

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



March 26, 1993

Docket Nos. 50-321
50-366

HL-3218
005108

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

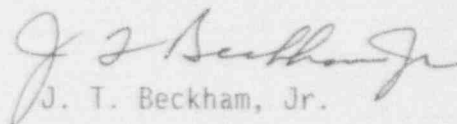
Edwin I. Hatch Nuclear Plant
Annual Environmental Surveillance Report

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 1992.

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

Sincerely,



J. T. Beckham, Jr.

TCM/SRM:cr

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. 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 Annual Environmental Surveillance Report

1992

Specification

In accordance with the Edwin I. Hatch Nuclear Plant 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, 1992 through December 31, 1992.

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. GA0004120. Monitoring activities performed in accordance with NPDES Permit No. GA0004120 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. GA0004120.

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.

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

No instances of ETS noncompliance occurred during the reporting period.

Enclosure
Annual Environmental Surveillance Report

E. Changes to Federal and State Permits or Certificates

NPDES Permit No. GA0004120 was reissued in 1992. The NRC was provided with copies of the permit application, revisions to the application, the final issued permit and minor revisions to the final issued permit per the requirements of ETS section 5.6.3.2 (References 1 through 4).

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

In 1992, 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. GA0004120

Attachment 1 contains a copy of the report submitted to the State of Georgia Department of Natural Resources - Environmental Protection Division documenting an NPDES event which occurred on May 29, 1992. No observed impact to the environment occurred as a result of the event. The NRC was notified of the event by reference 5.

Copies of the 1992 quarterly NPDES Operations Monitoring Reports and the 1992 Flow Monitoring and Characterization Study are included as attachments 2 and 3, respectively.

References: (See next page.)

Enclosure
Annual Environmental Surveillance Report

References:

- 1) Letter HL-2227 dated June 11, 1992
J. T. Beckham, Jr. to the U.S. Nuclear Regulatory Commission
Subject: NPDES Permit Renewal Application
- 2) Letter HL-2929 dated October 1, 1992
J. T. Beckham, Jr. to the U.S. Nuclear Regulatory Commission
Subject: NPDES Permit Renewal Application Revisions
- 3) Letter HL-3082 dated December 21, 1992
J. T. Beckham, Jr. to the U.S. Nuclear Regulatory Commission
Subject: NPDES Permit Renewal
- 4) Letter HL-3169 dated February 17, 1993
J. T. Beckham, Jr. to the U.S. Nuclear Regulatory Commission
Subject: Minor Revisions to Final Issued NPDES Permit
- 5) Letter HL-2260 dated June 11, 1992
J. T. Beckham, Jr. to the U.S. Nuclear Regulatory Commission
Subject: NPDES Permit Noncompliance

Attachment 1

1992 NPDES Event Report

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

Mailing Address
Post Office Box 4545
Atlanta, Georgia 30302

TCM



Georgia Power

the southern electric system

S. D. Holder
Manager
Licensing and Compliance

June 3, 1992

E. I. HATCH NUCLEAR PLANT
NPDES Permit No. GA 0004120

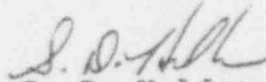
Mr. L. W. Hedges
Program Manager, Industrial Wastewater Program
Georgia EPD
205 Butler Street, SE - Room 1070
Atlanta, Georgia 30334

Dear Mr. Hedges:

Attached is a report on the Hatch Unit 1 cooling tower basin overflow which occurred on May 29, 1992. This incident was reported verbally to EPD by our Mr. G. N. Guill on May 29.

If you have any questions or comments, please advise.

Yours very truly,


S. D. Holder

MEW:kd
Attachment

bc: All With Attachment

J. T. Beckham

W. C. Carr

H. L. Sumner

POW 07-03-05-00

Plant E. I. Hatch
NPDES Permit No. GA 0004120

Description of Event

On May 29, 1992, at approximately 0730 EDT, it was discovered by Plant Hatch personnel that the basins for all three Unit 1 Cooling Towers were overflowing. Approximately 200,000 gallons of cooling water from the basins overflowed onto the ground and entered the yard drainage system which ultimately discharges to the Altamaha River. The overflow ended at approximately 0930 EDT. A representative sample was taken from the circulating water flume and sent for chromium and zinc analysis. Results from the sample have not yet been received. Samples for FAC and TRC were not taken since circulating water system chlorination had not occurred.

The HNP Unit 2 Cooling Towers currently have a permitted discharge point in the above referenced NPDES permit for emergency overflow to storm drains. The Unit 1 Cooling Tower basins do not currently have a permitted emergency overflow point.

Cause of Event

The direct cause of the event is attributed to a combination of the following two conditions:

- 1) Fouling of the screens associated with each tower resulted in a restriction in Cooling Tower return flow to the circulating water flume. These screens remove debris from the cooling water that is recirculated from the Cooling Tower basin to the circulating water flume.
- 2) Redistribution of the flow among the three towers affected the flow conditions in each tower. The redistribution is a result of the modifications made on May 23, 1992 to the operation of the Unit 1 Cooling Towers due to mechanical problems associated with the distribution piping.

The redistribution of cooling water flow in conjunction with fouling of the screens resulted in an increase in Cooling Tower basin water level followed by eventual overflow of the basin rims. The resulting overflow traveled across the ground and entered the HNP yard drain system, which ultimately discharges to the Altamaha River.

Period of Event

The discharge of cooling water from the basins was discovered at approximately 0730 EDT on May 29, 1992. The discharge continued for approximately 2 hours and ended at approximately 0930 EDT.

Actions Taken to Prevent Recurrence

1. The Cooling Tower screens were cleaned and placed back into service. No additional overflowing of the Unit 1 Cooling Tower basins has occurred.
2. Actions will be taken to ensure that chlorination is not conducted when basin overflow could occur.
3. Increased monitoring and inspection of the Cooling Tower screens will be conducted when conditions indicate that fouling may occur.
4. In the event that system conditions result in additional overflows of Unit 1 Cooling Tower basins, Plant Hatch will collect representative samples for zinc, chromium, FAC and TRC as appropriate. Sample results and additional information describing the overflow event will be recorded and submitted to EPD with the quarterly Operations Monitoring Report. This will be a temporary action pending resolution of the Unit 1 Cooling Tower basin overflow issue. It is the intent of Georgia Power Company to pursue the issue of incorporating the Unit 1 Cooling Tower basin emergency overflow as a permitted point in the HNP NPDES Permit.

Attachment 2

1992 NPDES Operations Monitoring Reports

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

Mailing Address
Post Office Box 4545
Atlanta, Georgia 30302

E.02.03

JAM
LPD



Georgia Power

The Southern Electric System

Environmental Affairs

April 15, 1992

OPERATION MONITORING REPORTS

Mr. Lawrence W. Hedges
Program Manager
Industrial Wastewater Program
205 Butler Street, S. E., Room 1070
Atlanta, Georgia 30334

Dear Mr. Hedges:

As required by the following NPDES Permits, we are submitting the Operation Monitoring Reports for each of the power plants for the quarter ending March 31, 1992.

Plant Arkwright	-	NPDES Permit No. GA 0026069
Plant Bowen	-	NPDES Permit No. GA 0001449
Plant Branch	-	NPDES Permit No. GA 0026051
Plant Hammond	-	NPDES Permit No. GA 0001457
Plant Hatch	-	NPDES Permit No. GA 0004120
Plant McDonough/Atkinson	-	NPDES Permit No. GA 0001431
Plant McManus	-	NPDES Permit No. GA 0003794
Plant Mitchell	-	NPDES Permit No. GA 0001465
Plant Scherer	-	NPDES Permit No. GA 0035564
Plant Vogtle	-	NPDES Permit No. GA 0026786
Wallace Dam	-	NPDES Permit No. GA 0035581
Plant Wansley	-	NPDES Permit No. GA 0026778
Plant Yates	-	NPDES Permit No. GA 0001473
Bartlett's Ferry	-	NPDES Permit No. GA 0001490
Tallulah Falls Hydro	-	NPDES Permit No. GA 0001462

While the information contained in this report is a true, accurate, and complete presentation of measurements and analytical results observed, such information is subject to the inherent variabilities to make the measurements and results. Such variabilities and inaccuracies are not within the reasonable control of the permittee. The permittee reserves the right to claim all legal and equitable defenses available to it in connection with any exceedances reflected in this report. For these reasons -- among others -- this report should not be interpreted as an admission by the permittee of permit violations.

If you have questions or comments, please advise.

Yours very truly,

S. D. Holder

GNG:el
Enclosures

bc: C. K. McCoy
J. T. Beckham
C. L. Donaldson
R. L. Boyer
J. L. Conn
H. L. Sumner w/a
J. R. Pope w/a
W. E. Pitts w/a
R. E. Leggett w/a
H. L. Beacher w/a
W. C. Sewell w/a
W. L. Dunlap w/a
P. P. Boren w/a
A. R. James w/a
K. M. Stefanini w/a
J. M. Mostellar w/a
M. J. Knowles w/a
W. B. Shipman w/a
R. L. LeGrand w/a
B. R. Quick w/a
R. A. Pollock w/a
J. H. Jones w/a
W. C. Carr w/a
A. P. Reeves w/a
H. A. Rosenzweig
M. C. Nichols
POW 07-03-01

NPDES: OPERATION MONITORING REPORT

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

From: 01-01-92
To: 03-31-92

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:

01-16-92	0.5	1.7
01-22-92	0.5	1.0
02-04-92	5.9	0.0
02-17-92	4.6	0.0
03-03-92	2.5	0.2
03-19-92	4.8	4.0

Number of Samples:	6	6
Average Value:	3.1	1.2
Maximum Value:	5.9	4.0
Minimum Value:	0.5	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: 01-01-92
 To: 03-31-92

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:		
02-11-92 (A)	1.0	<5
02-11-92 (B)	1.0	<5
02-11-92 (C)	1.0	<5
02-12-92 (D)	<1.0	<5

Number of Samples:	4	4
Average Value:	<1.0	<5
Maximum Value:	1.0	<5
Minimum Value:	<1.0	<5
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

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

From: 01-01-92
 To: 03-31-92

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. (min) (mg/l)	Zinc max. (mg/l)	Chromium max. (mg/l)
Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034
Date:					
01-01-92	<.1	<.1	0 <.1	--	--
01-02-92	--	--	--	<.1	<.1
** 01-08-92	0.1	0.1	0 0.1	--	--
01-15-92	<.1	<.1	0 <.1	--	--
01-22-92	<.1	<.1	0 <.1	--	--
** 01-29-92	<.1	<.1	0 0.1	--	--
02-05-92	<.1	<.1	0 <.1	--	--
02-12-92	<.1	<.1	0 <.1	--	--
02-19-92	<.1	<.1	0 <.1	--	--
02-27-92	<.1	<.1	0 <.1	--	--
03-04-92	<.1	<.1	0 <.1	--	--
03-07-92	<.1	<.1	0 <.1	--	--
03-11-92	<.1	<.1	0 <.1	--	--
03-18-92	<.1	<.1	0 <.1	--	--
03-27-92	<.1	<.1	0 <.1	--	--
Number of Samples:	14	14	14 14	1	1
Avg Value:	<.1	<.1	0 <.1	<.1	<.1
Max Value:	0.1	0.1	0 0.1	<.1	<.1
Min Value:	<.1	<.1	0 <.1	<.1	<.1
Limits Exceeded:	0	0	0 0	0	0

** Background reading. No chlorination activity on this day.

NPDES: OPERATION MONITORING REPORT

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

From: 01-01-92
 To: 03-31-92

Permit Number: GA0004120

Discharge Location: 02A - Cooling Tower Blowdown Unit One

Location: Blowdown Type: Mltpl Grab Frequency: 1/Wk/Unit Parameter: Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max. (mg/l)	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg. (min) (mg/l)	Tower Basin Grab 1/Qtr Zinc max. (mg/l)	Tower Basin Grab 1/Qtr Chromium max. (mg/l)
--	---	---	--	--

Limits:	0.2	0.5	120 N/A	1.0	0.2
Codes:	50064	50064	81400 50060	1092	1034

Date:

01-01-92	<.1	<.1	0	<.1	--	--
01-02-92	--	--	-	--	<.1	<.1
** 01-08-92	0.1	0.1	0	0.1	--	--
01-15-92	<.1	<.1	0	<.1	--	--
** 01-22-92	0.1	0.1	0	0.2	--	--
** 01-29-92	<.1	<.1	0	0.1	--	--
02-05-92	<.1	<.1	0	<.1	--	--
02-12-92	<.1	<.1	0	<.1	--	--
** 02-19-92	<.1	<.1	0	0.1	--	--
02-27-92	<.1	<.1	0	<.1	--	--
03-04-92	<.1	<.1	0	<.1	--	--
03-07-92	<.1	<.1	0	<.1	--	--
03-11-92	<.1	<.1	0	<.1	--	--
03-18-92	<.1	<.1	0	<.1	--	--
03-25-92	<.1	<.1	0	<.1	--	--

Number of Samples:	14	14	14	14	1	1
Avg Value:	<.1	<.1	0	<.1	<.1	<.1
Max Value:	0.1	0.1	0	0.2	<.1	<.1
Min Value:	<.1	<.1	0	<.1	<.1	<.1
Limits Exceeded:	0	0	0	0	0	0

** Background reading. No chlorination activity on this day.

NPDES: OPERATION MONITORING REPORT

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

From: 01-01-92
 To: 03-31-92

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:				
03-03-92 <.1	<.1	0 <.1	--	--
03-30-92 --	--	-- --	<.1	<.1

Number of Samples:	1	1	1	1	1
Avg Value:	<.1	<.1	0	<.1	<.1
Max Value:	<.1	<.1	0	<.1	<.1
Min Value:	<.1	<.1	0	<.1	<.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: 01-01-92
 To: 03-31-92

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: 02-03-92 --	--	-- --	<.1	<.1

Number of					
Samples:	0	0	0	0	1
Avg Value:	0	0	0	0	<.1
Max Value:	0	0	0	0	<.1
Min Value:	0	0	0	0	<.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: 01-01-92
 To: 03-31-92

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: 03-31-92	--	--	--	--
			<.1	<.1

Number of Samples:	0	0	0	0	1	1
Avg Value:	0	0	0	0	<.1	<.1
Max Value:	0	0	0	0	<.1	<.1
Min Value:	0	0	0	0	<.1	<.1
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: 01-01-92
 To: 03-31-92

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:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

Date:

01-14-92	20.0	8.3
01-20-92	9.0	0.0
02-04-92	28.0	17.3
02-18-92	13.9	9.3
03-02-92	5.2	4.3
03-16-92	41.0	26.0

Number of Samples:	5	5
Average Value:	19.5	10.9
Maximum Value:	41.0	26.0
Minimum Value:	5.2	0.0
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

Georgia Power Company
 Plant E.I. Hatch
 P.O. Box 4345
 Atlanta, Georgia 30302

From: 01-01-92
 To: 03-31-92

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:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

Date:

01-06-92	0.8	0.0
01-20-92	0.0	1.5
02-03-92	0.8	0.8
02-17-92	1.9	0.1
03-02-92	0.7	0.0
03-16-92	0.5	1.0

Number of Samples:	6	6
Average Value:	0.8	0.6
Maximum Value:	1.9	1.5
Minimum Value:	0.0	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: 01-01-92
 To: 03-31-92

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:

01-06-92	77	<.1	<.1	8.0
01-13-92	76	<.1	<.1	7.9
01-20-92	64	<.1	<.1	7.5
01-27-92	75	<.1	<.1	7.1
02-03-93	71	<.1	<.1	6.7
02-10-92	60	<.1	<.1	7.4
02-17-92	69	<.1	<.1	7.4
02-24-92	84	<.1	<.1	7.6
03-02-92	77	<.1	<.1	7.5
03-09-92	78	<.1	<.1	7.4
03-16-92	69	<.1	<.1	7.5
03-23-92	80	<.1	<.1	7.3
03-30-92	57	<.1	<.1	7.2

Number of Samples:	13	13	13	13
Average Value:	72	<.1	<.1	7.4
Maximum Value:	84	<.1	<.1	8.0
Minimum Value:	57	<.1	<.1	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: 01-01-92
 To: 03-31-92

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:

01-06-92	68	<.1	<.1	8.1
01-13-92	64	<.1	<.1	7.6
01-20-92	64	<.1	<.1	7.8
01-27-92	60	<.1	<.1	7.3
02-03-92	69	<.1	<.1	7.4
02-10-92	66	<.1	<.1	7.2
02-17-92	78	<.1	<.1	7.7
02-24-92	84	<.1	<.1	7.9
03-02-92	77	<.1	<.1	7.7
03-09-92	73	<.1	<.1	7.2
03-16-92	71	<.1	<.1	7.9
03-23-92	82	<.1	<.1	7.6
03-30-92	78	<.1	<.1	7.9

Number of Samples:	13	13	13	13
Average Value:	72	<.1	<.1	7.6
Maximum Value:	84	<.1	<.1	8.1
Minimum Value:	60	<.1	<.1	7.2
Limits Exceeded:	0	0	0	0


NPDES: OPERATION MONITORING REPORT

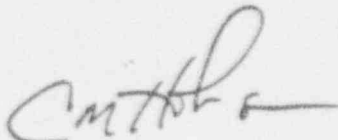
Georgia Power Company
Plant E.I. Hatch
P.O. Box 4545
Atlanta, Georgia 30302

From: 01-01-92
To: 03-31-92

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



C. M. Hobson
Manager Environmental Affairs

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

E.02.03

[Handwritten signature]

Mailing Address:
Post Office Box 4545
Atlanta, Georgia 30302



Georgia Power
the southern electric system™

S. D. Holder
Manager
Licensing and Compliance

July 21, 1992

OPERATION MONITORING REPORTS

Mr. Lawrence W. Hedges
Program Manager
Industrial Wastewater Program
205 Butler Street, S.E., Room 1070
Atlanta, GA 30334

Dear Mr. Hedges:

As required by the following NPDES Permits, we are submitting the Operation Monitoring Reports for each of the power plants for the quarter ending June 30, 1992.

Plant Arkwright	-	NPDES Permit No. GA 0026069
Plant Bowen	-	NPDES Permit No. GA 0001449
Plant Branch	-	NPDES Permit No. GA 0026051
Plant Hammond	-	NPDES Permit No. GA 0001457
Plant Hatch	-	NPDES Permit No. GA 0004120
Plant McDonough/Atkinson	-	NPDES Permit No. GA 0001431
Plant McManus	-	NPDES Permit No. GA 0003794
Plant Mitchell	-	NPDES Permit No. GA 0001465
Plant Scherer	-	NPDES Permit No. GA 0035564
Plant Vogtle	-	NPDES Permit No. GA 0026786
Wallace Dam	-	NPDES Permit No. GA 0035581
Plant Wansley	-	NPDES Permit No. GA 0026778
Plant Yates	-	NPDES Permit No. GA 0001473
Bartlett's Ferry	-	NPDES Permit No. GA 0001490
Tallulah Falls Hydro	-	NPDES Permit No. GA 0001462

While the information contained in this report is true, accurate and complete presentation of measurements and analytical results observed, such information is subject to the inherent variabilities to make the measurements and results. Such variabilities and inaccuracies are not within the reasonable control of the permittee. The permittee reserves the right to claim all legal equitable defenses available to it in connection with any exceedances reflected in this report.

Operation Monitoring Reports

Mr. Lawrence W. Hedges

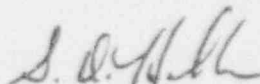
Page 2

July 21, 1992

For these reasons, among others, this report should not be interpreted as an admission by the permittee of permit violations.

If you have questions or comments, please advise.

Yours very truly,


S. D. Holder

GAM/cpd
Enclosure

bc: C. K. McCoy
J. T. Beckham
C. L. Donaldson
R. L. Boyer
J. L. Conn
H. L. Sumner w/attachment
J. R. Pope w/attachment
W. E. Pitts w/attachment
R. E. Leggett w/attachment
W. C. Sewell w/attachment
W. L. Dunlap w/attachment
P. P. Boren w/attachment
A. R. James w/attachment
K. M. Stefanini w/attachment
J. M. Mostellar w/attachment
M. J. Knowles w/attachment
W. B. Shipman w/attachment
R. A. Pollock w/attachment
J. H. Jones w/attachment
W. C. Carr w/attachment
A. P. Reeves w/attachment
F. F. Pitts w/attachment
H. A. Rosenzweig
M. C. Nichols
POW 07-03-01

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NPDES: OPERATION MONITORING REPORT

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

From: 04-01-92
 To: 06-30-92

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:

04-06-92	75	0.2
04-20-92	62	0.0
04-21-92	21	---
04-25-92	3	---
04-26-92	5	---
04-29-92	11	---
05-07-92	14	0.0
05-18-92	4	2.0
06-02-92	3	3.6
06-16-92	5	1.0

Number of Samples:	10	6
Average Value:	20.3	1.1
Maximum Value:	75	3.6
Minimum Value:	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: 04-01-92
 To: 06-30-92

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:

05-05-92 (A)	<1.0	<5
05-05-92 (B)	1.0	<5
05-05-92 (C)	1.0	<5
05-05-92 (D)	1.0	<5

Number of Samples:	4	4
Average Value:	<1.0	<5
Maximum Value:	1.0	<5
Minimum Value:	<1.0	<5
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

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

From: 04-01-92
To: 06-30-92

Permit Number: GA0004120

Discharge Location: 01A - Cooling Tower Blowdown Unit One

Location: Blowdown Type: Mltpl Grab Frequency: 1/Wk/Unit Parameter: Fac	Blowdown Mltpl Grab 1/Wk/Unit Fac max. (mg/l)	Blowdown Mltpl Grab 1/Wk/Unit Total Time of TRC rel & TRC avg. (min) (mg/l)	Tower Basin Grab 1/Qtr Zinc max. (mg/l)	Tower Basin Grab 1/Qtr Chromium max. (mg/l)
Limits: 0.2	0.5	120 N/A	1.0	0.2
Codes: 50064	50064	81400 50060	1092	1034
Date:				
04-01-92 <.1	<.1	0 <.1	--	--
04-02-92 --	--	--	<.1	<.1
04-08-92 <.1	<.1	0 <.1	--	--
* 04-15-92 <.1	<.1	0 0.15	--	--
04-22-92 <.1	<.1	0 <.1	--	--
04-29-92 <.1	<.1	0 <.1	--	--
05-06-92 <.1	<.1	0 <.1	--	--
05-08-92 <.1	<.1	30 0.1	--	--
** 05-13-92 <.1	<.1	0 0.1	--	--
05-20-92 <.1	<.1	0 <.1	--	--
05-27-92 <.1	<.1	0 <.1	--	--
06-03-92 <.1	<.1	0 <.1	--	--
06-12-92 <.1	<.1	0 <.1	--	--
06-17-92 <.1	<.1	0 <.1	--	--
06-24-92 <.1	<.1	0 <.1	--	--
Number of Samples: 14	14	14 14	1	1
Avg Value: <.1	<.1	2 <.1	<.1	<.1
Max Value: <.1	<.1	30 0.1	<.1	<.1
Min Value: <.1	<.1	0 <.1	<.1	<.1
Limits Exceeded: 0	0	0 0	0	0

* Background reading. No circ water chlorination on this day due to system being out of service.

** No chlorination performed. Background reading.

NPDES: OPERATION MONITORING REPORT

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

From: 04-01-92
 To: 06-30-92

Permit Number: GA0004120

Discharge Location: 02A - 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:						
04-01-92	<.1	<.1	0	<.1	--	--
04-02-92	--	--	-	--	<.1	<.1
04-08-92	<.1	<.1	0	<.1	--	--
04-15-92	<.1	<.1	0	<.1	--	--
04-22-92	<.1	<.1	0	<.1	--	--
04-29-92	<.1	<.1	0	<.1	--	--
05-06-92	<.1	<.1	0	<.1	--	--
05-13-92	<.1	<.1	0	<.1	--	--
05-21-92	<.1	<.1	0	<.1	--	--
05-27-92	<.1	<.1	0	<.1	--	--
06-03-92	<.1	<.1	0	<.1	--	--
06-12-92	<.1	<.1	0	<.1	--	--
06-17-92	<.1	<.1	0	<.1	--	--
06-25-92	<.1	<.1	0	<.1	--	--

Number of						
Samples:	14	14	14	14	1	1
Avg Value:	<.1	<.1	0	<.1	<.1	<.1
Max Value:	<.1	<.1	0	<.1	<.1	<.1
Min Value:	<.1	<.1	0	<.1	<.1	<.1
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: 04-01-92
 To: 06-30-92

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: 05-20-92 --	--	-- --	<.1	<.1

Number of Samples:	0	0	0	0	1	1
Avg Value:	0	0	0	0	<.1	<.1
Max Value:	0	0	0	0	<.1	<.1
Min Value:	0	0	0	0	<.1	<.1
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: 04-01-92
 To: 06-30-92

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: 05-18-92 --	--	-- --	<.1	<.1

Number of					
Samples:	0	0	0	0	1
Avg Value:	0	0	0	0	<.1
Max Value:	0	0	0	0	<.1
Min Value:	0	0	0	0	<.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: 04-01-92
 To: 06-30-92

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: 06-16-92 --	--	-- --	<.1	<.1

Number of Samples:	0	0	0	0	1	1
Avg Value:	0	0	0	0	<.1	<.1
Max Value:	0	0	0	0	<.1	<.1
Min Value:	0	0	0	0	<.1	<.1
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: 04-01-92
 To: 06-30-92

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:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

Date:

04-06-92	17.3	6.7
04-19-92	8.5	5.0
05-05-92	4.3	2.2
05-19-92	23.0	7.0
06-02-92	3.4	1.9
06-16-92	17.5	11.2

Number of Samples:	6	6
Average Value:	12.3	5.6
Maximum Value:	23.0	11.2
Minimum Value:	3.4	1.9
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

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

From: 04-01-92
To: 06-30-92

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:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

Date:

04-06-92	0.1	0.0
04-20-92	0.3	0.0
05-04-92	0.7	0.0
05-18-92	0.2	0.5
06-02-92	0.3	1.0
06-17-92	0.3	9.1

Number of Samples:	6	6
Average Value:	0.3	1.8
Maximum Value:	0.7	9.1
Minimum Value:	0.1	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: 04-01-92
 To: 06-30-92

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:

04-06-92	75	<.1	<.1	7.6
04-13-92	73	<.1	<.1	7.5
04-20-92	78	<.1	<.1	7.5
04-27-92	78	<.1	<.1	7.5
05-04-93	66	<.1	<.1	6.9
05-11-92	80	<.1	<.1	7.2
05-18-92	76	<.1	<.1	8.2
05-25-92	75	<.1	<.1	7.4
06-01-92	82	<.1	<.1	7.4
06-08-92	87	<.1	<.1	8.2
06-15-92	93	<.1	<.1	7.2
06-22-92	84	<.1	<.1	7.4
06-29-92	86	<.1	<.1	7.1

Number of Samples:	13	13	13	13
Average Value:	79	<.1	<.1	7.5
Maximum Value:	93	<.1	<.1	8.2
Minimum Value:	66	<.1	<.1	6.9
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: 04-01-92
 To: 06-30-92

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:

04-06-92	75	<.1	<.1	7.6
04-13-92	82	<.1	<.1	7.2
04-20-92	86	<.1	<.1	7.3
04-27-92	75	<.1	<.1	7.4
05-04-92	68	<.1	<.1	7.1
05-11-92	77	<.1	<.1	7.0
05-18-92	78	<.1	<.1	7.9
05-25-92	87	<.1	<.1	8.4
06-01-92	86	<.1	<.1	7.6
06-08-92	87	<.1	<.1	7.8
06-15-92	80	<.1	<.1	7.1
06-22-92	86	<.1	<.1	7.9
06-29-92	86	<.1	<.1	7.4

Number of Samples:	13	13	13	13
Average Value:	81	<.1	<.1	7.5
Maximum Value:	87	<.1	<.1	8.4
Minimum Value:	68	<.1	<.1	7.0
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: 04-01-92
To: 06-30-92

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

PLANT E. I. HATCH NPDES LOG

DATE/TIME EVENT BEGAN	ANTICIPATED OR ACTUAL DATE / TIME CEASES	APPROX. FLOW RATE	CAUSE AND ACTION TAKEN TO REDUCE / ELIMINATE / PREVENT RECURRENCE	SAMPLES TAKEN	SAMPLE RESULTS
29 May 92/0730	29 May 92/0930	1700 gpm	The screens to the Unit One Cooling	Cr, Zn	<0.1 Cr
			Towers fouled causing the basins		<0.1 Zn
			to overflow. Flume level was		
			lowered and the screens cleaned		
			dropping water level below basin		
			rim. Screens are to be monitored		
			to detect possible fouling to		
			mitigate chance of further		
			overflows. Five day written report		
			submitted to State EPD/DNR.		

GENERAL MANAGER
NUCLEAR PLANT

James Summer

PLANT E. I. HATCH

NPDES LOG

DATE/TIME EVENT BEGAN	ANTICIPATED OR ACTUAL DATE / TIME CEASES	APPROX. FLOW RATE	CAUSE AND ACTION TAKEN TO REDUCE / ELIMINATE / PREVENT RECURRENCE	SAMPLES TAKEN	SAMPLE RESULTS
6/30/92 1420	6/30/92 1510	500 gpm	Unit One 1C Cooling Tower Basin	Cr , Zn	See note
			overflowing due to fouled screens		
			Sample taken, Unit 1 Shift Super.		
			notified. Flume lowered to drop		
			basin level until screens can be		
			cleaned. Chlorination was not in		
			progress. Southern Nuclear Env.		
			Services personnel notified.		
			No other action required.		

Note: Sample results to be filed with next
quarters report due to time constraints.

GENERAL MANAGER
NUCLEAR PLANT

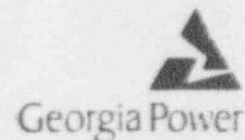
Jerry Sumner

Georgia Power Company
303 Piedmont Avenue
Atlanta, Georgia 30308
Telephone 404 526-6126

Mailing Address
Post Office Box 4545
Atlanta, Georgia 30302

S. D. Holder
Manager
Licensing and Compliance

October 21, 1992



the southern electric system

LPD
E.02.03

OPERATION MONITORING REPORTS

Mr. Lawrence W. Hedges
Program Manager
Industrial Wastewater Program
205 Butler Street, S.E., Room 1070
Atlanta, GA 30334

Dear Mr. Hedges:

As required by the following NPDES Permits, we are submitting the Operation Monitoring Reports for each of the power plants for the quarter ending September 30, 1992.

Plant Arkwright	-	NPDES Permit No. GA 0026069
Plant Bowen	-	NPDES Permit No. GA 0001449
Plant Branch	-	NPDES Permit No. GA 0026051
Plant Hammond	-	NPDES Permit No. GA 0001457
Plant Hatch	-	NPDES Permit No. GA 0004120
Plant McDonough/Atkinson	-	NPDES Permit No. GA 0001431
Plant McManus	-	NPDES Permit No. GA 0003794
Plant Mitchell	-	NPDES Permit No. GA 0001465
Plant Scherer	-	NPDES Permit No. GA 0035564
Plant Vogtle	-	NPDES Permit No. GA 0026786
Wallace Dam	-	NPDES Permit No. GA 0035581
Plant Wansley	-	NPDES Permit No. GA 0026778
Plant Yates	-	NPDES Permit No. GA 0001473
Bartlett's Ferry	-	NPDES Permit No. GA 0001490
Tallulah Falls Hydro	-	NPDES Permit No. GA 0001462

While the information contained in this report is a true, accurate, and complete presentation of measurements and analytical results observed, such information is subject to the inherent variabilities to make the measurements and results. Such variabilities and inaccuracies are not within the reasonable control of the permittee. The permittee reserves the right to claim all legal and equitable defenses available to it in connection with any exceedances reflected in this report.

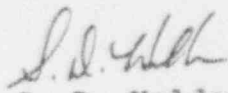
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OCT 21 1992
ATLANTA
SERIALS

Mr. Lawrence W. Hedges
Page 2
October 21, 1992

For these reasons, among others, this report should not be interpreted as an admission by the permittee of permit violations.

If you have questions or comments, please advise.

Yours very truly,


S. D. Holder

GNG:gg
Enclosures

bc: C. K. McCoy
J. T. Beckham
C. L. Donaldson
R. L. Boyer
J. L. Conn
H. L. Sumner w/attachment
J. R. Pope w/attachment
W. E. Pitts w/attachment
R. E. Leggett w/attachment
W. C. Sewell w/attachment
W. L. Dunlap w/attachment
P. P. Boren w/attachment
A. R. James w/attachment
K. M. Stefanini w/attachment
J. M. Mostellar w/attachment
M. J. Knowles w/attachment
W. B. Shipman w/attachment
R. A. Pollock w/attachment
J. H. Jones w/attachment
W. C. Carr w/attachment
A. P. Reeves w/attachment
F. F. Pitts w/attachment
H. A. Rosenzweig
M. C. Nichols

POW 07-03-01-00

H:\USER\GNG\ULL\WPDEF\OMR10-92.LTR

NPDES: OPERATION MONITORING REPORT

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

From: 07-01-92
To: 09-30-92

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:

07-08-92	23	1.4
07-23-92	29	0.0
08-04-92	19	2.8
08-17-92	1	1.7
09-08-92	29	0.7
09-25-92	13	0.0

Number of Samples:	6	6
Average Value:	19	1.1
Maximum Value:	29	2.8
Minimum Value:	1	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: 07-01-92
 To: 09-30-92

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:

08-11-92 (A)	1	<5
08-11-92 (B)	4	<5
08-11-92 (C)	7	<5
08-11-92 (D)	2	<5

Number of Samples:	4	4
Average Value:	4	<5
Maximum Value:	7	<5
Minimum Value:	1	<5
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

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

From: 07-01-92
To: 09-30-92

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:				
07-01-92 <.1	<.1	0 <.1	--	--
07-01-92 --	--	- --	<.1	<.1
07-08-92 <.1	<.1	0 <.1	--	--
07-15-92 <.1	<.1	0 <.1	--	--
07-22-92 <.1	<.1	0 <.1	--	--
** 07-30-92 0	0	0 0	--	--
08-05-92 0	0	0 0	--	--
08-12-92 0	0	0 0	--	--
08-19-92 0	0	0 0	--	--
08-26-92 0	0	0 0	--	--
09-03-92 0	0	0 0	--	--
09-09-92 0	0	0 0	--	--
09-23-92 0	0	0 0	--	--
Number of				
Samples: 12	12	12 12	1	1
Avg Value: <.1	<.1	0 <.1	<.1	<.1
Max Value: <.1	<.1	0 <.1	<.1	<.1
Min Value: 0	0	0 0	<.1	<.1
Limits				
Exceeded: 0	0	0 0	0	0

** Amperometric Titrator placed into service.

NPDES: OPERATION MONITORING REPORT

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

From: 07-01-92
To: 09-30-92

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:				
07-01-92 <.1	<.1	0 <.1	--	--
07-01-92 --	--	- --	<.1	<.1
07-08-92 <.1	<.1	0 <.1	--	--
07-15-92 <.1	<.1	0 <.1	--	--
07-22-92 <.1	<.1	0 <.1	--	--
** 07-30-92 0	0	0 0	--	--
08-06-92 0	0	0 0	--	--
08-13-92 0	0	0 0	--	--
08-20-92 0	0	0 0	--	--
08-26-92 0	0	0 0	--	--
09-03-92 0	0	0 0	--	--
09-09-92 0	0	0 0	--	--
09-16-92 0	0	0 0	--	--
* 09-23-92 *	*	* *	--	--
* 09-30-92 *	*	* *	--	--
Number of Samples: 12	12	12 12	1	1
Avg Value: <.1	<.1	0 <.1	<.1	<.1
Max Value: <.1	<.1	0 <.1	<.1	<.1
Min Value: 0	0	0 0	<.1	<.1
Limits Exceeded: 0	0	0 0	0	0

** Amperometric Titrator placed into service.
* Unit Two in outage. No sample available.

NPDES: OPERATION MONITORING REPORT

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

From: 07-01-92
 To: 09-30-92

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: 08-27-92 0	0	0 0	<.1	<.1

Number of					
Samples:	1	1	1	1	1
Avg Value:	0	0	0	0	<.1
Max Value:	0	0	0	0	<.1
Min Value:	0	0	0	0	<.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: 07-01-92
 To: 09-30-92

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:				
07-02-92 --	--	-- --	.2	<.1

Number of Samples:	0	0	0	0	1	1
Avg Value:	0	0	0	0	.2	<.1
Max Value:	0	0	0	0	.2	<.1
Min Value:	0	0	0	0	.2	<.1
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: 07-01-92
 To: 09-30-92

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: 08-02-92 --	--	-- --	<.1	<.1

Number of Samples:	0	0	0	0	1	1
Avg Value:	0	0	0	0	<.1	<.1
Max Value:	0	0	0	0	<.1	<.1
Min Value:	0	0	0	0	<.1	<.1
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: 07-01-92
 To: 09-30-92

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:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

Date:

07-06-92	17	2.0
07-20-92	4	0.0
08-03-92	31	8.3
08-17-92	18	4.7
09-07-92	8	8.8
09-21-92	24	12.4

Number of Samples:	6	6
Average Value:	17	6.0
Maximum Value:	31	12.4
Minimum Value:	4	0.0
Limits Exceeded:	0	0

August 18, 1992 Discharge of 5,966 gallons of water with a nitrite concentration of 10 ppm was discharged via radwaste with a final discharge concentration of 41 ppb. State notified of discharge.

August 28, 1992 Discharge of 11,520 gallons of water with a nitrite concentration of 33 ppb was discharged via radwaste with a final discharge concentration of 0.11 ppb. State notified of discharge.

NPDES: OPERATION MONITORING REPORT

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

From: 07-01-92
 To: 09-30-92

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:	Suspended Solids mg/l	Oil & Grease mg/l
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20

Date:

07-06-92	3	0.5
07-20-92	1	0.0
08-03-92	1	1.0
08-17-92	0	1.5
09-07-92	1	0.0
09-21-92	1	2.3

Number of Samples:	6	6
Average Value:	1	0.8
Maximum Value:	3	2.3
Minimum Value:	0	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: 07-01-92
 To: 09-30-92

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:

07-06-92	89	<.1	<.1	7.5
07-13-92	93	<.1	<.1	7.1
07-20-92	89	<.1	<.1	7.0
07-27-92	96	<.1	<.1	7.6
08-03-92	89	<.1	<.1	8.2
08-10-92	91	<.1	<.1	7.7
08-18-92	91	<.1	<.1	7.9
08-25-92	84	<.1	<.1	6.8
08-31-92	84	<.1	<.1	7.0
09-07-92	91	<.1	<.1	7.4
09-14-92	82	<.1	<.1	7.1
09-21-92	81	<.1	<.1	7.2
09-28-92	78	<.1	<.1	7.3

Number of Samples:	13	13	13	13
Average Value:	88	<.1	<.1	7.4
Maximum Value:	93	<.1	<.1	8.2
Minimum Value:	78	<.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: 07-01-92
 To: 09-30-92

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:

	91	<.1	<.1	8.3
07-06-92	91	<.1	<.1	7.6
07-13-92	93	<.1	<.1	7.4
07-20-92	95	<.1	<.1	7.1
07-27-92	89	<.1	<.1	8.2
08-03-92	93	<.1	<.1	7.8
08-10-92	84	<.1	<.1	7.2
08-18-92	86	<.1	<.1	6.9
08-25-92	86	<.1	<.1	7.0
08-31-92	91	<.1	<.1	7.4
09-07-92	82	<.1	<.1	7.2
09-14-92	82	<.1	<.1	7.4
09-21-92	75	<.1	<.1	7.4
09-28-92				

Number of Samples:	13	13	13	13
Average Value:	88	<.1	<.1	7.5
Maximum Value:	93	<.1	<.1	8.3
Minimum Value:	75	<.1	<.1	6.9
Limits Exceeded:	0	0	0	0

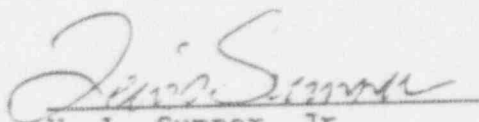
NPDES: OPERATION MONITORING REPORT

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

From: 07-01-92
To: 09-30-92

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

JEM
LAD

Georgia Power

S.D. Holder

January 20, 1993

OPERATION MONITORING REPORTS

Mr. Lawrence W. Hedges
 Program Manager
 Industrial Wastewater Program
 205 Butler Street, S.E., Room 1070
 Atlanta, GA 30334

Dear Mr. Hedges:

As required by the following NPDES Permits, we are submitting the Operation Monitoring Reports for each of the power plants for the quarter ending December 31, 1992.

Plant Arkwright	-	NPDES Permit No. GA 0026069
Plant Bowen	-	NPDES Permit No. GA 0001449
Plant Branch	-	NPDES Permit No. GA 0026051
Plant Hammond	-	NPDES Permit No. GA 0001457
Plant Hatch	-	NPDES Permit No. GA 0004120
Plant McDonough/Atkinson	-	NPDES Permit No. GA 0001431
Plant McManus	-	NPDES Permit No. GA 0003794
Plant Mitchell	-	NPDES Permit No. GA 0001465
Plant Scherer	-	NPDES Permit No. GA 0035564
Plant Vogtle	-	NPDES Permit No. GA 0026786
Wallace Dam	-	NPDES Permit No. GA 0035581
Plant Wansley	-	NPDES Permit No. GA 0026778
Plant Yates	-	NPDES Permit No. GA 0001473
Bartlett's Ferry	-	NPDES Permit No. GA 0001490
Tallulah Falls Hydro	-	NPDES Permit No. GA 0001462

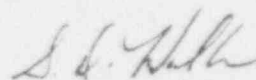
While the information contained in this report is a true, accurate, and complete presentation of measurements and analytical results observed, such information is subject to the inherent variabilities to make the measurements and results. Such variabilities and inaccuracies are not within the reasonable control of the permittee. The permittee reserves the right to claim all legal and equitable defenses available to it in connection with any exceedances reflected in this report.

Mr. Lawrence W. Hedges
Page 2
January 20, 1993

For these reasons, among others, this report should not be interpreted as an admission by the permittee of permit violations.

If you have questions or comments, please advise.

Yours very truly,


S. D. Holder

GNG:gg
Enclosures

bc: C. K. McCoy
J. T. Beckham
R. L. Boyer
J. L. Conn
H. L. Sumner w/attachment
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F. F. Pitts w/attachment
H. A. Rosenzweig
M. C. Nichols w/attachment

POW 07-03-01-00

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NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
 To: 12-31-92

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:

10-13-92	3.3	0.0
10-20-92	1.6	3.6
11-07-92	28.1	0.5
11-16-92	1.1	0.0
12-11-92	2.1	0.5
12-28-92	3.5	0.0

Number of Samples:	6	6
Average Value:	6.6	0.8
Maximum Value:	28.1	3.6
Minimum Value:	1.1	0.0
Limits Exceeded:	0	0

NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
 To: 12-31-92

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:	(530)	(550)
* 10-22-92 (C)	1	<5
11-04-92 (A)	--	<5
11-04-92 (B)	--	<5
11-04-92 (C)	--	<5
11-04-92 (D)	--	<5
11-16-92 (A)	2	--
11-16-92 (B)	3	--
11-16-92 (C)	7	--
11-16-92 (D)	7	--

Number of Samples:	5	5
Average Value:	4	<5
Maximum Value:	7	<5
Minimum Value:	1	<5
Limits Exceeded:	0	0

Note: * EPD Compliance Audit samples.

NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
To: 12-31-92

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:					
* 10-01-92	<.1	<.1	0 <.1	--	--
10-07-92	0	0	0 0	--	--
10-14-92	0	0	0 0	--	--
* 10-21-92	<.1	<.1	0 <.1	--	--
* 10-28-92	<.1	<.1	0 <.1	--	--
11-04-92	0	0	0 0	--	--
11-11-92	0	0	0 0	--	--
11-18-92	0	0	0 0	--	--
11-26-92	0	0	0 0	0	0
12-02-92	0	0	0 0	--	--
12-09-92	0	0	0 0	--	--
12-16-92	0	0	0 0	--	--
12-23-92	0	0	0 0	--	--
12-30-92	0	0	0 0	--	--
Number of Samples:	14	14	14 14	1	1
Avg Value:	<.1	<.1	0 <.1	0	0
Max Value:	<.1	<.1	0 <.1	0	0
Min Value:	0	0	0 0	0	0
Limits Exceeded:	0	0	0 0	0	0

* Note: DPD method used for analysis.

NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
To: 12-31-92

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:				
* 10-06-92	--	--	--	--
* 10-07-92	--	--	--	--
* 10-14-92	--	--	--	--
* 10-21-92	--	--	--	--
* 10-22-92	--	--	--	--
* 10-25-92	--	--	--	--
* 11-04-92	--	--	--	--
11-11-92	0	0	0	--
11-18-92	0	0	0	--
11-27-92	0	0	0	0
12-02-92	0	0	0	--
12-09-92	0	0	0	--
12-16-92	0	0	0	--
12-23-92	0	0	0	--
12-30-92	0	0	0	--
Number of				
Samples: 8	8	8	8	1
Avg Value: 0	0	0	0	0
Max Value: 0	0	0	0	0
Min Value: 0	0	0	0	0
Limits				
Exceeded: 0	0	0	0	0

* Unit Two in outage. No water in flume.

NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
To: 12-31-92

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:				
* 10-13-92 --	--	-- --	<.1	<.1
10-30-92 0.1	0.4	100 0.2	--	--
12-16-92 --	--	-- --	0	0

Number of						
Samples:	1	1	1	1	2	2
Avg Value:	0.1	0.4	100	0.2	0	0
Max Value:	0.1	0.4	100	0.2	0	0
Min Value:	0.1	0.4	100	0.2	0	0
Limits						
Exceeded:	0	0	0	0	0	0

* Note: EPD Compliance Audit samples.

NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
To: 12-31-92

Permit Number: GA0004120

** Discharge Location: 011 - 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 point during this report period.

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

** Note: This discharge point became effective 12-01-92.

NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
 To: 12-31-92

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:
 There were no discharges from this point during this report period.

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

** Note: This discharge point became effective 12-01-92.

NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
 To: 12-31-92

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:				
11-10-92 --	--	-- --	0	0
11-30-92 --	--	-- --	0	0

Discharges occurred during periods of no chlorination.

Number of					
Samples:	0	0	0	2	2
Avg Value:	0	0	0	0	0
Max Value:	0	0	0	0.1	<.1
Min Value:	0	0	0	0	0
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: 10-01-92
 To: 12-31-92

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. (min) (mg/l)	Zinc max. (mg/l)	Chromium max. (mg/l)	
Limits:	0.2 (mg/l)	0.5 (mg/l)	120 N/A	1.0 (mg/l)	0.2 (mg/l)	
Codes:	50064	50064	81400 50060	1092	1034	
Date:	10-22-92	--	--	--	<.1	
	--	--	--	--	<.1	

Discharge occurred during a period of no chlorination

Number of					1	1
Samples:	0	0	0	0	<.1	<.1
Avg Value:	0	0	0	0	<.1	<.1
Max Value:	0	0	0	0	<.1	<.1
Min Value:	0	0	0	0	<.1	<.1
Limits						0
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: 10-01-92
 To: 12-31-92

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 mg/1	O & G mg/1	Nitrite (Chill Water) Releases to discharge point OSN 01			
Limits:	Avg. 30 Max. 100	Avg. 15 Max. 20	Initial Conc. (ppm)	Amount Drained (gallons)	Dilution Flow rate (gpm)	Final Conc. (ppb)
Date:						
10-05-92	8	5.7	--	--	--	--
10-20-92	11	4.0	--	--	--	--
11-02-92	4	1.9	--	--	--	--
11-16-92	9	2.4	--	--	--	--
12-07-92	13	3.5	--	--	--	--
12-21-92	12	0.0	--	--	--	--
12-22-92	--	--	0.2	6960	14,000	0.9

Number of Samples :	6	6	1	1	1	1
Average Value:	10	2.9	0.2	6960	14,000	0.9
Maximum Value:	13	5.7	0.2	6960	14,000	0.9
Minimum Value:	4	0.0	0.2	6960	14,000	0.9
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: 10-01-92
 To: 12-31-92

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/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:

10-05-92	0	0	--	--	--	--
10-17-92	--	--	10	5621	13,000	47
10-17-92	--	--	80	5160	13,000	400
10-20-92	5	1.4	--	--	--	--
11-02-92	9	9.3	--	--	--	--
11-16-92	8	0.0	--	--	--	--
12-07-92	2	4.5	--	--	--	--
12-21-92	3	0.5	--	--	--	--

Number of Samples :	6	6	2	2	2	2
Average Value:	10	2.9	45	5391	13,000	224
Maximum Value:	13	5.7	80	5621	13,000	400
Minimum Value:	4	0.0	10	5160	13,000	47
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: 10-01-92
 To: 12-31-92

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:

		<.1	<.1	7.0
10-05-92	75	<.1	<.1	6.9
10-12-92	75	0.0	0.0	7.9
10-19-92	75	<.1	<.1	8.2
10-26-92	77	<.1	<.1	--
* 10-30-92	--	<.1	<.1	7.3
11-02-92	81	<.1	<.1	8.0
11-09-92	71	<.1	<.1	7.4
11-16-92	66	<.1	<.1	7.5
11-23-92	84	<.1	<.1	6.2
11-30-92	62	0	0	6.1
12-07-92	60	0	0	7.3
12-14-92	77	0	0	7.1
12-21-92	78	0	0	7.1
12-28-92	68			

Number of Samples:	13	13	13	13
Average Value:	73	<.1	<.1	7.2
Maximum Value:	84	<.1	<.1	8.2
Minimum Value:	60	0	0	6.1
Limits Exceeded:	0	0	0	0

* Note: Sample taken to verify no leakby of F200 blowdown valve.

NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
 To: 12-31-92

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:

10-05-92	70	<.1	<.1	7.2
10-12-92	69	<.1	<.1	7.0
10-19-92	68	0	0	7.1
10-26-92	69	<.1	<.1	7.6
11-02-92	73	<.1	<.1	7.7
11-09-92	62	<.1	<.1	7.6
11-16-92	62	<.1	<.1	7.1
11-23-92	78	<.1	<.1	7.3
11-30-92	69	<.1	<.1	7.1
12-07-92	60	0	0	6.3
12-14-92	73	0	0	7.1
12-21-92	80	0	0	7.6
12-28-92	73	0	0	7.6

Number of Samples:	13	13	13	13
Average Value:	67	<.1	<.1	7.3
Maximum Value:	80	<.1	<.1	7.7
Minimum Value:	60	0	0	6.3
Limits Exceeded:	0	0	0	0

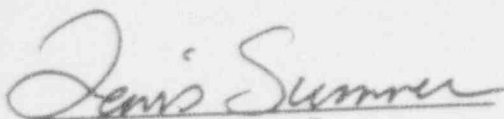
NPDES: OPERATION MONITORING REPORT

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

From: 10-01-92
To: 12-31-92

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

1992 Flow Monitoring and Characterization Study

Georgia Power Company
3115 Peachtree 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 5, 1993

NPDES PERMIT REQUIREMENTS

Flow Monitoring and Characterization Studies
Annual Priority Pollutant Certification

Mr. Lawrence W. Hedges
Program Manager
Industrial Waste Water Program
205 Butler Street, S. E., Room 1070
Atlanta, Georgia 30334

Dear Mr. Hedges:

As required by the following NPDES Permits, attached are the subject studies for the referenced plants:

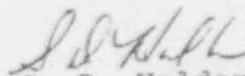
Plant Arkwright	- NPDES Permit No. GA0026069
Plant Bowen	- NPDES Permit No. GA0001449
Plant Branch	- NPDES Permit No. GA0026051
Plant Hammond	- NPDES Permit No. GA0001457
Plant Hatch	- NPDES Permit No. GA0004120
Plant Vogtle	- NPDES Permit No. GA0026786
Plant McDonough/Atkinson	- NPDES Permit No. GA0001431
Plant Mitchell	- NPDES Permit No. GA0001465
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 manufacturer's certification for their products and this certification 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 Wansley	- NPDES Permit No. GA0026778
Plant Yates	- NPDES Permit No. GA0001473
Plant Hatch	- NPDES Permit No. GA0004120
Plant Vogtle	- NPDES Permit No. GA0026786

If you have any questions or comments, please advise.

Yours very truly,


S. D. Holder

GNG:gg
Attachments

THAT *File* *E.02.01*

Georgia Power
the southern electric system

bc: C. K. McCoy
J. T. Beckham
J. L. Conn
R. L. Boyer
P. P. Boren w/a
A. R. James w/a
K. M. Stefanini w/a
J. M. Mostellar w/a
A. P. Reeves w/a
M. D. Kee w/a
H. L. Sumner w/a
R. E. Leggett w/a
W. C. Sewell w/a
J. H. Jones w/a
W. B. Shipman w/a

~~W. C. Phillips~~ w/a
W. C. Phillips w/a
POW 07-02-01-00 w/a
POW 07-02-02-00 w/a
POW 07-02-03-00 w/a
POW 07-02-04-00 w/a
POW 07-02-05-00 w/a
POW 07-02-07-00 w/a
POW 07-02-09-00 w/a
POW 07-02-11-00 w/a
POW 07-02-12-00 w/a
POW 07-02-13-00 w/a

HAUSERSONGULLINPDESFLOWPPC LTR

PLANT E.I. HATCH

NPDES FLOW CHARACTERIZATION STUDY

1992

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 January 29, 1988.

BACKGROUND

This study was conducted on the NPDES permitted waste streams using data collected during the time period of July 1 to July 14, 1992. 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.

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.

7. 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.

8. 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.

9. 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.
10. 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.

11. 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.
12. 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.
13. 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.
14. 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.
15. 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.

PLANT E.I. HATCH

NPDES FLOW CHARACTERIZATION STUDY (CON'T)

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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	1,400 (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	4 (c)
01A Cooling Tower Blowdown (Unit One)	34,000 (f)	1,050
02A Cooling Tower Blowdown (Unit Two)	34,000 (f)	862
01B Cooling Water Overflow (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	9 (d)
02E Low Volume Waste, Liquid Radwaste (Unit Two)	100	9 (e)
01 Combined Plant Waste Streams (Unit One)	50,000	16,143
02 Combined Plant Waste Streams (Unit Two)	50,000	12,071
03 Intake Screen Backwash	500	412 (g)
04 2P65 Chiller Water Blowdown	500	5 (h)
01F Sewage Treatment Plant	50	18

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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, 207,900 gallons were discharged in 11 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, 190,417 gallons of waste water were discharged from the Unit One mixing chamber in 30 batches.
- (e) During the sample period, 189,897 gallons of waste water were discharged from the Unit Two mixing chamber in 36 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 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.

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WATER TREATMENT CHEMICAL INVENTORY

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

1. ALS-345-220 Corrosion Inhibitor
2. Borax
3. Boric Acid
4. Orthophosphate
5. Calgon H-640
6. Sanuril 115 (Calcium Hypochlorite)
7. Sodium Hydroxide
8. Sodium Hypochlorite
9. Sodium Nitrite
10. Sodium Pentaborate
11. Sulfuric Acid

PLANT E. I. HATCH NPDES FLOW CHARACTERIZATION STUDY

