

Georgia Power Company  
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Birmingham, Alabama 35242  
Telephone 205 870-6011

Mailing Address:  
Post Office Box 1295  
Birmingham, Alabama 35201



Georgia Power

the southern electric system

Nuclear Operations Department

October 1, 1992

HL-2929  
0003562

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

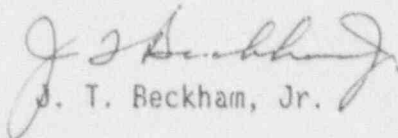
PLANT HATCH - UNITS 1 and 2  
NRC DOCKETS 50-321, 50-366  
OPERATING LICENSES, DPR-57, NPF-5  
NPDES PERMIT RENEWAL APPLICATION REVISIONS

Gentlemen:

By letter dated June 11, 1992, GPC transmitted a copy of the Plant Hatch National Pollutant Discharge Elimination System Permit renewal application. Based on discussions with the State of Georgia, Department of Natural Resources, Environmental Protection Division personnel, revisions to the application were submitted to the state. In accordance with Plant Hatch Units 1 and 2 Environmental Technical Specification Section 5.6.3.2, enclosed is a copy of the letter transmitting the permit renewal application revisions.

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

Sincerely,

  
J. T. Beckham, Jr.

SRM/id  
3562

Enclosure: Letter Dated September 4, 1992 to Mr. Lawrence W. Hedges, Subject  
NPDES Permit No. GA0004120 Application for Permit Renewal

cc: Georgia Power Company (w/o encl)  
Mr. H. L. Sumner, General Manager - Nuclear Plant  
NORMS (w/encl)

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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PDR

1023 1/1

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

Mailing Address  
Post Office Box 4548  
Atlanta, Georgia 30302



Georgia Power

S. D. Holder  
Manager  
Licensing and Compliance

September 4, 1992

**PLANT HATCH**

NPDES Permit No. GA0004120  
Application for Permit Renewal

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

Dear Mr. Hedges:

The above referenced permit application was included with our submittal to EPD dated May 29, 1992. Mr. Larry P. Kloet met with representatives of Georgia Power Company and Southern Nuclear Operating Company on July 29, 1992 to discuss the Plant Hatch application. During that discussion several revisions to the permit application were discussed. Mr. Kloet requested that we provide revised pages of the Form 2C, site map, and process flow drawings.

Attached are corrected pages 1 and 2 of the Form 2C and a table describing intermittent flows in accordance with Form 2C Section II.C. Discharge OSN-01J, Unit 1 Cooling Tower Basin Overflow to Storm Drains, has been added. Also attached are two copies of the revised NPDES Site Plan Map and flow diagram. Analyses of sludge samples from the Plant Hatch sewage treatment plant, required as a condition of the Sludge Management Plan which was submitted with the NPDES Permit application package are also attached. These analyses have only recently been completed. Please include these revisions with our NPDES permit application for Plant Hatch.

In accordance with our discussions with Mr. Kloet, we propose the following language for addition to Part II.B of the permit to support draining of closed loop chiller water containing sodium nitrite corrosion inhibitor through the existing liquid radwaste discharge (OSN 01E and 02E). EPD approval has been obtained in the past for draining of chiller water via this discharge. Draining occurs infrequently and is normally associated with maintenance operations. Concentration of nitrite in these systems is maintained within a range of 500 - 2000 ppm; the maximum drainage flow is 65 gpm. This Special Requirement is requested to eliminate the

Mr. Lawrence Hedges

Page 2

September 4, 1992

need for prior EPD approval of this operation. Documentation of each draining event will be included with the quarterly Operations Monitoring Report submittal.

Proposed Special Requirement Condition

The permittee may drain chiller water containing sodium nitrite corrosion inhibitor through the existing permitted low volume waste discharge (OSN 01E and/or 02E). Each draining event shall be documented on the quarterly Operations Monitoring Report and shall include the initial nitrite concentration, the amount drained, the available dilution flow rate, and the estimated nitrite concentration at the applicable Combined Plant Waste Stream discharge (OSN 01 and/or 02).

Part II.A.2 of the existing permit contains "boilerplate language" which requires the submittal of a written report within 5 days of discovery of noncompliance with any daily maximum effluent limitation specified in the permit. There is currently no provision available in the permit to allow EPD to waive this requirement. Federal regulations at 40 CFR 122.41(1)(6)(iii) provide for waiver, on a case-by-case basis, of the 5 day written report if an oral report is made within 24 hours of discovery on the noncompliance. The following language is proposed for addition to Part III.B to allow the waiver of the 5 day written report at the discretion of EPD.

Proposed Special Condition Requirement

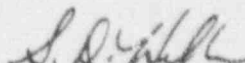
The provisions of 40 CFR 122.41(1)(6)(iii) regarding waiver of the 5 day written report required by Part II.A.2 of this permit shall be applicable and may be implemented on a case-by-case basis by EPD for

Mr. Lawrence Hedges  
Page 3  
September 4, 1992

noncompliances which are orally reported by the  
permittee within 24 hours of discovery of the  
noncompliance condition.

If you have questions or comments, please advise.

Yours very truly,

  
S. D. Holder

ENG:gg  
Attachments

xc: Mr. Larry P. Kloet, Engineer



Please print or type in the unshaded areas only.

FORM  
2C  
NPDES



as only.

U.S. ENVIRONMENTAL PROTECTION AGENCY  
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER  
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS  
Consolidated Permits Program

1. OUTFALL LOCATION

1. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

	A. LATITUDE	B. LONGITUDE	C. RECEIVING WATER
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[illegible]

## ii. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

**II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES**

**A.** Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

cooling water, and storm water runoff water, and discharge on additional sheets if necessary.					
1. OUTFALL NO. (List)	2. OPERATION(S) CONTRIBUTING 3. OPERATION (List)	4. AVERAGE FLOW (Include units)	5. TREATMENT 6. DESCRIPTION	7. LIST CODES FROM TABLE 2C-1	
01	Unit 1 Final Plant Discharge	15,900 GPM	50,000 GPM Maximum	2F	4A
01A	Unit 1 Cooling Tower Blowdown	15,625 GPM	34,000 GPM Maximum	2F	4A
01B	Unit 1 Cooling Water Overflow		* Intermittent Flow	2F	4A
01C	Unit 1 Auxiliary Non-contact Cooling Water	22,000 GPM	34,000 GPM Maximum	4A	
01D	Diesel Generator Non-contact Cooling Water (1A, 1C, Diesel Generators)	1,400 GPM	1,400 GPM Maximum	4A	
01D	Diesel Generator Non-contact Cooling Water (1B, 2A, 2C, Diesel Generators)		* Intermittent Flow	4A	

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FORM  
2C  
NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY  
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER  
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS  
Consolidated Permits Program

1. OUTFALL LOCATION

1. OUTFALL LOCATION			
For each outfall, list the latitude and longitude of its location to the nearest 10 seconds and the name of the receiving water.			
A. OUTFALL NO.	B. LATITUDE	C. LONGITUDE	D. RECEIVING WATER
1	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
2	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
3	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
4	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
5	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
6	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
7	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
8	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
9	34° 15' 10" N	122° 05' 10" W	San Francisco Bay
10	34° 15' 10" N	122° 05' 10" W	San Francisco Bay

[illegible]

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

**II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES**

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

1. (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, and (2) The treatment received by the wastewater. Continue

flows between intakes, operations, treatment units, and outfalls. It is a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

A. SOURCE FLOW		3. TREATMENT	D. LIST CODES FOR

1. OUT- FALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	4. LIST CODES FROM TABLE 2C-1	
	5. OPERATION (list)	6. AVERAGE FLOW (include units)	7. DESCRIPTION		
01E	Unit 1 Low Volume Waste		* Intermittent Flow	4A	
01F	Sewage Treatment Plant	8 GPM	50 GPM Maximum	2F, 3A	4A
01G	Low Volume Wastes (Makeup Demineralizer/ Neutralization Tank)		* Intermittent Flow	4A	
01H	Low Volume Wastes (Pressure Filter Backwash)		* Intermittent Flow	4A	
01I	Unit 1 Cooling Tower Basin Drains		* Intermittent Flow	2F	4A
01J	Unit 1 Cooling Tower Basin Overflow to Storm Drains		* Intermittent Flow	2F	4A

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CONTINUE ON REVERS

FORM  
2C  
NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY  
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER  
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS  
Consolidated Permits Program

1. OUTFALL LOCATION

1. OUTFALL LOCATION			
For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.			
	1	2	3
	LONGITUDE	LONGITUDE	RECEIVING WATER
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## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

cooling water, and storm water runoff, and on additional sheets if necessary.					
2 OPERATION(S) CONTRIBUTING FLOW					
1. OUTFALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	3. TREATMENT c. DESCRIPTION	d. LIST CODES FROM TABLE 2C-1	
02	Unit 2 Final Plant Discharge	8000 GPM	50,000 GPM Maximum	2F	4A
02A	Unit 2 Cooling Tower Blowdown	8000 GPM	34,000 GPM Maximum		
02B	Unit 2 Cooling Tower Basin Overflow to Storm Drains		* Intermittent Flow	2F	4A
02C	Unit 2 Cooling Water Overflow		* Intermittent Flow	2F	4A
02D	Unit 2 Auxiliary Non-contact Cooling Water	21,250 GPM	34,000 GPM Maximum	4A	
02E	Unit 2 Low Volume Waste (Liquid Radwaste)		* Intermittent Flow	4A	

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FORM  
2C  
NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY  
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER  
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS  
Consolidated Permits Program

## 1. OUTFALL LOCATION

[illegible]

For each outfall, list the latitude and longitude of its location to the nearest 10 second.							D. RECEIVING WATER (name)
A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
01-04	31	56	02N	082	20	39E	Altamaha River

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

**II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES**

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

[illegible]

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CONTINUE ON REVERS



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C. Except for storm runoff, leaks, or spills, are any of the discharges described in items II-A or B intermittent or seasonal? ☐ NO (go to Section III)

YES (complete the following table)

☐ NO (Go to Section III)

YES (complete the following table)								
1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW		5. TOTAL VOLUME		6. DURATION (in days)
		A. DAYS PER WEEK (specify outlets)	B. MONTHS PER YEAR (specify outlets)	C. FLOW RATE (in mgd)		D. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
01B	Unit 1 Cooling Water Overflow							
01D	Diesel Generator Non-contact Cooling Water (1B, 2A, 2C)			* See Attached Table				
01E	Low Volume Waste (Liquid Radwaste Unit 1)							
01G	Low Volume Wastes (Makeup Demineralizers)							

### III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility? ☐ NO (to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)? ☒ NO (go to Section IV)

C If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
B. QUANTITY PER DAY	C. UNITS OF MEASURE	D. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

#### IV. IMPROVEMENTS

A Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste-water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)

☒ NO (go to Item IV-B)

☐ YES (complete the following table)

☒ NO (go to Item IV.B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.		2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
S. NO.	D. SOURCE OF DISCHARGE	S. NO.	D. SOURCE OF DISCHARGE		S. NO. REQUIRED	D. PRO. FACTED

B. OPTIONAL. You may attach additional sheets describing any additional water pollution control programs for other environmental projects which may affect your discharges/ you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal? ☐ NO (Go to Section III)

☐ YES (complete the following table)

1. OUTFALL NUMBER (list)		2. OPERATION(s) CONTRIBUTING FLOW (list)		3. FREQUENCY		4. FLOW				5. DURATION (in days)
		6. DAYS PER WEEK (specific averages)	7. MONTHS PER YEAR (specific averages)	8. FLOW RATE (in mgd)		9. TOTAL VOLUME (specify with units)				
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY			
01H	Low Volume Waste (Pressure Filter Backwash)									
01I	Unit 1 Cooling Tower Basin Drain			* See Attached Table						
01J	Unit 1 Cooling Tower Basin Overflow to Storm Drains									
02B	Unit 2 Cooling Tower Basin Overflow to Storm Drains									
02C	Unit 2 Cooling Water Overflow									

### III. PRODUCTION

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility? ☐ YES (to Section IV) ☒ NO (to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production for other measure of operation? ☒ NO (go to Section IV)

☐ YES (completes Item III-C)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS <i>(list outfall numbers)</i>
A. QUANTITY PER DAY	B. UNITS OF MEASURE	C. OPERATION, PRODUCT, MATERIAL, ETC. <i>(specify)</i>	

#### IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)

☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.		2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	B. NO.	D. SOURCE OF DISCHARGE			B. REQUIRED	D. PROJECT

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs for other environmental projects which may affect your discharges/ you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are the discharges described in Items II-A or B intermittent or seasonal?

☒ YES (complete the following table)☐ NO (go to Section III)

X YES (complete the following section)									
1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW RATE		5. TOTAL VOLUME		6. DURATION (in days)	
		A. DAYS PER WEEK (specify average)	B. MONTHS PER YEAR (specify average)	C. FLOW RATE (in mgd)		D. TOTAL VOLUME (specify with units)			
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY		
02E	Unit 2 Low Volume Waste (Liquid Radwaste)								
03	Intake Screen Backwash								
03A	Intake Strainer Backwash								
04	Chiller Water Blowdown/Draining								

\* See Attached Table

## III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ YES (complete Item III-B)☐ NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ YES (complete Item III-C)☒ NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls

## 1. AVERAGE DAILY PRODUCTION

## 2. AFFECTED OUTFALLS

(list outfall numbers)

A. QUANTITY PER DAY

B. UNITS OF MEASURE

C. OPERATION, PRODUCT, MATERIAL, ETC.  
(specify)

## IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste-water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	A. NO.	B. SOURCE OF DISCHARGE		A. REQUIRED	B. PROJECTED

B. OPTION "L". You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

E. I. Hatch Nuclear Plant  
NPDES Permit No. GA0004120

Intermittent Flow Table  
EPA Form 2C Section II.C  
Page 1 of 3

Outfall

Description of Intermittent Flow

- |   |  |
|---|--|
| 01B - Unit 1 Cooling Water<br>Overflow  | This point is defined in the existing NPDES Permit as OSN01B and is utilized periodically in lieu of the blowdown valve to control the level in the Unit 1 cooling tower basin. The discharge from this point is sampled for the same parameters as Unit 1 cooling tower blowdown (OSN 1A) when chemical treatment is performed. Average flow is 15,825 gpm when in service. |
| 01D - Diesel Generator<br>Non-contact Cooling<br>Water (1B, 2A<br>2C Diesel Generators) | Discharge from this OSN occurs only when diesel generators are operated or during certain test operations. Flow is approximately 2100 gpm and occurs for approximately 5 hours every 14 days.  |
| 01E - Unit 1 Low Volume Waste<br>(Liquid Radwaste)                                      | Liquid radwaste is released on a batch basis. The frequency of release is variable and depends on radwaste system operation frequency. Average flow is 65 gpm (100 gpm maximum); duration is normally 2 hours per batch.   |
| 01G - Low Volume Waste<br>(Makeup Demineralizer/<br>Neutralization Tank)                | Discharge from the makeup demineralizer occurs on a batch basis. The frequency of release is dependent on operation of the demineralizers. Average flow is 320 gpm (650 gpm maximum); duration of discharge is normally 1.5 hours per event.   |
| 01H - Low Volume Waste<br>(Pressure Filter<br>Backwash)                                 | Discharge from the pressure filters occurs on a per backwash basis. The frequency of release is dependent on operation of the pressure filter system but is generally once per 10 days. Average flow is 500 gpm (700 gpm maximum); duration of discharge is normally 0.5 hours.  |



E. I. Hatch Nuclear Plant  
NPDES Permit No. GA0004120

Intermittent Flow Table  
EPA Form 2C Section II.C  
Page 2 of 3

Outfall

Description of Intermittent Flow

011 - Unit 1 Cooling Tower  
Basin Drains

The Unit 1 cooling tower basin drains are utilized during outages to drain the cooling tower system to support outage related cooling tower maintenance. EPD approval has always been obtained prior to draining. This new OSN is provided to eliminate the need for prior EPD approval of this outage related operation. The discharge volume is approximately 3.5 million gallons discharged over a 48 hour period. The discharge will be sampled for FAC, TRC, Zn, Cr, and pH prior to discharge. Results will be reported in the quarterly Operations Monitoring Report.

01J - Unit 1 Cooling Tower  
Basin Overflow to  
Storm Drains

This new OSN is provided to support monitoring of infrequent overflow events resulting from transient conditions in the Unit 1 cooling tower system. During periods of discharge, this OSN will be monitored consistent with the requirements for existing point OSN 02B. Results will be reported in the quarterly Operations Monitoring Report.

02B - Unit 2 Cooling Tower  
Basin Overflow to  
Storm Drains

The Unit 2 cooling tower basin overflow to storm drains is utilized during outages to drain the Unit 2 cooling tower system. This point is currently permitted as OSN 02B. The discharge volume is approximately 3.5 million gallons discharged over a 48 hour period.

02C - Unit 2 Cooling Water  
Overflow


This point is defined in the existing NPDES Permit as OSN02C and is utilized periodically in lieu of the blowdown valve to control the level in the Unit 2 cooling tower system. The discharge from this point is sampled for the same parameters as the Unit 2 cooling tower blowdown (OSN02A) when chemical treatment is performed. Average flow is approximately 8000 gpm when in service.

E. I. Hatch Nuclear Plant  
NPDES Permit No. GA0004120

Intermittent Flow Table  
EPA Form 2C Section II.C  
Page 3 of 3

Outfall	Description of Intermittent Discharge
02E - Unit 2 Low Volume Waste (Liquid Radwaste)	Liquid radwaste is released on a batch basis. The frequency of release is variable and depends on radwaste system operation frequency. Average flow is 65 gpm (100 gpm maximum); duration is normally 2 hours per batch.
03 - Intake Screen Backwash	This point is defined in the existing NPDES Permit as OSN03. The intake screens are backwashed approximately once per shift. The average flow is 412 gpm (500 gpm maximum). Duration of backwash varies but is generally less than 15 minutes.
03A - Intake Strainer Backwash	The Plant Service Water intake lines are equipped with strainers to remove small debris entrained in the water by pump operation. Each strainer is backwashed with service water approximately once per shift at a flow of approximately 500 gpm. The discharge from the strainer backwash is routed through a 12 inch line into a stillwell area on the downstream side of the intake structure where it is ultimately discharged to the Altamaha River.
04 - Chiller Water Blowdown/ Draining	This point is defined in the existing permit as OSN04 - 2P65 Chiller Water Blowdown. The point description has been modified to allow draining of the cooling tower system associated with the 2P65 chiller. Draining is conducted on an infrequent basis and will be documented on the quarterly Operations Monitoring Report.

General Test Laboratory  
Building Number 8  
P.O. Box 2641  
Birmingham, Al. 35291

Alabama Power 

# Certificate of Analysis

TO : MR. TOM MOORE  
ADDRESS: SOUTHERN NUCLEAR

REPORT DATE : 07/20/92  
SAMPLE DATE : 06/30/92  
SAMPLE NUMBER : 920713-0242  
LOCATION NUMBER : HATCH


DESCRIPTION: PLANT HATCH, SAMPLE # 1, SEWAGE TREATMENT SLUDGE SAMPLE

TEST	REFERENCE	RESULT	UNITS
Cadmium, TCLP Extractable	SW846/1311/3005/60:0	0.01	mg/l
Lead, TCLP Extractable	SW846/1311/3005/60:0	0.04	mg/l

MR. W. S. HILL

Chemist	Quality Control MARK LESTER <i>ml</i>	Supv. Chemist CHARLES HORN <i>H</i>	Page of
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# Certificate of Analysis

TO : MR. TOM MOORE  
ADDRESS: SOUTHERN NUCLEAR

REPORT DATE : 07/17/92  
SAMPLE DATE : 06/30/92  
SAMPLE NUMBER : 920713-0041  
LOCATION NUMBER : HATCH

DESCRIPTION: PLANT HATCH, SAMPLE # 2, SEWAGE TREATMENT PLANT EFFLUENT

TEST	REFERENCE	RESULT	UNITS
Cadmium, Total	EPA PB84/200.7	< 0.01	mg/l
Lead, Total	EPA PB84/200.7	< 0.01	mg/l

CC: MR. W. S. HILL


Chemist

Quality Control

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MARK LESTER 

HAROLD WESTON 

of



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Birmingham, Al. 35291

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TO : MR. TOM MOORER  
ADDRESS: SOUTHERN NUCLEAR

REPORT DATE : 8/7/82  
SAMPLE DATE/TIME: 8/7/82/5: 18:30  
SAMPLE NUMBER : 922713-8242  
LOCATION NUMBER : HATCH

DESCRIPTION: PLANT HATCH, SAMPLE # 1, SEWAGE TREATMENT SLUDGE

TEST	REFERENCE	RESULT	UNITS
Cadmium, TCLP Extractable	SW846/1311/3025/6010	0.01	mg/l
Lead, TCLP Extractable	SW846/1311/3025/6010	0.42	mg/l

CC: MR. W. S. HILL

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Quality Control

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CHARLES HORN

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

TO : MR. TOM MOORE  
ADDRESS: SOUTHERN NUCLEAR

REPORT DATE : 07/17/92  
SAMPLE DATE/TIME: 07/06/92 10:30  
SAMPLE NUMBER : 920713-B044  
LOCATION NUMBER : HATCH

DESCRIPTION: PLANT WASTEWATER SAMPLE # 2, SEWAGE TREATMENT PLANT EFFLUENT

TEST	REFERENCE	RESULT	UNITS
Cadmium, Total	EPA 884/200.7	( 0.01	mg/l
Lead, Total	EPA 884/200.7	( 0.01	mg/l

CC: MR. W. S. HILL

Chemist	Quality Control MARK LESTER 	Supv. Chemist HAROLD WESTON 	Page of
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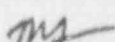

TO : MR. TOM MOORE  
ADDRESS: SOUTHERN NUCLEAR

REPORT DATE : 07/22/52  
SAMPLE DATE/TIME: 07/13/52 05:52  
SAMPLE NUMBER : 922716-0000  
LOCATION NUMBER : HATCH

DESCRIPTION: PLANT HATCH, SAMPLE # 1, SEWAGE TREATMENT SLUDGE SAMPLE

TEST	REFERENCE	RESULT	UNITS
Cadmium, TOLP Extractable	SW646/1311/3025/6010	0.01	mg/l
Lead, TOLP Extractable	SW646/1311/3025/6010	0.04	mg/l

CC: MR. W. S. HILL

Chemist	Quality Control MARK LESTER 	Supv. Chemist CHARLES HORN 	Page of
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TO : MR. TOM MOORE  
ADDRESS: SOUTHERN NUCLEAR

REPORT DATE : 07/17/92  
SAMPLE DATE/TIME: 07/13/92 06:50  
SAMPLE NUMBER : 920716-0027  
LOCATION NUMBER : HATCH

DESCRIPTION: PLANT HATCH, SAMPLE # 2, SEWAGE TREATMENT EFFLUENT

TEST	REFERENCE	RESULT	UNITS
Cadmium, Total	EDA PB84/200.7	( 0.01	mg/l
Lead, Total	EDA PB84/200.7	( 0.01	mg/l

CC: MR. W. S. HILL

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Quality Control

MARK LESTER *ML*

Supv. Chemist

HAROLD WESTON *H*

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TO : MR. TOM MOORE  
ADDRESS: SOUTHERN NUCLEAR

REPORT DATE : 06/04/92  
SAMPLE DATE/TIME: 07/20/92 12:30  
SAMPLE NUMBER : S29724-0030  
LOCATION NUMBER : HATCH

DESCRIPTION: PLANT HATCH, SAMPLE # 1, SEWAGE TREATMENT PLANT SLUDGE

TEST	REFERENCE	RESULT	UNITS
Solids Content of Sample	EPD SW846/Meth. 1311	100.00	Per Cent
Cadmium, TCLP Extractable	SW846/1311/3005/5010	( 0.01	ug/l
Lead, TCLP Extractable	SW846/1311/3005/6010	( 0.02	ug/l

CC: MR. W. S. HILL

Chemist	Quality Control MARK LESTER <i>ML</i>	Supv. Chemist HAROLD WESTON <i>H</i>	Page of
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

TO : MR. TOM MOORE  
ADDRESS: SOUTHERN NUCLEAR

REPORT DATE : 07/31/92  
SAMPLE DATE/TIME: 07/20/92 12:30  
SAMPLE NUMBER : 920724-0031  
LOCATION NUMBER : HATCH

DESCRIPTION: PLANT HATCH, SAMPLE # 2, SEWAGE TREATMENT PLANT EFFLUENT

TEST	REFERENCE	RESULT	UNITS
Cadmium, Total	EPA 8884/200.7	( 0.01	mg/l
Lead, Total	EPA 8884/200.7	( 0.01	mg/l

CC: MR. W. S. HILL

Chemist	Quality Control MARK LESTER 	Supv. Chemist HAROLD WESTON 	Page of
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ALTAMAHA

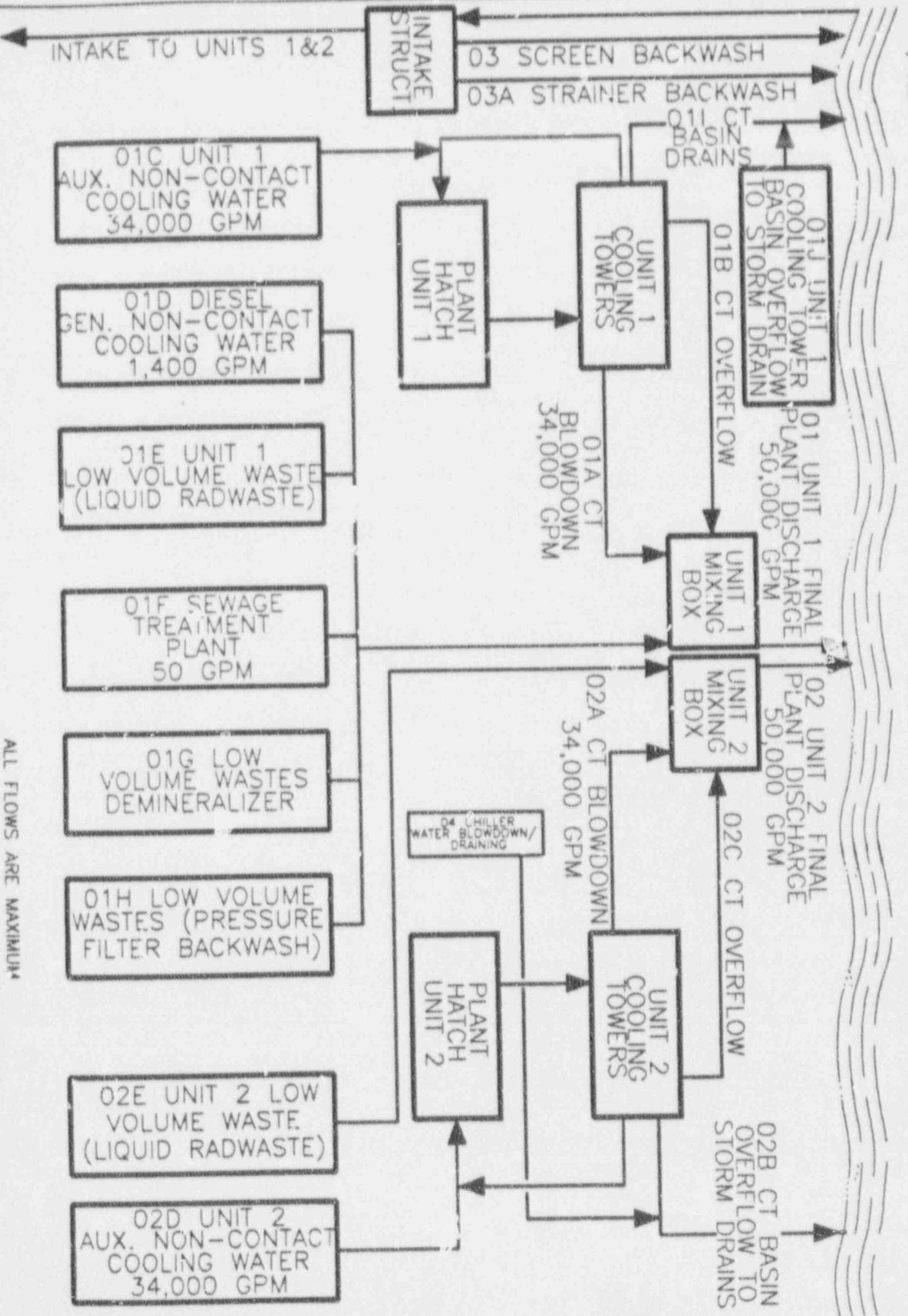
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PLANT HATCH

NPDES PERMIT NO. GA00004120

8/27/92 J.W.S.  
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