Southern Nuclear
Operating Company, Inc.
Post Office Box 1295
Birmingham, Alabama 35201-1295

Tel 205.992.5000

SOUTHERN COMPANY
Energy to Serve Your World℠

February 14, 2007

Docket Nos.: 50-321
50-366

NL-07-0276

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555-0001

Edwin I. Hatch Nuclear Plant
National Pollutant Discharge Elimination System (NPDES) Permit Renewal

Ladies and Gentlemen:

In accordance with the Environmental Protection Plan, Appendix B to Facility Operating License Nos. DPR-57 and NPF-5, Section 3.2, Southern Nuclear Operating Company hereby submits for your information the renewal application for National Pollutant Discharge Elimination System (NPDES) permit number GA0004120, issued by the Georgia Environmental Protection Division.

If you have any questions, please advise.

Sincerely,

J. M. Godfrey
Manager, Environmental Affairs

JMG/MNW/daj

Enclosures: National Pollutant Discharge Elimination System (NPDES) Permit Number GA0004120

cc: Southern Nuclear Operating Company
Mr. J. T. Gasser, Executive Vice President
Mr. D. R. Madison, Vice President – Hatch
Mr. D. H. Jones, Vice President – Engineering
Mr. G. D. Elmore, Environmental Affairs
RTYPE: CHA02.004

U. S. Nuclear Regulatory Commission
Dr. W. D. Travers, Regional Administrator
Mr. R. E. Martin, NRR Project Manager – Hatch
Mr. D. S. Simpkins, Senior Resident Inspector – Hatch

Southern Nuclear
Operating Company, Inc.
42 Inverness Center Parkway
Birmingham, Alabama 35242

SOUTHERN COMPANY
Energy to Serve Your World℠

File: E.02.07
Log: EV-07-0203

January 30, 2007

FEDERAL EXPRESS

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

Mr. Jeff Larson
Program Manager
Permitting, Compliance, and Enforcement Program
Environmental Protection Division
4244 International Parkway, Suite 110
Atlanta, Georgia 30354

Dear Mr. Larson:

Enclosed is the NPDES Permit renewal application package for E. I. Hatch Nuclear Plant (HNP). The renewal package contains the completed EPA Forms 3510-1 and 3510-2C.

Information pursuant to 40 CFR 122.21(r)(2), (3) and (5), which addresses compliance with Clean Water Act Section 316(b) regarding cooling water intake structures will be provided via separate correspondence prior to the regulatory deadline of January 7, 2008. Both units at HNP already employ closed loop condenser cooling water systems and, therefore, have met the applicable performance standards using compliance alternative number one, as described in 40 CFR 125.94(a)(1)(i).

If you have any questions or require additional information regarding the enclosed renewal application package for HNP, please contact Greg Elmore at (205) 992-5264.

Sincerely,

J. M. Godfrey, Manager
Environmental Affairs

JMG/GDE:ahl

Enclosure

cc: Mr. Reid Jackson, EPD Coastal District

bcc: w/o Enclosure
D. R. Madison
R. D. Baker
W. E. Duvall
T. D. Blalock
B. R. Evans
B. C. Terry

w/ Enclosure
S. M. Douglas
B. K. Feimster
SNC Document Management – Hatch (Return Receipt)

Application for Permit Renewal

NPDES Permit No. GA0004120

Edwin I. Hatch Nuclear Plant

Submitted by Southern Nuclear Operating Company
January 2007

SOUTHERN COMPANY

EPA FORM 1 GENERAL

General Information
Consolidated Permits Program

Edwin I. Hatch Nuclear Plant
NPDES No. GA0004120

(fill-in areas are spaced for elite type, i.e. 12 characters/inch).

Form Approved. OMB No. 2040-0086. Approval expires 5-31-92

FORM 1 GENERAL

U. S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

S												T/A	C
F	G	A	0	0	0	4	1	2	0				D
1	2										13	14	15

LABEL ITEMS

- I. EPA I.D. NUMBER
- III. FACILITY NAME
- V. FACILITY MAILING ADDRESS
- VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data is absent (the area to the left of the label space list the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	MARK "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)	15	X 17	18	B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)	19	X 20	21
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X 22	23	X 24	D. Is this a proposed facility (other than those described in A or B above) which will result in a **discharge** to waters of the U.S.? (FORM 2D)	25	X 26	27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)	28	X 29	30	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)	31	X 32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)	34	X 35	36	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)	37	X 38	39
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)	40	X 41	42	J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)	43	X 44	45

III. NAME OF FACILITY

C 1 SKIP HATCH NUCLEAR PLANT

IV. FACILITY CONTACT

A. NAME & TITLE (*last, first, & title*)	B. PHONE (*area code & no.*)
GODFREY, MIKE, MANAGER ENV AFFAIRS	205 992 6387

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX: P.O. BOX 1295

B. CITY OR TOWN	C. STATE	D. ZIP CODE
BIRMINGHAM	AL	35201

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: 11028 HATCH PARKWAY NORTH

B. COUNTY NAME: APPLING

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE
BAXLEY	GA	31513	N/A

CONTINUE ON REVERSE

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST			B. SECOND		
C 7	4911	(specify) Generation of Electricity	C 7		(specify) N/A
15	16 19		15	16 19	

C. THIRD			D. FOURTH		
C 7		(specify) N/A	C 7		(specify) N/A
15	16 19		15	16 19	

VIII. OPERATOR INFORMATION

A. NAME

C 8 SOUTHERN NUCLEAR OPERATING COMPANY (15–55)

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☒ NO (66)

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box; if "Other", specify.)*

F = FEDERAL; M = PUBLIC *(other than federal or state)*; S = STATE; O = OTHER *(specify)*; P = PRIVATE

P (56) *(specify)*

D. PHONE *(area code & no.)*

C A (15) 205 (16–18) 992 (19–21) 5000 (22–25)

E. STREET OR P.O. BOX

P.O. BOX 1295 (26–55)

F. CITY OR TOWN	G. STATE	H. ZIP CODE
C B BIRMINGHAM (15–40)	AL (41–42)	35201 (47–51)

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO (62)

X. EXISTING ENVIRONMENTAL PERMITS

	C	T	I		
A. NPDES *(Discharges to Surface Water)*	9	N		GA0004120	(15–30)
D. PSD *(Air Emissions from Proposed Sources)*	9	P		N/A	(15–30)
B. UIC *(Underground Injection of Fluids)*	9	U		N/A	(15–30)
E. OTHER *(specify)*	9			SEE ATTACHED	(15–30) *(specify)*
C. RCRA *(Hazardous Wastes)*	9	R		N/A	(15–30)
E. OTHER *(specify)*	9			N/A	(15–30) *(specify)*

XI. MAP

Attach to this application a topgraphic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

Generation of electricity through the use of nuclear fuel. Plant Hatch is jointly owned by Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia.

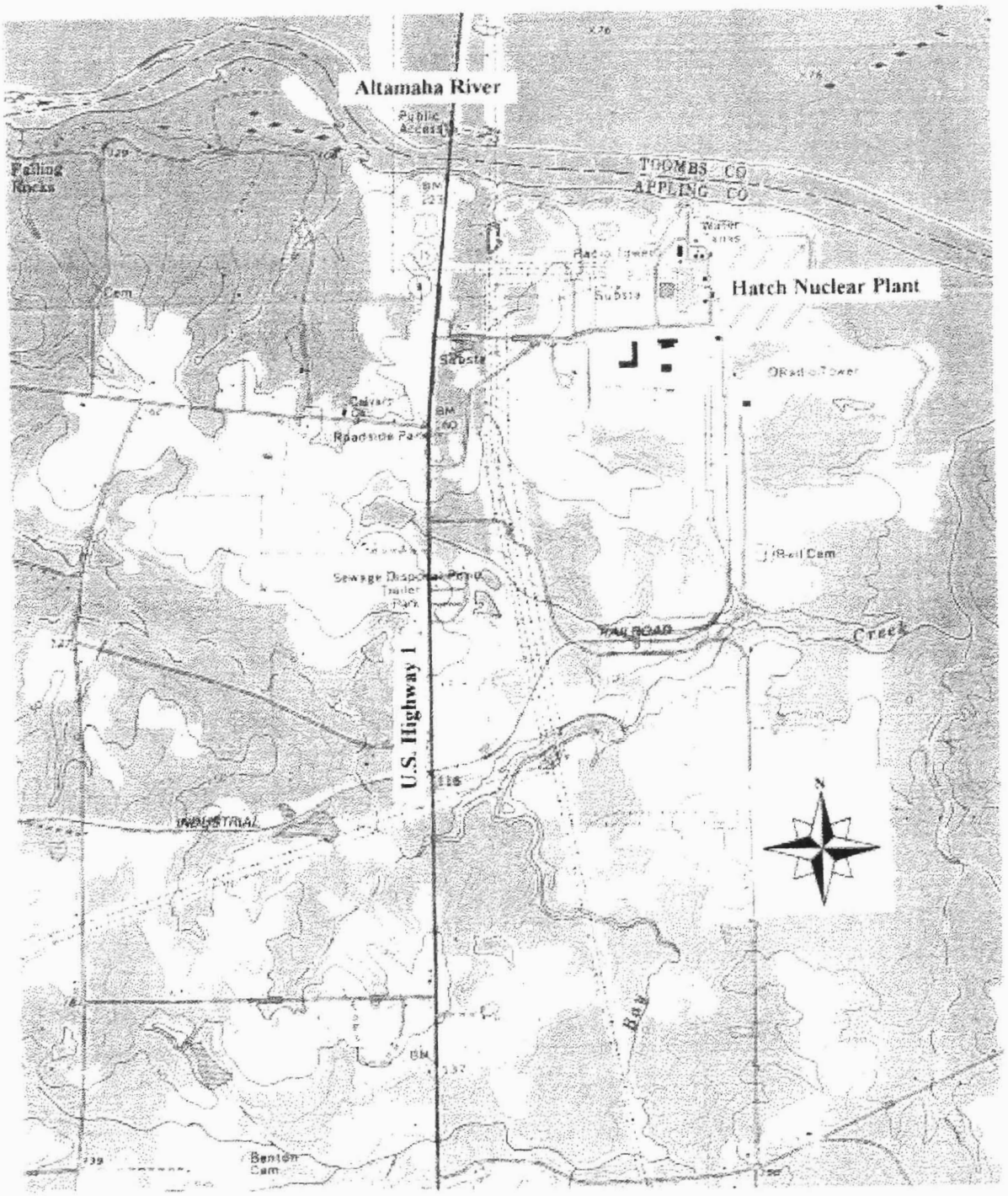
XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of thos persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
D. R. Madison, Vice-President	Dennis Madison	1/29/07

COMMENTS FOR OFFICIAL USE ONLY

C C (15–55)



EDWIN I. HATCH NUCLEAR PLANT
GENERAL TOPOGRAPHIC MAP

Form 1, Attachment 1
Item X.E. Other Existing Environmental Permits

Permit	Permit Number
Title V Part 70 Operating Permit	4911-001-0001-V-02-1
Surface Water Withdrawal	001-0690-01
Drinking Water	PG0010005 (Plant) NG0010011 (Recreation Area)
Groundwater Withdrawal	001-0001
Dredging	940003873 (Intake Maintenance)
Solid Waste Handling	001-004D(L)(I)
NPDES General Stormwater Permit	GAR000000
Hazardous Materials Certificate of Registration (DOT)	061406 003 005O

EPA FORM 2C NPDES

Application for Permit to Discharge Wastewater
Consolidated Permits Program

Edwin I. Hatch Nuclear Plant
NPDES No. GA0004120

Submitted by Southern Nuclear Operating Company
January 2007

SOUTHERN COMPANY

Please print or type in the unshaded areas only.

EPA I.D. (*copy from Item 1 of Form 1*)
GA0004120

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

FORM 2C NPDES

EPA

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

I. 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. OUTFALL NO. (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1.DEG.	2. MIN.	3. SEC.	1.DEG.	2. MIN.	3. SEC.	
01-04	*	*	*	*	*	*	Altamaha River
							* Withheld for security concerns. Please contact
							permittee if coordinates are needed.

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.

1. OUTFALL NO (*list*)	2. OPERATION (S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
01	Unit 1 Final Plant Discharge	16,500 GPM	50,000 GPM Max	4A	2F
01A	Unit 1 Cooling Tower Blowdown	**	**	4A	2F
01B	Unit 1 Cooling Tower Flume Overflow	8,000 GPM	34,000 GPM Max.	4A	2E, 2F
01E	Unit 1 Low Volume Waste (Liquid Radwaste)	**	**	4A	
01F	Sewage Treatment Plant	8 GPM	50 GPM Max	4A, 2F	5H, 5O
01G	Low Volume Wastes (Makeup Demineralization/Neutralization Tank)	**	**	4A	
01H	Low Volume Wastes (Pressure Filter Backwash) Non-Contact Cooling Water	**	**	4A	
01J	Unit 1 Cooling Tower Basin Overflow	**	**	4A	2F
02	Unit 2 Final Plant Discharge	10,600 GPM	50,000 GPM Max	4A	2F
02A	Unit 2 Cooling Tower Blowdown	**	**	4A	2F
02B	Unit 2 Cooling Tower Basin Overflow to Storm Drains	**	**	4A	2F
02C	Unit 2 Cooling Tower Flume Overflow	8,000 GPM	34,000 GPM Max.	4A	2E, 2F
02E	Unit 2 Low Volume Waste (Liquid Radwaste)	**	**	4A	
03	Intake Screen Backwash	**	**	4A	2F
03A	Intake Strainer Backwash	**	**	4A	
04	Chiller Water Blowdown/Draining	**	**	4A	
	** Intermittent (See Attached Table)				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

 CONTINUE ON PAGE 2

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items 11-A or B intermittent or seasonal?

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

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		b. TOTAL VOLUME (specify with units)		c. DURATION (in days)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
	See attachment for Intermittent Discharges							

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*)	
N/A			

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 wastewater 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
N/A					

B. OPTIONAL: 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 PROGRAM IS ATTACHED

 CONTINUE ON PAGE 3

CONTINUED FROM PAGE 2

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*

GA0004120

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (list all such pollutants below) ☒ NO (go to Item VI-B)

N/A

 CONTINUE ON PAGE 4

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (identify the test(s) and describe their purposes below) ☒ NO (go to Section VIII)

N/A

VIII CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contact laboratory or consulting firm?

☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) ☐ NO (go to Section IX)

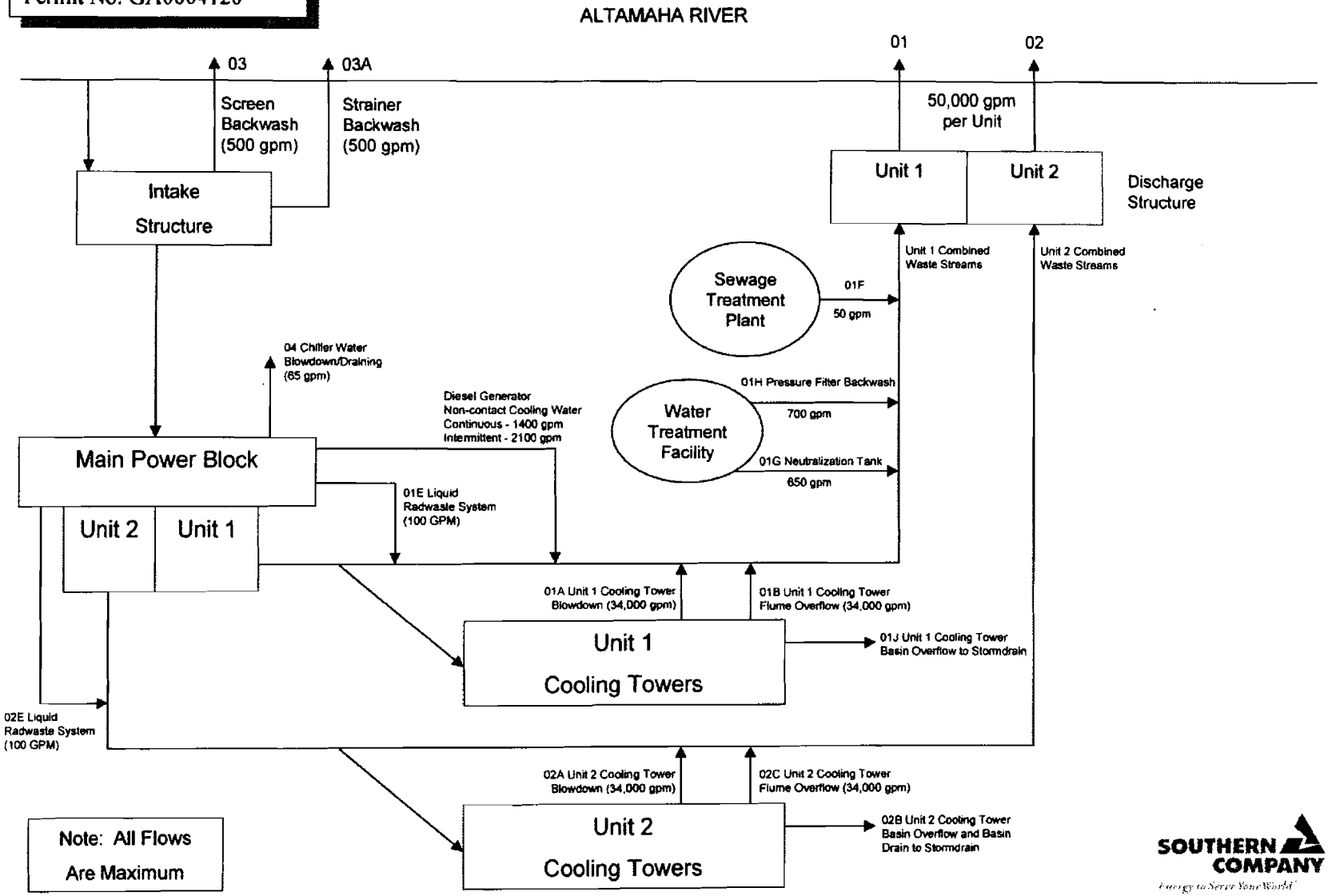
A. NAME	B. ADDRESS	C. TELEPHONE *(area code & no.)*	D. POLLUTANTS ANALYZED *(list)*
Alabama Power Company General Test Laboratory	P.O. Box 2641 Birmingham, AL 35291	(205) 664-6182	All except pH, temperature, Total Residual Chlorine, and Radiological
Florida Radiochemistry Services, Inc.	5456 Hoffner Ave. Suite 201 Orlando, FL 32812	(407) 382-7733	Radiological

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personal 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 knowing violations.

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (Area code & no.)
D. R. Madison, Vice-President	(912) 537-5859
C. SIGNATURE	D. DATE SIGNED
	1/29/07

Hatch Nuclear Plant
Line Drawing/Water Balance
Permit No. GA0004120



SOUTHERN COMPANY
Energy to Serve Your World

Form 2C, Attachment 1
Item II.C. Intermittent and Miscellaneous Flows

Outfall	Description of Flow
01A – Unit 1 Cooling Tower Blowdown	This point is utilized as an alternative to the flume overflow to control the level in the Unit 1 cooling tower basin. The maximum flow is 34,000 gpm when in service.
01E – Unit 1 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. Total system capacity is 38,000 gallons.
01G – Low Volume Waste (Neutralization Tank)	Discharge from the water purification process occurs on a batch basis. The frequency of release is dependent on operation of the water treatment plant. Average flow is 320 gpm (650 gpm maximum); duration of discharge is normally 1.5 hours per event.
01H – Low Volume Waste (Pressure Filter Backwash)	This point is utilized for pressure filter backwash and other miscellaneous flows such as pump seal water, valve leakoffs, and miscellaneous low-volume non-contact cooling water. Discharge from the pressure filter backwash occurs on a per event basis. The frequency of backwash is dependent on operation of the pressure filter system but is generally once per month. Average flow for this stream is between 200 and 750 gpm for 40 minute, with an average of one backwash per week.
01J – Unit 1 Cooling Tower Basin Overflow to Storm Drains	This point is utilized for Unit 1 cooling tower basin overflows to storm drains. The maximum discharge volume is approximately 3.5 million gallons discharged over a 48-hour period.
02A – Unit 2 Cooling Tower Blowdown	This point is utilized periodically as an alternative to the flume overflow to control the level in the Unit 2 cooling tower system. Average flow is approximately 15,000 gpm when in service.

Form 2C, Attachment 1 (Continued)
Item II.C. Intermittent and Miscellaneous Flows

Outfall	Description of Flow
02B – Unit 2 Cooling Tower Basin Overflow and Basin Drain to Storm Drains	This point is utilized for Unit 2 cooling tower basin overflows to storm drains and for basin drainage during outages to drain the Unit 2 cooling tower system. The maximum discharge volume is approximately 3.5 million gallons discharged over a 48-hour period. Chemical feed is secured and chemical residuals are verified absent before draining.
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	The intake screens are backwashed approximately once per shift. The average flow is 412 gpm (500 gpm maximum). Duration 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 an average flow of approximately 412 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 currently permitted to receive blowdown and draining from several chiller water systems, including the 2P65 and turbine building chilled water system. Chiller systems contain nitrite, molybdate, or nitrite/molybdate combinations to control corrosion. Biocide is added per vendor recommendations to control microbial growth. Blowdown from these systems is intermittent and is estimated at 11 gpm. Draining of these systems occurs on an infrequent basis and is normally associated with maintenance operations. Other smaller cooling water systems may also be periodically drained to the yard drain system. Previous NPDES permits provided for draining the 2P65 chiller system and other chiller systems containing sodium nitrite as a corrosion inhibitor.

EPA FORM 2C SECTION V

Intake and Effluent Characteristics
Consolidated Permits Program

Edwin I. Hatch Nuclear Plant
NPDES No. GA0004120

Unit 1 Effluent

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*
GA0004120

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 01

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCEN-TRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCEN-TRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCEN-TRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	3. UNITS *(specify if blank)* a. CONCEN-TRATION	3. UNITS b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCEN-TRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	<2	<365					1	mg/l	lb/day	<2	<965	1
b. Chemical Oxygen Demand (COD)	18	3,288					1	mg/l	lb/day	9	4,344	1
c. Total Organic Carbon (TOC)	5.15	941.0					1	mg/l	lb/day	2.47	1,192.3	1
d. Total Suspended Solids (TSS)	8	1,461.7					1	mg/l	lb/day	7	3,379.0	1
e. Ammonia *(as N)*	0.44	80.39					1	mg/l	lb/day	<0.01	<4.83	1
f. Flow	VALUE 15,214		VALUE		VALUE		3	gpm		VALUE 40,194		36
g. Temperature *(winter)*	VALUE 32		VALUE 23		VALUE 21		40	°C		VALUE 11		USGS Data
h. Temperature *(summer)*	VALUE 33		VALUE 32		VALUE 31		40	°C		28		USGS Data
i. pH	MINIMUM 6.3	MAXIMUM 8.7	MINIMUM 6.9	MAXIMUM 8.1			157	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data for an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. Believed Present	2. MARK 'X' b. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCEN-TRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCEN-TRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCEN-TRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANAL-YESES	4. UNITS a. CONCEN-TRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCEN-TRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANAL-YSES
a. Bromide (24959-67-9)	X		0.050	9.14					1	mg/l	lb/day	0.050	24.14	1
b. Chlorine, Total Residual	X		0.52	95.01	<0.10	--	<0.01	--	161	mg/l	lb/day	<0.01	<4.83	1
c. Color	X		18	--					1	PCU		28	--	1
d. Fecal Coliform	X		4	--					1	col/100 ml		98	--	1
e. Fluoride (16984-48-8)	X		0.45	82.22					1	mg/l	lb/day	0.28	135.16	1
f. Nitrate-Nitrite *(as N)*	X		1.50	274.07					1	mg/l	lb/day	0.63	304.11	1

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic *(as N)*	X		0.54	98.67					1	mg/l	lb/day	0.33	159.30	1
h. Oil and Grease	X		<1.4	<255.8					1	mg/l	lb/day	<1.4	<675.8	1
I. Phosphorus (as P) Total (7723-14-0)	X		0.13	23.75					1	mg/l	lb/day	0.06	28.96	1
J. Radioactivity														
(1) Alpha, Total	X		<1.4	--					1	pCi/L		<1.1	--	1
(2) Beta, Total	X		5.5	--					1	pCi/L		2.6	--	1
(3) Radium, Total	X		0.2	--					1	pCi/L		<0.2	--	1
(4) Radium 226, Total	X		0.1	--					1	pCi/L		0.1	--	1
k. Sulfate *(as SO_4)* (14808-79-8)	X		63.30	11,565.80					1	mg/l	lb/day	28.60	13,805.62	1
l. Sulfide *(as SO_3)* (14265-45-3)		X	<0.01	<1.83					1	mg/l	lb/day	0.09	43.44	1
m. Sulfite *(as SO_3)* (14265-45-3)	X		<0.25	<45.68					1	mg/l	lb/day	0.40	193.09	1
n. Surfactants	X		0.03	5.48					1	mg/l	lb/day	0.02	9.65	1
o. Aluminum, Total (7440-39-3)	X		0.625	114.20					1	mg/l	lb/day	0.388	187.29	1
p. Barium, Total (7440-39-3)		X	0.046	8.40					1	mg/l	lb/day	0.023	11.10	1
q. Boron, Total (7440-42-8)		X	0.109	19.92					1	mg/l	lb/day	0.059	28.48	1
r. Cobalt, Total (7440-48-4)		X	<0.001	<0.183					1	mg/l	lb/day	<0.001	<0.483	1
s. Iron, Total (7439-89-6)	X		0.818	149.46					1	mg/l	lb/day	0.552	266.46	1
t. Magnesium, Total (7439-95-4)	X		4.11	750.95					1	mg/l	lb/day	2.12	1,023.35	1
u. Molybdenum, Total (7439-98-7)	X		<0.01	<1.83					1	mg/l	lb/day	<0.01	<4.83	1
v. Manganese, Total (7439-96-5)	X		0.073	13.34					1	mg/l	lb/day	0.061	29.45	1
w. Tin, Total (7440-31-5)		X	<0.002	<0.365					1	mg/l	lb/day	0.004	1.93	1
x. Titanium, Total (7440-32-6)	X		0.026	4.75					1	mg/l	lb/day	0.015	7.24	1

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PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for the pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X		X	0.005	0.914					1	mg/l	lb/day	0.008	3.86	1
2M. Arsenic, Total (7440-38-2)	X		X	<0.004	<0.731					1	mg/l	lb/day	<0.004	<1.93	1
3M. Beryllium, Total, 7440-41-7	X		X	<0.001	<0.183					1	mg/l	lb/day	<0.001	<0.483	1
4M. Cadmium, Total (7440-43-9)	X		X	<0.001	<0.183					1	mg/l	lb/day	<0.001	<0.483	1
5M. Chromium Total (7440-47-3)	X		X	0.001	0.183					1	mg/l	lb/day	0.001	0.483	1
6M. Copper, Total (7440-50-8)	X	X		<0.001	<0.183					1	mg/l	lb/day	<0.001	<0.483	1
7M. Lead, Total (7439-92-1)	X	X		<0.002	<0.365					1	mg/l	lb/day	<0.002	<0.965	1
8M. Mercury, Total (7439-97-6)	X		X	<0.0002	<0.037					1	mg/l	lb/day	<0.0002	<0.097	1
9M. Nickel, Total (7440-02-0)	X		X	<0.001	<0.183					1	mg/l	lb/day	<0.001	<0.483	1
10M. Selenium, Total (7782-49-2)	X		X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
11M. Silver, Total (7440-22-4)	X		X	0.003	0.548					1	mg/l	lb/day	0.004	1.93	1
12M. Thallium, Total (7440-28-0)	X		X	<0.002	<0.365					1	mg/l	lb/day	<0.002	<0.965	1
13M. Zinc, Total (7440-66-6)	X	X		0.016	2.92					1	mg/l	lb/day	0.014	6.78	1
14M. Cyanide, Total (57-12-5)	X		X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
15M. Phenols, Total	X		X	0.01	1.83					1	mg/l	lb/day	<0.01	<4.83	1
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1V. Acrolein (107-02-8)	X		X	<0.002	<0.365					1	mg/l	lb/day	<0.002	<0.965	1
2V. Acrylonitrile (107-13-1)	X		X	<0.001	<0.183					1	mg/l	lb/day	<0.001	<0.483	1
3V. Benzene (71-43-2)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
4V. Bis(*Chloromethyl*) Ether (542-88-1)			X	--	--					0	mg/l	lb/day	--	--	0
5V. Bromoform (75-25-2)	X		X	<0.0030	<0.548					1	mg/l	lb/day	<0.0030	<1.45	1
6V. Carbon Tetrachloride(56-23-5)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
7V. Chlorobenzene (108-90-7)	X		X	<0.0010	<0.183					1	mg/l	lb/day	<0.0010	<0.483	1
8V. Chlorodibromo-methane (124-48-1)	X		X	<0.0010	<0.183					1	mg/l	lb/day	<0.0010	<0.483	1
9V. Chloroethane (75-00-3)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
10V. 2-Chloro-ethylvinyl Ether (110-75-8)	X		X	<0.0010	<0.183					1	mg/l	lb/day	<0.0010	<0.483	1
11V. Chloroform (67-66-3)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
12V. Dichlorobromo-methane (75-71-8)	X		X	<0.0010	<0.183					1	mg/l	lb/day	<0.0010	<0.483	1
13V. Dichlorodifluoro-methane (75-71-8)			X	--	--					0	mg/l	lb/day	--	--	0
14V. 1,1-Dichloro-ethane (75-34-3)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
15V. 1,2-Dichloro-ethane (107-06-2)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
16V. 1,1-Dichloro-ethylene (75-35-4)	X		X	<0.0010	<0.183					1	mg/l	lb/day	<0.0010	<0.483	1
17V. 1,2-Dichloro-propane (78-87-5)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
18V. 1,3-Dichloro-propylene (542-75-6)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
19V. Ethylbenzene (100-41-4)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
20V. Methyl Bromide (74-83-9)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
21V. Methyl Chloride (74-87-3)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GA0004120	01

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OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. Testing Required	b. Believed Present	b. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION — VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
23V. 1,1,2,2Tetra-chloroethane (79-34-5)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
24V. Tetrachloroethylene (127-18-4)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
25V. Toluene (108-88-3)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
26V. 1,2-Trans-Dichloro-ethylene (156-60-5)	X		X	<0.0010	<0.183					1	mg/l	lb/day	<0.0010	<0.483	1
27V. 1,1,1-Trichloroethane (71-56-6)	X		X	<0.0010	<0.183					1	mg/l	lb/day	<0.0010	<0.483	1
28V. 1,1,2-Trichloroethane (79-00-5)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
29V. Trichloroethylene (79-01-6)	X		X	<0.0020	<0.365					1	mg/l	lb/day	<0.0020	<0.965	1
30V. Trichlorofluoro-methane (75-69-4)			X	--	--					0	mg/l	lb/day	--	--	0
31V. Vinyl Chloride (75-01-4)	X		X	<0.0010	<0.183					1	mg/l	lb/day	<0.0010	<0.483	1
GC/MS FRACTION — ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X		X	<0.0033	<0.603					1	mg/l	lb/day	<0.0033	<1.59	1
2A. 2,4-Dichlorophenol (120-83-2)	X		X	<0.0027	<0.493					1	mg/l	lb/day	<0.0027	<1.30	1
3A. 2,4-Dimethylphenol (105-67-9)	X		X	<0.0027	<0.493					1	mg/l	lb/day	<0.0027	<1.30	1
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X		X	<0.024	<4.39					1	mg/l	lb/day	<0.024	<11.59	1
5A. 2,4-Dinitrophenol (51-28-5)	X		X	<0.042	<7.67					1	mg/l	lb/day	<0.042	<20.27	1
6A. 2-Nitrophenol (88-75-5)	X		X	<0.0036	<0.658					1	mg/l	lb/day	<0.0036	<1.74	1
7A. 4-Nitrophenol (100-02-7)	X		X	<0.0024	<0.439					1	mg/l	lb/day	<0.0024	<1.16	1
8A. P-Chloro-M-Cresol (59-50-7)	X		X	<0.0030	<0.548					1	mg/l	lb/day	<0.0030	<1.45	1
9A. Pentachlorophenol (87-86-5)	X		X	<0.0036	<0.658					1	mg/l	lb/day	<0.0036	<1.74	1
10A. Phenol (108-95-2)	X		X	<0.0015	<0.274					1	mg/l	lb/day	<0.0015	<0.724	1
11A. 2,4,6-Trichloro-phenol (88-06-2)	X		X	<0.0027	<0.493					1	mg/l	lb/day	<0.0027	<1.30	1

CONTINUE ON REVERSE

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
2B. Acenaphtylene (208-96-8)	X		X	<0.0035	<0.639					1	mg/l	lb/day	<0.0035	<1.69	1
3B. Anthracene (120-12-7)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
4B. Benzidine (92-87-5)	X		X	<0.044	<8.04					1	mg/l	lb/day	<0.044	<21.24	1
5B. Benzo *(a)* Anthracene (56-55-3)	X		X	<0.0078	<1.43					1	mg/l	lb/day	<0.0078	<3.76	1
6B. Benzo *(a)* Pyrene (50-32-8)	X		X	<0.0025	<0.457					1	mg/l	lb/day	<0.0025	<1.21	1
7B. 3,4-Benzo-fluoranthene (205-99-2	X		X	<0.0048	<0.877					1	mg/l	lb/day	<0.0048	<2.32	1
8B. Benzo *(ghi)* Perylene (191-24-2)	X		X	<0.0041	<0.749					1	mg/l	lb/day	<0.0041	<1.98	1
9B. Benzo *(k)*Fluoranthene (207-08-9)	X		X	<0.0025	<0.457					1	mg/l	lb/day	<0.0025	<1.21	1
10B. Bis *(2-Chloroethoxy)* Methane (111-91-1)	X		X	<0.0053	<0.968					1	mg/l	lb/day	<0.0053	<2.56	1
11B. Bis *(2-Chloroethyl)* Ether (111-44-4)	X		X	<0.0057	<1.04					1	mg/l	lb/day	<0.0057	<2.75	1
12B. Bis *(2-Chloro-isopropyl)* Ether (102-60-1)	X		X	<0.0057	<1.04					1	mg/l	lb/day	<0.0057	<2.75	1
13B. Bis *(2-Ethylhexyl)* Phthalate (117-81-7)	X		X	<0.0025	<0.457					1	mg/l	lb/day	<0.0025	<1.21	1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
15B. Butyl Benzyl Phthalate (85-68-7)	X		X	<0.0025	<0.457					1	mg/l	lb/day	<0.0025	<1.21	1
16B. 2-Chloronaphthalene (91-58-7)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X		X	<0.0042	<0.767					1	mg/l	lb/day	<0.0042	<2.03	1
18B. Chrysene (218-01-9)	X		X	<0.0025	<0.457					1	mg/l	lb/day	<0.0025	<1.21	1
19B. Dibenzo *(a,h)* Anthracene (53-70-3)	X		X	<0.0025	<0.457					1	mg/l	lb/day	<0.0025	<1.21	1
20B. 1,2-Dichloro-benzene (95-50-1)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
21B. 1,3-Dichloro-benzene (541-73-1)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1

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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
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Form Approved.
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Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)	X		X	<0.0044	<0.804					1	mg/l	lb/day	<0.0044	<2.12	1
23B. 3,3-Dichlorobenzidine (91-94-1)	X		X	<0.0165	<3.01					1	mg/l	lb/day	<0.0165	<7.96	1
24B. Diethyl Phthalate (84-66-2)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
25B. Dimethyl Phthalate (131-11-3)	X		X	<0.0016	<0.292					1	mg/l	lb/day	<0.0016	<0.772	1
26B. Di-N-Butyl Phthalate (84-74-2)	X		X	<0.0025	<0.457					1	mg/l	lb/day	<0.0025	<1.21	1
27B. 2,4-Dinitrotoluene (121-14-2)	X		X	<0.0057	<1.04					1	mg/l	lb/day	<0.0057	<2.75	1
28B. 2,6-Dinitrotoluene (606-20-2)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
29B. Di-N-OctylPhthalate (117-84-0)	X		X	<0.0025	<0.457					1	mg/l	lb/day	<0.0025	<1.21	1
30B. 1,2-Diphenyl-hydrazine *(as Azobenzene)* (122-66-7)	X		X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
31B. Fluoranthene (206-44-0)	X		X	<0.0022	<0.402					1	mg/l	lb/day	<0.0022	<1.06	1
32B. Fluorene (86-73-7)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
33B. Hexachlorobenzene (118-74-1)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
34B. Hexachlorobutadiene (87-68-3)	X		X	<0.0009	<0.164					1	mg/l	lb/day	<0.0009	<0.434	1
35B. Hexachlorocyclo-pentadiene (77-47-4)	X		X	<0.001	<0.183					1	mg/l	lb/day	<0.001	<0.483	1
36B. Hexachloroethane (67-72-1)	X		X	<0.0016	<0.292					1	mg/l	lb/day	<0.0016	<0.772	1
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)	X		X	<0.0037	<0.676					1	mg/l	lb/day	<0.0037	<1.79	1
38B. Isophorone (78-59-1)	X		X	<0.0022	<0.402					1	mg/l	lb/day	<0.0022	<1.06	1
39B. Naphthalene (91-20-3)	X		X	<0.0016	<0.292					1	mg/l	lb/day	<0.0016	<0.772	1
40B. Nitrobenzene (98-95-3)	X		X	<0.002	<0.365					1	mg/l	lb/day	<0.002	<0.965	1
41B. N-Nitrosodimethylamine (62-75-9)	X		X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X		X	<0.002	<0.365					1	mg/l	lb/day	<0.002	<0.965	1

CONTINUE ON REVERSE

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6_	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
44B. Phenanthrene (85-01-8)	X		X	<0.0054	<0.987					1	mg/l	lb/day	<0.0054	<2.61	1
45B. Pyrene (129-00-0)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
46B. 1,2,4-Trichlorobenzene (120-82-1)	X		X	<0.0019	<0.347					1	mg/l	lb/day	<0.0019	<0.917	1
GC/MS FRACTION — PESTICIDES															
1P. Aldrin (309-00-2)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
2P. α-BHC (319-84-6)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
3P. β-BHC (319-85-7)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
4P. γ-BHC (58-89-9)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
5P. δ-BHC (319-86-8)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
6P. Chlordane (57-74-9)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
7P. 4,4'-DDT (50-29-3)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
8P. 4,4'-DDE (72-55-9)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
9P. 4,4'-DDD (72-54-8)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
10P. Dieldrin (60-57-1)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
11P. α-Endosulfan (115-29-7)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
12P. β-Endosulfan (115-29-7)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
13P. Endosulfan Sulfate (1031-07-8)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
14P. Endrin (72-20-8)			X	<0.001	<0.183					1	mg/l	lb/day	<0.001	<0.483	1
15P. Endrin Aldehyde (7421-93-4)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
16P. Heptachlor (76-44-8)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1

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CONTINUED FROM PAGE V-8

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
GA0004120	01

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1
18P. PCB-1242 (53469-21-9)			X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
19P. PCB-1254 (11097-69-1)			X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
20P. PCB-1221 (11104-28-2)			X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
21P. PCB-1232 (11141-16-5)			X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
22P. PCB-1248 (12672-29-6)			X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
23P. PCB-1260 (11096-82-5)			X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
24P. PCB-1016 (12674-11-2)			X	<0.005	<0.914					1	mg/l	lb/day	<0.005	<2.41	1
25P. Toxaphene (8001-35-2)			X	<0.003	<0.548					1	mg/l	lb/day	<0.003	<1.45	1

EPA FORM 2C SECTION V

Intake and Effluent Characteristics
Consolidated Permits Program

Edwin I. Hatch Nuclear Plant
NPDES No. GA0004120

Unit 2 Effluent

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)* GA0004120

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 02

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCEN-TRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCEN-TRATION	b. MAXIMUM 30 DAY VALUE (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCEN-TRATION	c. LONG TERM AVRG. VALUE (2) MASS	d. NO. OF ANALYSES	3. UNITS *(specify if blank)* a. CONCEN-TRATION	b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCEN-TRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	3	395					1	mg/l	lb/day	<2	<965	1
b. Chemical Oxygen Demand (COD)	17	2,238					1	mg/l	lb/day	9	4,344	1
c. Total Organic Carbon (TOC)	5.92	779.5					1	mg/l	lb/day	2.47	1,192.3	1
d. Total Suspended Solids (TSS)	26	3,423.5					1	mg/l	lb/day	7	3,379.0	1
e. Ammonia *(as N)*	0.42	55.30					1	mg/l	lb/day	<0.01	<4.83	1
f. Flow	VALUE 10,964		VALUE		VALUE		3	gpm		VALUE 40,194		36
g. Temperature *(winter)*	VALUE 28		VALUE 23		VALUE 21		40	°C		VALUE 11		USGS Data
h. Temperature *(summer)*	VALUE 34		VALUE 32		VALUE 32		40	°C		28		USGS Data
i. pH	MINIMUM 6.6	MAXIMUM 8.5	MINIMUM 7.2	MAXIMUM 8.3			157	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data for an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. Believed Present	b. Believed Absent	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCEN-TRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCEN-TRATION	b. MAXIMUM 30 DAY VALUE (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCEN-TRATION	c. LONG TERM AVRG. VALUE (2) MASS	d. NO. OF ANAL-YESES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCEN-TRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANAL-YSES
a. Bromide (24959-67-9)	X		0.050	6.58					1	mg/l	lb/day	0.050	24.14	1
b. Chlorine, Total Residual	X		<0.01	<1.32	<0.01	--	<0.01	--	159	mg/l	lb/day	<0.01	<4.83	1
c. Color	X		3	--					1	PCU		28	--	1
d. Fecal Coliform	X		2	--					1	col/100 ml		98	--	1
e. Fluoride (16984-48-8)	X		0.44	57.94					1	mg/l	lb/day	0.28	135.16	1
f. Nitrate-Nitrite *(as N)*	X		1.47	193.56					1	mg/l	lb/day	0.63	304.11	1

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic *(as N)*	X		0.63	82.95					1	mg/l	lb/day	0.33	159.30	1
h. Oil and Grease	X		<1.4	<184.3					1	mg/l	lb/day	<1.4	<675.8	1
I. Phosphorus (as P) Total (7723-14-0)	X		0.22	28.97					1	mg/l	lb/day	0.06	28.96	1
J. Radioactivity														
(1) Alpha, Total	X		<1.7	--					1	pCi/L		<1.1	--	1
(2) Beta, Total	X		8.1	--					1	pCi/L		2.6	--	1
(3) Radium, Total	X		0.4	--					1	pCi/L		<0.2	--	1
(4) Radium 226, Total	X		0.4	--					1	pCi/L		0.1	--	1
k. Sulfate *(as SO_4)* (14808-79-8)	X		70.00	9,217.13					1	mg/l	lb/day	28.60	13,805.62	1
l. Sulfide *(as SO_3)* (14265-45-3)		X	<0.01	<1.32					1	mg/l	lb/day	0.09	43.44	1
m. Sulfite *(as SO_3)* (14265-45-3)	X		0.55	72.42					1	mg/l	lb/day	0.40	193.09	1
n. Surfactants	X		0.04	5.27					1	mg/l	lb/day	0.02	9.65	1
o. Aluminum, Total (7440-39-3)	X		1.05	138.26					1	mg/l	lb/day	0.388	187.29	1
p. Barium, Total (7440-39-3)		X	0.064	8.43					1	mg/l	lb/day	0.023	11.10	1
q. Boron, Total (7440-42-8)		X	0.126	16.59					1	mg/l	lb/day	0.059	28.48	1
r. Cobalt, Total (7440-48-4)		X	0.001	0.132					1	mg/l	lb/day	<0.001	<0.483	1
s. Iron, Total (7439-89-6)	X		2.83	372.64					1	mg/l	lb/day	0.552	266.46	1
t. Magnesium, Total (7439-95-4)	X		4.62	608.33					1	mg/l	lb/day	2.12	1,023.35	1
u. Molybdenum, Total (7439-98-7)	X		<0.01	<1.32					1	mg/l	lb/day	<0.01	<4.83	1
v. Manganese, Total (7439-96-5)	X		0.132	17.38					1	mg/l	lb/day	0.061	29.45	1
w. Tin, Total (7440-31-5)		X	0.002	0.263					1	mg/l	lb/day	0.004	1.93	1
x. Titanium, Total (7440-32-6)	X		0.028	3.69					1	mg/l	lb/day	0.015	7.24	1

CONTINUE ON PAGE V-3

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
GA0004120	02

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OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for the pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X		X	<0.003	<0.395					1	mg/l	lb/day	0.008	3.86	1
2M. Arsenic, Total (7440-38-2)	X		X	<0.004	<0.527					1	mg/l	lb/day	<0.004	<1.93	1
3M. Beryllium, Total, 7440-41-7	X		X	<0.001	<0.132					1	mg/l	lb/day	<0.001	<0.483	1
4M. Cadmium, Total (7440-43-9)	X		X	<0.001	<0.132					1	mg/l	lb/day	<0.001	<0.483	1
5M. Chromium Total (7440-47-3)	X		X	0.003	0.395					1	mg/l	lb/day	0.001	0.483	1
6M. Copper, Total (7440-50-8)	X	X		0.003	0.395					1	mg/l	lb/day	<0.001	<0.483	1
7M. Lead, Total (7439-92-1)	X	X		<0.002	<0.263					1	mg/l	lb/day	<0.002	<0.965	1
8M. Mercury, Total (7439-97-6)	X		X	<0.0002	<0.026					1	mg/l	lb/day	<0.0002	<0.097	1
9M. Nickel, Total (7440-02-0)	X		X	0.001	0.132					1	mg/l	lb/day	<0.001	<0.483	1
10M. Selenium, Total (7782-49-2)	X		X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
11M. Silver, Total (7440-22-4)	X		X	0.002	0.263					1	mg/l	lb/day	0.004	1.93	1
12M. Thallium, Total (7440-28-0)	X		X	<0.002	<0.263					1	mg/l	lb/day	<0.002	<0.965	1
13M. Zinc, Total (7440-66-6)	X	X		0.039	5.14					1	mg/l	lb/day	0.014	6.78	1
14M. Cyanide, Total (57-12-5)	X		X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
15M. Phenols, Total	X		X	<0.01	<1.32					1	mg/l	lb/day	<0.01	<4.83	1
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1V. Acrolein (107-02-8)	X		X	<0.002	<0.263					1	mg/l	lb/day	<0.002	<0.965	1
2V. Acrylonitrile (107-13-1)	X		X	<0.001	<0.132					1	mg/l	lb/day	<0.001	<0.483	1
3V. Benzene (71-43-2)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
4V. Bis(*Chloromethyl*) Ether (542-88-1)			X	--	--					0	mg/l	lb/day	--	--	0
5V. Bromoform (75-25-2)	X		X	<0.0030	<0.395					1	mg/l	lb/day	<0.0030	<1.45	1
6V. Carbon Tetrachloride(56-23-5)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
7V. Chlorobenzene (108-90-7)	X		X	<0.0010	<0.132					1	mg/l	lb/day	<0.0010	<0.483	1
8V. Chlorodibromo-methane (124-48-1)	X		X	<0.0010	<0.132					1	mg/l	lb/day	<0.0010	<0.483	1
9V. Chloroethane (75-00-3)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
10V. 2-Chloro-ethylvinyl Ether (110-75-8)	X		X	<0.0010	<0.132					1	mg/l	lb/day	<0.0010	<0.483	1
11V. Chloroform (67-66-3)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
12V. Dichlorobromo-methane (75-71-8)	X		X	<0.0010	<0.132					1	mg/l	lb/day	<0.0010	<0.483	1
13V. Dichlorodifluoro-methane (75-71-8)			X	--	--					0	mg/l	lb/day	--	--	0
14V. 1,1-Dichloro-ethane (75-34-3)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
15V. 1,2-Dichloro-ethane (107-06-2)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
16V. 1,1-Dichloro-ethylene (75-35-4)	X		X	<0.0010	<0.132					1	mg/l	lb/day	<0.0010	<0.483	1
17V. 1,2-Dichloro-propane (78-87-5)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
18V. 1,3-Dichloro-propylene (542-75-6)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
19V. Ethylbenzene (100-41-4)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
20V. Methyl Bromide (74-83-9)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
21V. Methyl Chloride (74-87-3)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
GA0004120	02

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
23V.1,1,2,2Tetra-chloroethane (79-34-5)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
24V. Tetrachloroethylene (127-18-4)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
25V. Toluene (108-88-3)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
26V. 1,2-Trans-Dichloro-ethylene (156-60-5)	X		X	<0.0010	<0.132					1	mg/l	lb/day	<0.0010	<0.483	1
27V. 1,1,1-Trichloroethane (71-56-6)	X		X	<0.0010	<0.132					1	mg/l	lb/day	<0.0010	<0.483	1
28V. 1,1,2-Trichloroethane (79-00-5)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
29V. Trichloroethylene (79-01-6)	X		X	<0.0020	<0.263					1	mg/l	lb/day	<0.0020	<0.965	1
30V. Trichlorofluoro-methane (75-69-4)			X	--	--					0	mg/l	lb/day	--	--	0
31V. Vinyl Chloride (75-01-4)	X		X	<0.0010	<0.132					1	mg/l	lb/day	<0.0010	<0.483	1
GC/MS FRACTION — ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X		X	<0.0033	<0.435					1	mg/l	lb/day	<0.0033	<1.59	1
2A. 2,4-Dichlorophenol (120-83-2)	X		X	<0.0027	<0.356					1	mg/l	lb/day	<0.0027	<1.30	1
3A. 2,4-Dimethylphenol (105-67-9)	X		X	<0.0027	<0.356					1	mg/l	lb/day	<0.0027	<1.30	1
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X		X	<0.024	<3.16					1	mg/l	lb/day	<0.024	<11.59	1
5A. 2,4-Dinitrophenol (51-28-5)	X		X	<0.042	<5.53					1	mg/l	lb/day	<0.042	<20.27	1
6A. 2-Nitrophenol (88-75-5)	X		X	<0.0036	<0.474					1	mg/l	lb/day	<0.0036	<1.74	1
7A. 4-Nitrophenol (100-02-7)	X		X	<0.0024	<0.316					1	mg/l	lb/day	<0.0024	<1.16	1
8A. P-Chloro-M-Cresol (59-50-7)	X		X	<0.0030	<0.395					1	mg/l	lb/day	<0.0030	<1.45	1
9A. Pentachlorophenol (87-86-5)	X		X	<0.0036	<0.474					1	mg/l	lb/day	<0.0036	<1.74	1
10A. Phenol (108-95-2)	X		X	<0.0015	<0.198					1	mg/l	lb/day	<0.0015	<0.724	1
11A. 2,4,6-Trichloro-phenol (88-06-2)	X		X	<0.0027	<0.356					1	mg/l	lb/day	<0.0027	<1.30	1

CONTINUE ON REVERSE

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
2B. Acenaphtylene (208-96-8)	X		X	<0.0035	<0.461					1	mg/l	lb/day	<0.0035	<1.69	1
3B. Anthracene (120-12-7)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
4B. Benzidine (92-87-5)	X		X	<0.044	<5.79					1	mg/l	lb/day	<0.044	<21.24	1
5B. Benzo *(a)* Anthracene (56-55-3)	X		X	<0.0078	<1.03					1	mg/l	lb/day	<0.0078	<3.76	1
6B. Benzo *(a)* Pyrene (50-32-8)	X		X	<0.0025	<0.329					1	mg/l	lb/day	<0.0025	<1.21	1
7B. 3,4-Benzo-fluoranthene (205-99-2	X		X	<0.0048	<0.632					1	mg/l	lb/day	<0.0048	<2.32	1
8B. Benzo *(ghi)* Perylene (191-24-2)	X		X	<0.0041	<0.540					1	mg/l	lb/day	<0.0041	<1.98	1
9B. Benzo *(k)*Fluoranthene (207-08-9)	X		X	<0.0025	<0.329					1	mg/l	lb/day	<0.0025	<1.21	1
10B. Bis *(2-Chloroethoxy)* Methane (111-91-1)	X		X	<0.0053	<0.698					1	mg/l	lb/day	<0.0053	<2.56	1
11B. Bis *(2-Chloroethyl)* Ether (111-44-4)	X		X	<0.0057	<0.751					1	mg/l	lb/day	<0.0057	<2.75	1
12B. Bis *(2-Chloro-isopropyl)* Ether (102-60-1)	X		X	<0.0057	<0.751					1	mg/l	lb/day	<0.0057	<2.75	1
13B. Bis *(2-Ethylhexyl)* Phthalate (117-81-7)	X		X	0.0066	0.869					1	mg/l	lb/day	<0.0025	<1.21	1
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
15B. Butyl Benzyl Phthalate (85-68-7)	X		X	<0.0025	<0.329					1	mg/l	lb/day	<0.0025	<1.21	1
16B. 2-Chloronaphthalene (91-58-7)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X		X	<0.0042	<0.553					1	mg/l	lb/day	<0.0042	<2.03	1
18B. Chrysene (218-01-9)	X		X	<0.0025	<0.329					1	mg/l	lb/day	<0.0025	<1.21	1
19B. Dibenzo *(a,h)* Anthracene (53-70-3)	X		X	<0.0025	<0.329					1	mg/l	lb/day	<0.0025	<1.21	1
20B. 1,2-Dichloro-benzene (95-50-1)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
21B. 1,3-Dichloro-benzene (541-73-1)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1

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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
GA0004120	02

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)	X		X	<0.0044	<0.579					1	mg/l	lb/day	<0.0044	<2.12	1
23B. 3,3-Dichlorobenzidine (91-94-1)	X		X	<0.0165	<2.17					1	mg/l	lb/day	<0.0165	<7.96	1
24B. Diethyl Phthalate (84-66-2)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
25B. Dimethyl Phthalate (131-11-3)	X		X	<0.0016	<0.211					1	mg/l	lb/day	<0.0016	<0.772	1
26B. Di-N-Butyl Phthalate (84-74-2)	X		X	<0.0025	<0.329					1	mg/l	lb/day	<0.0025	<1.21	1
27B. 2,4-Dinitrotoluene (121-14-2)	X		X	<0.0057	<0.751					1	mg/l	lb/day	<0.0057	<2.75	1
28B. 2,6-Dinitrotoluene (606-20-2)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
29B. Di-N-OctylPhthalate (117-84-0)	X		X	<0.0025	<0.329					1	mg/l	lb/day	<0.0025	<1.21	1
30B. 1,2-Diphenyl-hydrazine *(as Azobenzene)* (122-66-7)	X		X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
31B. Fluoranthene (206-44-0)	X		X	<0.0022	<0.290					1	mg/l	lb/day	<0.0022	<1.06	1
32B. Fluorene (86-73-7)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
33B. Hexachlorobenzene (118-74-1)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
34B. Hexachlorobutadiene (87-68-3)	X		X	<0.0009	<0.119					1	mg/l	lb/day	<0.0009	<0.434	1
35B. Hexachlorocyclo-pentadiene (77-47-4)	X		X	<0.001	<0.132					1	mg/l	lb/day	<0.001	<0.483	1
36B. Hexachloroethane (67-72-1)	X		X	<0.0016	<0.211					1	mg/l	lb/day	<0.0016	<0.772	1
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)	X		X	<0.0037	<0.487					1	mg/l	lb/day	<0.0037	<1.79	1
38B. Isophorone (78-59-1)	X		X	<0.0022	<0.290					1	mg/l	lb/day	<0.0022	<1.06	1
39B. Naphthalene (91-20-3)	X		X	<0.0016	<0.211					1	mg/l	lb/day	<0.0016	<0.772	1
40B. Nitrobenzene (98-95-3)	X		X	<0.002	<0.263					1	mg/l	lb/day	<0.002	<0.965	1
41B. N-Nitrosodimethylamine (62-75-9)	X		X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X		X	<0.002	<0.263					1	mg/l	lb/day	<0.002	<0.965	1

CONTINUE ON REVERSE

CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
44B. Phenanthrene (85-01-8)	X		X	<0.0054	<0.711					1	mg/l	lb/day	<0.0054	<2.61	1
45B. Pyrene (129-00-0)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
46B. 1,2,4-Trichlorobenzene (120-82-1)	X		X	<0.0019	<0.250					1	mg/l	lb/day	<0.0019	<0.917	1
GC/MS FRACTION — PESTICIDES															
1P. Aldrin (309-00-2)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
2P. α-BHC (319-84-6)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
3P. β-BHC (319-85-7)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
4P. γ-BHC (58-89-9)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
5P. δ-BHC (319-86-8)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
6P. Chlordane (57-74-9)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
7P. 4,4'-DDT (50-29-3)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
8P. 4,4'-DDE (72-55-9)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
9P. 4,4'-DDD (72-54-8)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
10P. Dieldrin (60-57-1)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
11P. α-Endosulfan (115-29-7)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
12P. β-Endosulfan (115-29-7)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
13P. Endosulfan Sulfate (1031-07-8)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
14P. Endrin (72-20-8)			X	<0.001	<0.132					1	mg/l	lb/day	<0.001	<0.483	1
15P. Endrin Aldehyde (7421-93-4)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
16P. Heptachlor (76-44-8)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1

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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
GA0004120	02

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. Testing Required	b. Believed Present	b. Believed Absent	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1
18P. PCB-1242 (53469-21-9)			X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
19P. PCB-1254 (11097-69-1)			X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
20P. PCB-1221 (11104-28-2)			X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
21P. PCB-1232 (11141-16-5)			X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
22P. PCB-1248 (12672-29-6)			X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
23P. PCB-1260 (11096-82-5)			X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
24P. PCB-1016 (12674-11-2)			X	<0.005	<0.658					1	mg/l	lb/day	<0.005	<2.41	1
25P. Toxaphene (8001-35-2)			X	<0.003	<0.395					1	mg/l	lb/day	<0.003	<1.45	1

Requested Permit Revisions

Edwin I. Hatch Nuclear Plant
NPDES No. GA0004120

Specific Revisions and Updates
Requested for Permit Renewal

Proposed Revisions:

1. Historical sampling data for outfalls 01E and 02E (Liquid Radwaste System) clearly demonstrates compliance with effluent limitations. SNC requests that the sampling frequency for these outfalls be reduced from once per quarter to once per six-months. Past data indicates that more frequent sampling is not warranted based on consistent compliance.