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NPE Continuous Us	DES PERMIT IMPLEMENTATION AND CON         PROCEDURE USAGE REQUIREMENTS-         Se:       Procedure must be open and readily available at the work location. Follow procedure step by step unless otherwise directed.	NTROL SECTIONS NONE
NPC Continuous Use	<b>PROCEDURE USAGE REQUIREMENTS-</b> Se:       Procedure must be open and readily available at the work location. Follow procedure step by step unless otherwise directed.         :       Procedure or applicable section(s) available at the work location for ready reference by person performing steps.	NTROL SECTIONS NONE 4.0 To END

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# **INFORMATION USE**

# 1.0 <u>PURPOSE</u>

This procedure outlines sampling and shipping instructions for compliance with the Vogtle National Pollutant Discharge Elimination System (NPDES) permit (See Figure 4). It also outlines instructions for handling the quarterly report, flow study, breakdown logs, and priority pollutant certification.

## 2.0 PRECAUTIONS AND LIMITATIONS

- 2.1 If any conflict results between this procedure and the NPDES permit, this procedure shall be revised to conform to the NPDES permit.
- **2.2** IMMEDIATELY notify laboratory supervision of any NPDES Waste Treatment System that is inoperable, bypassed or overflowing.
- 2.3 Due to plant Vogtle's unique Circulating Tower Flume blowdown design, simultaneous chlorination is interpreted by Corporate Environmental Affairs as being in compliance with the NPDES permit.
- 2.4 Biological growth and stability index are controlling factors in determining the need for simultaneous chlorination.
  - 2.4 NPDES samples should be obtained and analyzed early in the day so that an additional sample or confirmatory sample can be obtained and analyzed within the same day if deemed necessary by Chemistry Management.
  - 2.5 NPDES exceedences may require a 24-hour notification to the Georgia EPD. Therefore, for all exceedences immediately notify the Control Room and Chemistry Management.
  - 2.6 Waste water retention basin (wwrb) samples must be obtained from either the main or alternate sample points while the basins are being discharged. Samples obtained while the basins are on "recirc" are considered "information only" and are not normally considered to be valid samples for the NPDES compliance. These information only samples should be annotated accordingly on the log sheet and in the database.
  - 2.7 The NPDES permit expiration date may be extended by the Georgia Department of Natural Resources-EPD beyond the date shown on the original permit. Written notification of this extension should be filed with Environmental Services.

# 3.0 <u>PREREQUISITES AND INITIAL CONDITIONS</u>

Sampling for environmental parameters shall be conducted periodically per Procedure 30025-C, "Periodic Analysis Scheduling Program".

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4.0	PR(	OCEDHRE	
	<u></u>	NOTE	
		NOIF	
		Sample bottle preparations are not applicable to prepared bottles pr the Central Lab.	ovided by
4.1	PRF	EPARING SAMPLE BOTTLES	
	Samj samŗ Meta	ples are to be collected in clean plastic or glass bottles. Biochemical of ples and oil and grease samples are to be preserved by storing and sl al and oil and grease samples are preserved with acid.	oxygen demand hipping on ice.
		NOTE	
		Acid preservations may be added to bottles before sample collec samples (in bottles) very soon after collection.	tion or to
4.1.1	Meta	als	
	a.	Rinse a clean 1000 ml plastic bottle and its cap with reagent wate drain.	er and allow to
	b.	Add 3 to 4 milliliters of concentrated nitric acid (HNO3) to the pre-	washed bottle.
	c.	Place cap on bottle securely until sample is ready to be taken.	
4.1.2	Oil a	and Grease (O & G)	
	a.	Use a clean glass bottle (approximately 500 - 1000 ml).	
	b.	Acidify the sample by adding 2 ml of H2S04 solution if needed.	
	C	Samples that are not to be analyzed immediately should be kent cold	1
		Samples that are not to be analyzed miniculatory should be kept con.	•
	d.	Samples to be shipped to an offsite laboratory should be shipped in	ice.
	e.	Samples should be analyzed within 28 days of the collection date.	
		Otherwise, the sample is considered invalid.	

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		NOTE	
		BOD samples shall be shipped overnight, in order that the of should receive the sample(s) the following morning after collect	fsite laboratory tion.
4.1.3	Bioc	chemical Oxygen Demand (BOD)	
	a.	Rinse a clean 500 ml plastic bottle and its cap with reagent wa drain.	ter and allow to
	b.	Place cap on bottle until sample is ready to be taken.	
	c.	Obtain an insulated box or cooler suitable for shipping iced sample	es.
	d.	Secure lid on ice-filled container until sample is collected.	
	e.	Pack samples in the ice-filled container.	
4.1.4	Susp	pended Solids (TSS)	
	а.	Rinse a clean 1000 ml plastic bottle and its cap with reagent wa drain.	ter and allow to
	b.	Place cap on bottle until sample is ready to be collected.	
	с.	Pack sample in ice filled containers for shipping and/or storage put	rposes.
	d.	Samples should be analyzed within 7 days of the collection date. be kept cold if not analyzed immediately.	Samples should
4.2	COI	LLECTING ENVIRONMENTAL SAMPLES	
4.2.1	The Towe Towe Sewa and envir	Final Plant Discharge, Unit 1 and 2 Cooling Tower Blowdown, Unit er Emergency Overflow to storm drain, Unit 1 and 2 Waste Water R age Treatment Plant Emergency Overflow, Unit 1 and 2 Liquid Ra Unit 1 and 2 Nuclear Service Cooling Tower Blowdown are to ronmental parameters listed on Table 1.	1 and 2 Cooling etention Basins, dwaste Systems be sampled for
4.2.2	Sam Refer prepa	ple bottles should be prepared before samples are taken to ensure ac r to Section 4.1 of this procedure for detailed information on sa aration.	curate analysis. ample container
4.2.3	Whe	en collecting samples, do not allow sample to overflow from samp	le bottles which

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L.V					
	4.2.4	Lab	bel samples according to instructions furnished by the Environmental Lab	boratory.	
	4.2.5	Off San to o	ficial NPDES Sample Points and approved EPA Procedures are listed nples not taken from these points or analyzed with these procedures are outside agencies.	i on Table 2. not reportable	
	4.2.6	Wh basi sam	ten obtaining an Official NPDES waste water retention basin sample, in to be sampled is being discharged. Official NPDES waste water r uples should be obtained from the normal sample point (see Figure 7):	verify that the etention basin	
	4.2.6.1	1(2)	.) -1420-U4-613 which is normally open (NO).		
	4.2.6.2	If the alter	he sample can not be obtained from the normal sample point, then use rnate sample point (see Figure 7):	the following	
	4.2.6.3	1(2)	) -1420-U4-611 which is normally closed (NC).		
			NOTE		
9			To aid in troubleshooting questionable samples or analysis recommended to collect replicate samples, particularly of the war retention basins. If a questionable result is obtained, one or more replicates can be analyzed (either on site or by an independent la attempt to determine the most accurate analytical results. Lab Sup may direct or waive replicate sampling.	s, it is astewater re of the ab) in an pervision	
	4.2.7	Off poss anal	ficial NPDES samples should be obtained early in the day and analyz sible so that an additional sample or confirmatory sample can be lyzed within the same day if deemed necessary by Chemistry Manageme	ed as soon as obtained and ent.	
	4.2.8	Off the roor Cor	icial NPDES sample results should be immediately compared to the peresults exceed the permit limits, immediately notify lab supervision a m so that the GA EPD can be notified within 24 hours. This notificati porate Environmental Services.	ermit limits. If and the control ion is made by	,
	4.2.9	If th labo shou non	ne official NPDES sample results exceed the permit limits, Chemistry Noratory supervision should initiate an additional sample. The sample uld be expedited so that the results can be obtained with the same day conforming sample.	fanagement or and analysis as the original	
	4.2.10	INF	<sup>3</sup> O ONLY samples of the waste water retention basin can also be pulled.	,	I

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	4.2.10.1	Wh basi	en obtaining an INFO ONLY retention basin sample, verify with Oper in to be sampled <u>IS ON RECIRC</u> .	ations that the	;
	4.2.10.2	The reci	e samples can be pulled from any of the waste water retention basin rc isolation valve discharge lines:	transfer pump	ł
		a.	1(2) -HV-7681,		
		b.	1(2)-HV-7682, or		
		c.	1(2)-HV-7683.		
	4.2.10.3	The OFF <u>DIS</u>	ese samples can be analyzed and checked against NPDES parameters; FICIAL samples are obtained <u>ONLY WHEN THE BASIN</u> CHARGED.	however, the IS BEING	í F
	4.3	SH LAI	HIPPING ENVIRONMENTAL SAMPLES TO THE ENVIROBORATORY	ONMEN'TAL	1
	4.3.1	Che	ck caps on bottles to make sure they are tight.		
	4.3.2	Mał	ke certain that the sample bottles are labeled.		
	4.3.3	Pac for a ship	kage samples in box approved for shipping samples. A cardboard bo all bottles except TSS, BOD samples and oil and grease samples wh ped on ice.	x is sufficient ich should be	
	4.3.4	Fill File	out the Analysis Request and Chain of Custody Record Form (Examp the pink copy of this form in the lab for future sample traceability.	ple Figure 6).	
			NOTE		
			BOD samples shall be shipped overnight, in order that the offsite la should receive the sample(s) the following morning after collection.	boratory	
	4.3.5	Shir	samples (normally on the same day as collected) to:		
			GEORGIA POWER COMPANY ENVIRONMENTAL LABORATORY 5131 MANER ROAD SMYRNA, GEORGIA 30080		
	4.3.6	San any Envi	aple results from the Environmental Laboratory are transmitted to Pla result is in violation of the NPDES Permit, notify NSAC who in ironmental Services.	ant Vogtle. If turn notifies	

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	4.4	AN	ALYZIN	IG ENVIRONMENTAL SAMPLES		
		The	followin	g samples are normally analyzed on site:		
	1 - -	a.	Final	Discharge - pH and hydrazine		
		b.	Cooli	ing Tower Blowdown - Free and Total Chlorine		
		c.	Cooli	ng Tower Emergency Overflow - Free and Total Chlorine		
		d.	Nucle	ear Service Cooling Tower Blowdown - Free Chlorine		
				NOTES		
			a.	During periods of dechlorination, the cooling tower blo samples may be collected at the final discharge.	wdown	
<u> </u>			b.	Samples to be analyzed for Total Suspended Solids or Grease are to be shipped to the Georgia Power Central I analysis.	Dil and Lab for	
	4.4.1	Onc mon Rady	e per q itor tank waste Ta	uarter, analyze Unit 1 and Unit 2 liquid radwaste system s s) for suspended solids and oil and grease. Log results on the l nk Log (Figure 1A) for record retention.	amples (waste NPDES Liquic	e 1
	4.4.2	Twi resul	ce per n ts on the	nonth, analyze the WWRB's for suspended solids and oil an NPDES Waste Water Retention Basin Log (Figure 1B) for re-	d grease. Log cord retention.	3
	4.4.3	At l NPD	east twie ES Fina	ce per month, analyze a final discharge sample for pH. Log l Discharge Log (Figure 3) for record retention.	results on the	2
	4.4.4	Chle logge	orine (be ed on the	oth free and total) are measured during periods of chloring Chlorination/Dechlorination Log Sheet in Procedure 35565-C	ation. Data is 2.	5

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	4.5	AN	NUAL ENVIRONMENTAL OPERATING REPORT		
		A re year subs	port describing implementation of the Environmental Protection Plan for the Environmental Protection Plan for the Section 5.4.1.	or the previous Appendix B	5
		This prote oper an a harn obse be it	s report shall include summaries and analyses of the results of the ection activities, including comparison with related preoperati rational controls, and previous nonradiological environmental monitorin assessment of the observed impact of the plant operation on the en nful effects or evidence of trends toward irreversible damage to the er erved, a detailed analysis of the data and a proposed course of mitigati- ncluded. The report shall also include:	environmental ional studies, ng reports, and ivironment. If ivironment are ng action shal	1 , 1 f 2 1
		a.	A list of Environmental Protection Plan noncompliances and corr taken to remedy them.	rective actions	5
		b.	A list of all changes in station design or operation, tests, and experience per subsection 3.1 of the Environmental Protection Plan whi potentially significant unreviewed environmental question.	eriments made ich involve a	e 1
$\smile$		с.	A list of nonroutine reports submitted per subsection 5.4.2 of the I Protection Plan.	Environmental	I
		The Man and I Offi	complete report is due annually on the first day of May. The report is prager of Environmental Affairs and reviewed by the Manager of Nuclear Licensing. It is then forwarded to the Nuclear Regulatory Commission- ice.	repared by the r Engineering Regional	
	4.6	QU	ARTERLY AND ANNUAL REPORTS		
		Qua Man certi	arterly and Annual reports sent to the EPD are to be signed by the lager or his designee. The person signing these documents shall make ification:	Plant General the following	l Ş
		"I c unde quali my i respo knov pena	certify under penalty of law that this document and all attachments or my direction or supervision in accordance with a system designed ified personnel properly gathered and evaluated the information submi inquiry of the person or persons who manage the system, or those per onsible for gathering the information, the information submitted is, to wledge and belief, true, accurate, and complete. I am aware that there alties for submitting false information, including the possibility	were prepared to assure that tted. Based on ersons directly the best of my are significant of fine and	1 t 7 7 t
Lak .		impr	risonment for knowing violations."		

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# 4.6.1 QUARTERLY OPERATION MONITORING REPORT

Analytical data required by the NPDES Permit is to be compiled quarterly by the Nuclear Specialist, using the OPERATION MONITORING REPORT form. Individual analytical results, minimum, maximum, and average values are to be included where applicable.

The completed, typewritten form is to be delivered to NSAC by the seventeenth day of the appropriate month (April, July, October, or January) for review. NSAC will temporarily file the working copy and forward the original to Environmental Affairs. NSAC shall file the report in accordance with permit requirements (minimum of three years).

# 4. 6.2 ANNUAL NPDES FLOW CHARACTERIZATION STUDY

Annually, flow monitoring and characterization information regarding the various waste streams is obtained. Measurements should be made of the Unit 1 and 2 Cooling Tower Blowdown, Unit 1 and 2 Waste Water Retention Basin, Unit 1 and 2 Nuclear Service Cooling Tower Blowdown, Sewage Treatment Plant, and River Water Make Up to Radwaste Dilution, all of which dump into the Blowdown Sump.

The measurements should be made for each day of the 14 day period and a daily average gpm and a daily maximum gpm should be calculated. Send the results to NSAC who forwards them to the Environmental Services in Birmingham.

# 4. 6.3 ANNUAL PRIORITY POLLUTANT CERTIFICATION

A certification is needed annually from all manufacturers/vendors of chemicals added to the Circulating Water System stating that no priority pollutants other than Cr and Zn (which we measure quarterly) are present in the products supplied by them for use in treatment of the cooling tower water. A copy should be sent to Performance Analysis who forwards them to Environmental Services in Birmingham.

4.6.3.1 A Priority Pollutant Sampling is required before every NPDES permit renewal (every 5

years). This sampling is normally contracted out to a qualified independent company.

The results of this study will be forwarded to Environmental Services in Birmingham.

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لاک	4.6.4	ANNUAL WATER TREATMENT CHEMICAL INVENTORY	
		The permittee shall submit to a current inventory of all water treatmed discharged during the previous twelve months. Other than chlorine, this lis is not limited to microbiocides, corrosion inhibitors, and dispersants. A co sent to Performance Analysis who forwards them to Environmental Birmingham.	ent chemicals t includes but opy should be Services in
	4.6.5	ANNUAL METAL CLEANING WASTE TREATMENT	
		A certification is needed annually when metal cleaning waste is generated a discharge to the environment. The treatment and disposal procedures shall be the flow monitoring and characterization submittal.	and treated for e discussed in
	4.7	NPDES EVENTS	
	4.7.1	All effluent limitation non-compliances, changes in the constituents of changes in the location of a permitted discharge, creation of a new dis diversion or bypass must be reported to the Nuclear Specialist. The Nucle should notify NSAC who notifies Southern Nuclear Environment Environmental Services notifies the Georgia EPD. Any effluer non-compliance shall be provided to the Georgia EPD by oral report with from the time the permittee becomes aware of the circumstances. A writer required within five (5) days of becoming aware of such condition. A waive written report may be implemented on a case by case basis by EPD for non-which are orally reported by the permittee within 24 hours of discovery compliance condition.	a discharge, scharge point, lear Specialist tal Services. Int limitation thin 24 hours itten report is er of the 5 day n compliances y of the non-
	4.7.2	Stormwater runoff may include non-storm discharges consisting of dischar fighting activities, fire hydrant flushings, potable water sources include flushings, irrigation drainage, lawn watering, routine external building we does not use detergents or other compounds, pavement washwaters where so of toxic or hazardous materials have not occurred (unless all spilled mater removed) and where detergents are not used, air conditioning uncontaminated springs, uncontaminated groundwater, and foundation or for where flows are not contaminated with process materials such as solvents.	rges from fire ing waterline ashdown that spills or leaks erial has been condensates, footing drains
	4.7.3	The facts surrounding a discharge described in 4.7.1 above should includ limited to the following:	de but not be

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	4.7.3.1	Des	scription of the Event		
		a.	Date and time Event began		
		b.	Anticipated date and time the Event will cease or ceased		
		c.	Parameter(s) in violation of NPDES limitations		
		d.	Flow rate of affected discharge		
	4.7.3.2	Cau	ise of Event		
		a.	Be very specific		
		b.	If cause unknown, give an educated guess as to the probable cause		
	4.7.3.3	Ster Be v	os taken to reduce, eliminate and prevent recurrence of the non-comply very specific.	ring discharge.	
سوريه ک		Plea Log Nuc the o perio	se note that should a discharge continue for an extended period of tir (Figure 2) should be completed and a copy forwarded to the Nuclear S lear Specialist forwards a copy to the Environmental Services Departr quarterly report. The log should include any monitoring results obtained of the event. <b>NOTE</b>	ne, an NPDES Specialist. The nent as part of ned during the	;
			Oil and chemical spills of any quantity must be reported to plant sug and the Chemistry Supervisor immediately, per the Spill Prevention and Countermeasures (SPCC) Plan.	pervision , Control	
	4.7.4	Sho discl the samp once are o Once Labo requi also	build a diversion, bypass or malfunction of any equipment lead to a harge or you have reason to believe that you are discharging a pollutal NPDES Permit more frequently than or at a level in excess of that ple must be collected after the occurrence has continued for a period of a day until the problem has been corrected. The parameters that mus dependent on those set forth in the NPDES Permit for that particular e these samples have been collected, they should be forwarded to the poratory for analysis. A special notation should be made on the che est form to indicate that this is a special analysis and that a copy of t be forwarded via NSAC to the Environmental Services Department.	non-permitted nt identified in t authorized, a two hours and t be monitored waste stream. Environmental mical analysis he results may	!       
4					

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لو	4.8	RECORD KEEPING		
		All NPDES records, including analyses performed, reports, and calib maintenance of instrumentation records shall be retained for a minimum of th longer if requested by the State of Georgia Environmental Protection Division be reviewed and records filed and transmitted to Document Cor out-of-specification parameter shall be promptly reported to laboratory supervi	bration and nree years or Data shall ntrol. Any ision.	
		NOTE		
	i	SNC Environmental Services is responsible for notifying the NRC.		
	4.9	NRC REPORTING REQUIREMENTS		
Ĵ		Reporting related to the NPDES Permit and State Certification, changes to, of, the NPDES Permit or the State Certification shall be reported to the NRC days following the date the change or renewal is approved. If a Permit or Cert part or in its entirety, is appealed and stayed, the NRC shall be notified with following the date the stay is granted. The Licensee shall notify the NRC of the effective NPDES Permit proposed by the Licensee by providing NRC witt the proposed change at the same time it is submitted to the permitting age Licensee shall provide the NRC a copy of the application for renewal of the permit at the same time the application is submitted to the permitting agency.	or renewals C within 30 tification, in hin 30 days f changes to th a copy of gency. The the NPDES	
	5.0	REFERENCES		
	5.1	Standards Methods for Examination of Water and Wastewater, ALPHA, 1981.	•	
	5.2	NPDES Permit Number GA 0026786		
	5.3	Vogtle Electric Generating Plant (VEGP) Spill Prevention, Co Countermeasures (SPCC) Plan For Oil, Hazardous Substances, and Hazardous	ontrol, and Waste.	
	5.4	Procedure 31045-C, "Chemistry Logkeeping, Filing And Records Storage"		
	5.5	NRC Operating License NPF-68		
	5.6	Letter from SONOPCO to Plant Vogtle, "NPDES Discharges To Storm Drain PSE-2083	as" X8BE01	
	5.7	EPA, EPA Methods For Chemical Analysis Of Water And Wastes, Method 41	13.1, 1983.	
	5.8	VEGP Stormwater Pollution Prevention Plan, June 1999.		
		END OF PROCEDURE TEXT		

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LOCATION			DONE BY	TYPE		TS
Unit 1 & 2	<sup>1</sup> Total Cr	0.2 mg/l	<sup>3</sup> Central Lab	7Grab	1/Qtr	<sup>2</sup> Preserved
Cooling Tower	<sup>1</sup> Total Zn	1.0 mg/l	<sup>3</sup> Central Lab	7Grab	1/Qtr	<sup>2</sup> Preserved
Blowdown (Basin/Flume)	6Total Cl2	120 min/day per unit	Site	7Multiple 4Grabs	1/Week	
	6Free Cl2	*Daily Avg. 0.2mg/l Daily Max. 0.5mg/l	7Multiple Site	4Grabs	1/Week	
	Priority Pollutant					<u> </u>
	Certification	N/A	Contractor	N/A	1/5 Yrs.	
	5Flow	N/A	Nuc. Spec.	N/A	Annually	
Unit 1 & 2	1TSS	Daily Avg. 30 mg/l	Site	4Grab	2/Month	
Waste Water		Daily Max. 100 mg/l				
Retention		Daily Avg. 15 mg/l				
Basins	10&G	Daily Max. 20 mg/l	Site	7Grab	2/Month	
	5Flow	N/A	5Nuc. Spec.	N/A	Annually	
Unit 1 & 2	1TSS	Daily Avg. 30 mg/l	Site	7Grab	1/Qtr	ſ
Liquid		Daily Max. 100 mg/l				
Radwaste		Daily Avg. 15 mg/l				
System 10&G Daily Max. 20 mg/l		Daily Max. 20 mg/l	Site	7Grab	1/Qtr	<sup>2</sup> Preserved
	5Flow	N/A	Nuc. Spec.	N/A	Annually	

\* During periods of dechlorination this limit is 0.02 mg/l at the Final Discharge.

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# <u>TABLE 1 (CONT'D.)</u> ENVIRONMENTAL PARAMETERS

SAMPLE LOCATION	PARAMETER	LIMIT	ANALYSIS DONE BY	SAMPLE TYPE	FREQUENCY	COMMENTS
Unit 1 & 2		**Daily Avg. 0.2 mg/1			1/Discharge	
Nuclear	Free Cl2	Daily Max. 0.5 mg/l	Site	Grab	Event	
Cooling Tower						
Blowdown	5Flow	N/A	Nuc. Spec.	N/A	Annually	
Sewage	1BOD5	Daily Avg. 30 mg/l Daily Max. 45 mg/l	<sup>3</sup> Central Lab	7Grab	1/Discharge	
Treatment Plant	рН	60-90	Site	7Grah	1/Discharge	
Emorgonov		0.0 0.0		70100	indischarge	
Overflow	5Flow	N/A	Nuc. Spec.	N/A	Annually	
Final Plant Discharge (Sampling Manhole)	рН	6.0 - 9.0	Site	7Grab	2/Month	

During periods of dechlorination this limit is 0.02 mg/1 at the final discharge.

NOTE

\*\*

- 1 Monitored prior to mixing with other waste streams.
- 2 Sample should not be allowed to overflow. Leave an air space.
- 3 See Section 4.3 of this procedure for shipping instructions.
- 4 Monitored at final mixing chamber following dechlorination system.
- 5 Submit flow to Environmental Services every year.
- 6 Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours per day.
- 7 There shall be no discharge of floating solids or visible foam in other that trace amounts.

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		<u>TABI</u>	<u>DE 2</u>	
		NPDES SAMP	PLE POINTS	
	W 10	Vaste Monitor Tank (2)-1901-T6-009	- Valve 1-1901-U4-503 - Valve 2-1901-U4-408 See 37420-1 and 37420-2	
	W 10	Vaste Monitor Tank (2)-1901-T6-010	- Valve 1(2)-1901-U4-409 See 37420-1 and 37420-2	
	10 W	/aste Monitor Tank (2)-1901-T6-012 Vaste Monitor Tank	- Valve (A)-1901-04-761 See procedure 37420-C - Valve (A)-1901-04-762	
	1( N T	(2)-1901-T6-013 Juclear Service Cooling	See procedure 37420-C See 37363-1 and 37363-2	
	(1 (1 (1	Grain A) Frain B)	- Valve 1(2)-1202-X4-903 - Valve 1(2)-1202-X4-901	
	w Se C	/aste Water Retention Basin         ee Attachment 1 or 2         ooling Tower Blowdown	- Valve 1(2)-1420-U4-613 or - Valve 1(2)-1420-U4-611 - Valve 1(2)-1311-U4-980	
	Se	ee 37360-1 or 37360-2	(or Basin/Flume)	
	E	mergency Overflow	- Sewage Plant Lift Station	
	Fi	inal Discharge	- Sampling manhole	
	0	ooling Tower Emergency verflow	Overflow to storm drain	
			NOTES	
		a. The NPDES Permit som as the blowdown sump.	etimes refers to the Final Discharge	manhole
		b. Lab Supervision may sp necessary.	pecify or approve other sample poin	nts when
		NPDES APPROVED ANA	LYSIS PROCEDURES	
	32	2014-C 32028	-C (Section 5.4 Suspended Solids	
	32	2260-C 32314	- Environmental) -C	
9	32 32	NPDES APPROVED ANA           2014-C         32028           2260-C         32314	LYSIS PROCEDURES -C (Section 5.4 Suspended Solid - Environmental) -C	S

	Approved B Shan Sı	y Indarai	m	V	ogtle El	ectric G	enera	ting Plant			Procedure Number I 36001-C 3		ev
	Date Approv 12/09/20	/ed 004	N	PDES I	PERMIT	IMPLEN	MENTA	ATION ANI	D CONTJ	ROL	Page Nun	aber 16 of 48	_
4				NP	DES LIQ	UID RA	DWAS	FE TANK I	LOG				
								ANAL	YSIS	_			
	SAMP	LING				TSS mg/1			0&G mg/1				
ł			Daily Av	vg. Lim	it	30	1		15	1		-	
		T	<u> Paily Ma</u>	<u>x. Limi</u> T	it T	100	-	Analyst	20	-	Analyst		٦
	Date	Time	Initials	Unit	Tank		Date	Initials		Date	Initials	Reviewed	
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	NOTES	<b>3:</b> 1	. Cor	mments	may be l	ogged in l	oody of	logsheet					
		2.	. <u>An</u> a	<u>lytical</u>	Methods	Used:							
			TSS	S - Proc	edure 32(	)28-C							
6.1			O&(	G - Pro	cedure 32	260-C							
74.J#					Fig	ure 1A—	(EXAN	(IPLE)					

	Approved By Shan Sunc	laram	V	ogtle El	ectric G	enerat	ting Plant			Procedure 36001	Number Rev C 31
4	Date Approved 12/09/2004	<u>ا</u>	NPDES I	PERMIT	IMPLEN	AENTA	ATION ANI	D CONTI	ROL	Page Num	<sup>17</sup> of 48
			NPDES	WASTE	WATER	RETE	NTION BA	SIN LOG	1		
						·	ANAL	YSIS	,		
	SAMDI TI	NC			TSS			0&G			
	JANUI 131	D	aily Avg. Lim	nit	<u>30</u>	-		15	1		
		D	aily Max. Lin	nit	100	]		20			L
	Date	Time	e Initials	Unit		Date	Analyst Initials		Date	Analyst Initials	Reviewed
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	NUTES:	1. 2	Applutical	s may be l	logged in l	body of	iogsneet				
		۷.	Anarytical	wiethous	0360:						
			TSS - Proc O&G - Pro	edure 320 cedure 32	028-C 2260-C						
الوهما	1			Fig	ure 1B—	(EXAN	APLE)				

	Approved By Shan Sunc Date Approved 12/00/2004	laram	NPDE	Vogtle Elec S PERMIT II	tric Generating Plant	<b>NTROL</b>	Proceed 360 Page 1	Jure Number 01-C Number	Re 31 48
ľ	12/09/2004	<u>,</u> 1		PL	ANT		<u> </u>	10 01 4	0
	l			NP	DES EVENT LOG				
	DATE/ TIME EVENT BEGAN	ANTIO OR A DAT CH	CIPATED ACTUAL E/TIME EASES	APPROX. FLOW RATE	CAUSE AND ACTION TAKEN TO REDUCE/ELIMINATE/PR ENT RECURRENCE	EV-	LES EN	SAMPI RESUL	
J.									
				FIGU	JRE 2 - NPDES Log				

	Date Approved 12/09/2004		NPDES PERN	AIT IMPLI	EMENTA'	FION AND CO	NTROL	Page Number 19 of 48
ماد			NPL	DES FINAL	DISCHA	RGE LOG		
			ra T		·	Analysis		
	Date	Time	NG Initials	рН 6 - 9	Date	Analyst   Initials	Reviewed	
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pH - Procedure 32014-C

Figure 3



	Date Approved	NPD	ES PERM	IT IM	PLEMENT	ATION AN	D CONTROI	Page	Numbe:		
Į	12/09/2004								21 of 48		
ر اطسه ا	STATE OF GEO DEPARTMENT ENVIRONMENT	RGIA OF NATURA FAL PROTEC	AL RESOUR CTION DIVI	CES SION				PA Pag Per 002	PART I Page 2 of 24 Permit No. GA 0026786		
	A. EFFLUEN	T LIMITATI	ONS AND M	IONITO	RING REQU	REMENTS					
	1. During the discharge fr to the Savan	e period beg om outfall(s) mah River.	inning effect serial numbe	tive date er(s) 001 -	and lasting t - Final Plant l	hrough May 3 Discharge (Con	1, 2004, the per abined Plant Was	rmittee is au ste Streams U	thorized to Jnits 1 & 2)		
	Such discha										
	<u>Effluent Cha</u> (Specify	oring Require	ementis								
	(		Daily Avg. Da	aily Max.	Daily Avg.	Daily Max.	Measurement Frequency	Sample Type	Sample Location		
ł	Flow (MGD) Hydrazine	*2	-	-	-	-	*1 *3	*1 Grab	*1 Final Outfall		
:26	The	nH shall no									
	twi The	ce per month ere shall be no	t be less that by grab samp discharge o	f floating	dard units no solids or visi	r greater than 9 ble foam in othe	0.0 standard units er than trace amo	and shall be unts.	e monitored		
	twi The *1. Se *2 Se	ce per month ere shall be no e Part III, Sp e Part III, Sp	t be less than by grab samp o discharge o ecial Require ecial Require	f 6.0 stand ple. f floating ements, Ite	dard units no solids or visi em 9. em 16.	r greater than 9 ble foam in oth	9.0 standard units er than trace amo	and shall be unts.	e monitored		
	twi The *1. Se *2 Se *3. Th	ce per month ere shall be no e Part III, Sp e Part III, Sp nis sample is t	t be less thar by grab samp o discharge o ecial Require ecial Require o be collecte	d 0.0 stand ple. f floating ments, Ita ments, Ita d when re	dard units no solids or visi em 9. em 16. equested by th	r greater than 9 ble foam in othe e EPD.	9.0 standard units er than trace amo	and shall be unts.	e monitored		
	twi The *1. Se *2 Se *3. Th	e per month ere shall be no e Part III, Sp e Part III, Sp his sample is t	t be less thar by grab samp o discharge o ecial Require ecial Require o be collecte	d o.0 stan ple. f floating ements, Ite ements, Ite d when re	dard units no solids or visi em 9. em 16. equested by th	r greater than 9 ble foam in othe e EPD.	0.0 standard units er than trace amo	and shall be unts.	e monitored		
	twi The *1. Se *2 Se *3. Th	e part shall he ere shall be no e Part III, Sp e Part III, Sp his sample is t	t be less thar by grab samp o discharge o ecial Require ecial Require to be collecte	f floating f floating ements, Ite ements, Ite d when re	dard units no solids or visi em 9. em 16. equested by th • NPDES I	r greater than 9 ble foam in oth e EPD. <b>Permit (cont</b>	9.0 standard units er than trace amo 'd)	and shall be unts.	e monitored		
	twi The *1. Se *2 Se *3. Th	ce per month ere shall be no e Part III, Sp e Part III, Sp nis sample is t	t be less thar by grab samp o discharge o ecial Require ecial Require to be collecte	f floating f floating ements, Ite ements, Ite d when re	dard units no solids or visi em 9. em 16. equested by th • NPDES I	r greater than 9 ble foam in oth e EPD. <b>Permit (cont</b>	9.0 standard units er than trace amo	and shall be unts.	e monitored		
	twi The *1. Se *2 Se *3. Th	e part shall he ere shall be no e Part III, Sp e Part III, Sp his sample is t	t be less than by grab samp o discharge o ecial Require ecial Require to be collecte	f floating f floating ements, Ita ements, Ita d when re	dard units no solids or visi em 9. em 16. equested by th • NPDES I	r greater than 9 ble foam in oth e EPD. <b>Permit (cont</b>	9.0 standard units er than trace amo 'd)	and shall be unts.	e monitored		
	twi The *1. Se *2 Se *3. Th	ce per month ere shall be no e Part III, Sp e Part III, Sp nis sample is t	t be less than by grab samp o discharge o ecial Require ecial Require o be collecte	f floating f floating ements, Ite ements, Ite d when re	dard units no solids or visi em 9. em 16. equested by th • NPDES I	r greater than 9 ble foam in oth e EPD. <b>Permit (cont</b>	9.0 standard units er than trace amo 'd)	and shall be unts.	e monitored		

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Approved By Shan Sundaram	<b>V</b>	ogtle I	Electr	ic Generati	ing Plant		Procedure Num 36001-C	ber Rev 31	
Date Approved	NPDES	PERMI	T IMF	PLEMENTA	TION AND CO	NTROL	Page Number		
12/09/2004							22 0	of 48	
STATE OF GEOR DEPARTMENT ( ENVIRONMENT	RGIA DF NATURAL R AL PROTECTIO	ESOURC )N DIVIS	ES ION				PART I Page 3 cf 2 Permit No.	4 GA	
							0026786		
2. Du to d Coc and Suc	<ul> <li>During the period beginning effective date and lasting through May 31, 2004, the perm to discharge from outfall(s) serial number(s) 002 and 003 - Unit 1 Cooling Tower Blow Cooling Tower Blowdown, respectively, to final outfall 001, AND 002A and 003A-Unit 1 and Unit 2 Emergency Overflows to storm drains.</li> <li>Such discharges shall be limited and monitored by the permittee as specified below:</li> </ul>								
	Effluent		Di	ischarge Limitatio	<u>ns</u>	Monitor	toring Requirements		
(	<u>Characteristic</u> Specify Units)	Mass 1	Based	Concent	tration Based				
				(	mg/1)	Measurement	Sample	Sample	
		Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency	Туре	Location	
Flow	/ (MGD)	-	-	-	-	*2	*2	*2	
Free Chlo	Available prine	-	-	0.2 mg/1*[ <u>SN1]</u>	0.5 mg/1	1/Week	Multiple *5 Grabs	*1	
Tota Chlo	l Residual rine	-	-	-	-	1/Week	Multiple *5 Grabs	*1	
Time Disc	e of TRC harge*3	-	-	-	120 minutes/day per unit	1/Week	Multiple *5 Grabs	*1	
Tota	l Chromium*8	-	-	-	0.2 mg/1	1/Quarter	Grab	*4	
Tota	l Zinc	-	-	-	1.0 mg/1	1/Quarter	Grab	*4	

\*1 Monitored immediately following dechlorination system, when dechlorination system is in use. At other times it will be monitored at the individual cooling towers.

\*2 See Part III, Special Requirements, Item 9.

\*3 See Part III, Special Requirements, Item 4.

- \*4 Monitored prior to mixing with other waste streams.
- \*5 Multiple grab samples are to be collected on 15 minute intervals during periods of FAC and TRC discharge attributable to cooling tower chlorination at these outfalls.
- \*6 During periods of dechlorination this limit is 0.02 mg/1 at the blowdown sump mixing box.

\*7 If bromine or a combination of bromine and chlorine is utilized for control of biofouling, limitations for TRC and FAC shall be applicable to TRO (Total Residual Oxidants) and FAO (Free Available Oxidants). There is no difference in test methods between TRC/FAC and TRO/FAO.

\*8 Monitoring frequency shall be 1/year if use of cooling tower maintenance chemicals containing this metal is not initiated by permittee.

The permittee shall certify yearly that no priority pollutant other than chromium or zinc is above detectable limits in this discharge. This certification may be based on manufacturer's certifications or engineering calculations.

FIGURE 4 - NPDES Permit (CONT'D.)

	Approved By Shan Sundaram	Vog	tle Ele	ectric (	Generatir	ıg Plant		Procedure 36001	Number Rev -C 31	
	Date Approved 12/09/2004	NPDES PE	RMIT	IMPLE	MENTAT	ION AND	CONTROL	Page Nurr	uber 23 of 48	
	STATE OF GEOF DEPARTMENT ( ENVIRONMENT	RGIA OF NATURAL RESO TAL PROTECTION I	DURCES	N	- and lasting	through Mou	- 21 2004 the pe	PART Page 4 Permit 00267	PART I Page 4 of 24 Permit No. GA 0026786	
	to d Wa	lischarge from outfall ste Water Retention I	l(s) serial Basin, res	number(s spectively,	3) 004 and 00 , to final outfa	5 - Unit 1 Wa 11 001.	aste Water Retenti	ion Basin and	d Unit 2	
	Su	ich discharges shall be	e limited	and monit	tored by the p	ermittee as sp	pecified below:			
		<u>Effluent</u>		<u>Dischar</u>	ge Limitation	<u>s</u>	<u>Monitori</u>	ng Requiren	nents	
		(Specify Units)	Mass	Based	Concentra	tion Based	Measurement	Sample	Sample	
			Daily	Daily	Daily Avg.	Daily Max.	Frequency	Туре	Location	
	Flo	w (MGD)	Avg. -	Max. -	-	-	*2	*2	*1	
	Tota	al Suspended Solids	-	-	30.0	100.0	2/Month	Grab	Discharge Line	
	Oil	and Grease	-	-	15.0	20.0	2/Month	Grab	Discharge Line	
- 1, 10	*1									
A THE	*2 See Part III, Special Requirements, Item 9.									
	*3.									
		FIG	SURE 4	- NPDI	ES Permit	(CONT'D.	.)			
	I			-			,			
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Approved By Shan Sundara	m	Vogtle	Ele	ctric (	Generatiı	ng Plant		Procedure 1 36001-	Number Rev C 31	
Date Approved 12/09/2004	NPDI	ES PERM	IT I	IMPLE	MENTAT	TION AND	CONTROL	Page Numb	x: 24 of 48	
STATE OF G DEPARTMEN ENVIRONME	EORGIA NT OF NATURA ENTAL PROTEC	L RESOUR TION DIVI	CES	1				PART 1 Page 5 Permit 1 002678	( of 24 No. GA 6	
<ul> <li>During the period beginning effective date and lasting through May 31, 2004, the permitted to discharge from outfall(s) serial number(s) 006 Sewage Treatment Plant Emergence Savannah River.*1</li> <li>Such discharges shall be limited and monitored by the permittee as specified below:</li> </ul>									horized flow to	
	Such discharges	shall be lim	nited a	and moni	itored by the p	permittee as s	pecified below:			
	Effluent			<u>Dischar</u>	ge Limitation	<u>s</u>	Monitorin	g Requireme	<u>Requirements</u>	
	Characteristic (Specify Unit	2 s) M	lass I	Based	Concentra	ation Based				
		Dai	ily	Daily Max	(m Daily Avg.	g/1) Daily Max.	Measurement Frequency	Sample Type	Sample Location	
	Flow (MGD) BOD5	-	5.	- -	30.0	45.0	1/Discharge 1/Discharge	Estimate Grab	Outfall Outfall	
	The pH shall no once per discharg	t be less tha e event.	ın 6.0	) standarc	1 units nor gr	eater than 9.0	standard units and	shall be mo	nitored	
	There shall be n	o discharge	of flo	ating sol	ids or visible	foam in other	than trace amount	S.		
	*1 This is an	emergency	outfa	Il and is	only to be use	ed during upse	et or bypass conditi	ons.		
		FIGUR	E 4	- NPDI	ES Permit	(CONT'D.	)			

Approved By Shan Sundaram	Vog	tle Ela	ectric (	Generatin	g Plant		Procedur 36001	e Number Rev C: 31
Date Approved 12/09/2004	NPDES PE	RMIT	IMPLE	MENTAT	ION AND	CONTROL	Page Nui	<sup>mber</sup> 25 of 48
STATE OF GEOR DEPARTMENT O ENVIRONMENTA	GIA F NATURAL RESC AL PROTECTION I	OURCES DIVISIO	N				PART Page ( Permi 00267	21 5 of 24 it No. GA 786
5. Dur to dis Liqu	ing the period begir scharge from outfall id Radwaste System	nning eff (s) serial s Unit 2,	ective date number(s respective	e and lasting s) 007 and 00 ely, to final ou	through May 8 - Liquid Rad 1tfall 001.	31, 2004, the pe dwaste Systems I	rmittee is au Discharge U	uthorized init 1 and
Suc	h discharges shall be	e limited	and monit	tored by the p	ermittee as sp	ecified below:	- Decutary	4
<u>(</u>	<u>Effluent</u> <u>Characteristic</u>		Discharg	ge Limitations	<u>.</u>	<u>Ivionitori</u>	ing Kequirei	ments
(5	Specify Units)	Mass	Based	Concentra	tion Based		- ·	
		Daily Avg.	Daily Max.	(m) Daily Avg.	g/1) Daily Max.	Measurement Frequency	Sample Type	Sample *1 Location
Flow	(MGD)	-	-	-	-	*2	*2	Discharge Line
Total	Suspended Solids	-	-	30.0	100.0	1/Qtr	Grab	Discharge Line
Oil a	nd Grease	-	-	15.0	20.0	1/Qtr	Grab	Discharge Line
	The pH shall be n	nonitored	l at the co	mbined Outfa	.11 001.			
*1	Prior to mixing w	ith any o	other waste	e streams.				
*2	See Part III, Spec	ial Requ	irements, I	Item 9.				
Note	: The radioactive Commission und	compor ler the A	ient of th tomic Ene	his discharge ergy Act.	is regulated	i by the U.S.	Nuclear Re	gulatory
	FIC		NDDI	TC Downit (		Ň		
	FIG	UKE 4	- NEDI	25 remit (	CONT D.)	1		

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	Approved By Shan Sundaram Date Approved 12/09/2004	Vo NPDES P	gtle Ele ERMIT	ectric () IMPLE	Generatin MENTATI	g Plant	CONTROL	Procedure 36001- Page Num	Number Re <u>C 31</u> ber 26 of 48
and the second second	STATE OF GEO DEPARTMENT ENVIRONMENT 6. D to ( 2),	RGIA OF NATURAL RES FAL PROTECTION uring the period beg discharge from outfa to outfall 001.	SOURCES I DIVISIO ginning eff all(s) serial	N Tective date	e and lasting ) 009 - Nucle	through May ar Service Co	31, 2004, the per poling Tower Blow	PART Page 7 Permit 002678 mittee is aut wdown (Uni	I of 24 No. GA 36 thorized ts 1 and
	Si	ich discharges shall	be limited	and monit	ored by the p	ermittee as sp	ecified below:	ng Daquiran	aanto
		<u>Characteristic</u> (Specify Units)	Mass	Based	Concentra	s ition Based	Montion	ng Kequiten	ients
			Daily Avg.	Daily Max.	(m Daily Avg.	g/1) Daily Max.	Measurement Frequency	Sample Type	Sample Location
	Flo Fre Chl	w (MGD) e Available orine*4	-		0.2*3	0.5	*1 1/Discharge Event	*1 Grab	*1 *2
- <b>i</b>	*1 *2 *3	See Part III, Sp Monitored imm other times it wi During periods	ecial Requi nediately fo Il be monit of dechlori	irements, l bllowing d ored at the ination this	tem 9. echlorination blowdown. s limit is 0.02	system, when mg/1 at the b	n dechlorination s lowdown sump m	system is in lixing box.	use. At
	*4	If bromine or a for TRC and FA Oxidants). The	combination C shall be e is no diff	on of bron e applicabl ference in f	nine and chlor le to TRO (T test methods b	ine is utilized otal Residual between TRC	l for control of bid Oxidants) and F. /FAC and TRO/F.	ofouling, lim AO (Free A AO.	nitations vailable

FIGURE 4 - NPDES Permit (CONT'D.)

	Approved By Shan Sundaram	Vogtle Electric Generating Plant	Procedure Number Rev 36001-C 31
	Date Approved 12/09/2004	NPDES PERMIT IMPLEMENTATION AND CONTROL	Page Number 2'7 of 48
	STATE OF GEOR DEPARTMENT C ENVIRONMENT.	GIA )F NATURAL RESOURCES AL PROTECTION DIVISION	PART I Page 8 of 24 Permit No. GA 0026786
	7. Du to đ	ring the period beginning effective date and lasting through May 31, 2004, the permischarge from outfall(s) serial number(s) 010 - Radwaste Dilution Flow to outfall 001.	ittee is authorized
	Thi	is is an internal waste stream consisting of river water with no additives.	
	The at th	e pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and a term final outfall (001).	shall be monitored
4			
		FIGURE 4 - NPDES Permit (CONT'D.)	
$\bigcirc$			

1	Approved By Shan Sundaram	Vogtle Electric Generating Plant	Procedure Number Rev 36001-C 31
	Date Approved 12/09/2004	NPDES PERMIT IMPLEMENTATION AND CONTROL	Page Number 28 of 48
	STATE OF GEOR DEPARTMENT C ENVIRONMENTA	GIA OF NATURAL RESOURCES AL PROTECTION DIVISION	PART I Page 9 of 24 Permit No. GA 0026786
	8. Du to di	ring the period beginning effective date and lasting through May 31, 2004, the period beginning effective date and lasting through May 31, 2004, the period ischarge from outfall(s) serial number(s) 011 - Intake Screen Backwash to the Savan	mittee is authorized nah River.
	The Stan pern	e discharge shall consist only of intake screen backwash. If the Director determines dards are not being protected as the result of this discharge and so notifies the perm nittee shall take all reasonable steps to minimize any adverse impact to waters of the	s that Water Quality nittee in writing, the State.
	The	ere shall be no discharge of floating oil or grease in other than trace amounts.	
		FIGURE 4 - NPDES Permit (CONT'D.)	
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	Approved Shan S	<sup>By</sup> Sundaram	Vogtle Electric Generatir	ng Plant 🛕	Procedure Number Rev 36001-C 31
	Date Appr 12/09/2	oved 2004	NPDES PERMIT IMPLEMENTAT	ION AND CONTROL	Page Number 29 of 48
Ken Kar	STA DEP ENV	TE OF GEOF ARTMENT ( IRONMENT	GIA OF NATURAL RESOURCES AL PROTECTION DIVISION	PART I Page 10 of 2 Permit No. C	4 GA 0026786
	В	SCHEDUL	E OF COMPLIANCE		
		1. The with	permittee shall achieve compliance with the effluer the following schedule:	t limitations specified for discharg	ges in accordance
			N/A		
م لينا. م					

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

EPD 2.21-10

# FIGURE 4 - NPDES Permit (CONT'D.)

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Shan Sundaram		36001-C	31
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Note: EPD as used herein means the Environmental Protection Division of the Department of Natural Resources.

## C. MONITORING AND REPORTING

1. Representative Sampling

Sampling and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

Monitoring results obtained during the previous 3 months shall be summarized for each month and reported on an Operation Monitoring Report (Form WQ 1.45). Forms other than Form WQ 1.45 may be used upon approval by EPD. These forms and any other required reports and information shall be completed, signed and certified by a principal executive officer or ranking elected official, or by a duly authorized representative of that person, and submitted to the Division, postmarked no later than the 28th. day of the month following the reporting period. Signed copies of these and all other reports required herein shall be submitted to the following address:

Georgia Environmental Protection Division Industrial Wastewater Unit 4220 International Parkway, Suite 101 Atlanta, Georgia 30354

All instances of noncompliance not reported under Part I. B. and C. and Part II. A. shall be reported at the time the operation monitoring report is submitted.

### 3. Definitions

- a. The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days sampled during the calendar month when the measurements were made.
- b. The "daily maximum" discharge means the total discharge by weight during any calendar day.

EPD 2.21-11

## FIGURE 4 - NPDES Permit (CONT'D.)

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	STATE OF GEOR	GIA PART I	
	DEPARTMENT O ENVIRONMENT	F NATURAL RESOURCES Page 12 c	of 24 or GA 0026786
	с.	concentrations made during a calendar month. Daily determinations of concentration composite sample shall be the concentration of the composite sample.	tion made using a
	d.	The "daily maximum" concentration means the daily determination of conce calendar day.	entration for any
	e.	For the purpose of this permit, a calendar day is defined as any consecutive 24-ho	our period.
	f.	"Bypass" means the intentional diversion of waste streams from any portio facility.	n of a treatment
	g.	"Severe property damage" means substantial physical damage to property, treatment facilities which causes them to become inoperable, or substantial and p natural resources which can reasonably be expected to occur in the absence of the property damage does not mean economic loss caused by delays in production.	damage to the permanent loss of e bypass. Severe
	4. Tes	t Procedures	
	Mo other	nitoring must be conducted according to test procedures approved pursuant to 40 CFF test procedures have been specified in this permit.	R Part 136 unless
	5. Rec	ording of Results	
	For recor	each measurement or sample taken pursuant to the requirements of this permit, the d the following information:	e permittee shall
	a.	The exact place, date, and time of sampling or measurements, and person(s) sampling or the measurements;	) performing the
	b.	The dates the analyses were performed, and the person(s) who performed the analyses	lyses;
	с.	The analytical techniques or methods used; and	
	d.	The results of all required analyses.	
$\bigcirc$	EPD 2.21-12	FIGURE 4 - NPDES Permit (CONT'D.)	

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### 6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Operation Monitoring Report Form (WQ 1.45). Such increased monitoring frequency shall also be indicated. The Division may require by written notification more frequent monitoring or the monitoring of other pollutants not required in this permit.

### 7. Records Retention

The permittee shall retain records of all monitoring information, including all records of analyses performed, calibration and maintenance of instrumentation, copies of all reports required by this permit and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Division at any time.

### 8. Penalties

The Federal Clean Water Act and the Georgia Water Quality Control Act provide that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine or by imprisonment, or by both. The Federal Clean Water Act and Georgia Water Quality Control Act also provide procedures for imposing civil penalties which may be levied for violations of the Act, any permit condition or limitation established pursuant to the Act, or negligently or intentionally failing or fusing to comply with any final or emergency order of the Director of the Division.

EPD 2.21-13

# FIGURE 4 - NPDES Permit (CONT'D.)

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<ul> <li>NT REQUIREMENTS</li> <li>ge in Discharge</li> <li>Advance notice to the Division shall be given of any activity which may result in non-compliance with pe expansions, production increases, or process modifica new NPDES permit application or, if such change specified in this permit, by notice to the Division of permit may be modified to specify and limit any polluta</li> <li>All existing manufacturing, commercial, mining, ar Division as soon as it is known or there is reason to b occur which would result in the discharge, on a routine limited in the permit, if that discharge will exceed a concentration reported for that pollutant in the permit a acrylonitrile, 500 µg/1 for 2,4 dinitrophenol and for antimony.</li> <li>All existing manufacturing, commercial, mining, ar Division as soon as it is known or there is reason to b occur which would result in any discharge on a not pollutant not limited in the permit, if that discharge maximum concentration reported for that pollutant antimony.</li> <li>ompliance Notification</li> </ul>	planned changes in the permitted facility or rmit requirements. Any anticipated facility ations must be reported by submission of a swill not violate the effluent limitations f such changes. Following such notice, the ants not previously limited. and silvicultural dischargers shall notify the believe that any activity has occurred or will e or frequent basis, of any toxic pollutant not (i) 100 $\mu g/1$ , (ii) five times the maximum application, or (iii) 200 $\mu g/1$ for acrolein and or 2-menthyl-4-6-dinitrophenol, or 1 mg/1 and silvicultural dischargers shall notify the believe that any activity has occurred cr will onroutine or infrequent basis, of any toxic will exceed (i) 500 $\mu g/1$ , (ii) ten times the in the permit application, or (iii) 1 mg/1
ge in Discharge Advance notice to the Division shall be given of any activity which may result in non-compliance with pe expansions, production increases, or process modifica new NPDES permit application or, if such change specified in this permit, by notice to the Division of permit may be modified to specify and limit any polluta All existing manufacturing, commercial, mining, ar Division as soon as it is known or there is reason to b occur which would result in the discharge, on a routine limited in the permit, if that discharge will exceed a concentration reported for that pollutant in the permit a acrylonitrile, 500 $\mu g/1$ for 2,4 dinitrophenol and for antimony. All existing manufacturing, commercial, mining, ar Division as soon as it is known or there is reason to b occur which would result in any discharge on a no pollutant not limited in the permit, if that discharge on a no pollutant not limited in the permit, if that discharge on antimony.	planned changes in the permitted facility or rmit requirements. Any anticipated facility ations must be reported by submission of a es will not violate the effluent limitations of such changes. Following such notice, the ants not previously limited. and silvicultural dischargers shall notify the believe that any activity has occurred or will e or frequent basis, of any toxic pollutant not (i) 100 $\mu g/1$ , (ii) five times the maximum application, or (iii) 200 $\mu g/1$ for acrolein and or 2-menthyl-4-6-dinitrophenol, or 1 mg/1 and silvicultural dischargers shall notify the believe that any activity has occurred cr will onroutine or infrequent basis, of any toxic will exceed (i) 500 $\mu g/1$ , (ii) ten times the in the permit application, or (iii) 1 mg/1
Advance notice to the Division shall be given of any activity which may result in non-compliance with pe expansions, production increases, or process modifica new NPDES permit application or, if such change specified in this permit, by notice to the Division of permit may be modified to specify and limit any polluta. All existing manufacturing, commercial, mining, ar Division as soon as it is known or there is reason to b occur which would result in the discharge, on a routine limited in the permit, if that discharge will exceed a concentration reported for that pollutant in the permit a acrylonitrile, $500 \mu g/1$ for 2,4 dinitrophenol and for antimony. All existing manufacturing, commercial, mining, ar Division as soon as it is known or there is reason to b occur which would result in any discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited in the permit, if that discharge on a not pollutant not limited is the permit pollutant antimony.	planned changes in the permitted facility or rmit requirements. Any anticipated facility ations must be reported by submission of a es will not violate the effluent limitations if such changes. Following such notice, the ants not previously limited. and silvicultural dischargers shall notify the believe that any activity has occurred or will e or frequent basis, of any toxic pollutant not (i) 100 $\mu g/1$ , (ii) five times the maximum application, or (iii) 200 $\mu g/1$ for acrolein and or 2-menthyl-4-6-dinitrophenol, or 1 mg/1 and silvicultural dischargers shall notify the believe that any activity has occurred cr will onroutine or infrequent basis, of any toxic will exceed (i) 500 $\mu g/1$ , (ii) ten times the in the permit application, or (iii) 1 mg/1
All existing manufacturing, commercial, mining, an Division as soon as it is known or there is reason to b occur which would result in the discharge, on a routine limited in the permit, if that discharge will exceed a concentration reported for that pollutant in the permit a acrylonitrile, 500 $\mu$ g/1 for 2,4 dinitrophenol and for antimony. All existing manufacturing, commercial, mining, an Division as soon as it is known or there is reason to b occur which would result in any discharge on a no pollutant not limited in the permit, if that discharge maximum concentration reported for that pollutant antimony.	nd silvicultural dischargers shall notify the believe that any activity has occurred or will e or frequent basis, of any toxic pollutant not (i) 100 $\mu$ g/1, (ii) five times the maximum application, or (iii) 200 $\mu$ g/1 for acrolein and or 2-menthyl-4-6-dinitrophenol, or 1 mg/1 and silvicultural dischargers shall notify the believe that any activity has occurred cr will porroutine or infrequent basis, of any toxic will exceed (i) 500 $\mu$ g/1, (ii) ten times the in the permit application, or (iii) 1 mg/1
All existing manufacturing, commercial, mining, ar Division as soon as it is known or there is reason to b occur which would result in any discharge on a no pollutant not limited in the permit, if that discharge maximum concentration reported for that pollutant antimony.	nd silvicultural dischargers shall notify the believe that any activity has occurred or will phroutine or infrequent basis, of any toxic will exceed (i) 500 $\mu$ g/1, (ii) ten times the in the permit application, or (iii) 1 mg/1
ompliance Notification r any reason, the permittee does not comply with, or v	
r any reason, the permittee does not comply with, or v	
on specified in this permit, the permittee shall provide from the time the permittee becomes aware of the circum ) days of becoming aware of such condition. The writ ation.	will be unable to comply with any effluent the Division with an oral report within 24 istances following by a written report within tten submission shall contain the following
A description of the discharge and cause of noncompli	iance; and
FIGURE 4 - NPDES Permit (CON	T'D.)
	A description of the discharge and cause of noncompl FIGURE 4 - NPDES Permit (CON

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5.	Bypas	ing
	a.	If the permittee knows in advance of the need for a bypass, it shall subm Division at least 10 days (if possible) before the date of the bypass. The p notice of any unanticipated bypass with an oral report within 24 hours from t becomes aware of the circumstances followed by a written report within five aware of such condition. The written submission shall contain the following i
		1. A description of the discharge and cause of noncompliance; and
		2. The period of noncompliance, including exact dates and times; or anticipated time the noncompliance is expected to continue, and reduce, eliminate and prevent recurrence of the noncomplying discha
EPD 2.?	21-15	
		FIGURE 4 - NPDES Permit (CONT'D.)

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- The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.
- 3. **Facilities Operation**

b.

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

- t prior notice to the rmittee shall submit e time the permittee 5) days of becoming formation:
  - if not corrected, the teps being taken to ge.

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b. Any diversion from or bypass of facilities covered by this permit is prohibited, except (i) where unavoidable to prevent loss of life, personal injury, or severe property damage; (ii) there were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if the permittee could have installed adequate back-up equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and (iii) the permittee submitted a notice as required above. The permittee shall operate the treatment works, including the treatment plant and total sewer system, to minimize discharge of the pollutants listed in Part I of this permit from combined sewer overflows or bypasses. Upon written notification by the Division, the permittee may be required to submit a plan and schedule for reducing bypasses, overflows, and infiltration in the system.

#### 6. Sludge Disposal Requirements

ENVIRONMENTAL PROTECTION DIVISION

Hazardous sludge shall be disposed of in accordance with the regulations and guidelines established by the Division pursuant to the Federal Clean Water Act (CWA) and the Resource Conservation and Recovery Act (RCRA). For land application of nonhazardous sludge, the permittee shall comply with any applicable criteria outlined in the Division's "Guidelines for Land Application of Municipal Sludges." Prior to disposal of sludge by land application, the permittee shall submit a proposal to the Division for approval in accordance with applicable criteria in the Division's "Guidelines for Land Application of Municipal Sludges." Upon evaluation of the permittee's proposal, the Division may require that more stringent control of this activity is required. Upon written notification, the permittee shall submit to the Division for approval, a detailed plan of operation for land application of sludge. Upon approval, the plan will become a part of the NPDES permit. Disposal of nonhazardous sludge by other means, such as landfilling, must be approved by the Division.

#### 7. **Sludge Monitoring Requirements**

The permittee shall develop and implement procedures to insure adequate year-round sludge disposal. The permittee shall monitor the volume and concentration of solids removed from the plant. Records shall be maintained which document the quantity of solids removed from the plant. The ultimate disposal of solids shall be reported monthly (in the unit of lbs/day) to the Division with the Operation Monitoring Report Forms required under Part I (C)(2) of this permit.

EPD 2.21-16

# FIGURE 4 - NPDES Permit (CONT'D.)

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8. Power Failures

> Upon the reduction, loss, or failure of the primary source of power to said water pollution control facilities, the permittee shall use an alternative source of power if available to reduce or otherwise control production and/or all discharges in order to maintain compliance with the effluent limitations and prohibitions of this permit.

> If such alternative power source is not in existence, and no date for its implementation appears in Part I, the permittee shall halt, reduce or otherwise control production and/or all discharges from wastewater control facilities upon the reduction, loss, or failure of the primary source of power to said wastewater control facilities.

#### RESPONSIBILITIES В.

#### 1. **Right of Entry**

The permittee shall allow the Director of the Division, the Regional Administrator of EPA, and/or their authorized representatives, agents, or employees, upon the presentation of credentials:

- To enter upon the permittee's premises where a regulated activity or facility is located or a. conducted or where any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times, to have access to and copy any records required to the kept under the terms and conditions of this permit; to inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and to sample any substance or parameters in any location.
- 2. Transfer of Ownership or Control

A permit may be transferred to another person by a permittee if:

- The permittee notifies the Director in writing of the proposed transfer at least thirty (30) days in a. advance of the proposed transfer;
- A written agreement containing a specific date for transfer of permit responsibility and coverage b. between the current and new permittee (including acknowledgment that the existing permittee is liable for violations up to that date, and that the new permittee is liable for violations from that date on) is submitted to the Director at least thirty (30) days in advance of the proposed transfer; and

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# FIGURE 4 - NPDES Permit (CONT'D.)

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c.	The D of the I new ap	Director, within thirty (30) days, does not notify the cu Division's intent to modify, revoke and reissue, or terr plication be filed rather than agreeing to the transfer o	rrent permittee and t ninate the permit and f the permit.	he new perrnittee I to require that a
3. Ava	ailability of	Reports		
Exc the H the t perm	cept for data EPA Under erms of this it application	a deemed to be confidential under O.C.G.A. § 12-5-2 the Code of Federal Regulations, Title 40, Part 2, al s permit shall be available for public inspection at an ons, permittee's name and addresses, and permits shall	6 or by the Regional I reports prepared in office of the Divisic not be considered co	Administrator of accordance with on. Effluent data, onfidential.
4. Per	mit Modific	cation		
Aft reiss	er written 1 ued in whol	notice and opportunity for a hearing, this permit may le or in part during its term for cause including, but not	be modified, suspendent to the suspendent to the balance of the suspendent to the suspendent to the suspendent balance of the suspendent to the suspendent balance of the susp	nded, revoked or wing:
a.	Violat	ion of any conditions of this permit;		
b.	Obtain	ning this permit by misrepresentation or failure to disc	lose fully all relevant	facts;
с.	A cha of the p	nge in any condition that requires either a temporary opermitted discharge; or	or permanent reduction	on or elimination
d.	To co District <u>Counci</u> issued:	mply with any applicable effluent limitation issued p t Court for the District of Columbia issued on June 8 1, Inc. et. al. v. Russell E. Train, 8 ERC 2120 (D.D.	ursuant to the order ( , 1976, in <u>Natural Re</u> C. 1976), if the efflu	the United States esources Defense uent limitation so
	(1)	is different in conditions or more stringent that any	effluent limitation in	permit; or
	(2)	controls any pollutant not limited in the permit.		
5. Tox	ic Pollutant	ts		
The of th provi	e permittee e Federal ( ded in the r	shall comply with effluent standards or prohibitions e Clean Water Act for toxic pollutants, which are pre- regulations	stablished pursuant t sent in the discharge	to Section 307(a) e within the time
EDD 0 01-18				
Li U 2.21-10				
		FIGURE 4- NPDES PERMIT (CONTD.)		

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6.	Civ	il and Crim	inal Liabilit	у						
	No nonc	thing in thi ompliance.	s permit sh	all be cons	trued to	relieve t	he permitt	ee form o	civil or crin	ninal penalties for
7.	Stat	e Laws								
	Not perm or re	thing in thi ittee from a gulation un	s permit sh my respons der authorit <u>y</u>	all be const ibilities, liab y preserved	trued to bilities, o by Sectio	preclude or penaltie on 510 of	the institu s establish the Federa	ition of a ed pursua Il Clean W	ny legal act int to any ap Vater Act.	ion or relieve the plicable State law
8.	Wa	ter Quality	Standards							
	Not it is quali	hing in this determined ty standards	permit shal that the e s.	l be construe ffluent limit	ed to pre tations s	clude the pecified 1	modificati nerein fail	on of any to achiev	condition o ve the appli	f this permit when cable State water
9.	Proj	perty Rights	;							
	The exclu nor a	issuance o sive privile ny infringer	f this permi ges, nor do nent of Fed	t does not c es it authori eral, State o	onvey ar ze any ir r local la	ny propert njury to pr nws or reg	y rights in rivate prop ulations.	either reaperty or an	al or persona ny invasion (	al property, cr any of personal rights,
10.	Exp	iration of P	ermit							
	Per beyo the a	mittee shal nd the expir gency autho	not dischar nation date, prized to issue	arge after th the permitte ue permits n	ne expira ee shall s o later th	ation date submit suc an 180 da	. In order th informatives prior to	r to recei tion, form the expir	ve authorizans, and fees a ration date.	ation to discharge as are required by
11.	Con	tested Hear	ings							
	Any petiti	/ person wl on the Dire	no is aggrie ctor for a he	eved or adve earing within	ersely af h thirty (3	ffected by 30) days c	an action f notice of	n of the I such acti	Director of toon.	the Division shall

EPD 2.21-19

# FIGURE 4 - NPDES PERMIT (CONT'D.)

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12. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

13. Best Management Practices

The permittee will implement best management practices to control the discharge of hazardous and/or toxic materials from ancillary manufacturing activities. Such activities include, but are not limited to, materials storage areas; in-plant transfer, process and material handling areas; loading and unloading operations; plant site runoff; and sludge and waste disposal areas.

14. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

- 15. Duty to Provide Information
  - a. The permittee shall furnish to the Director of the Division, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish upon request copies of records required to be kept by this permit.
  - b. When the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts and information.
- 16. Upset Provisions

Provisions of 40 CFR 122.41(n)(1)-(4), regarding "Upset" shall be applicable to any civil, criminal, or administrative proceeding brought to enforce this permit.

EPD 2.21-20

# FIGURE 4 - NPDES PERMIT (CONT'D.)

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					PART I	II	
	A. PR	EV:[OUS	PERMITS				
	1.	All here Wat perm auth this	previous State water quality by revoked by the issuance er Quality Control Act, as hit constitutes notice of such orizing discharge under the facility.	ty permits issued to the of this permit. This a amended, and the Fe a action. The condition National Pollutant D	nis facility, whether for construction action is taken to assure compliance deral Clean Water Act, as amende ons, requirements, terms and provisi vischarge Elimination System gover	a or operation, are with the Georgia d. Receipt of the ions of this permit n discharges from	
	B. SP	ECIAL RI	EQUIREMENTS				
	1.	The trans	ere shall be no discharge c former fluid.	of polychlorinated bip	henyl compounds such as those co	ommonly used for	
	2.	An perm chen discu	y metal cleaning wastes gen nit compliance at time of di- nical cleaning of metal pro- ussed in the flow monitoring	nerated will be contain scharge with requirem ocess equipment also and characterization	ined for further treatment or dispos- nents listed below. This applies to a b. The treatment and disposal pro- submittal.	al in a manner to any preoperational ocedures shall be	
المط	3.	The mult chara	The quantity of pollutants discharged in metal cleaning waste shall not exceed the quantity determined by multiplying the flow of metal cleaning wastes times the concentrations listed below. All effluent characteristics shall be monitored 1/week by grab sampling when a discharge is occurring.				
		<u>Ef</u>	fluent Characteristic	<u>Dis</u> Daily Ave	charge Limitation (mg/1) rage Daily Maximum		
		To Oi Co Iro	otal suspended solids l and grease opper on	30.0 15.0 1.0 1.0	100.0 20.0 1.0 1.0		
	4.	Nei for n or to partie	ther free available chlorine nore than two hours in any o tal residual chlorine at any o cular location cannot operate	(FAC) nor total resid ne day and not more t one time unless the uti e at or below this leve	ual chlorine (TRC) may be dischar han one unit in any plant may dischar ility can demonstrate to the Director l of chlorination.	ged from any unit arge free available that the units in a	
	EPD	2.21-21					
-			FIGURE 4	- NPDES PERM	IT (CONT'D.)		

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- 5. The free available chlorine (FAC) average means the average over any individual chlorine release period which does not exceed 2 hours per day per unit. The FAC maximum is the instantaneous maximum which may occur at any time. Further, the permittee will develop a system for monitoring and recording total time of FAC and TRC discharges. The results shall be reported in a suitably concise form beginning with the first scheduled Operation Monitoring Report (OMR) and continuing on each OMR thereafter.
- 6. The permittee shall certify annually that no priority pollutant other than chromium or zinc is above detectable limits in outfalls 002 and 003 (cooling tower blowdown or overflows). This certification may be based on manufacturers' certifications or engineering calculations.
- 7. In the event that waste streams from various sources are combined for treatment or discharge, the quantity of each pollutant or pollutant property controlled by this permit shall not exceed the specified limitations for that source except that the limitations for free available chlorine and total residual chlorine discharges from cooling tower blowdown shall apply following the dechlorination system when that system is in use.
- 8. The Director may modify any effluent limitation upon request of the permittee if such limitation is covered by an approved variance or by an amendment to the Federal Clean Water Act.
- 9. Annually, the permittee shall submit to the Director flow monitoring and characterization information regarding the various waste streams.
- 10. The sewage treatment plant must be properly operated and maintained. This applies to 004.
- 11. The permittee shall review the water treatment chemicals other than chlorine discharged to State waters. This includes, but is not limited to microbiocides, corrosion inhibitors, and dispersants. These chemicals shall be used and disposed of in accordance with the manufacturers' instructions unless other requirements are imposed by EPD. The permittee shall submit to EPD a current inventory of all water treatment chemicals discharged during the previous twelve months.
- 12. Summary of requirements from preceding items which are required every year:
  - a. Metal cleaning waste treatment and disposal discussion.
  - b. Flow monitoring and characterization information regarding various waste streams.
  - c. Water treatment chemical inventory.
  - d. Cooling tower blowdown priority pollutant certification.

EPD 2.21-22

# FIGURE 4 - NPDES PERMIT (CONT'D.)

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- 13. The effluent limits for all metals in this permit shall be defined and reported in terms of "total recoverable metal" in conformance with the appropriate language of the applicable Federal regulations.
- 14. Upon approval of the Director, the permittee shall, on a case by-case-basis, be able to utilize alternative analytical methods, conversion factors, methodology, procedures, or new technologies, to ensure that the biomonitoring and toxicity reduction requirements of Part III. C. are adequately addressed.
- 15. The permittee shall report all visible discharges of floating materials, foam, and oil and grease.
- 16. No detectable level of hydrazine is allowed at Outfall 001.
- 17. The Environmental Protection Division recognizes the inherent analytical variability in approved test methods and procedures and further agrees that such issues can be raised by the permittee as a defense in an enforcement action.
- 18. The provisions of 40 CFR 122.41(1)(6)(iii) regarding waiver of the 5 day written report required by Part II.A.2. and Part II.A.5. of this permit shall be applicable and may be implemented on a case-by-case basis by EPD for noncompliances which are orally reported by the permittee within 24 hours of discovery of the noncompliance condition.
- 19. If the results for a given sample are such that a parameter is not detected at or above the method detection limit or reporting limit, a value of zero will be reported for that sample and the method detections limit or reporting limit will also be reported. Such sample shall be deemed to be in compliance with the permit.
- 20. The permittee is authorized to discharge stormwater from the out falls identified in Part 1, Section A of this permit provided that these discharges do not cause violations of State water quality standards in the receiving streams.

#### С. **BIOMONITORING AND TOXICITY REDUCTION REQUIREMENTS**

In order to determine whether the permittee is discharging wastes in concentrations or combinations which may have an adverse impact on the State's water quality, the Division can require the permittee to conduct a biomonitoring program.

If toxicity is believed to be present in the permittee's effluent, the Division may require the permittee to develop a biomonitoring screening program according to the following schedule:

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# FIGURE 4 - NPDES PERMIT (CONT'D.)

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- 1. Within 90 days of Division notification a screening program study plan detailing the test methodology and test organisms shall be submitted for conducting a forty-eight hour static acute test of the final effluent.
  - Note: If residual chlorine is present in the final effluent from a treatment and/or disinfection process, a prechlorinated or dechlorinated sample will be tested.
- 2. Within 90 days of Division approval of the study plan, the permittee shall conduct and submit the results of the forty-eight hour static acute test.

The Division will then review the results of the forty-eight hour static acute test. If the test criteria specified in the study plan are exceeded, then the permittee shall within 90 days of written notification by the Division repeat steps 1. and 2. above replacing the forty-eight hour static acute test with the ninety-six hour test.

The Division will then review the results of the ninety-six hour test. If the criteria\* detailed in the ninety-six hour test indicates toxicity, then the permittee shall within 90 days of written notification by the Division submit to the Division a plan to reduce the toxicity of the effluent. Within 270 days of Division approval of this plan, the permittee shall implement the plan and initiate follow-up biomonitoring of the effluent in accordance with the approved toxicity reduction plan. The toxicity reduction plan shall not be complete until the permittee meets the criteria detailed in the ninety-six hour test plan.

If there are substantial composition changes in the permettee's effluent, the permittee may be required to repeat the forty-eight hour static acute test upon notification by the Division. Unless otherwise advised, the permittee shall perform biomonitoring of the effluent as provided in C. 1. and 2. above, at a minimum of once every three years upon notification by the Division. On a case specific basis, chronic toxicity testing procedures may be required. Upon approval by the Division, all of the plans will become part of the requirements of this permit.

\* The 96 hour criteria shall define toxicity as a greater than 10% mortality of the exposed test organisms in 96 hours or less when the test solution contains volumes of effluent and dilution water proportional to the plant daily average flow and the 7Q10 flow of the receiving stream, as determined using test procedures and methods, and statistical methods for evaluating test results, developed by the permittee and approved by the Division pursuant to this section or revised pursuant to Part III.B.16. above.

EPD 2 21-24

# FIGURE 4 - NPDES PERMIT (CONT'D.)



ANALYSIS REQUEST AND HAIN OF CUSTODY RECOR	DUSE Sample Def	CC-	han Sundaram te Approved 2/09/2004
led By: Print Name Signature	Page	of	NPDES
vrization to subcontract analysis will be assume stable by customer unless stated otherwise.	Rush in (Must be clear prior to shipme	Business Days ed through env. lab. nt)	PERMIT I
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		Sheet 1 of 1				
		UNIT 1-WWRB				
	THIS AT ENTIRE	TACHMENT MAY BE BROUGHT TO THE FIELD IN LIEU OF PROCEDURE.	THE			
	1.0 U	JNIT 1 WWRB NORMAL SAMPLE LOCATION:				
	1.1 Sample should be flowing from 1-1420-U4-613 if the basin is being discharged.					
	1.2 0	Obtain sample (s).				
	2.0 T	JNIT 1 WWRB ALTERNATE SAMPLE LOCATION:				
$\mathcal{U}$	2.1 C	DPEN 1-1420-U4-611.				
	2.2 F	lush approximately 2 minutes				
	2.3 0	Obtain sample (s).				
	2.4 C	CLOSE 1-1420-U4-611.				

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Date Approved		
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	<b>REFERENCE USE</b>	
	ATTACHMENT 2	Sheet 1 of 1
	UNIT 2 WWRB	
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1.0 U	NIT 2 WWRB NORMAL SAMPLE LOCATION:	
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2.2 F	lush approximately 2 minutes	
2.3 0	btain sample (s).	
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Page: 18 [ <u>SN1]</u>		
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