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



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. Sech 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. Ebneter, Regional Administrator Mr. L. D. Wert, Senior Resident Inspector - Hatch

300001

9403300193 931231 PDR ADDCK 0500032 PDR

IE25 111

## 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.

HL-4537 ENV-94-067

#### 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:

11.4.2

8.1

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 permitte 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:

1000

· # \*

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.

8.00 1.00

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 reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require reevaluation 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.

PERMITTEE)

\*\*\* . . . · · ·

3-3/-53 (DATE)

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

Nechelia last

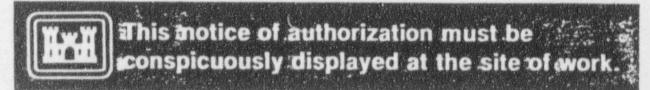
9/8/83

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)



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 Toomos Counties

has been issued to Georgia Hwer Company On April 6. 19 93

Address of Permittee \_ Georgia Power Company

Permit Number

For District

199101536

istrict Commander Conald R. Holzwarth Colonel, U.S. Army District Engineer (Proponent: CECW-O)

ENG FORM 4336 . JUI 81 (23 CFR 320 330) EDITION OF JUL TO MAY BE USED

## **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

....

Georgia Power Company Plant E.I. Hatch P.O. Box 4545		From: 01-01-9: To: 03-31-9:	3
Atlanta, Georgia 30302		Permit Numbor: GA000412	0
Discharge Location: 01G -	Low Volume Waste	(Neutralization Tank)	
Type of Sample: Grab Frequency of Analysis: 2/Mo			
Code:	(530)	(550)	
Parameter:	Suspendeð Soliðs mg/1	Oil & Grease mg/l	
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20	
Date:			
01-08-93	0.5	0.0	
01-18-93 02-01-93	6.0	0.1	
02-16-93	11.9	1.0	
03-11-93 03-16-93	24.2 8.0	0.0	
		6	
Number of Samples: Average Value:	6 10.9	0.2	
Maximum Value:	24.2	1.0	
Minimum Value: Limits Exceeded:	0.5	0.1	
and the first of the second seco			

Page 2 of 14

## NPDES: OPERATION MONITORING REPORT

Georgia Power Company Plant E.I. Hatch P.O. Box 4545		From: To:	01-01-93 03-31-93
Atlanta, Georgia 30302		Permit Number:	GA0004120
Discharge Location: 01H -	- Low Volume Waste	(Pressure Filters	Backwash)
Type of Sample: Grab Frequency of Analysis: 1/Qt	r		
Codet	(530)	(550)	
Parameter:	Suspended Solids mg/1	Oil & Grea mg/1	ase
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: Average Value:	4	4 <5	

Maximum Value:5<5</th>Minimum Value:3<5</td>Limits Exceeded:00

Georgia Power Company Plant E.I. Hatch		01-01-93 03-31-93
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number:	GA0004120

Discharge Location: 01A - Cooling Tower Blowdown Unit One

	Type:	Blowdown Mltpl Grab :1/Wk/Unit : Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowd Mltpl 1/Wk/N Total of TR	Grab Unit Time C rel	Tower Basin Grab 1/Qtr Zinc max.	Tower Basin Grab 1/Qtr Chromium max.
		(mg/l)	(mg/l)	& TRC (min)	(mg/1)	(mg/1)	(mg/1)
	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	ass 000	AN 141
	01-08-93			***	-	.06	0
	01-13-93	0	0	0	0		
	01-20-93	0	0	0	0	And and	800 MH
	01-27-93	0	0	0	0		
	02-03-93	0	0	0	0		are are
	02-10-93	0	0	0	)	444 MW	ant .er-
	02-18-93	0	0	0	(	644 MP	an m.
	02-24-93	0	0	0	L	are and	ant 100
	03-03-93	0	0	0	0		and say
	03-10-93	Ō	0	0	0	an in	
*	03-17-93	***			-	MH 301	
*	03-24-93	les .		**	-	-00 als	
1	Number of						
1	Samples:	10	10	10	10	1	1
	vg Value:	0	0	0	0	.06	0
	ax Value:	0	0	0	0	.06	0
L	in Value: imits	0	0	0	0	.06	0
	Exceeded:	0	0	0	0	0	0

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

Georgia Power Company Plant E.I. Hatch	From: 01-01- To: 03-31-	
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number: GA0004)	120

Discharge Location: 02A - Cooling Tower Blowdown Unit Two

	Location: Type: Frequency Parameter	Mltpl Grab 1/Wk/Unit Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowd Mltpl 1/Wk/U Total of TR & TRC	Grab Unit Time C rel	Tower Basin Grab 1/Qtr Zinc max.	Tower Basin Grab 1/Qtr Chromium max.
		(mg/l)	(mg/l)	(min)	(mg/1)	(mg/1)	(mg/1)
	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	영국 영국 영국 영국	899 <b>9</b> - 1997	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		ere mit
	02-03-93	0	0	0	0		
	02-10-93	0	0	0	0	998 400	
	02-18-93	0	0	0	0	en ne	-
	02-24-93	0	0	0	0	ac as	
	03-03-93	0	0	0	0	174 M	
9k	03-10-93		NY 24	-	-	ar m	
*	03-17-93			440.000	494.985	at at	
Ħ	03-24-93			-	975 VII		
	Number of						
	Samples:	9	0	0	0		
	Avg Value:	9	9	9	9	1	1 0
	Max Value:	0	0	0	0	0	0
	Min Value:	0	0	0	0	0	0
	Limits	U	0	0	0	U	V
	Exceeded:	0	0	0	0	0	0

\* Unit Two in outage. Unable to obtain sample.

Georgia Power Company Plant E.I. Hatch	From: 01-01-93 To: 03-31-93	
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number: GA0004120	

Discharge Location: 01B - Unit One Cooling Water Overflow

	Mltpl Grab 1/Wk/Unit	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg.	Tower Disch. Grab 1/Qtr Zinc max.	Tower Disch. Grab 1/Qtr Chromium max.
	(mg/l)	(mg/l)	(min) (mg/1)	(mg/1)	(mg/1)
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	1
Avg Value:	-	이 아이들 것이다.			<.1	<.1
Max Value:	-		-	-	<.1	<.1
Min Value: Limits			-	-	<.1	<.1
Exceeded:	0	0	0	0	0	0

Georgia Power Company Plant E.I. Hatch		01-01-93 03-31-93
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number:	GA0004120

\*\* Discharge Location: 011 - Unit One Cooling Tower Basin Drains

Location: Type: Frequency Parameter	Mltpl Grab :1/Wk/Unit	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg.	Tower Disch. Grab 1/Qtr Zinc max.	Tower Disch. Grab 1/Qtr Chromium max.
	(mg/l)	(mg/1)	(min) (mg/1)	(mg/1)	(mg/1)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date: 03-23-93	-	- 19	M2 M8	, 5	0

Discharge occured 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: Limits	0	0	0	0	. 5	0
Exceeded:	0	0	0	0	0	0

Plant E.I P.O. Box	4545				rom: 01-01-93 To: 03-31-93
Atlanta, (	Georgia 303	02		Permit Numbe	er: GA0004120
Discharge	Location:		One Cooling torm Drains	Tower Basin O	verflows
Type:	Blowdown Mltpl Grab :1/Wk/Unit : Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg.	Zinc	Tower Disch. Grab 1/Qtr Chromium max.
	(mg/l)	(mg/l)	(min) (mg/1)	(mg/1)	(mg/1)
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 occured 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: Limits	0	0	0	0	.1	0
Exceeded:	0	0	0	0	. 0	0

Plant 1	a Power Compan E.I. Hatch ox 4545	У				om: 01-01-93 To: 03-31-93
	a, Georgia 30	302			Permit Numbe	r: GA0004120
Dischar	rge Location:	02B - Unit Drai		ling	Water Overflow	To Storm
Type: Freque	on: Blowdown Mltpl Grab ncy:1/Wk/Unit ter: Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdow Mitpi G 1/Wk/Un Total T of TRC & TRC a	Frab nit fime rel	Tower Disch. Grab 1/Qtr Zinc max.	Tower Disch. Grab 1/Qtr Chromium max.
	(mg/l)	(mg/l)	(min) (m		(mg/1)	(mg/1)
Limits	: 0.2	0.5	120	N/A	1.0	0.2
Codes:	50064	50064	81400 5	50060	1092	1034
Date:						
01-16- * 03-31-		<.1	 0	 <.1	0.6 0.2	0

\* Temperature reading =  $68^{\circ}$  F (  $20^{\circ}$  C ), Flow rate of 400 gpm

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

Discharges occured during periods of no chlorination.

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

Georgia Power Company		From	n:01-01-93	
Plant E.I. Hatch		To:	03-31-93	
P.O. Box 4545	The second day	Mumber		
Atlanta, Georgia 30302	Permit	Number:	GA0004120	

Discharge Location: 02C - Unit Two Cooling Water Overflow

Location: Type: Frequency Parameter	Mltpl Grab :1/Wk/Unit	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg.	Tower Disch. Grab 1/Qtr Zinc max.	Tower Disch. Grab 1/Qtr Chromium max.
	(mg/l)	(mg/l)	(min) (mg/1)	(mg/1)	(mg/1)
Limits:	0,2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date: 01-16-93	1 T		12 AN AN AN	0.6	0

Discharge occured 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: Limits	0	0	0	0	0.6	0
Exceeded:	0	0	0	0	0	0

Page 10 of 14

## NPDES: OPERATION MONITORING REPORT

Georgia Power Plant E.I. Hat P.O. Box 4545					From: To:	01-01-93 03-31-93
Atlanta, Georg	jia 30302			Permi	t Number:	GA0004120
Discharge Loca	ation:	OlE - Low V Unit		te (Liquid	Radwaste S	System
Type of Sample Frequency of }		2/Mo				
Code:	(530)	(550)				
Parameter:	TSS mg/l	0 & G mg/1			Water) Rele point OSN	
Limits:	Avg. 30 Max.100	Avg. 15 Max. 20	Initial Conc. (ppm)	Amount Drained (gallons)		Final Conc. (ppb)
Date:			( P. P. m.)	(garrons)	(35-11)	(555)
01-04-93	7	0.5	an on			
01-18-93	14	0.0	-		-	Mar sea
02-01-93	.1	0.3	the set			
02-15-93	1	0.0	and see	847 mm	-	500 mm
03-01-93	2	2.9		Sam Ches	800 MP1	
03-15-93	4	2.4	800 ALL		-	-
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:		2.9	300	6792	14000	141
Minimum Value:	100 M	0.0	300	6792	14000	141
Limits Exceede	d: 0	0	NA	NA	NA	NA

Georgia Power Plant E.I. Hat					From: To:	01-01-93 03-31-93
P.O. Box 4545 Atlanta, Georg	jia 30302			Permit	Number:	GA0004120
Discharge Loca	ation:	02E - Low V Unit	olume Wast Two)	te (Liquid	Radwaste S	System
Type of Sample Frequency of 2		2/Mo				
Code	(530)	(550)				
Parameter:	TSS mg/l	0 & G mg/1		te (Chill W discharge p		
Limits:	Avg. 30 Max.100	Avg. 15 Max. 20	Initial Conc. (ppm)	Amount Drained (gallons)	Dilution Flow rate (gpm)	Final Conc. (ppb)
Date:			( p. p. m. )	()	151-1	
01-04-93	2	1.3		ALC 15.0		-
01-18-93	1	0.3		-		880 ADF
02-01-93	3	1.3	an 100	640 MM		80 80
02-15-93	1	1.9		AND 1000		100 NH
03-01-93	2	2.4	ain air	807 cm	was the	
03-15-93	.7	0.9	** **	gan tin		80 es
Number of						
Samples		6	0	0	0	0
Average Value:		1.4	0	0	0	0
Maximum Value:		2.4	0	0	0	0
Minimum Value:		0.3	0	0	0	0 NA
Limits Exceede	ed: 0	0	NA	NA	NA	NA

Page 12 of 14

## NPDES: OPERATION MONITORING REPORT

Georgia Power Company Plant E.I. Hatch		01-01-93 03-31-93
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number:	GA0004120

Discharge Location: 01 - Combined Plant Waste Streams Unit One

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

Georgia Power Company	From:	01-01-93
Plant E.I. Hatch	To:	03-31-93
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number:	GA0004120

Discharge Location: 02 - Combined Plant Waste Streams Unit Two

8

Frequency of Analysis Type of Samples: Parameter: Limits:	: 1/Wk In Situ Temperature Deg. F	Grab T.R.C. N/A	Grab F.A.C. N/A	Grab pH Min. 6.0 Max. 9.0
Code:	(11)	(50060)	(50064)	(400)
Date:				
01-04-93 01-11-93 01-25-93 02-01-93 02-08-93 02-22-93 03-01-93 03-08-93 03-15-93 03-22-93 03-29-93	73 73 66 68 68 71 66 64 62 66 57 66	<.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	<.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	7.4 7.1 7.4 7.1 7.5 7.6 7.8 7.1 7.8 7.4 7.2 6.8 6.9
Number of Samples: Average Value: Maximum Value: Minimum Value: Limits Exceeded:	13 67 73 57 0	13 <.1 <.1 <.1 0	13 <.1 <.1 <.1 0	13 7.3 7.8 6.8 0

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.

In a Manner

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

Page 1 of 15

## NPDES: OPERATION MONITORING REPORT

Georgia Power Company Plant E.I. Hatch		From: To:	04-01-93 06-30-93
P.O. Box 4545 Atlanta, Georgia 30303		Permit Number:	GA0004120
Discharge Location:	01G - Low Volume Waste	(Neutralization	Tank)
Type of Sample: Grab Frequency of Analysis:	2/Mo		
code:	(530)	(556)	
code:	(0.50)	(550)	
Parameter:	Suspended Solids mg/1	Oil & Grea mg/l	ase
Limits:	Avg. 30 Max, 100	Avg. 19 Max. 20	
Date:			
04-05-93 04-26-93 05-06-93 05-19-93 06-07-93 06-23-93	· 2.9 13.5 15.2 19.0 0.3 2.4	1.0 0.0 0.5 0.0 0.0 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

Page 2 of 15

## NPDES: OPERATION MONITORING REPORT

1

Georgia Power Company Plant E.I. Hatch		From: 04-01-93 To: 06-30-93
P.O. Box 4545 Atlanta, Georgia 30302		Permit Number: GA0004120
Discharge Location: 01H	I - Low Volume Waste	(Pressure Filters Backwash)
Type of Sample: Grab Frequency of Analysis: 1,	/Qtr	
Code:	(530)	(556)
Parameter:	Suspended Solids mg/1	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20
Date: 05-17-93 (A) 05-17-93 (B) 05-17-93 (C)	2 2 4	<5 <5 <5
05-17-93 (D)	5	<5

1
5
5
1
1

Plant E.I					ž	From: 04-01-93 To: 06-30-93
P.O. Box Atlanta,		02			Permit Numb	Der: GA0004120
Discharge	Location:	01A - Cool	ing Tov	ver Blo	owdown Unit Or	né
Type:	:1/Wk/Unit	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdd Mltpl 1/Wk/U Total of TRC & TRC	Grab Jnit Time C rel	Tower Basin Grab 1/Qtr Zinc max.	Tower Basin Grab 1/Qtr Chromium max.
	(mg/l)	(mg/1)		(mg/1)	(mg/1)	(mg/1)
Limits:	0.2	0.5	120	N/A	1.0	0.2
Codes:	50064	50064	81400	50060	1092	1034
Date:						
04-07-93	1996 (B. 1997) 1997 - 1997 - 1997)	-		-		an ar
04-14-93			-	~		
04-21-93		-		-		
04-28-93		-		2000	ANA 407	an an
05-04-93		-		-		Aug. 144
05-12-93	0	0	0	0	ear an	Kar tho
05-19-93	0	0	0	0	400 400	aas as
05-25-93					0.4	0
05-26-93	0	0	0	0		
06-02-93	0	0	0	0	and and	an an
06-09-93	0	0	0	0	421 446	an me
06-16-93	0	0	0	0		404 WAX
06-23-93	0	0	0	0	NY: 988	au 20
Number of						
Samples:	1.59	7	7	7	1	1
Avg Value:	ó	0	0	ó	0.4	õ
Max Value:	0	0	0	0	0.4	Ō
Min Value:	0	0	0	0	0.4	Ö
Limits	0	U	V	0		
Exceeded:	0	0	0	0	0	0

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

Georgia Power Company Plant E.I. Hatch	From: 04-01-9 To: 06-30-9	
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number: GA000412	0

Discharge Location: 02A - Cooling Tower Blowdown Unit Two

Location: Type: Frequency Parameter	Mltpl Grab :1/Wk/Unit	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdo Mitpl 1/Wk/N Total of TRC & TRC	Grab Unit Time C rel	Tower Basin Grab 1/Qtr Zinc max.	Tower Basin Grab 1/Qtr Chromium max.
	(mg/l)	(mg/l)	(min)	(mg/1)	(mg/1)	(mg/1)
Limits:	0.2	0.5	120	A/N	1.0	0.2
Codes:	50064	50064	81400	50060	1092	1034
Date:					사실 문제 영	
04-07-93	0	0	O	0	.04	0.0
04-14-93	0	0	0	0	100.000	** **
04-22-93	0	0	0	0	And And	an an
04-28-93	0	0	0	0		
05-04-93	0	0	0	0		
05-12-93	0	0	0	0	400 MR	
05-19-93	0	0	0	0		
05-26-93	0	0	0	0	400.000	
06-02-93	0	0	0	0		ans Ant
06-09-93	0	0	0	0		
06-16-93	0	0	0	0	ant for	an an
06-23-93	0					
Number of			12	12	1	1
Samples:	12	12	12	12	.04	õ
Avg Value: Max Value:	0	0	0	0	.04	0
Min Value:	0	0	0	õ	.04	0
Limits	V	×	~			
Exceeded:	0	0	0	0	0	0

Georgia Power Company Plant E.I. Hatch		04-01-93 06-30-93
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number:	GA0004120

Discharge Location: 01B - Unit One Cooling Water Overflow

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

Number of						
Samples:	0	0	0	0	1	1
Avg Value:	-	-284		-	0.8	0.0
Max Value:	**	-		-	0.8	0.0
Min Value:	-	-	-	-	0.8	0.0
Limits						
Exceeded:	0	0	0	0	0	0

Georgia Power Company Plant E.I. Hatch		04-01-93 06-30-93
P.O. Box 4545 Atlanta, Georgía 30302	Permit Number:	GA0004120

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

Type:	: Blowdown Mltpl Grab y:1/Wk/Unit r: Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg.	Tower Disch. Grab 1/Qtr Zinc max.	Tower Disch. Grab 1/Qtr Chromium max.
	(mg/l)	(mg/l)	(min) (mg/1)	(mg/1)	(mg/1)
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	0
Avg Value:			-	-	**	
Max Value:	-	-	-	-	-	-
Min Value: Limits	-	-	-	800	-	-
Exceeded:	-	-	-	-		-

Georgía Power Company Plant E.I. Hatch P.O. Box 4545			FI	rom: 04-01-93 To: 06-30-93
Atlanta, Georgia 303	02		Permit Numbe	er: GA0004120
Discharge Location:		One Cooling torm Drains	Tower Basin O	verflows
Parameter: Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg.	Zinc	Tower Disch. Grab 1/Qtr Chromium max.
- (mg/l)	(mg/l)	(min) (mg/1)	(mg/1)	(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 -	-	aa aa	* *	**

\*\* 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 i ing period of no chlorination.

Number of Samples:	0	0	0	0	전 문화 영상	1
221107021	- V	V	U	V		als-
Avg Value:			-	-	**	* *
Max Value:		-		÷	**	* *
Min Value:		응 나는 것이 많다.	-	-	**	* *
Limits Exceeded:		공산학원	-	-	**	* *

Georgia Power Company Plant E.I. Hatch				om: 04-01-93 To: 06-30-93
P.O. Box 4545 Atlanta, Georgia 303	Permit Numbe	r: GA0004120		
Discharge Location:	02B - Unit Drai		Water Overflow	To Storm
Location: Blowdown Type: Mltpl Grab Frequency:1/Wk/Unit Parameter: Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg.	Tower Disch. Grab 1/Qtr Zinc max.	Tower Disch. Grab 1/Qtr Chromium max.
(mg/l)	(mg/l)	(min) (mg/1)	(mg/1)	(mg/1)
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.

0	0	0	0	1	1
-	-	-	-	0	0
-	-	-	-	0	0
	-	-	-	0	0
_		_		0	0
	49. 199	an an	47 48 49 48 49		0 0

0

## NPDES: OPERATION MONITORING REPORT

	Plant E.I.					From:04-01-93 To: 06-30-93
P.O. Box 4545 Atlanta, Georgia 30302					Permit Numbe	r: GA0004120
	Discharge	Location:	02C - Unit	Two Cooling	Water Overflow	
		Mltpl Grab :1/Wk/Unit	Blowdown Mltpl Grab 1/Wk/Unit Fac max.	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg.	Tower Disch. Grab 1/Qtr Zinc max.	Tower Disch. Grab 1/Qtr Chromium max.
		(mg/l)	(mg/l)	(min) (mg/1)	(mg/l)	(mg/1)
	Limits:	0.2	0.5	120 N/A	1.0	0.2
	Codes:	50064	50064	81400 50060	1092	1034
	Date:					

Ann 144

0.5

Discharge occurred during a period of no chlorination.

04-20-93 ---

NUMDEL OI						
Sumples:	0	0	0	0	1	1
Avy Value:	-	집 같은 속에서 같은			0.5	0
Max Value:		-		-	0.5	0
Min Value:	-	-	-	- 100	0.5	0
Limits						
Exceeded:	-	-	inte	-	0	0

Page 10 of 15

# NPDES: OPERATION MONITORING REPORT

Georgia Power C Plant E.I. Hato					From: To:	04-01-93 06-30-93
P.O. Box 4545 Atlanta, Georgi	a 30302			Permit	: Number:	GA0004120
Discharge Locat	ion:	01E - Low V Unit		te (Liquid	Radwaste 4	System
Type of Sample: Frequency of An		2/Mo				
Code:	(530)	(556)				
Parameter:	TSS mg/l	0 & G mg/1	Nitri to	te (Chill M discharge	Water) Rele point OSN	eases 01
	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	15	1.4	941 - 644			
04-19-93	2	2.8		500 am		
04-26-93	-	-	120	6829	12000	720
05-03-93	7	2.5	800.000			
05-17-93	3	7.1	100. MP			am am
05-29-93	-	40	80	6110	16000	357
06-07-93	6	6.3		400 1241	gave state	
06-21-93	12	3.9	XEM MAS	900 AN	ao ao	

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

Georgia Power Plant E.I. Hat					From: To:	
P.O. Box 4545 Atlanta, Georg	ia 3030:	2		Permi	t Number:	GA0004120
Discharge Loca	tion:	02E - Low V Unit		te (Liquid	Radwaste s	System
Type of Sample Frequency of A		2/Mo				
Code4	(530)	(556)				
Parameter:	TSS mg/l	O & G mg/l			Water) Rele point OSN (	
Limits:	Avg. 30 Max.100	Avg. 15 Max. 20	Initial Conc. (ppm)	Drained	Dilution Flow rate ) (gpm)	Final Conc. (ppb)
Date:			( P. Pan )	( guzzoite)	( ( 9 P )	(55%)
04-05-93 04-07-93 04-08-93 04-10-93 04-11-93 04-19-93 05-03-93 05-17-93 06-07-93 06-21-93	5111	0.0	320 360 480 80	5015 5182 4897 6591	15000 10000 11000 8500	1488 1984 2705 564 

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

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 Flant Sludge Disposal (lbs/day/month)

April	Ma	v	Ju	ne
Date 1bs	Date	lbs	Date	lbs
No sludge removed	05/06	131	06/01	312
	05/10	138	06/02	196
during the month	05/11	196	06/03	436
of April	05/12	128	06/05	1347
	05/14	128	06/06	442
	05/15	140	06/07	242
	05/18	148	06/08	246
	05/20	534	06/09	237
	05/20	367	06/10	163
	05/25	248	06/11	86
		144	06/12	220
	05/26	473	06/13	209
	05/27		06/15	378
	05/28	230	06/16	201

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

Georgia Power Company Plant E.I. Hatch		04-01-93 06-30-93
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number:	GA0004120

Discharge Location: 01 - Combined Plant Waste Streams Unit One

Frequency of Analysis: Type of Samples: Parameter: Limits:	1/Wk In Situ Femperature Deg. F	Grab T.R.C. N/A	Grab F.A.C. N/A	Grab pH Min. 6.0 Max. 9.0
Code:	(11)	(50060)	(50064)	(400)
Date:				
04 - 05 - 93 04 - 12 - 93 04 - 19 - 93 04 - 26 - 93 05 - 03 - 93 05 - 10 - 93 05 - 17 - 93 05 - 24 - 93 05 - 31 - 93 06 - 07 - 93 06 - 14 - 93 06 - 21 - 93 06 - 28 - 93	66 62 66 71 73 75 82 82 87 88 87 88 84 86 86	<.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	<.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	6.8 5.7 7.0 7.4 7.5 7.2 7.4 8.1 8.2 7.3 8.0 8.1 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

Georgia Power Company Plant E.I. Hatch		04-01-93 06-30-93
P.O. Box 4545 Atlanta, Georgia 30302	Permit Number:	GA0004120

Discharge Location: 02 - Combined Plant Waste Streams Unit Two

Frequency of Analysi Type of Samples: Parameter: Limits:	s: 1/Wk In Situ Temperature Deg. F	Grab T.R.C. N/A	Grab F.A.C. N/A	Grab pH Min. 6.0 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	8.2	<.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

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

Georgia Power Company Plant E.I. Hatch		From: 0 To: 0	7-01-93 9-30-93
P.O. Box 4545 Atlanta, Georgia 3030:	2	Permit Number: GA	0004120
Discharge Location:	01G - Low Volume Waste	e (Neutralization Ta	nk)
Type of Sample: Frequency of Analysis: PCS Code: Parameter: Limits: Date:	Grab 2/Month (530) Suspended Solids mg/l ( Avg. 30 Max. 100 TSS <u>MG/L</u>	Grab 2/Month (556) (TSS) Oil & Grease m Avg. 15 Max. 20 O&G <u>MG/L</u>	ıg∕l (O&G)
07-08-93 07-20-93	12.5 5.0	4.0 0.0	
08-02-93 08-22-93	3.4 22.0	2.5	
09-06-93 09-24-93	1.6 8.0	0.6	
Month of July No. of Samples: Average Value: Max. Value: Min. Value: Limits Exceeded:	2 8.8 12.5 5.0 0	2 2.0 4.0 0.0 0	
Month of August No. of Samples: Average Value: Max. Value: Min. Value Limits Exceeded:	2 13.7 22.0 3.4 0	2 1.3 2.5 0.0 0	
Month of September No. of Samples: Average Value: Max. Value: Min. Value: Limits Exceeded:	2 4.8 8.0 1.6 0	2 0.3 0.6 0.0 0	

Georgia	Power	Company
Plant E.	I. Hat	ch
P.O. Box	4545	
Atlanta,	Georg	ia 30302

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

Permit Number: GA0004120

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

Type of Sample: Frequency of Analysis: PCS Code:	Grab 1/Quarter (530)	Grab 1/Quarter (556)
Parameter:	Suspended Solids mg/l (TSS)	Oil & Grease mg/l (O&G)
Limits:	Avg. 30 Max. 100 TSS	Avg. 15 Max. 20 O&G
Date:	MG/L	MG/I
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:	and and the	
Max. Value:		NO 100 100
Min. Value:		
Limits Exceeded:		447 MIN 841
Month of August:		
No. of Samples:	4	2
Average Value:	<1	< 5
Max. Value:	<1	< 5
Min. Value	<1	< 5
Limits Exceeded:	õ	0
Month of September:		
Nc. of Samples:	0	0
Average Value:	an an an	
Max. Value:	400 ANY ANY	40 Million and
Min. Value:	ar 10.00	
Limits Exceeded:	Aur on tax	

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: 01A - Unit One Cooling Tower Blowdown

Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blow Mlt Gra	·	Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:	1/Week Fac	1/Week Fac max.	1/We	ek ime TRC	1/Quarter Zinc max.	1/Quarter Chromium max.
	(mg/1)	(mg/l)	(min) (		(mg/1)	(mg/1)
Limits:	0.2	0.5	120	N/A	1.0	0.2
PCS Code:	50064	50064	81400	50060	1092	1034
Datel			1. S. 1. S. 1.	11.00		
07-02-93	0	0	0	0	60 M	
07-06-93	0	0	0	0	.04	0.0
07-14-93	0	0	0	0	an m	400 KM
07-21-93	0	0	0	0		
07-28-93	0	0	0	0		
08-04-93	0	0	0	0		ank and
08-11-93	0	0	0	0		au 104
08-18-93	0	0	0	õ	A42 484	
08-25-93	0	0	õ	0	1 (MAX ANA	845 MP
00-20-90		0		1.11		
09-01-93	0	0	0	0		an an
09-08-93	0	0	0	0		595 MIN
09-15-93	0	0	0	0	640. UK	499 Sci.
09-22-93	0	0	0	0	-	*** ***
09-29-93	0	0	0	0	949 MA	500 AD
Month of July	1			1.00		
No. of Sample	s: 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 Exceed	ed: 0	0	0	0	0	0
Marchie and Aussia						
Month of Augu		4	4	4	0	0
No. of Sample		0	0	0	AGA. 498. 494	
Avg. Value:	0	0	0	õ	tale sais web	-
Max. Value:	0	0	0	0	MM 1901 Av4	
Min. Value:	0	0	0	0	Apr. 470 100	
Limits Exceed	ea: U	0				
Month of Sept	ember:					
No. of Sample		5	5	5	0	0
Avg. Value:	0	0	0	0		
Max. Value:	0	0		0	au an m	
Min. Value:	0	0	0	0	was made time	
Limits Exceed	ed: 0	0	0	0	aan aan 199	
	100 B 10 B 10 B 10 B					

	QUAR	TERLY OPERI	ATIONAL	MONITORI	ING REPORT	
Georgia Power Plant E.I. Ha P.O. Box 4545	atch				From: To:	
Atlanta, Geor				1	Permit Number:	GA0004120
Discharge Loo	cation:	02A - Unit	TWO CO	oling Toy	wer Blowdown	
Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blor Ml Gra		Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:	1/Week Fac	1/Week Fac max.	1/W Total		1/Quarter Zinc max.	1/Quarter Chromium max.
	(mg/l)	(mg/1)		(mg/1)	(mg/1)	(mg/1)
Limits: PCS Code:	0.2 50064	0.5 50064	120 81400	N/A 50060	1.0 1092	0.2 1034
Date:	0	0	0	0		
07-02-93	0	0	0	0	0.4	.02
07-14-93	0	0	0	0		1907 alla size
07-21-93	õ	0	õ	0		AN 184 PE
07-28-93	Ö	Õ	0	0	444 (ran 199	
08-04-93	0	0	0	0	500 Said 1907	
08-11-93	0	0	0	0	80 AN AN	Ra See Cor
08-18-93	0	0	0	0	1000 Mar 2006	an ma me
08-75-93	0	0	0	0		
09-01-93	0	0	0	0		
09-08-93	0	0	0	0		80.89
09-15-93	0	0	0	0		and and
09-22-93	0	0	0	0		No. and
09-29-93	0	0	0	0	신 적답하는	
Month of Jul				1.1		
No. of Sampl		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	C.4	.02
Limits Excee	ded: 0	0	0	0	0	0

Limits Exceeded:	0	0	0	U .	×	
Month of August:						
No. of Samples:	4	4	4	4	0	0
Avg. Value:	0	0	0	0	the set of	1202 1205 1018
Max. Value:	0	0	0	0	No. 21 101	
Min. Value:	0	0	0	0	and day any	
Limits Exceeded:	0	0	0	0	ale an m	
Month of Septembe	er:					
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	Nor and Nor	also mile cher
Limits Exceeded:	0	0	0	0	ar ar m	

Page 4 of 15

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

To: 09-30-93

From: 07-01-93

Permit Number: GA0004120

Discharge Location: 01B - Unit One 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/1)	(mg/1)	(mg/1)
Limits:	0.2	0.5	120 N/A	1.0	0.2
PCS Code: <u>Date</u> :	50064	50064	81400 50060	1092	1034

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:

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: 011 - Unit One Cooling Tower Basin Drains

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

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:

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	1/Week	1/Quarter Zinc max.	1/Quarter Chromium max.
Limits: PCS Ćođe: <u>Date:</u>	(mg/l) 0.2 50064	(mg/l) 0.5 50064	(min) (mg/1) 120 N/A 81400 50060	(mg/l) 1.0 1092	(mg/1) 0.2 1034

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:

Georgia Power Plant E.I. Ha P.O. Box 4545	tch				From: To:	09-30-93
Atlanta, Geor	gia 30302	2			Permit Number:	GA0004120
Discharge Loc	ation:	02B - Unit Drain		oling Wa	ter Overflow To	Storm
Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	M	wdown tpl ab	Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:	1/Week Fac	1/Week	1/W Total	Veek Time TRC & avg.	1/Quarter Zinc max.	l/Quarter Chromium max.
	(mg/1)	(mg/l)		(mg/1)	(mg/1)	(mg/1)
Limits:	0.2	0.5		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 Sample		0	0	0	1	1
Avg. Value:			1948 (MIL 1971)		0.39	0.0
Max. Value:			-		0.39	0.0
Min. Value:			-		0.39	0.0
Limits Exceed	led:	ana ana ana	104 104 104		0	0
Month of Augu	iet :					
No. of Sample		0	0	0	1	1
Avg. Value:	Ann Ann Ann		40.1.41		0.50	0.0
Max. Value:		Are 144 188			0.50	0.0
Min. Value:					0.50	0.0
Limits Exceed	ded:		au an av	yan ine sele	0	0
Month of Sept	tember:					
No. of Sample	es: O	0	0	0	0	0
Avg. Value:	-	No. 1817 1919	-			ang ang 100
Max. Value:	the state loss	any net and	-	404 Jan 144	101 AN - AN	800 AM (V)
Min. Value:	401 Max. 811	100 Mar. 20	one one can	an an 10	And And And	
Limits Exceed	ded:		1000 AND 1000	ant dat 25	AND NO AN	ALC: ALC: AT

Discharges occurred during periods of no chlorination.

ower Company	From:	07-01-93
. Hatch	To:	09-30-93
. naton		

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

Permit Number: GA0004120

Discharge Location: 02C - Unit Two Cooling Water Overflow

Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blow Mlt Gra		Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:	1/Week Fac	1/Week Fac max.	1/We Total		1/Quarter Zinc max.	1/Quarter Chromium max.
	1 m m 133	1000/11		(mg/1)	(mg/1)	(mg/1)
* 1 - 1 +	(mg/l)	(mg/l)	120	N/A	1.0	0.2
Limits:	0.2	0.5	81400	50060	1092	1034
PCS Code:	50064	50064	01400	20000	2022	
<u>Date</u> F 07-21-93	and the		100.000		0.27	0.0
Month of Jul						
No. of Sampl		0	0	0	1	1
Avg. Value:	atter con				0.27	0.0
Max. Value:		100 MIC -000	104 - MIL 107		0.27	0.0
Min. Value:			Apr. 444 - 515		0.27	0.0
Limits Excee					0	0
DIMILS EXCEE	ueu.					
Month of Aug	ust:					
No. of Sampl		0	0	0	0	0
Avg. Value:	ter ar		-		an an m	. All and
Max. Value:	and 1007 1000	-	-		au	dan van mit
Min. Value:			-		case man man	MET (MAX 1001
Limits Excee	ded:		-	AND 1010 101	an an	
상태 방법을 만들는 것이 없다.						
Month of Sep	Contraction of the second second second second second	1.1.2			0	0
No. of Sampl	es: 0	0	0	0		
Avg. Value:	PR5 905-945		And you but	and they deal		AN
Max. Value:	water inter- inter			and also also		
Min. Value:	Ann 1846 1961	Acr. 101. 400	day and one		444 945 554	AND ANY ANY
Limits Excee	ded:	and data and	and spin out		440 B/A 740	NAME AND ADDRESS

Discharge occurred during period of no chlorination.

Georgia Power Co Plant E.I. Hatch					From: To:	07-01-93 09-30-93
P.O. Box 4545 Atlanta, Georgia	a 30302			Permit	t Number:	GA0004120
Discharge Locat	ion:	OlE - Low V Unit		te (Liquid	Radwaste i	System
Type of Sample: Frequency of And PCS Code:		2/Month (556)				
Parameter:	TSS	0 & G			Water) Rele point OSN	
	mg/1 Avg. 30 Max.100	mg/1 Avg. 15 Max. 20	Initial Conc.	Amount Drained (gallons)	Dilution Flow rate	Final Conc.
Date:			155			
07-06-93	8	2.4		un an		
07-19-93	. 2	0.5		an an	Ro. ort	Ale 162
08-02-93	2	2.9	-	1000 1000		1997 <b></b> 1993
08-16-93	28	2.5	940 MA			68. An
09-06-93	11	0.3		-	80 MP	
09-20-93	7	1.3	ann ann	500 X4.	See and	
Month of July:						
No. of Samples	2	2	0	0	0	0
Average Value:	4.1	1.5	AND 1849 AND	and the sea	dan see tax	and and day
Max. Value	8.0	2.4		and value care		50° 600 045
Min. Value	0.2	0.5	our dat see	and also have		460 959 089
Limits Exceeded	: 0	0	****	ani ani cos		Min 199 - 699
Month of August	:					
No. of Samples	2	2	0	0	0	0
Average Value:	15	2.7	an ar an		All and the	And 101 153
Max. Value	28	2.9	olen Alfe oler	war we sim	uppe that start	
Min. Value	2	2.5	and one last	400 MH 101		age and and
Limits Exceeded	: 0	0		an de de	505 (80 Not	567 TO 265
Month of Septem	ber:					
No. of Samples	2	2	0	0	0	0
Average Value:	9	0.8	ania ana dise	and any set.	110 806 969	
Max. Value	11	1.3	ager sets out-	200 100-000		
Min. Value	7	0.3	00.9 MH2 MH2		and the sec	
Limits Exceeded	; 0	0	1918 ARE 110	AL 46 50		and one one

					Enert	07-01-93
Georgia Power Comp Plant E.I. Hatch	any				From: To:	09-30-93
P.O. Box 4545 Atlanta, Georgia	30302			Permit	Number:	GA0004120
Discharge Location	11	02E - Low V Unit	olume Wast Two)	e (Liquid 3	ladwaste S	ystem
Type of Sample: G Frequency of Analy PCS Code: (5	rab vsis: 330)	2/Month (556)				
W PER TO ANY DRA LON ON ANY ANY ANY	rss ng/l	0 & G mg/1	Nitrit to d	te (Chill Wa Mischarge po	oint OSN (	)2
Limits: Avg	g. 30 (.100	Avg. 15 Max. 20	Initial Conc. (ppm)	Amount I	Dilution Flow rate	Final Conc. (ppb)
Date:						
07-05-93	1.2	2.4	-		1002 1000	
07-20-93	1.2	0.5	as as			are es
08-02-93	1	0.0	-		444 MP	aan aan
	0.8	0.0	90 m			
09-06-93	4.2	0.0	-	-		
	0.5	1.0	214 au	ate an		(B)(F (04))
Month of July:						
No. of Samples	2	2	0	0	0	0
	1.1	2.3			gan sco ean	200 800 800
	1.2	4.0		400 MP	date state state	and the last
Min. Value	1.0	0.5	and one and	aller faller aller	455 XXX 414	100 000 000
Limits Exceeded:	0	0	age and and			~ ~ ~
Month of August:						0
No. of Samples	2	2	0	0	0	0
	0.9	1.3	400 MP	ulian same same	CARE AND MAD	AND 407 507
	1.0	2.5		ten ann ann	100.014	400 500 500
	0.8	0.0	460 AVE 75-	All Se He	ann ann ean	100 Mile 100
Limits Exceeded:	0	C	Mer. 100	1000 PMF 000		
Month of Septembe	ri					0
No. of Samples	2	2	Ο.	0	0	
	1	0.5	455 ABC 1991	45.0 ADD 1011		ALC: 107 107
	1.6	1.0	090 MB 400	dan dan dan	0724 4046 4034	
	0.5	0.0	460 300 455	Ann 1991 1971	456 Sec 107	200 1000 UNA
A M M A A A A A A A A A A A A A A A A A	0	0	ata da da	Mir Ani 194	100 000 000	one and are

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 1bs	Date 1bs	Date 1bs		
No sludge removed during the month of July	No sludge removed during the month of August	09/21 09/22	288 216	

This sludge was removed for disposal as dry active waste.

Page 12 of 15

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 Type of Samples:	In Situ	Grab T.R.C.	Grab F.A.C.	Grab pH
Parameter: Limits:	Temperature Degree F	N/A	N/A	Min. 6.0 Max. 9.0
PCS Code:	(11)	(50060)	(50064)	(400)
Date:	영양한 것이다.			
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	7.0
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
Month of July:				
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
Month of August:				
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
Month of September:				
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

방법은 해외에서 전쟁을 가지 않는 것이 같다.				
Georgia Power Company Plant E.I. Hatch				From: 07-01-93 To: 09-30-93
P.O. Box 4545				
Atlanta, Georgia 303	02		Permit Nu	mber: GA0004120
Discharge Location:	02 - Combined	Plant Was	te Streams	Unit Two
	: 1/Week			
Frequency of Analysis	In Situ	Grab	Grab	Grab
Type of Samples:	Temperature	T.R.C.	F.A.C.	pH
Parameter:	Degree F	N/A	N/A	Min. 6.0
Limits:	Degree r	11/13		Max. 9.0
	(11)	(50060)	(50064)	(400)
Code:	(11)	(50000)	(50004)	
Date:				
	93	<.1	<.1	7.7
07-05-93	87	<.1	<.1	7.9
07-12-93	87	<.1	<.1	8.3
07-19-93			<.1	8.2
07-26-93	91	<.1	~	0.2
	6.0	<.1	<.1	8.3
08-03-93	87		<.1	8.4
08-10-93	84	<.1	<.1	7.5
08-17-93	87	<.1	<.1	8.3
08-24-93	93	<.1	<.1	7.7
08-31-93	89	<.1	N + 4	
	07	1.1	<.1	7.7
09-06-93	87	<.1	<.1	8.3
09-13-93	82	<.1		8.3
09-20-93	89	<.1	<.1	8.5
09-27-93	86	<.1	<.1	0.2
Month of July:				4
No. of Samples	4	4	4	8.0
Average Value:	90	<.1	<	8.3
Max. Value	93	<.1	<.1	7.7
Min. Value	87	<.1	<.1	0
Limits Exceeded:	0	0	U	U
Month of August:				5
No. of Samples	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
and as set as to use the area to to to the to the tot				

Page 14 of 15

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 gualified 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

Page 15 of 15

Georgia Power Company Plant E.I. Hatch P.O. Box 4545		From: 10-01-93 To: 12-31-93
Atlanta, Georgia 3030	2	Permit Number: GA0004120
Discharge Location:	01G - Low Volume Waste	(Neutralization Tank)
Type of Sample: Frequency of Analysis: PCS Code: Parameter: Limits:	(530) Suspended Solids mg/l (TSS Avg. 30 Max. 100 TSS	Grab 2/Month (556) 0il & Grease mg/l (O&G) Avg. 15 Max. 20 O&G Max. 20
Date:	MG/L	MG/L
10-05-93 10-19-93	8.J 33.5	1.0 3.3
11-0J-93 11-2.93	0.6 8.8	0.4 1.8
12-06-93 12-20-93	1.5 6.0	0.0 2.9
Month of October No. of Samples: Average Value: Max. Value: Min. Value: Limits Exceeded:	2 20.9 33.5 8.3 0	2 2.2 3.3 1.0 0
Month of November No. of Samples: Average Value: Max. Value: Min. Value Limits Exceeded:	2 4.7 8.8 0.6 0	2 1.1 1.8 0.4 0
Month of December No. of Samples: Average Value: Max. Value: Min. Value: Limits Exceeded:	2 3.8 6.0 1.5 0	2 1.5 2.9 0.0 0

Georgia Power Company Plant E.I. Hatch P.O. Box 4545		From: 10-01-93 To: 12-31-93
Atlanta, Georgia 30302	P	ermit Number: GA0004120
Discharge Location: 01H -	Low Volume Waste (Pres	sure Filters Backwash)
Frequency of Analysis: PCS Code:	(530)	Grab 1/Quarter (556) ) Oil & Grease mg/l (O&G) Avg. 15 Max. 20 O&G
Date:	MG/L	MG/L
11-08-93 (A) 11-08-93 (B) 11-08-93 (C) 11-08-93 (D)	<1 2 <1 <1	<5 <5 <5 <5

<u>Month of October:</u> No. of Samples: Average Value: Max. Value: Min. Value: Limits Exceeded:	0	0   
Month of November: No. of Samples: Average Value Max. Value: Min. Value Limits Exceeded:	4 <1 2 <1 0	4 < 5 < 5 < 0
Month of December: No. of Samples: Average Value: Max. Value: Min. Value: Limits Exceeded:	0  	0

Georgia Power Plant E.I. Ha P.O. Box 4545					From: To:			
Atlanta, Geor	gia 30302		Permit Number: GA0004120					
Discharge Loc	ation: 0	DIA - Unit	One Coo	oling Toy	wer Blowdown			
Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Mlt Gra	ab	Tower Basin Grab	Tower Basin Grab		
Frequency: Parameter:	1/Week Fac	l/Week Fac max.		ek Time TRC Lavg.	l/Quarter Zinc max.	l/Quarter Chromium max.		
Limits: PCS Code: Date:	(mg/1) 0.2 50064	(mg/l) 0.5 50064	(min)	(mg/1) N/A	(mg/1) 1.0 1092	(mg/1) 0.2 1034		
10-04-93 10-07-93	 0	0	0		0.3	0.0		
10-14-93	Ö	õ	0	0				
10-20-93	0	0	0	0				
10-28-93	0	0	0	0				
11-03-93	0	0	0	0	and an and the			
11-10-93	0	0	Ó	0	**			
11-17-93	0	0	0	0				
11-24-93	0	ο.	0	0		57 m		
12-01-93	0	0	0	Ō				
12-08-93	0	0	0	0				
12-15-93	0	0	0	0	A.K. (1)	1		
12-22-93	0	0	0	0	이 이 방법 이 것 이 가지?			
12-29-93	0	0	0	0	**			
Month of Octo	ber:							
No. of Sample		4	4	4	1	1		
Avg. Value:	D	. 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 Exceed	ed: 0	0	0	0	0	0		
Month of Nove	mber:							
No. of Sample.	s: 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 Exceed	ed: 0	0	0	0				
Month of Decer	mber:							
No. of Sample		S	5	5	0	0		
Avg. Value:	0	0	0	0	14 m m			
Max. Value:	0	0	0	0	- m. m. m	* * *		
Min. Value:	0	0	0	0				
Limits Exceed	ed: 0	0	Q	0		41 54 41		

Page 3 of 15

Georgia Power Plant E.I. Hat					From: To:	
P.O. Box 4545 Atlanta, Georg	gia 30302				Permit Number:	GA0004120
Discharge Loca	ation:	02A - Unit	Two Co	oling To	wer 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/W Total	leek Time TRC & avg.	l/Quarter Zinc max.	l/Quarter Chromium max.
Limits: PCS Code:	(mg/l) 0.2 50064	(mg/1) 0.5 50064	(min) 120	(mg/1) N/A 50060	(mg/1) 1.0 1092	(mg/1) 0.2 1034
Date:	20004	50004	01400	20000		2003
10-04-93			201.00		.05	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	the second second second	***
11-17-93	0	0	0	0	and the second	
11-24-93	0	0	0	0	***	~ ~ ~
12-01-93	0	0	0	0		
12-08-93	0	0	0	0	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	* *
12-15-93	0	0	0	0		
12-22-93	0	0	0	0		
12-29-93	0	0	0	0		
Month of Octob	er:					
No. of Samples	: 4	4	4	4	1	1
Avg. Value:	0	0	0	0	.05	0.0
Max. Value:	0	0	0	0	.05	0.0
Min. Value:	0	0	0	0	.05	0.0
Limits Exceede	id : 0	0	0	0	0	0
Month of Noven						
No. of Samples	4	4	4	4	0	0
Avg. Value:	0	0	0	0	80 SF 48	* * *
Max. Value:	0	0	0	0		
Min. Value:	0	0	0	0		
Limits Exceede	:d: 0	0	0	0	***	
Month of Decen						
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 Exceede	d: 0	0	0	0	* * *	an an m

Page 4 of 15

Georgia Power Plant E.I. Ha	atch			From: To:			
P.O. Box 4545 Atlanta, Georgia 30302			Permit Number: GA000				
Discharge Loc	ation:	01B - Unit	One Cooling Wa	ter Overflow			
Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Tower Basin Grab	Tower Basin Grab		
Frequency: Parameter:	1/Week Fac	1/Week	1/Week Total Time TRC rel & avg.	l/Quarter Zinc max.	1/Quarter Chromium max.		
Limits:	(mg/1) 0.2	(mg/1) 0.5	(min) (mg/l) 120 N/A	(mg/1) 1.0	(mg/1) 0.2		
PCS Code: Date:	50064	50064	81400 50060	1092	1034		
10-13-93				.20	0.0		

Overflow did not occur during period of chlorination.

Month of October: No. of Samples: 0 Avg. Value: Max. Value: Min. Value: Limits Exceeded:	0 + + + + + + + + + + + + + + + + + + +	0 0	1 .20 .20 .20	1 0.0 0.0 0.0
Month of November: No. of Samples: 0 Avg. Value: Max. Value: Min. Value: Limits Exceeded:	0 1 1 1 1 1 1 1 1 1 1 1 1		0   	0 
Month of December: No. of Samples: 0 Avg. Value: Max. Value: Min. Value: Limits Exceeded:	0	0 0	0    	0  

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: 011 - Unit One Cooling Tower Basin Drains

Location: Type:	Blowdown Mltpl Grab	Blowdown Blowdown S Mltpl Mltpl Grab 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.
Limits:	(mg/l) 0.2	(mg/l) 0.5	(min) (mg/l) 120 N/A	(mg/1) 1.0	(mg/1) 0.2
PCS Code: Date: <sup>4</sup>	50064	50064	81400 50060	1092	1034

Basins were not drained during this reporting period.

Month of October	C.E					
No. of Samples:	0	0	0	0	0	0
Avg. Value:	-	in pr		-	10 m.	74. M
Max. Value:		34 M	10 m	er. 9	an in	-
Min. Value:	10 M	10 A	in an	14 M		
Limits Exceeded:	100,000		- 10 m	10 M	**	- 4.9
Month of Novembe	2111					
No. of Samples:	0	0	0	0	0	0
Avg. Value:	- ÷	× *			**	
Max. Value:	× ×	10.100	10. M		**	100 A.
Min. Value:	N. 10	Sec. Sec. 1	a (6		**	1.0
Limits Exceeded:		÷ *	a. in			
Month of Decembe	ET:					
No. of Samples:	0	0	0	0	0	0
Avg. Value:	10.00	10.00	10.1	a.a. 1		· · · · ·
Max. Value:	** ~	10.10	ar 14	10. 10		
Min. Value:	+ +	÷. +		**	**	
Limits Exceeded:	-	10.10				

Georgia Powe Plant E.I. H	atch			From To	
P.O. Box 454 Atlanta, Geo				Permit Number:	GA0004120
Discharge Lo	cation:		One Cooling Tou torm Drains	wer Basin Over:	flows
Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:	1/Week Fac	1/Week	1/Week Total Time TRC rel & avg.	1/Quarter Zinc max.	l/Quarter Chromium max.
Limits: PCS Code: <u>Date:</u>	(mg/1) 0.2 50064	(mg/l) 0.5 50064	(min)(mg/l) 120 N/A 81400 50060		(mg/1) 0.2 1034
10-13-93		+ +	n an 1946 an	.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:	A.F		100 M	1 m m	.15	0.0
Max, Value:		a. 4	11. m	344 - L S. S.	.15	0.0
Min. Value:	A. 6	100 E		**	.15	0.0
Limits Exceeded:	***	**	** o -	** 27.5	0	0
Month of November						
No. of Samples:	0	0	0	0	0	0
Avg. Value:	1999 - C. 1999 - L	4 W				
Max, Value:			48.010	96 - 1 S. A.		-
Min. Value:	- e - 1		2 M (	1991 (1992 (1992 (1993) (1993 (1993 (1993 (1993 (1993		
Limits Exceeded:	111	**		~~ 가 오늘	2011년 18월 28일	an an
Month of December	r 4					
	0	0	0	0	0	0
Avg. Value:			**	144 (M. 1997)		-
Max. Value:			A=-1/2			-
Min. Value:	-		**		가슴 아들은 것 같아? 것 않는	
Limits Exceeded:		**		**		

Georgia Power Plant E.I. Ha P.O. Box 4545	tch					10-01-93 12-31-93
Atlanta, Geor				1	Permit Number:	GA0004120
Discharge Loc	ation:	02B - Unit Drain		oling Wa	ter Overflow To	Storm
Location: Type:	Blowdown Mltpl Grab	Blowdown Mltpl Grab	Blo Ml Gr		Tower Basin Grab	Tower Basin Grab
Frequency: Parameter:		1/Week Fac max.	1/W Total	eek	l/Quarter Zinc max.	l/Quarter Chromium max.
Limits: PCS Code:	(mg/1) 0.2 50064	(mg/l) 0.5 50064	(min) 120	(mg/1)	(mg/1) 1.0 1092	(mg/1) 0.2 1034
<u>Date:</u> 10-14-93			-		0.07	0.0
Month of Octo	ber:					
No. of Sample:	s: 0	0	0	0	1	1
Avg. Value:	41. H 10	10. 10. 10.	a 4 a.	er 20. m	0.07	0.0
Max. Value:	10. at 11.	W. M. M.	10.00	97 W. W.	0.07	0.0
a side a set of the bark day had been it.	10 (a) (b)	10 Ar 10	. 44 . Mar 445	AL	0.07	0.0
Limits Exceede	8å:		11.41.41	An	0	0
Month of Nover	nber					
No. of Samples		0	0	Ö	0	0
Avg. Value:						
Max, Value:		100 M		1. H H	* *	1
Min. Value:	10 m at	10 M 10	14 H H			
Limits Exceede	ed :	+ + +	$+$ $+$ $\times$	***	**	이 가지 않는 것 같아?
North of Deser	abain.					
Month of Decer No. of Samples		0	0	0	0	0
Avg. Value:	51 V 878					
Max. Value:						14 St. 19 St. 1
Min. Value:	***					
Limits Exceede						
DIMITE EXCERCI	and a					
Dicebarge ana	word doubt	an and shall	at an	hlaring	inn	

Discharge occurred during periods of no chlorination.

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: Type: Frequency: Parameter: Limits: PCS Code: Date: 10-14-93	Blowdown Mltpl Grab 1/Week Fac (mg/1) 0.2 50064	Blowdown Mltpl Grab 1/Week Fac max. (mg/l) 0.5 50064	Ml Gr 1/W Total rel (min) 120		Tower Basin Grab 1/Quarter Zinc max. (mg/1) 1.0 1092 0.05	Tower Basin Grab 1/Quarter Chromium max. (mg/1) 0.2 1034 .01
Month of Octo No. of Sample Avg. Value: Max. Value: Min. Value: Limits Fxceed	S: 0  +	0	0	0	1 0.05 0.05 0.05 0	1 .01 .01 .01 0
Month of Nove No. of Sample Avg. Value: Max. Value: Min. Value: Limits Exceed	S: 0 	0	0	0	0	0
<u>Month of Dece</u> No. of Sample Avg. Value: Max. Value: Min. Value: Limits Exceed	s: 0 	0	0	0	0	0

Discharge occurred during period of no chlorination.

Georgia Power Plant E.I. Hat P.O. Box 4545					From: To:	
Atlanta, Georg	jia 30302			Permi	t Number:	GA0004120
Discharge Loca	tion:	01E - Low V Unit		te (Liquid	Radwaste	System
Type of Sample Frequency of A PCS Code:		2/Month (556)				
Parameter:	TSS	0 & G		te (Chill )		
Limits:	mg/1	mg/1	Initial	discharge	Dilution	
TO T 11(T C 50 :	Avg. 30 Max.100	Avg. 15 Max. 20	Conc.		Flow rate	
4	Max.200	Max, 20		(gallons)		(ppb)
Date:			(F.Fam)	(Autrone)	(SEM)	(PPD)
Historic Marginalia						
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	an an	**	80	6890	14000	38
10-13-93	at at		80	6540	23000	25
10-19-93	5	3.8				***
11-01-93		1.5				
11-15-93	3	0.9				
44 49 20	0	0.2				
12-07-93	1	3.8				
12-26-93	19	1.6				
Month of Octob	A COMPANY OF A CONTRACT OF					
No. of Samples		2	5	5	5	5
Average Value:		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 Exceede	d: 0	0	0	0	U	0
Month of Novem	hor.					
No. of Samples		2	0	0	0	0
Average Value:		1.2				
Max. Value	6	1.5				
Min. Value	3	0.9				
Limits Exceede		0				
Month of Decem						
No. of Samples		2	0	0	0	0
Average Value:		2.7		an an an		
Max. Value	19	3.8				
Min. Value	1	1.6				
Limits Exceede	d: 0	0	40. 48 UR			

Georgia Power ( Plant E.I. Hate P.O. Box 4545	ch				From: To:	10-01-93 12-31-93
Atlanta, Georg	ia 30302			Permi	t Number:	GA0004120
Discharge Locat	tion:		Volume Wast Two)	e (Liquid	Radwaste S	ystem
Type of Sample Frequency of Ar PCS Code:		2/Month (556)				
Parameter:	TSS	O&G			Water) Rele point OSN 0	
Limits:	mg/1 Avg. 30 Max.100		Initial Conc. (ppm)	Amount Drained	Dilution Flow rate ) (gpm)	Final
Date:			12200		, , , , , , , , , , , , , , , , , , ,	122
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	한 옷이 다.			** (T)
Month of Octobe	5 <del>1</del> 1					
No. of Samples		2	0	0	0	0
Average Value:		0.8				www.
Max. Value	0.7	1.0		at an in		
Min. Value	0.3	0.5				
Limits Exceeded	1: 0	0	ar ar ar	a a.a	. 201 - 201 - 201	
Month of Novemi	ber:					
No. of Samples	2	-2	0	0	0	0
Average Value:		1.5				
Max. Value	1.3	2.0		* * *		
Min. Value	1.0	1.0				
Limits Exceeded	1: 0	0			* * *	* * *
Month of Decemb	ber:					
No. of Samples	2	2	0	0	0	0
and the second	2.7	1.2		an an an		
Max. Value	4.5	1.6				
Min. Value	0.8	0.8	***			* * *
Limits Exceeded	l: 0	0		* * *	***	

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 Date lbs

December Date lbs November Date 1bs No sludge removed during the month of November

Date	105
12/20	2893
12/21	6300
12/22	2893
12/23	11576
12/27	7235
12/29	13161
12/30	2481
Total	48921

No sludge removed during the month of October

This sludge was removed for disposal as dry active waste.

Georgia Power Company Plant E.I. Hatch P.O. Box 4545 Atlanta, Georgia 3030	12			From: 10-01-93 To: 12-31-93 ber: GA0004120
Discharge Location:		Plant Was		
Frequency of Analysis: Type of Samples: Parameter: Limits:	In Situ		Grab F.A.C. N/A	Grab pH Min. 6.0
PCS Code:	(11)	(50060)	(50064)	Max. 9.0 (400)
Date: 10-04-93 10-11-93 10-18-93 10-25-93	82 80 80 66	<.1 <.1 <.1 <.1	<.1 <.1 <.1 <.1	8.3 8.3 8.3 7.9
11-01-93 11-08-93 11-15-93 11-22-93 11-29-93	68 71 69 73 69	<.1 <.1 <.1 <.1	<.1 <.1 <.1 <.1 <.1	8.2 7.1 7.4 8.1 8.2
12-06-93 12-13-93 12-20-93 12-27-93	75 66 66 53	<.1 <.1 <.1 <.1	<.1 <.1 <.1 <.1	8.0 7.9 7.7 7.8
Month of October: No. of Samples Average Value: Max. Value Min. Value Limits Exceeded:	4 77 82 66 0	4 <.1 <.1 <.1 0	4 <.1 <.1 <.1	4 8.2 8.3 7.9 0
Month of November: No. of Samples Average Value: Max. Value Min. Value Limits Exceeded:	5 70 73 68 0	5 <.1 <.1 <.1 0	5 <.1 <.1 <.1	5 7.8 8.2 7.1 0
Month of December: No. of Samples Average Value: Max. Value Min. Value Limits Exceeded:	4 65 75 53 0	4 <.1 <.1 <.1. 0	4 <.1 <.1 <.1 0	4 7.8 8.0 7.8 0

Georgia Power Company Plant E.I. Hatch P.O. Box 4545				From: 10-01-93 To: 12-31-93
Atlanta, Georgia 303	02		Permit Nur	mber: GA0004120
Discharge Location:	02 - Combined	Plant Wast	e Streams 1	Unit Two
Frequency of Analysis Type of Samples: Parameter: Limits:	: 1/Week In Situ Temperature Degree F	Grab T.R.C. N/A	Grab F.A.C. N/A	Grab pH Min. 6.0
Code :	(11)	(50060)	(50064)	Max. 9.0 (400)
Date:				
10-04-93 10-11-93 10-18-93 10-29-93	80 82 82 72	<.1 <.1 <.1 <.1	<.1 <.1 <.1 <.1	8.2 7.7 7.8 8.4
11-01-93 11-08-93 11-15-93 11-22-93 11-29-93	69 55 69 71 60	<.1 <.1 <.1 <.1 <.1	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	8.4 7.2 7.6 8.2 8.1
12-06-93 12-13-93 12-20-93 12-27-93	69 66 66	<.1 <.1 <.1 <.1	<.1 <.1 <.1 <.1	7.7 8.0 8.0 7.9
Month of October:				
No. of Samples Average Value: Max. Value Mín. Value Limits Exceeded:	4 79 82 72 0	4 <.1 <.1 <.1	4 <.1 <.1 <.1 0	4 8.0 8.4 7.7 0
Month of November: No. of Samples Average Value: Max. Value Min. Value Limits Exceeded:	5 65 71 55 0	5 <.1 <.1 <.1	5 <.1 <.1 <.1 0	5 7.9 8.4 7.2 0
Month of December: No. of Samples Average Value: Max. Value Min. Value Limits Exceeded:	4 67 69 66 0	4 <.1 <.1 <.1	4 <.1 <.1 <.1	4 7.9 8.0 7.7 0

Page 14 of 15

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.

marta

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 atu y e fone contra 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

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

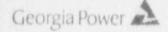
Dear Mr. Hedges:

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				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	NOS	GA0035564	
Plant	Vogtle	NPDES	Permit	Nga	GA0026786	
Plant	Wansley	NPDES	Permit	NO.	GA0026778	
Plant		NPDES	Permit	No.	GA0001473	



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

Sincerely,

S. D. Holder

hls

#### 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) OIG

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.

- 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 thebackwash 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 OIA.

- 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) 011 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.

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.

- 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 OIF 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.

OUTE	ALL NUMBER AND NAME .	MAXIMUM (gpm)	DAILY/AVG (gpm)
	Contact Cooling Water sel Generator Cooling)	3,500	1,403 (a)
	Contact Cooling Water nt Auxiliary Systems)	68,000	45,000 (i)
	Low Volume Waste tralization Tank)	650	10 (b)
	Eow Volume Waste ssure 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
011	Cooling Tower Basin Drains (Unit One)	34,000 (f)	0
02B	Cooling Tower Overflow to Storm Drains (Unit Two)	34,000 (f)	0
020	Cooling Water Overflow (Unit Two)	34,000 (£)	0
OlE	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 Steams (Unit Two)	50,000	12,786

OUTFALL NUMBER AND NAME	MAXIMUM (gpm)	DAILY/AVG (gpm)
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

12

#### 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.
- 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.

#### 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 )