unit Two mixing chamber. The maximum flow rate achievable was based on the total pumping capacity of the plant service water system. The daily average flow rate was calculated by dividing the total gallons discharged by the total minutes in the test period. The flow rate measurements of this stream were based on the best conservative estimate at the time of subsequent discharge.
- NOTE: This waste stream was permitted for use in lieu of outfall number 02A.
11. LOW VOLUME WASTE (LIQUID RADWASTE SYSTEM, UNIT ONE) 01E
This waste stream consisted of waste water generated primarily in the reactor and turbine buildings. Examples of the waste water sources were floor drains, laundry drains, laboratory drains, seal cooling waters and bearing cooling waters. The collective waste was filtered and demineralized then discharged to the Unit One mixing chamber or reused in-plant depending on the chemical and radiological quality. The maximum flow rate achievable was derived from the pump name plate data. The average daily flow was calculated by dividing the total volume discharged by the total minutes in the test period. The flow rate measurements of this stream were based on integrator readings and discharge duration.
12. LOW VOLUME WASTE (LIQUID RADWASTE SYSTEM, UNIT TWO) 02E
This waste stream consisted of waste water generated primarily in the reactor and turbine buildings. Examples of the waste water sources were floor drains, laboratory drains, seal cooling waters and bearing cooling waters. The collective waste was filtered and demineralized, then discharged to the Unit Two mixing chamber or reused in-plant depending on the chemical and radiological quality. The maximum flow rate achievable was derived from the pump name plate data. The average daily flow was calculated by dividing the total volume discharged by the total minutes in the test period. The flow rate measurements of this stream were based on integrator readings and discharge duration.
13. COMBINED WASTE STREAMS (UNIT ONE) 01
This waste stream consisted of the total volume of all liquid waste being discharged from Unit One. The maximum flow rate was achieved using the total surface water pumping capacity on plant site. The daily average discharge was calculated from the Unit One daily discharge flow rates during the test period. The flow rate measurements were based on readings obtained from flow rate strip charts.

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
1993

14. COMBINED WASTE STREAMS (UNIT TWO) 02
This waste stream consisted of the total volume of all liquid waste being discharged from Unit Two. The maximum flow rate was achieved using the total surface water pumping capacity on plant site. The daily average discharge was calculated from the Unit Two daily discharge flow rates during the test period. The flow rate measurements were based on readings obtained from flow rate strip charts.
15. INTAKE SCREEN BACKWASH 03
This waste stream consisted of river water being used continuously to backwash the plant's traveling water intake screen. The river water used to backwash the intake screen was gravity fed back to the river. The intake screens are backwashed approximately once per shift (dependent on DP). This flow rate was estimated using pump plate data.
16. INTAKE STRAINER BACKWASH 03A
This waste stream consisted of river water being used periodically to backwash the plant's intake pump's strainers. The river water used to backwash the intake strainers was fed back to the river via the stillwell associated with the intake. The intake strainers are backwashed approximately once per shift (dependent on DP). This flow rate was estimated using pump plate data.
17. 2P65 CHILLER WATER BLOWDOWN 04
This waste stream consisted of discharges from the Unit Two Reactor Building and the Radwaste Building closed-loop circulating water systems. Make-up water for this system originated from the plant sanitary water system. The maximum flow rate achievable was calculated using the pump name plate data. The daily average flow rate was calculated by dividing the total gallons of water discharged by the total minutes in the test period. The flow rate measurements were based on engineering data reviews.
18. SEWAGE TREATMENT EFFLUENT 01F
This waste stream consisted of the plant domestic sewage waste that was created by two aeration package treatment plants. Discharge from this facility was routed to the Unit One mixing chamber. The maximum flow rate achievable was calculated using the designed capacity of the aeration plants. The daily average flow rate was calculated by dividing the total gallons of water discharged by the total minutes in the test period. The flow rate measurements were based on readings obtained from a flow rate strip chart.

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
 1993
TABLE

<u>OUTFALL NUMBER AND NAME</u>	<u>MAXIMUM (gpm)</u>	<u>DAILY/AVG (gpm)</u>
Non-Contact Cooling Water (Diesel Generator Cooling)	3,500	1,403 (a)
Non-Contact Cooling Water (Plant Auxiliary Systems)	68,000	45,000 (i)
01G Low Volume Waste (Neutralization Tank)	650	10 (b)
01H Low Volume Waste (Pressure Filter Backwash)	1,050	2 (c)
01A Cooling Tower Blowdown (Unit One)	34,000 (f)	1,229
02A Cooling Tower Blowdown (Unit Two)	34,000 (f)	912
01B Cooling Water Overflow (Unit One)	34,000 (f)	0
01J Cooling Water Overflow to Storm Drains (Unit One)	34,000 (f)	0
01I Cooling Tower Basin Drains (Unit One)	34,000 (f)	0
02B Cooling Tower Overflow to Storm Drains (Unit Two)	34,000 (f)	0
02C Cooling Water Overflow (Unit Two)	34,000 (f)	0
01E Low Volume Waste, Liquid Radwaste (Unit One)	100	10 (d)
02E Low Volume Waste, Liquid Radwaste (Unit Two)	100	9 (e)
01 Combined Plant Waste Streams (Unit One)	50,000	18,643
02 Combined Plant Waste Streams (Unit Two)	50,000	12,786

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
1993
TABLE

<u>OUTFALL NUMBER AND NAME</u>	<u>MAXIMUM (gpm)</u>	<u>DAILY/AVG (gpm)</u>
03 Intake Screen Backwash	500	412 (g)
03A Intake Strainer Backwash	500	412 (g)
04 2P65 Chiller Water Blowdown	500	5 (h)
01F Sewage Treatment Plant	50	17

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
1993

FOOTNOTES

- (a) The daily average flow rate for cooling water for the diesel generators 1,400 gpm. However, during the flow study test period, the diesels operated only 1.5 hours.
- (b) During the sample period, 216,000 gallons were discharged in 6 batches.
- (c) Actual backwash time during the two week period was 40 minutes at a rate of 710 gpm and 40 minutes at a rate of 250 gpm.
- (d) During the sample period, 231,462 gallons of waste water were discharged from the Unit One mixing chamber in 31 batches.
- (e) During the sample period, 236,762 gallons of waste water were discharged from the Unit Two mixing chamber in 26 batches.
- (f) This figure reflects the total surface water withdrawal capabilities at the plant consisting of service water capacity of 68,000 gpm and residual heat removal (RHR) piping capacity of 16,000 gpm. RHR is used primarily during plant shutdown.
- (g) Under normal operating conditions, the Intake Screen Backwash and Intake Strainer Backwash discharges at a daily average rate of 412 gpm.
- (h) Under normal operating conditions, the 2P65 Chiller Water Blowdown discharges at a daily average rate of 5 gpm.
- (i) Under normal operating conditions, the Unit One Plant Auxiliary System uses approximately 22,000 gpm and under normal operating conditions, the Unit Two Plant Auxiliary System uses approximately 21,250 gpm.

GEORGIA POWER COMPANY PLANT E.I. HATCH
NPDES FLOW CHARACTERIZATION STUDY
1993

WATER TREATMENT CHEMICAL INVENTORY

This is a list of the chemicals used at Plant Edwin I. Hatch for the purpose of water treatment:

1. AC 3323 (scale & corrosion inhibitor)
2. Borax
3. Boric Acid
4. Orthophosphate (Ancool 3213, ALS-34s-220)
5. Calgon H-640
6. Calgon H-300
7. Sanuril 115 (Calcium Hypochlorite)
8. Sodium Hydroxide
9. Sodium Hypochlorite (MLP30GAL)
10. Sodium Nitrite (Ancool 3733,3735,3730)
11. Sodium Pentaborate
12. Sulfuric Acid (SA230GAL)