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July 7, 2008

VIA FEDERAL EXPRESS

Patrick A. Moulding, Esq. U.S. Nuclear Regulatory Commission Office of the General Counsel 1155 Rockville Pike, Stop O-15 D21 Washington, D.C. 20852-0001

Re: Production of Southern Nuclear's Ninth Supplemental Disclosures Docket No. 52-011-ESP

Dear Mr. Moulding:

As you requested during our telephone conversation, enclosed is a CD containing the documents disclosed in Southern Nuclear's Ninth Supplemental Disclosures of June 4, 2008. Also enclosed is an attachment that includes updated document descriptions and the beginning and ending bates number references of the documents being provided.

As previously discussed, we have redacted out certain portions of some of the attached documents that we deemed either not relevant to the admitted contentions or subject to attorneyclient/work product protections. In addition, upon further review we have determined that document SNC569 is an attorney-client communication. Therefore, this document is not being produced. To the extent any of the documents produced herein relate to attorney-client communications or related work product, the production of the attached documents shall not be deemed a waiver of any attorney-client/work product protections or the stipulations agreed to in the ASLB's April 3, 2007 order.

If you have any questions regarding the enclosed documents, please contact me.

Sincerely,

KCH

K.C. Hairston

KCH/dkf

Attachments

July	7,	2008	
Atta	chi	ment	A

Vogtle ESP Southern Nuclear

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Document No	Beginning Bates	Ending Bates	Document Name	Document Date	Source	Document Type
			E-mail from Kevin Walden to Matthew Montz regarding			
SNC562	VESP_D0000287	VESP_D0000288	hydraulic zone influence study.	5/5/2008	Southern Nuclear	E-mail
			E-mail from Jonathan Ponstein to Matthew Montz et. al.			
SNC563	VESP_D0000289	VESP_D0000290	regarding hydraulic zone influence study.	5/9/2008	Southern Nuclear	E-mail
			E-mail from William K. Parker to Matthew Montz et al.			
SNC564	VESP_D0000291	VESP_D0000292	regarding testing procedures.	5/8/2008	Southern Nuclear	E-mail
			E-mail from Matthew Montz to John Downing regarding			
SNC565	VESP_D0000293	VESP_D0000295	fish entrainment sampling techniques.	4/3/2008	Southern Nuclear	E-mail
			E-mail from Tom Moorer to Matthew Montz regarding			
SNC566	VESP_D0000296	VESP_D0000296	I&E Sampling.	3/21/2008	Southern Nuclear	E-mail
	1		E-mail from Phil Moore to Matthew Montz regarding			
SNC567	VESP_D0000297	VESP_D0000298	Savannah River fish studies.	5/21/2008	Southern Nuclear	E-mail
			E-mail from Matthew Montz to Kevin Walden regarding			
SNC568	VESP_D0000299	VESP_D0000302	impingement and entrainment monitor Trip Report 3.	4/24/2008	Southern Nuclear	E-mail
			E-mail from Matthew Montz to D'Andre Manigo			
			regarding impingement and entrainment monitor Trip			
SNC570	VESP_D0000305	VESP_D0000319	Report 4 and related field study sheets.	5/6/2008	Southern Nuclear	E-mail
			E-mail from Matthew Montz to D'Andre Manigo			
			regarding impingement and entrainment monitor Trip			
SNC571	VESP_D0000320	VESP_D0000331	Report 5 and related field study sheets.	5/13/2008	Southern Nuclear	E-mail
			E-mail from Kenneth Middlebrooks to Anthony Dodd et			
SNC572	VESP_D0000332	VESP_D0000332	al. regarding work at river intake.	4/3/2008	Southern Nuclear	E-mail
			E-mail from Kenneth Middlebrooks to Anthony Dodd et			
SNC573	VESP_D0000333	VESP_D0000333	al. regarding work at river intake.	4/17/2008	Southern Nuclear	E-mail
			E-mail from D'Andre Manigo to Matthew Montz			
SNC574	VESP_D0000334	VESP_D0000335	regarding sampling at intake canal.	3/24/2008	Southern Nuclear	E-mail
			E-mail from Ken Dyar to Anthony Dodd et al. regarding			
SNC575	VESP_D0000336	VESP_D0000337	work at river water intake structure.	4/3/2008	Southern Nuclear	E-mail
			E-mail from Anthony Dodd to Kevin Walden and			
SNC576	VESP_D0000338	VESP_D0000338	Matthew Montz regarding entrainment sampling.	4/3/2008	Southern Nuclear	E-mail
			E-mail from Anthony Dodd to Kenneth Middlebrooks et			
SNC577	VESP_D0000339	VESP_D0000341	al. regarding work at the river water intake structure.	4/3/2008	Southern Nuclear	E-mail
			E-mail from Anthony Dodd to Matthew Montz regarding			
SNC578	VESP_D0000342	VESP_D0000363	field data sheets.	4/3/2008	Southern Nuclear	E-mail
			E-mail from Anthony Dodd to Matthew Montz et al.			
ISNC579	VESP_D0000364	VESP_D0000378	regarding field data sheets.	4/16/2008	Southern Nuclear	E-mail

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July 7, 2008	
Attachment A	

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Vogtle ESP Southern Nuclear

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Document No	Beginning Bates	Ending Bates	Document Name	Document Date	Source	Document Type
			E-mail from Anthony Dodd to Kenneth Middlebrooks et			
SNC580	VESP_D0000379	VESP_D0000379	al. regarding entrainment sampling.	5/15/2008	Southern Nuclear	E-mail
			E-mail from Hannah Proctor to Anthony Dodd regarding			
SNC581	VESP_D0000380	VESP_D0000386	river samples.	5/22/2008	Normandeau Associa	E-mail
			E-mail from Matthew Montz to Gary Dye regarding			
SNC582	VESP_D0000387	VESP_D0000391	nautical charts.	5/5/2008	Southern Nuclear	E-mail

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Walden, Kevin C. Monday, May 05, 2008 10:44 AM Montz, Matthew Thomas RE: Vogtle HZI

That's fine. As long as they don't enter the intake structure they are still on public lands and can test whatever they want to test. They won't have any problems from us.

Kewin Walden

From: Montz, Matthew Thomas
Sent: Monday, May 05, 2008 11:23 AM
To: Dyar, Ken C.; VNP Dispatchers; Kitchens, Cohen J.; Manigo, D'Andre; Walden, Kevin C.
Cc: Moorer, Tom C.; Daniel, W. Ellie; Tamplin, Doug E.; Hargis, T. Scott; Pierce, Chuck R.; Davis, James T.; McCracken, Michael W. (Vogtle); McQuillen, Thomas; McCallum, Thomas O.; Goodwin, Don G.; Lee, Greg; Page, Fred I.; Sieweke, John M.; Shores, Bruce Sterling, Jr.; Ponstein, Jonathan B.
Subject: FW: Vogtle HZI

This Wednesday, May 7, 2008, John Sieweke and Bruce Shores with Alabama Power will be working on the Savannah River in close proximity to the Vogtle river water makeup canal. John and Bruce will be performing a hydraulic zone of influence determination. This work is part of our continuing evaluation of impingement and entrainment at the Unit 1 and 2 intake structure. They will be working on the river close to the mouth of the intake canal but will not enter the intake canal or need access to the Plant site.

If you have any questions please call me at 8-992-5629.

Thanks, Matthew T. Montz Southern Nuclear Office 205-992-5629

From:Ponstein, Jonathan B.Sent:Tuesday, April 22, 2008 10:45 AMTo:Montz, Matthew ThomasCc:Sieweke, John M.; Shores, Bruce Sterling, Jr.Subject:RE: Vogtle HZI

Matt,

John Sieweke and Bruce Shores will be performing this work in the river near the intake structure on the morning of Wednesday May 7th. The field collection will take most of the day. Let me know if you require any additional information for security or otherwise.

1

Jon Ponstein, P.E. Alabama Power Company Environmental Affairs Laboratory and Field Services (office) 8-255-6459 (cell) 205-438-3568 Fróm: Sent: To: Cc: Subject: Montz, Matthew Thomas Monday, April 21, 2008 10:12 AM Ponstein, Jonathan B. Garrett, William E., Jr. Vogtle HZI

Several weeks ago, we discussed performing the HZI determination at Vogtle during the week of May 5. Is that date still good?

Matthew T. Montz

Environmental Specialist Southern Nuclear Operating Company Office 205-992-5629

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Ponstein, Jonathan B. Friday, May 09, 2008 3:14 PM Montz, Matthew Thomas Moore, Donald L. RE: HZI

Actually, I am trying to get the aeriel photo images to use in ArcView. Do you know how I can access this information? I heard it is out there but it is a security issue. Donald Moore is my APC contact and who usually gets me the images I need. Can someone contact him or me about access and/or permission to use the images?

Thanks,

Jon

Montz, Matthew Thomas
Friday, May 09, 2008 3:07 PM
Ponstein, Jonathan B.
RE: HZI

Yes, that would be great. Not sure if it would help, but we had a bathymetry study performed in the river and can get you the dwg file. Here's a pdf of what we have. The dwg is about 54 megs...let me know if you want it.

<< File: Plant Vogtle River Survey Topo-Rev1.pdf >> Thanks

Matthew T. Montz

Office 205-992-5629

From:	Ponstein, Jonathan B.
Sent:	Friday, May 09, 2008 2:56 PM
To:	Montz, Matthew Thomas
Subject:	RE: HZI

Yes. It appears that the field collection was successful. It will be a couple weeks before I can process the data and give you a report. By the way, are you expecting a map with the write-up of the procedures and results? I just want to be sure what I am putting together is what you are expecting.

Jon

From:	Montz, Matthew Thomas
Sent:	Friday, May 09, 2008 2:53 PM
то:	Ponstein, Jonathan B.
Subject:	HZI

John.

Were your guys able to make it to Vogtle this week to perform the HZI determination?

Matthew T. Montz

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Parker, William K. Thursday, May 08, 2008 1:59 PM Montz, Matthew Thomas; Waldrup, C. Steve; Prewitt, Steve E. FW: Procedure changes

How do we write a CR for fish in the basket and not write a CR every day on the same fish when the basket is only cleaned about every 6 months.

From:	Prewitt, Steve E.
Sent:	Thursday, May 08, 2008 9:50 AM
To:	Parker, William K.
Subject:	FW: Procedure changes

Can you get this added and notify Steve W? Prewitt

From:	Waldrup, C. Steve
Sent:	Wednesday, May 07, 2008 8:28 PM
То:	Prewitt, Steve E.
Subject:	FW: Procedure changes

Steve,

We need to add a note to 11882-2 to write a CR if fish are observed in the traveling water screen trash basket at the river. This is part of the U3 & 4 justification. Please send me a note when it is complete.

Thanks, Steve Waldrup

 From:
 Montz, Matthew Thomas

 Sent:
 Wednesday, May 07, 2008 2:27 PM

 To:
 Waldrup, C. Steve

 Subject:
 Procedure changes

Steve,

Back at the beginning of the year, before we started the impingement and entrainment study you and I discussed a modification to the Outside Area Rounds Procedure (11882-2) to include observing the trash basket for fish kills and threatened and endangered species. Do you know if those changes were ever made? If not, what do I need to do to get those revisions added to the procedure?

Again, thank you, Kevin and D'Andre for all your help so far with this project. Hopefully you all have survived the outage and things are returning to normal.

Matthew T. Montz

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From: Montz, Matthew Thomas

Sent: Thursday, April 03, 2008 6:49 AM

To: 'Downing, John'

Subject: RE: Fish Entrainment Sampling Techniques

Most of our large files have been going through the Shaw eroom.

Matthew T. Montz

Office 205-992-5629

From: Downing, John [mailto:john.downing@shawgrp.com] Sent: Wednesday, April 02, 2008 3:20 PM To: Montz, Matthew Thomas Subject: RE: Fish Entrainment Sampling Techniques

I still have a 7 MB file to send to you. I have successfully send you 3 of the 4 file (I think) but this 7 MB file just does not get through your email server.

Do you have an FTP site or a portal or server where I can post this file for you?

John Downing

Senior Scientist Shaw Environmental & Infrastructure Group 11 Northeastern Boulevard Salem, NH 03079 603.870.4589 direct 603.870.4580 fax

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From: Downing, John Sent: Wednesday, April 02, 2008 3:17 PM To: 'mtmontz@southernco.com' Subject: FW: Fish Entrainment Sampling Techniques

I am trying to send this again to you again. This was returned to me as undeliverable when I sent it earlier.

I will send the two attachments separately as one is 7 MB and the other is 2 MB. Here is the 2 MB file.

Most email servers will accept up to 10 MB, but sending these separately may get these through to you.

John Downing

Senior Scientist Shaw Environmental & Infrastructure 11 Northeastern Boulevard Salem, NH 03079-1953 (603) 870-4589 Direct (603) 870-4501 Fax

6/2/2008

(617) 281-7262 Cell www.shawgrp.com

From: Downing, John Sent: Wednesday, April 02, 2008 2:59 PM To: London, Eileen; 'mtmontz@southernco.com' Subject: Fish Entrainment Sampling Techniques

Matt, I was good to speak with you today. As we discussed I have attached a couple of documents that should be able to give you a couple examples of how entrainment samples are typically taken for use in estimating entrainment. I hope these are of some help.

The first document (Mystic Final E&I Report) is an example where we tapped into the discharge pump at Mystic Station to collect the entrainment samples. As you will see in that report (PDF pages 16 and 17) we collected ichthyoplankton abundance samples just downstream of the circulating water pump as well as in the river in front of the plant using a typical oblique tow pattern of the plankton net from a small boat in front of the intake structure.

The second document (june21ProposedScopeofWork.doc) is the scope of work submitted to the agency for review of our sampling method where we pumped samples from behind the circ water pump. On figures 5 and 6 of that document you can see a couple of schematics of where and how the tap was made and how we positioned the energy dissipation tank to limit the water pressure.

Finally, I will need to attach two other documents to a separate email as this document will be too large to send.

Those two documents (NRG Oswego PIC and Oswego Photos) describes on PDF page 61, the sampling using three 2inch PVC pipes set at the ¼ at the ½ and at the ¾ depth in the intake channel to collect the entrainment sample. These 2inch sampling pipes are attached to a 4 inch PVC pipe which is in turn connected to a 4-inch trash pump. The trash pump discharges to a large volume energy dissipation tank and through a plankton net. Either the discharge pipe to the energy dissipation tank or the discharge of the flow from the dissipation tank will have a flow meter to monitor the flow through the sampling net.

Photos of the Oswego sampling pipe and the scope of the entrainment sampling using the three depth of withdrawal pipes will be sent in the subsequent email. This email already has 9 MB of attachments.

John Downing

Senior Scientist Shaw Environmental & Infrastructure 11 Northeastern Boulevard Salem, NH 03079-1953 (603) 870-4589 Direct (603) 870-4501 Fax (617) 281-7262 Cell www.shawgrp.com

From: London, Eileen Sent: Monday, March 31, 2008 7:50 AM To: mtmontz@southernco.com Cc: Downing, John Subject: Fish Impingement

Hi Matt – I spoke with John Downing about your fish impingement dilemma and he is happy to talk with you about potential solutions. He has had similar sampling problems in the past and came up with some innovative solutions. He will give you a call to discuss.

Nice to meet you last week. For the meeting with EPD to "delineate" waters of the state, is there anything you would like us to prepare prior to that meeting for your review? Please let me know. Thanks.

Eileen London

978-524-4883

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6/2/2008

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Moorer, Tom C. Friday, March 21, 2008 11:44 AM Montz, Matthew Thomas RE: I&E Sampling

Please ask these guys what the flowrate of the screen wash system is? That was a question posed by Mike Masnik Wednesday.

Thanks,

TCM

Thomas C. Moorer Southern Nuclear Development Project Manager - Environmental (205) 992-5807 (office) (205) 585-1344 (cell) (205) 438-1886 (LINC) (205) 992-6108 (FAX)

From:	Montz, Matthew Thomas
Sent:	Friday, March 21, 2008 10:22 AM
To:	Walden, Kevin C.; Manigo, D'Andre
Cc:	Waldrup, C. Steve; Tamplin, Doug E.; Moorer, Tom C.; Dodd, Anthony Ray; Blanton, Stan (Balch)
Subject:	I&E Sampling

Tony Dodd and Bob Brinkman with GPC Environmental Services will be at Plant Vogtle Tuesday, March 25 thru Thursday, March 27 to conduct impingement and entrainment sampling at the River Water Make-up structure and Savannah River. **Operations support is requested to initiate manual operation of traveling screens at approximately 0800 hrs Wed.**, 2000 hrs Wed. and again at 0800 hrs Thurs. Please include these activities on the POD. No additional Plant support is anticipated.

Once onsite, Tony will notify the Shift Supervisor and Security of the start and end of sampling activities.

Thank you for your help and please let me know if you have any questions.

Matthew T. Montz

Environmental Specialist Southern Nuclear Operating Company Office 205-992-5629

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From:Moore, Phil [Phil.Moore@tetratech.com]Sent:Wednesday, May 21, 2008 9:08 AMTo:Montz, Matthew ThomasSubject:RE: Savannah R larval fish surveys

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Thanks, Matt.

From: Montz, Matthew Thomas [mailto:MTMONTZ@SOUTHERNCO.COM] Sent: Wednesday, May 21, 2008 9:58 AM To: Moore, Phil Cc: Patterson, Karen Subject: RE: Savannah R larval fish surveys

Yes, actually, icthyoplankton samples are being collected every 6 hours (in duplicate) and composited into a 12 hour samples. The 6 hour duplicates are held for possible future analyses.

Matthew T. Montz Office 205-992-5629

> From: Moore, Phil [mailto:Phil.Moore@tetratech.com] Sent: Wednesday, May 21, 2008 8:43 AM To: Montz, Matthew Thomas Cc: Patterson, Karen Subject: RE: Savannah R larval fish surveys

Matt,

I neglected to ask when we spoke on the phone....you're doing day-night ichthyoplankton sampling, I presume?

Thanks for your help,

PHII M

From: Montz, Matthew Thomas [mailto:MTMONTZ@SOUTHERNCO.COM] Sent: Wednesday, May 21, 2008 9:23 AM To: Patterson, Karen; Fulton, Dale Lane Cc: Moore, Phil; Moorer, Tom C. Subject: RE: Savannah R larval fish surveys

Karen, I called him this morning.

Matthew T. Montz Office 205-992-5629 From: Patterson, Karen [mailto:Karen.Patterson@tetratech.com]
Sent: Wednesday, May 21, 2008 8:06 AM
To: Fulton, Dale Lane; Montz, Matthew Thomas
Cc: Moore, Phil; Moorer, Tom C.
Subject: FW: Savannah R larval fish surveys

Matt or Dale – Can one of you call Phil (803 641 6311) and brief him on the SR sampling – or, if you have a methodology you can send him? SCE&G is planning to do sampling in the Broad and wants to be as consistent with ya'll as possible.

Thanks. KP

,

From: Moore, Phil Sent: Wednesday, May 21, 2008 6:11 AM To: Patterson, Karen Subject: Savannah R larval fish surveys

Karen,

Could you pls find out exactly what Southern/Ga Power is doing in the way of ichthyoplankton surveys at Plant Vogtle?

Or direct me to someone who would know?

I'm interested in frequency of **sampling and no/location of sampling transects.** SCE&G wants to do "what everybody else is doing."

Thanks,

PHIL

Montz, Matthew Thomas Thursday, April 24, 2008 10:12 AM Walden, Kevin C. RE: Impingement and Entrainment Monitoring

Attachments:

Trip Report 3.doc

No problem Kevin, here is the most recent trip report describing sampling activities to date. A new trip report is generated after each sampling trip. I will forward them to you when received.



Trip Report 3.doc (52 KB)

Matthew T. Montz

Office 205-992-5629

 From:
 Walden, Kevin C.

 Sent:
 Tuesday, April 22, 2008 7:54 AM

 To:
 Montz, Matthew Thomas

 Subject:
 Impingement and Entrainment Monitoring

Matt,

I was wondering if it'd be possible for you to send me a summary of each sampling session from down at the River Intake Structure? I would just like to keep tabs on what you guys are catching down there.

Thanks,

Kevin Walden

Operations Department Southern Company Plant Vogtle (706) 826-4290 (Office) (706) 826-3025 899 (Pager) KCWalden@southernco.com This electronic mail message may contain privileged and confidential information which is intended solely for the indicated recipient. If you have received this message in error, please delete the message without reading it and notify the sender.

To:

Plant Vogtle Impingement/Entrainment Assessment team members

This message conveys summary information from the third of 24 planned sampling events for aquatic impingement and entrainment assessment at the Plant Vogtle make-up water intake structure. The sampling event was conducted during 8-10 April 2008. The event was conducted by Tony Dodd and Tom Broadwell of GPC's Environmental Field Services Group, SmyrnarGA.

Operation

Three of the four vertical traveling screens were in service and two circulator pumps were operating during the sampling event. Unit 1 was out of operation during this sampling event still due to scheduled maintenance outage.

Impingement Sampling

Impingement sampling was conducted at the PlantVogtle in the structure screen wash water pit during a 24-hr period from 9 into 10 April. Prior to setting the sample net for daytime sample collection, the traveling screens were rotated and object of impinged debris in manual mode. The first sample (daytime) constituting a 12 HRS 5 mins impingement sample was collected at 2055 HRS on 9 April. The night sample which lasted 13 HRS 5 mins was collected at 1000 HRS on 10 April 2008.

The daytime sample yielded three fish species (chain pickerel – *Esox americanus*, dollar sunfish -*Lepomis marginatus*, and buegel - *L. macrochirus*) and one shrimp species (shore shrimp – *Paeleomonetes* sp.likely *Vulgaris* still to be confirmed). The nighttime sample yielded five fish including two bluegill, one warmouth (*L. gulosus*), black crappie (*Pomoxis nigromaculatus*), and one hogchoker (*Trinectes maculatus*). The hogchoker was alive upon collection from the trash pit. All other specific and warmouth good to relatively good condition following apparent recent morbidity. The black chapter was of mature adult size, but was missing at least 25 percent of its body mass in the caudal to post dorsal region due to prior predation or possibly impingement in the traveling scient mechanism. Organic and other debris associated with each sample consisting on paves wigs, seeds or chaff from various trees or shrubs, and several aquatic insects warpobarved in low volume (approximately a couple of hands full of material).

Entrainment Sampling

Entrainment sampling was conducted during 8-9 April 2008. The two prior entrainment sampling attempts were unsuccessful due to a combination of factors including but not limited to sluggish velocities in the canal during the first event and to gear type and sample location logistics during the second event. The most recent canal/entrainment sampling event was considered successful owing to gear type change (using submersible pumps) mounted at the top of the canal, left bank facing the intake, at a point located about 85 ft in front of the trash racks. Beginning on the afternoon of 4/8/2008, each of two 73 gpm submersible pumps (Tsurumi Model LB3-750) and associated hoses were suspended from two tie-of points along the handrail system at the top of the canal. The pumps were powered by a 6,000 watt, gas-powered generator set on the ground

near the railing. Each pump was lowered five feet below the water surface in the canal. Pump discharge hoses were draped up and over the top edge of the canal wall with discharge ends affixed over two 500 micron sized mesh, Nitex plankton nets that were each mounted in the mouths of plastic 55 gallon drums. Once sieved through the nets, canal water (entrainment sample) was drained from the drums via a 2-inch diameter opening in each drum mid-section, through PVC pipe fittings at the drum opening, then into 4-inch diameter solid corrugated drain hoses that ultimately drained into the rip-rapped storm water basin adjacent (south side) of the intake canal. At six hour intervals, the contents of each net were retrieved and preserved in 5% formalin. Six-hour samples from one drum have been retained at the GPC lab as archive samples and samples collected from the other drum were composited in the field by 12-HR day and 12-HR night periods and will be submitted to the selected contract laboratory for enumeration and taxonomic processing.

Source-Water Ichthyoplankton Community Sampling

The source water ichthyoplankton community was successfully conducted sampled at three previously established sampling stations positioned along a cross-section buranseo of the Savannah River located approximately 250 feet upstream of the motion of the intake canal during 9-10 April 2008. Samples were collected at approximately 6-hour intervals, two samples each during day- and night-time periods to represent a 24-hr period. The field chew has routinely observed heavy detritus loads and net clogging at depths below three 3 meters on each sampling event thus far. Because net clogging overloads the netwith detritus and greatly reduces the filtering efficiency of the nets, based on professional idegment, a decision was made in the field during this sampling event to limit the depth of ichthyoplankto, sampling nets to 3 meters and increase the sampling time at each 1-meter depth uterval to reduce net clogging, detritus loads and provide adequate sampling volume. All rively of amples have been preserved and the composited 12-HR day and night samples are being temporarily held at GPC's Smyrna Lab for future laboratory processing for enumeration and species identification by the selected contract laboratory.

Other Observations

.1

Surface water temperature during the 24-hr event was approximately 17° C compared to 12° C during the first sampling event in early March. Flow in the Savannah River ranged from approximately 7,130 cfs down to 6,090 cfs during this event (USGS Waynesboro Gage No. 021973269).

Our primage esservations following this sampling event include:

 To date, the Impingement collection has recorded 21 individual specimens representing 12 specie participation of a specie partipation of a specie participation of a specie participation o

> Centrarchidae – sunfishes Esocidae – pikes Percidae – perches and darters Clupeidae – herrings Ictaluridae – catfishes Cyprinidae – minnows Soleidae – soles Palaemonidae – shore shrimps

Specimens collected in this study are potentially impinged between a few hours to 12 hours before the screens are either randomly, automatically rotated every eight hours or manually

rotated at the end of each diel cycle. Further, specimens are exposed to dry conditions in the trash pit between collections. In light of these observations, most specimens observed during this sampling event and prior events appeared to be in reasonably good body condition (i.e, without advanced necrosis, appearance of relatively clear eyes, scales attached, and gill filaments in relatively good condition) thus indicating possibly most specimens were alive or only recently deceased when first being washed into the trash pit collection net.

- canal entrainment sampling via pumping from the top of the canal via submersible pumps appears to be a viable method for this study. In the near future, a comparison/calibration exercise will be conducted in the river to compare net collected vs pump collected samples in terms of efficiency and examination of potential organism damage due to the pumping apparatus.
- one of the submersible pumps did not function as well as expected in terms of flow rate. That problem has been corrected with the introduction of anew replacement pump before the next sampling event begins.
- numerous aquatic insects, mostly larval forms, have been observed whe pumped entrainment samples and riverine samples. Very few fish larvagend in eggs have actually been observed to date by field staff when examining freshly collected and preserved samples in the field.
- a few adult fish have been observed swimming or jumping at the water's surface in mid- to outer half of the canal during day and night sampling periods.
- although Unit 2 intake operators were very shirt-handed during this past event owing to the ongoing maintenance outage, their efforts a meet our impingement sampling schedule need as well as possible was greatly appreciated. In ossible, our recommendation is that impingement samples (12-hour screen tash samples) be collected at 0800 and 2200 HRS during each 24-HR event.

The next sampling event is schedule for 2-24 April 2008.

Please contact me if you have any guestions.

Tony Dodd, CFP Environmental Specialist GPC Environmental FURE Services 404-799-2142 (Main) 770-550-2002 (LINC Gell) 8-530-2142 (Memar Direct) ard odd@Sputhtenco.com

Montz, Matthew Thomas Tuesday, May 06, 2008 10:46 AM Manigo, D'Andre FW: Trip Report 4.doc

Attachments:

Trip Report 4.doc; 2nd April Event.pdf

I&E Study Trip Report 4

Matthew T. Montz Office 205-992-5629

From:Dodd, Anthony RaySent:Wednesday, April 30, 2008 2:30 PMTo:Montz, Matthew Thomas; 'Coutant, Chuck/Nancy'Cc:Blanton, Stan (Balch); Nichols, Michael C. (Env. Lab GPC); Walden, Kevin C.Subject:Trip Report 4.doc

Vogtle Impingement/Entrainment Study Team,

Please find electronic copies of the current Vogtle I& E sampling trip report and associated field data sheets. Please contact me if you have any questions.



Trip Report 4.doc 2nd April Event.pdf (47 KB) (375 KB)

ONO ETA

This electronic mail message may contain privileged and confidential information which is intended solely for the indicated recipient. If you have received this message in error, please delete the message without reading it and notify the sender.

To:

Plant Vogtle Impingement/Entrainment Assessment team members

This message conveys summary information from the fourth of 24 planned sampling events for aquatic impingement and entrainment assessment at the Plant Vogtle make-up water intake structure. This sampling event was conducted during 22-24 April 2008. The event was conducted by Tony Dodd and Joey Slaughter of GPC's Environmental Field Services Group, Smylva, GA.

Operation

Three of the four vertical traveling screens were in service and two circulator purposes were operating during the sampling event. It's our understanding that the main enance outage on Unit 1 was nearly finished at that time.

Impingement Sampling

Impingement sampling was conducted at the Plant Vogte intake structure screen wash outfall/pit during the 24-hr period beginning near 0900 on 23 April to 0900 on 24 April 2008. Prior to setting the sample net for daytime sample collection, three of the four operative traveling screens were rotated and purged of impinged debris in manual mode. No fish or other aquatic organisms were observed in either the day or night sample. About the double handfuls of leafs and debris were present in the night sample and much less in the out sample.

Entrainment Sampling

Entrainment sampling was conducted during 23-24 April 2008. Using the submersible pump system described in the previous report, at six hour intervals, the contents of each entrainment sampling net were retrieved and preserved in 5% formalin. Six-hour samples from one drum have been retained at the GNC lap as aronive samples and samples collected from the other drum were composited in the field by 12-HR day and 12-HR night periods. The average volume of pumped canal water per sample was approximately 73.8 m³ on this trip. Samples will be submitted to the laboration for enumeration and taxonomic processing. The contract laboratory has been settined (Normandeau Associates, Inc.)

Source-Weter abthyoplankton Community Sampling

The source vater ichthyoplankton community was 22-23 April 2008. Samples were collected at approximitely 6-hour intervals, two samples each during day- and night-time periods to represent a 24-hr period. During prior sampling events, the field crew has routinely observed heavy detritus loads and net clogging at depths below three 3 meters and had opted to sample depths at 3 m or less depending on river stage in order to reduce net clogging. River discharge and stage has exhibited a general pattern of decline during sampling events since the initial sampling event in early March. Each of the three sampling stations was sampled at 1-m intervals to a maximum depth of 2 meters for a total of 9 minutes of sampling time at each depth. The mean volume of river water sampled at each was approximately 108.3 m³. All source water samples have been preserved and the composited 12-HR day and night samples are being temporarily held at GPC's Smyrna Lab for future laboratory processing for enumeration and species identification by the contract laboratory.

ALIA 274

Other Observations

- Surface water temperature during the 24-hr event was approximately 18.4° C compared to 17° C two weeks prior. Flow in the Savannah River ranged between 3,910 and 4,110 cfs during this event (USGS Waynesboro Gage No. 021973269) as compared to approximately 6,500 cfs two weeks prior.
- A single live, juvenile Eastern spiny softshell turtle (*Apalone spinifera spinifera*) was caught in the day and night impingement samples and released back to the rives in each case.
- We understand that the Unit 3 traveling screen might be under re-assembly and returning to service during the next scheduled sampling event during 6-8 May 1998.
- To date, 21 individual organisms including one shrimp representing 2 species and 8 taxonomic families have been represented in the impingement sampling component of this study.

The next sampling event is scheduled for 6-8 May 2008.

Please contact me if you have any questions.

Tony Dodd, CFP

Environmental Specialist GPC Environmental Field Services 404-799-2142 (Main) 770-550-2502 (LINC Cell) 8-530-2142 (Internal Direct) ardodd@southernco.com

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tal time for retrieval (mins)		'ammants/Absenvations:		L	<u>I</u>

Lollected by: <u>165 (71)</u> Date: <u>4/12/29</u>		· · · · · · · · · · · · · · · · · · ·	
River/Water Conditions			
Circle One : Source Water Samplin	g or Entrainment Sampling	· · ·	
		· =	Time a
		Depth	Depth
DAY 1 DAY 2 NIGHT 1 NIGHT	2	(m)	(mins
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Nets or gump		,	
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rime stop (HKS) Fotol time for metricus l (m)	*20130 5 20-30	4	<u> </u>
I otal time for retrieval (mins)	17 1353 mm	5	
alculated sample flow volume (m [*] /s)	201474 g / 77.5 m3	6	
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urrent meter stop count		3	
ime stop (HRS)		4	
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omments/Observations: 6 hour samples are archived (type A sample day and night sample components are com D& I& CGB p64142	es) posited for laboratory analysis (type C sa - - iter Tjar.	amples)	

Collected by: TES (T)	-		
Date: 4/23/08		-	
River/water Conditions:	ar Entrainmont Co	molina	
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	•	Denth	Depti
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acculated sample now volume (m/s)		L	<u> </u>
omments/Observations: 6 hour samples are archived (type A samples) day and night sample components are compo 23.3 / handrail to	sited for laboratory analysis	(type C samples)	

Collected by: AES, TY					:
Date:			<u>_</u>		
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circle One : Source water Sampling	j or	Entrainin	ent Sampling		Time
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DATT DATZ NIGHT NIGHT	~Z ·		- /4 -	(m) 	(innis
Location: Circle one Left Bank Mid-	Channel	Right Bar	nk (facing ups	tream)	
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lets or Pump	Jugune	night ban	ik lacing upst	ream	
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urrent meter stop count		· · · · · · · · · · · · · · · · · · ·		3	
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6 hour samples are archived (type A sample	es)				
day and night sample components are comp	oosited fo	r laboratory ai	nalysis (type C s	amples)	
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Montz, Matthew Thomas Tuesday, May 13, 2008 3:44 PM Manigo, D'Andre FW: Trip Report 5.doc

Attachments:

Trip Report 5.doc; 1st May event.pdf

FYI

Matthew T. Montz Office 205-992-5629

 From:
 Dodd, Anthony Ray

 Sent:
 Tuesday, May 13, 2008 3:34 PM

 To:
 Montz, Matthew Thomas; Charles Coutant (ccoutant3@comcast.net)

 Cc:
 Blanton, Stan (Balch); Walden, Kevin C.; Candler, W. Jim; Nichols, Michael C. (Env. Lab GPC)

 Subject:
 Trip Report 5.doc

Vogtle Impingement/Entrainment Study Team,

Please find electronic copies of the current Vogtle I& E sampling trip report and associated field data sheets. Please contact me if you have any questions.



Trip Report 5.doc 1st May event.pdf (39 KB) (372 KB)

Tony Dodd, CFP Environmental Specialist Georgia Power Environmental Lab 5131 Maner Rd. Smyrna Ga 30080 Desk Ph: 404-799-2142 Fax: 404-799-2141 LINC Cell: 770-550-2502 Blackberry: 404-434-9412 Email: ardodd@southernco.com

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To:

Plant Vogtle Impingement/Entrainment Assessment team members

This message conveys summary information from the fifth of 24 planned sampling events for aquatic impingement and entrainment assessment at the Plant Vogtle make-up water intake structure. This sampling event was conducted during 6-8 May 2008. The event was conducted by Tony Dodd and Gary Dye of GPC's Environmental Field Services Group, Smyrna, GA.

Operation

Three of the four vertical traveling screens were in service and two circulator pumps were operating during the sampling event.

Impingement Sampling

Impingement sampling was conducted at the Plant Vogtle intake Stucture screen wash outfall/pit between 0800 hrs on 7 May and 0800 hrs on 8 May 2006. Prior to setting the sample net for daytime sample collection, the three operative traveling screens were rotated and purged of impinged debris. No fish or other aquatic organisms were observed in 12-hr daytime component. Two fish including juvenile life stages of bluespotted sunfish (*Enneacanthus gloriosus*) and pirate perch (*Aphredoderus sayanus*) were collected during the 12-hr night sample. These species are new to the list of observed impinged species during his study to date. About 14 double handfuls of organic debris in the form of leaves and thigs were present in the night sample and much less in the day sample.

To date, a total of 23 organisms representing 4 species in nine taxonomic families have been collected in the impingement campling program.

Entrainment Sampling

Entrainment sampling was conducted during 7-8 May 2008. The average volume of pumped canal water per sample has approximately 86.7 m³ on this trip. Samples will be submitted to the laboratory for numeration and taxonomic processing.

Source Water Ichild oplankton Community Sampling

The ource vater ichthyoplankton community was 6-7 May 2008. Each of the three sampling stations was sampled at 1-m intervals to a maximum depth of 2 meters for a total of 9 minutes of sampling me at each depth. The mean volume of river water sampled at each was approximately 130.1 m³. All source water samples have been preserved and the composited 12-HR day and night samples are being temporarily held at GPC's Smyrna Lab for future laboratory processing.

Other Observations

 Surface water temperature during the 24-hr event was approximately 22.4° C compared to 17° C a month prior. Flow in the Savannah River ranged from 4,060 down to 3,930 cfs during this event (USGS Waynesboro Gage No. 021973269).
• The next sampling event is scheduled for 20-22 May 2008.

Please contact me if you have any questions.

Tony Dodd, CFP Environmental Specialist GPC Environmental Field Services 404-799-2142 (Main) 770-550-2502 (LINC Cell) 8-530-2142 (Internal Direct) ardodd@southernco.com

	PLANT VC	GTLE IMPINGEME	NT MONITOR	ING DATA F	ORM	
Sample Infor	mation				Page:	_ of
Collector(s)	ARD	1632				
Conscion(s):				Remarks:		
12-hour Peric	od (circle)	•	DAY	NIGHT	,,	
Start Date	5/7/00	Time Time	0600	2000	<u></u>	
End Date	5/1/00	Elapsed Time	/9 *)	0800		
	T	Plant and CWIS Or	perating Con	ditions	A	
Start	No. Pumps	Pump Flow (gpm)		NO. OT VIS	Operating	
Finish	2			3/4		
		.	5/1/15	8 1	ö 4	
			Distance	0,8 1	W	
	River Stage (ft.)		D.O.		ma/L	
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Finish	6.5	3,9 30 chi	Cond.	121.2	uS/cm	
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Start	rature (°C)	6/20	Jeur ;	Measureme	nt	
Finish	22.70		HAcqu	1000 Ka	mp	
		J			-/	
Field Conditio	ons/Other Observat	tions				
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Sample Information	PLANT V	OGTLE IMPIN	GEMENT MONITORING DATA F	ORM			
Collector(s):	ARD 16	BD		Page: / o	age: / of/_		
• •			DAY NIGHT	• —			
12-hour Period (circl	e)						
Start Date	5/7/08	3	Time 2000				
End Date	5/8/09	3	Time c. CCX	•			
· L	Elapsed Time		sed Time				
Species	TL (mm)	Weight (g)	Condition/Comment	Voucher?	Final ID		
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ble Janed	30		The second second		70		
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Event #

	PLANT V	OGTLE IMPINO	GEMENT MONITORING DATA	FORM	
Sample Information		~ ^		- 11	
Collector(s):	ARY [61	<u>9</u>		Page: of	
12 hour Period (sine		(DAY NIGHT		
Start Data	10)		Time		
End Date	5/10/10		Time 150		
	51400	Flan	sed Time		
Species	TL (mm)	Weight (g)	Condition/Comment	Voucher? Find	al ID
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Collected by: GRU // the		
Date: 5/1/00 Coard dual 1:2 ratio 0.5 m Nitay 500 mlanas	mach plankton noto	
Gear: dual 1:5 ratio 0.5 m Nitex 500 micron	mesh plankton nets	Time of
Sampling Period Circle One: DAY 1	DAY 2 NIGHT 1 NIGHT 2	Depth Depth (m) (mins)
Location: Left Bank (facing upstream)	•/	•
Time start	INIU HRS	1 9 Mi
Current meter start count	812545	2 9 1414
Current meter stop count	887288	
Time stop	1035 HRS	
Total time for retrieval	24 MINS	5
Calculated sample flow volume (m ³ /s)	130.5 (1.7 FHS)	6
Location: Mid-Channel	· · ·	· · ·
Time start (HRS)	D945 HRS	1 9 bin
Current meter start count	835055	2 9 min
Current meter stop count	862542	3 /
Time stop (HRS)	1005 HRS	4 X
Total time for retrieval (mins)	20 MINS	5
Calculated sample flow volume (m ³ /s)	145,0 (2.0)44/(6
ocation: Right Bank (facing upstream)		
Fime start (HRS)	OGI7 HRS	1 9 min
Current meter start count	812969	2 4 41
Current meter stop count	835048	3 \ /
Fime stop (HRS)	0935 HRS	4
Fotal time for retrieval (mins)	18 MINS	5
Calculated sample flow volume (m³/s)	116 of (ie etk)	6
Comments/Observations:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
6 hour samples are archived (type A samples	a)	
day and night sample components are comp	osited for laboratory analysis (type C sam	ples)
		- /
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Bear: dual 1:3 ratio 0.5 m Nitex 500 micron m Bear: dual 1:3	DAY 2 NIGHT 1 NIGHT 3 0340 HRS 753823 012457 0358 HRS 18 MINS 180445 10049 ($14644/5$) 1445	$1 \qquad 9$ $1 \qquad 9$ $2 \qquad 1 \qquad 9$ $4 \qquad 5$ $6 \qquad 1$	ne a epth hins;
Cocation: Left Bank (facing upstream) ime start current meter start count current meter stop count ime stop total time for retrieval calculated sample flow volume (m ³ /s) cocation: Mid-Channel ime start (HRS) current meter start count current meter stop count ime stop (HRS) cotal time for retrieval (mins)	DAY 2 NIGHT 1 NIGHT 3 03/20 HRS 753823 8/2457 0358 HRS /8 MINS /0049 (14 44/5) 03/2 HRS 767695	$ \begin{array}{c} \text{Tin} \\ \text{Depth} & \text{De} \\ \text{(m)} & (m) \\ \hline 1 & 9 \\ \hline 2 & 1 \\ \hline 2 &$	
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Current meter start count Current meter stop count Time stop Total time for retrieval Calculated sample flow volume (m ³ /s) Calculated sample flow volume (m ³ /s) Current meter start count Current meter start count Current meter stop count Time stop (HRS) Cotal time for retrieval (mins)	753823 812957 0358 HRS 18 MINS 10049 (14 44/5) 0312 HRS 767695	211/2 9 3 4 5 6	
Current meter stop count Time stop Total time for retrieval Calculated sample flow volume (m ³ /s) Cocation: Mid-Channel Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins)	012957 0358 HRS 18 MINS 10049 (14 44/5) 0312 HRS 767695	$\begin{array}{c c} 3 \\ 4 \\ 5 \\ 6 \end{array}$	
Time stop Total time for retrieval Calculated sample flow volume (m ³ /s) Cocation: Mid-Channel Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins)	035 8 HRS 18 MINS 10049 (14 44/5) 0312 HRS 767695 767695	$\begin{array}{c c} 4 \\ 5 \\ 6 \end{array}$	
otal time for retrieval calculated sample flow volume (m³/s) cocation: Mid-Channel ime start (HRS) current meter start count current meter stop count ime stop (HRS) cotal time for retrieval (mins)	18 MINS 100,9 (14 4+/s) 03/2 HRS 767695 70281		
Cocation: Mid-Channel Cocation: Mid-Channel Current meter start count Current meter stop count Current meter stop count Current meter stop count	03/2 HRS 767695		
ocation: Mid-Channel Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins)	03/2 HRS 767695	1 9	
cocation: Mid-Channel ime start (HRS) current meter start count current meter stop count ime stop (HRS) otal time for retrieval (mins)	03/2 HRS 767695	1 9	
Current meter start count Current meter stop count Current meter stop count Current meter stop count Current meter stop count	767695		
Current meter start count Current meter stop count (ime stop (HRS)	767693	0 0	
Time stop (HRS)			ALA.
otal time for retrieval (mins)	- 270 HRS		7
		5	\star
alculated sample flow volume (m³/s)	137.8 (2,14/5)	.6	
eastion, Bight Bonk (facing upstream)			
ime start (HRS)	O244 HBS	1 9	
current meter start count	742878	2 9	
Current meter stop count	767689	3	
ime stop (HRS)	0303 HRS	4	∇
otal time for retrieval (mins)	19 MINS	5 ·	Δ
alculated sample flow volume (m ³ /s)	130,8 (109 H/s)	6	
comments/Observations:			
6 hour samples are archived (type A samples)			
day and night sample components are compos	sited for laboratory analysis (type C san	nples)	
	•		
•			

-- - ·

Collected by: 0 BA MCD		
Date: <u>5/6/08</u>		
Gear: dual 1:3 ratio 0.5 m Nitex 500 micro	on mesh plankton nets	
		Time a
Sampling Period Circle One: DAY	1 DAY 2 NIGHT 1 NIGHT 2	(m) (mins)
Location: Left Bank (facing upstream)		• •
Time start	2.164 HRS	1 9 1
Current meter start count	714963	2 9 Ai
Current meter stop count	792881	3 1
Time stop	22/8 HRS	
Total time for retrieval	19 MINS	5
Calculated sample flow volume (m ³ /s)	147,2 (2.2.4/1)	6
ocation: Mid-Channel		
lime start (HRS)	2/30 HRS	1 9 114
Current meter start count	687260	2 9 min
Current meter stop count	214975	3
nime stop (ARS) Fotal time for retrievel (mine)	A 19 HRS	
Calculated approach flow website (m ³ /s)	/ 9 MINS	5 /
saiculated sample now volume (m /s)	(21 4FK)	<u>6</u> <u>V</u>
ocation: Right Bank (facing upstream)		
ime start (HRS)	2100 HRS	1 9 0
Current meter start count	467635	2 9
current meter stop count	687266	3
ime stop (HRS)	21/9 HRS	
otal time for retrieval (mins)	/9 MINS	5
alculated sample flow volume (m ³ /s)	1035 (1.5 446)	6 / 1
omments/Observations;		
day and night sample components are com	es) Posited for Isbaraton, analysis (type C comm	
and high dample components are com	posited for laboratory analysis (type C samp	lies)
,		

-5-

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Vogtle I & E Study - Source Water Community Sampling **Data Sheet*** ARD/ass Collected by: 5-7-08

Gear: dual 1:3 ratio 0.5 m Nitex 500 micron mesh plankton nets

Time at Depth Depth Sampling Period Circle One: **NIGHT 1** (mins) DAY 1 **NIGHT 2** (m) Location: Left Bank (facing upstream) 1626 HRS Time start 1 9 M/h Current meter start count 439703 2 9 Win Current meter stop count 963631 3 Time stop 1645 HRS 4 Total time for retrieval MINS 5 Calculated sample flow volume (m³/s) 6 Location: Mid-Channel Time start (HRS) HRS MIN, 553 1 Current meter start count 1192 2 **u** jws Current meter stop count 3 43969. Time stop (HRS) HRS 4 Total time for retrieval (mins) MINS 5 19 Calculated sample flow volume (m³/s) 2,2 lt 6 500 Location: Right Bank (facing upstream) Time start (HRS) 1528 HRS 1 <u>ki</u> Current meter start count 887282 2 9 MIP Current meter stop count 911190 3 Time stop (HRS) 1547 HRS 4 Total time for retrieval (mlns) MINS 5 Calculated sample flow volume (m³/s) 26. 8 4+1 6

Comments/Observations:

Date:

6 hour samples are archived (type A samples)

day and night sample components are composited for laboratory analysis (type C samples)

Vogtle I & E Study - Canal Entrainment Sampling Da	ata
Sheet*	

Collected by:_	ARDIGRD)	
Date: 5/-	7/08		
Canal Water S	، tage to top rail	232	_ft (?)
Depth of Pump	Deployment	<u>~ 4</u> ft	

Pumps: 2 electric Tsurumi LB3-750 type with 73 gpm capacity at level head

	DAY 1	DAY 2	NIGHT 1	NIGHT 2	
Time start (HRS)	0842	1500	2100	0310	un
Time stop (HRS)	1445	2100	0305	0924	· ·
Total pumping time (mins)	333	360	365	374] .
Calculated sample flow volume (m ³ /s)	80,7	87.2	88.4	90.6	ł
Notes:					1

iş.

Flow volume flow based on depth and river stage and performance curve: 64.0

* day and night sample components are composited for laboratory analysis (type C samples)

~0242 HAR River Stage (22.2'

gals/min

ample No.	Integrated Sample ID and Collection Date	Approximate Time of Collection	Preservative	Shipped to taxonomy lab	Archived at GPC Smyrna
		~0000 HBs	5% formalin or 10% formalin	V V	V
-1					
2	IENI D2A	2106 1400	<u> </u>		
3	ENLDCOMP	2100 Hor		· · · · ·	+
4	IENLN1A	azier Hal	<i>[</i>		<u> </u>
5	ENLN2A	OGZY HAI	 		· · ·
6	ENLNCOMP	0924 401			1
7	IMDA	2000	\$ 40	AC C.I	<u>,</u>
8	IMNA	0800	X	100 1454 /	$ \rightarrow $
9	SWLD1A	1014 1435	5%		
10	SWLD2A	1626 HRS	1		
11	SWLDCOMP	1626 HAS			
12	SWMD1A	0945HPS			
13	SWMD2A	1555 HOX			
14	SWMDCOMP	1555#125			
15	SWRD1A	OGIT HRS			
16	SWRD2A	1528 HRS	, <u>,</u>		<u> </u>
17	SWRDCOMP	1528.4421			
18	SWLN1A	2159 1485			ļ
19	SWLN2A	0340 HRS			ļ
20	SWENCOMP	0540 HALS	· · · · · · · · · · · · · · · · · · ·		
21		FI 30 HARS	·		<u> </u>
22		OSIG HRS			l
23		2114 LOC			
24	SWRN2A	appar dar			<u> </u>
20	SWRNCOMP	UZYY MES			<u> </u>
20					
28					
29					
30					
= entrainment impingement = source wate	sample D1 = first day sample sample N2 = second night sample or sample A = archived 6-hour sample	C = composited 1st	and 2nd day or night $\sqrt{8}$	nt samples	{

......

From:Middlebrooks, Kenneth D.Sent:Thursday, April 03, 2008 12:00 PMTo:Dodd, Anthony Ray; Broadwell, Tom L.; VNP Dispatchers; Williams, A. L. (Tony)Cc:Stuhaan, Chuck E.; Walden, Kevin C.Subject:FW: POD ADDITION: Work at the river water intake structure

Activities are in the schedule for the next 6 months for operations to run the screens for 15 minutes every other week on Wednesday morning, Wednesday night and Thursday morning. Security has now been checked on all the activities. Are there any other support needs for this project?

Stuhaan, Chuck E.
Thursday, April 03, 2008 12:19 PM
Williams, A. L. (Tony); VNP Dispatchers
Middlebrooks, Kenneth D.; Dyar, Ken C.
RE: POD ADDITION: Work at the river water intake structure

Tony,

The activity is 20PS-0A002 and is currently on the schedule. Let me know if any additional comments need to be added to the activity.

Chuck

From:	Williams, A. L. (Tony)
Sent:	Thursday, April 03, 2008 12:10 PM
То:	Folker, Robert E.
Cc:	Stuhaan, Chuck E.; Middlebrooks, Kenneth D.; Dyar, Ken C.
Subject:	POD ADDITION: Work at the river water intake structure

Tony Dodd and Tom Broadwell with GPC Environmental Field Services will be performing impingement and entrainment sampling at the Vogtle river water intake structure Tuesday, April 8 through Thursday, April 10. They will be working in the area through night and day hours for approximately 48 hours and are requesting Gate 12 remain open during that time.

They will be contacting the Unit 2 Operator periodically to ask for assistance to have the traveling screens at the intake structure rotated on three instances during the study. Kevin Walden and D'Andre Manigo are the onsite contacts. Please include this activity in the POD for 8 - 10 April. Thanks for your help and please let me know if you have any questions.

1

TONY WILLIAMS SECURITY COORDINATOR 4445/ 768

From:	Middlebrooks, Kenneth D.
Sent:	Thursday, April 17, 2008 8:15 PM
То:	Dodd, Anthony Ray; Montz, Matthew Thomas; Stuhaan, Chuck E.; VNP Dispatchers; Walden, Kevin C.; Williams, A. L. (Tony); Dyar, Ken C.
Cc:	Chambers, William Carlton; Candler, W. Jim
Subject:	RE: P.O.D Plant Vogtle River and Intake Studies

Activities are in the schedule.

From:	Dodd, Anthony Ray
Sent:	Thursday, April 17, 2008 02:10 PM
To:	Middlebrooks, Kenneth D.; Montz, Matthew Thomas; Stuhaan, Chuck E.; VNP Dispatchers; Walden, Kevin C.; Williams, A. L.
	(Tony); Dyar, Ken C.
Cc:	Chambers, William Carlton; Candler, W. Jim
Subject:	P.O.D Plant Vogtle River and Intake Studies

Tony Dodd and Joey Slaughter of GPC Environmental Field Services will be performing aquatic impingement and entrainment sampling at the Plant Vogtle river water intake structure and source water plankton sampling on the Savannah River during April 22-24. We will be working in the area on a sampling schedule requiring 6-hr sampling intervals through night and day hours for approximately 48 hours and are requesting that Gate 12 and the entrance gate to the intake building remain open during that time. We will contact the on-shift Unit 2 Operator periodically during the event to ask for assistance to have the traveling screens at the intake structure rotated on three instances during the study (0830 HRS and 2030 HRS on WED and 0830 HRS on Thursday). Kevin Walden and D'Andre Manigo are the onsite contacts. Please include this activity in the POD for 22-24 April.

Thanks for your help and please contact us if you have any questions.

Tony Dodd, CFP Environmental Specialist Georgia Power Environmental Lab 5131 Maner Rd. Smyrna Ga 30080 Ph: 404-799-2142 Fax: 404-799-2141 Cell: 770-550-2502 LINC Radio: 1*20*12502 Email: ardodd@southernco.com

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1

From: Sent: To: Cc: Subject: Manigo, D'Andre Monday, March 24, 2008 6:27 AM Montz, Matthew Thomas Walden, Kevin C. RE: Sampling in intake canal

Matt

Could you send me all the instructions an or process in which this will be done. Than plan seems a lot more justifiable. I need would like to run it by our management and make sure that this plan understood by all.

From:	Montz, Matthew Thomas
Sent:	Friday, March 21, 2008 3:09 PM
To:	Walden, Kevin C.; Manigo, D'Andre
Subject:	RE: Sampling in intake canal

Understood! We will proceed with the original plan of pumping from the bank of the intake canal.

Matthew T. Montz

Office 205-992-5629

From:	Walden, Kevin C.
Sent:	Friday, March 21, 2008 1:54 PM
To:	Montz, Matthew Thomas; Manigo, D'Andre
Subject:	RE: Sampling in intake canal

Matt,

We have talked with both Steve and Doug about using a boat inside the intake structure for plankton sampling and they both had serious issues with this plan. Your best course of action will be to plan on using a pump of to the side of the canal.

Thanks,

Kewin Walden

From: Montz, Matthew Thomas Sent: Thursday, March 20, 2008 8:46 AM To: Manigo, D'Andre; Walden, Kevin C. Subject: Sampling in intake canal

We would like to try getting a small boat with a pump in the intake canal for sampling. This would avoid us having to suspend a cable or rope across the canal. We could instead, float in on a boat, take our sample with a water pump and get out.

How do you all feel about this approach?

Matthew T. Montz Environmental Specialist Southern Nuclear Operating Company Office 205-992-5629

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information that is privileged, confidential, or protected by copyright belonging to Southern Company and/or its affiliates. This e-mail is intended solely for the use of the individual or entity for which it is intended. If you are not the intended recipient of this e-mail, any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this e-mail is contrary to the rights of Southern Company and/or its affiliates and is prohibited. If you are not the intended recipient of this email, please notify the sender immediately by return e-mail and permanently delete the original and any copy or printout of this e-mail and any attachments. Thank you. From: Sent: To: Cc: Subject: Dyar, Ken C. Thursday, April 03, 2008 8:38 AM Dodd, Anthony Ray; Kitchens, Cohen J.; McQuillen, Thomas Blanton, Stan (Balch); Manigo, D'Andre; Walden, Kevin C.; Montz, Matthew Thomas RE: Work at the river water intake structure - Plan of the Day (POD)

We will support.

Ken Dyar

Security Manager Vogtle Electric Generating Plant 706.826.3637 office 334.520.1471 mobile LINC radio 1*215*1471

From:Dodd, Anthony RaySent:Thursday, April 03, 2008 9:09 AMTo:Dyar, Ken C.; Kitchens, Cohen J.; McQuillen, ThomasCc:Blanton, Stan (Balch); Manigo, D'Andre; Walden, Kevin C.; Montz, Matthew ThomasSubject:Work at the river water intake structure - Plan of the Day (POD)

Tony Dodd and Tom Broadwell with GPC Environmental Field Services will be performing impingement and entrainment sampling at the Vogtle river water intake structure Tuesday, April 8 through Thursday, April 10. They will be working in the area through night and day hours for approximately 48 hours and are requesting Gate 12 remain open during that time. They have key to access the intake structure and boat ramp gates. They will be contacting the Unit 2 Operator periodically to ask for assistance to have the traveling screens at the intake structure rotated on three instances during the study.

Once onsite, Tony will contact Vogtle Security at the start and end of sampling. Kevin Walden and D'Andre Manigo are the onsite contacts. Please include mention of this activity in the POD for 8 - 10 April. Thanks for your help and please let me know if you have any questions.

Tony Dodd, CFP Environmental Specialist Georgia Power Environmental Lab 5131 Maner Rd. Smyrna Ga 30080 Ph: 404-799-2142 Fax: 404-799-2141 Cell: 770-550-2502 Email: ardodd@southernco.com

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2

<u>----</u>

From: Sent: To: Cc: Subject: Dodd, Anthony Ray Thursday, April 03, 2008 8:00 AM Walden, Kevin C.; Montz, Matthew Thomas Blanton, Stan (Balch); 'Coutant, Chuck/Nancy' Entrainment sampling intake canal waters at Plant Vogtle

Kevin,

The revised plan to sample water from the intake canal during the week of April 7 involves the GPC Field Crew staging two portable submersible pumps on the top of the bank of the canal and at a location where we can reach the water with the shortest distance possible. The electric pumps (Tsurumi or Multiquip Brand) will be powered by a gasoline powered generator. Each pump draws 110 volts and 6.9 amps and pumps via a standard 40' long 2-inch diameter discharge at 73 gpm (gallons per minute) with a maximum head of 60 feet. Each pump weighs approximately 35 lbs and will be manually deployed with 7/8 inch diameter nylon rope over the side of the canal bulkhead into the water. Each pump suspension rope will be secured by tying the rope onto the base of a handrail stanchion. Flow from each pump discharge hose will be dispensed into and through a 500 micron NITEX mesh plankton net (with a 0.5 meter opening and 3.75 inch cod end with 500 micron mesh strainer bucket) suspended into a plastic 55 gallon drum. Openings in the bottom of each drum will provide a means for pumped water to be sieved through the nets and returned to the canal at the top of the bulkhead. The drums will be placed on a poly tarp to prevent run-off erosion. The pump system and associated equipment will be removed following each sampling event. We plan to set up on Tuesday for the first pumping pilot test. The pumping/entrainment sampling will take place over a 24-hr period during the sampling trip sometime during Tuesday through Thursday. Samples will be pulled from the nets every 6 hours. Captured aquatic organisms will be preserved in 5% formalin and labeled in 1- or 2- liter size plastic jars. The crew will take the samples to the GPC lab in Smyrna, GA following site demobilization. Please contact me if you have any questions.

Tony Dodd, CFP Environmental Specialist Georgia Power Environmental Lab 5131 Maner Rd. Smyrna Ga 30080 Ph: 404-799-2142 Fax: 404-799-2141 Cell: 770-550-2502 Email: ardodd@southernco.com

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From:Dodd, Anthony RaySent:Thursday, April 03, 2008 1:24 PMTo:Middlebrooks, Kenneth D.; VNP Dispatchers; Williams, A. L. (Tony)Cc:Stuhaan, Chuck E.; Walden, Kevin C.; Montz, Matthew ThomasSubject:RE: POD ADDITION: Work at the river water intake structure

Attachments:

Impingement Schedule_Vogtle.xls

Gentlemen,

Thanks very much for your reply and support on this project. Our only added request is that the operators try to rotate the screens as close to 0800 HRS EST on WED a.m., 2000 HRS Wed p.m., and again at 0800 Thursday a.m. during each designated sampling week. Their efforts with the timing will help standardize sampling effort and ultimately aid in data interpretation at the end of the project.

Also, as a comment, the field sampling schedule will fall back one week in July. Please see the attached schedule of impingement sampling dates, whereas the sampling date shown on the spreadsheet is intended to indicate the Wed start-up each time. If GPC's field crew encounters unforeseen scheduling difficulties along the way, we will contact you ahead of time as far in advance as possible to discuss and adjust, if possible. Please contact me if you have any questions and we appreciate your support especially during the maintenance outage.



Impingement Schedule_Vogtle.xl..

Tony Dodd, CFP Environmental Specialist Georgia Power Environmental Lab 5131 Maner Rd. Smyrna Ga 30080 Ph: 404-799-2142 Fax: 404-799-2141 Cell: 770-550-2502 Email: ardodd@southernco.com

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From: Middlebrooks, Kenneth D.
Sent: Thursday, April 03, 2008 1:00 PM
To: Dodd, Anthony Ray; Broadwell, Tom L.; VNP Dispatchers; Williams, A. L. (Tony)
Cc: Stuhaan, Chuck E.; Walden, Kevin C.
Subject: FW: POD ADDITION: Work at the river water intake structure

Activities are in the schedule for the next 6 months for operations to run the screens for 15 minutes every other week on Wednesday morning, Wednesday night and Thursday morning. Security has now been checked on all the activities. Are there any other support needs for this project?

From:Stuhaan, Chuck E.Sent:Thursday, April 03, 2008 12:19 PMTo:Williams, A. L. (Tony); VNP Dispatchers

1

Tony,

Cc:

The activity is 2OPS-OAO02 and is currently on the schedule. Let me know if any additional comments need to be added to the activity.

Chuck

From:	Williams, A. L. (Tony)
Sent:	Thursday, April 03, 2008 12:10 PM
To:	Folker, Robert E.
Cc:	Stuhaan, Chuck E.; Middlebrooks, Kenneth D.; Dyar, Ken C
Subject:	POD ADDITION: Work at the river water intake structure

Tony Dodd and Tom Broadwell with GPC Environmental Field Services will be performing impingement and entrainment sampling at the Vogtle river water intake structure Tuesday, April 8 through Thursday, April 10. They will be working in the area through night and day hours for approximately 48 hours and are requesting Gate 12 remain open during that time.

They will be contacting the Unit 2 Operator periodically to ask for assistance to have the traveling screens at the intake structure rotated on three instances during the study. Kevin Walden and D'Andre Manigo are the onsite contacts. Please include this activity in the POD for 8 - 10 April. Thanks for your help and please let me know if you have any questions.

2

TONY WILLIAMS SECURITY COORDINATOR 4445/ 768

All sample types assume ultimate 24-hr composite samples for lab processing **Table**

ble ____. Plant Vogtle Impingment-Entrainment Assessement Study Sampling Schedule 2008

		Impingement		4		
Sample Dates	Day S	ample	End night Sample		-	
	Start Time	Mid Time	End Time	3.5 day trips	2 day trips	Completed
	Wed a.m.	Wed p.m.	Thur a.m.			
18-Feb-08	8:00	20:00	8:00	x		x
3-Mar-08	8:00	20:00	8:00	x		x
17-Mar-08	8:00	20:00	8:00	<u>x</u>		x
8-Apr-08	8:00	20:00	8:00	x		
22-Apr-08	8:00	20:00	8:00	x		
6-May-08	8:00	20:00	8:00	x		
20-May-08	8:00	20:00	8:00	X		
10-Jun-08	8:00	20:00	8:00	x		
24-Jun-08	8:00	20:00	8:00	x		
15-Jul-08	8:00	20:00	8:00	x		
29-Jul-08	8:00	20:00	8:00	x		
12-Aug-08	8:00	20:00	8:00	x		
26-Aug-08	8:00	20:00	8:00	x		
10-Sep-08	8:00	20:00	8:00		x	
24-Sep-08	8:00	20:00	8:00		X	
8-Oct-08	8:00	20:00	8:00		x	
22-Oct-08	8:00	20:00	8:00		X	
5-Nov-08	8:00	20:00	8:00		x	
19-Nov-08	8:00	20:00	8:00		X	
3-Dec-08	8:00	20:00	8:00		x	
17-Dec-08	8:00	20:00	8:00	1. 1. H. M. S.	X	
14-Jan-08	8:00	20:00	8:00		X	
28-Jan-08	8:00	20:00	8:00		X	
11-Feb-08	8:00	20:00	8:00		x	

12-month schedule

GK3396/GA060020/Impingement Schedule_Vogtle.xls

From: Sent: To: Subject: Dodd, Anthony Ray Thursday, April 03, 2008 2:07 PM Montz, Matthew Thomas Field data sheets collected to date

Attachments:

1st March Event.pdf; 2nd March Event.pdf

Draft Documents

Matt,

Per your request. Please find available electronically scanned field data sheets attached.





1st March 2nd March Event.pdf (271 KB) Event.pdf (434 KB)

Tony Dodd, CFP Environmental Specialist Georgia Power Environmental Lab 5131 Maner Rd. Smyrna Ga 30080 Ph: 404-799-2142 Fax: 404-799-2141 Cell: 770-550-2502 Email: ardodd@southernco.com

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1

ample No. 1 2 3 4 5 6 7	Integrated Sample ID and Collection Date Example I.D. SL3A-031008 SULCA - 631108 SULD 2A - 631108 SULD 2A - 631108 SULD 2A - 631108	Time of Collection ~0000 HRs 1/35	Preservative 5% formalin or 10% formalin	Shipped to taxonomy lab	Archived at GPC Smyrna
1 2 3 4 5 6 7	Example I.D. SL3A-031008 Swith A - 63/108 Swith A - 63/108 Swith Comp - D 03/108	~0000 HRs	5% formalin or 10% formalin		
1 2 3 4 5 6 7	SULDIA- 631108 SULDZA- 631108 SULCOMP-DG31108	1/35	Wet Ice		
2 3 4 5 6 7	562D2A- 031100 Sw2 comp - 7031100	1 GUT	51/2		~
3 4 5 6 7	SWL comp - D031108	(041	1	<u></u>	-
4 5 6 7	a man azin	1847			
5 6 7	SWM DHF - 0 21100	1213			-
6	5wm DZA-031108	1917			~
7	SumcomP-D-03/108	1917			
· · · · · ·	SLURDIA- 031108	1238			-
8	SWR DZA-031108	1948			~
9	Shar comp - D-031108	1948			
10	GWLN1A-03/108	2057	1	_•_•••••••••••••••••••••••••••••••••••	~
11	SWLN 2A - 031208	0238			~
12	5WLCOMP-N-031208	0238			
13	514MN 1A - B3110Q	2128			~
14	SWM N2A-031208	0307		· ·	~
15	SwmcomP-N031208	0307			· · · · · · · · · · · · · · · · · · ·
16	SWRNIA-031608	2145			4
17	SWR N 24- 031208	.0334			
18	SWR COMP -N-031208	0334			
19					t
20			· · · · · · · · · · · · · · · · · · ·	<u> </u>	
21					······································
22	······································	· · · · · · · · · · · · · · · · · · ·	1		
23					
24					
25			<u>}</u>		
	- 'Sample Type				
	LMR = location leftbank mid-change	el or right hank fe	icing unstream or t	o intake structu	re .
A-031008	Digits 1.2.3.4 represent sample perior	d davî ve dav2 ve	night 1 vs night 2		
A	-Nets 1 and 2 composited (A) or Net 2	individual sample	a to he archived (A	а.	
	-Two digit month day year	anamada sampi		·/	
•	uga monar day your				
	0	- 1	1		
linguished by:	1 1 July	Date: 3/13/	US Time. 0	1845	

Vogtle I & E Study - Source Water Community / Entrainment Sampling					
Collected by: TA TUS					
Date: <u>7/A/00</u>	4 day 2 2 day herd on A	holes 1			
Circle One : Source Water Sampling "E	ntrainment Sampling	mans			
			Time a		
DAY		Depth (m)	Depth (mins)		
Location: Circle one Left Bank) Mid-Cha	annel Right Bank (facing upstream)				
Time start (HRS)	1/39	1	3		
Current meter start count	19425	2	3		
Current meter stop count	31672	3	3		
Time stop (HRS)	455	3.5	3		
Total time for retrieval (mins)	16	-	[
Calculated sample flow volume (m ³ /s)					
Location: Circle one Left Bank Mid-Cha	annel Right Bank facing upstream		x		
Time start (HRS)	1213	1	3		
Current meter start count	31657	2	3		
Current meter stop count	44315	3	3		
Time stop (HRS)	1225 -T»/ 3/11/08	4	3		
Total time for retrieval (mins)	13				
Calculated sample flow volume (m ³ /s)		4.5	may		
ocation: Circle one Left Bank Mid-Cha	nnel Right Bank facing upstream				
Γime start (HRS)	1238	$\left[1 \right]$	3		
Current meter start count	44313	2	3		
Current meter stop count	62276	3	3		
Time stop (HRS)	1289	4	3		
fotal time for retrieval (mins)	13				
Calculated sample flow volume (m ³ /s)					
Comments/Observations:					

·

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Vogtle I & E Study Entra	 Source Water Comm inment Sampling 	iunity /
Collected by: <u>TD</u> /TLB Date: <u>3/11/08</u> River/Water Conditions: <u>wer</u> ff	helew previous Night's stage	I tanked
DAY 2		Time at Depth Depth (m) (mins)
Location: Circle one Left Bank Mid-Cha Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins)	nnel Right Bank (facing upstream) 62268 85573 1909 17	$ \begin{array}{c cccccccccccccccccccccccccccccccccc$
Calculated sample flow volume (m ³ /s) Location: Circle one Left Bank Mid-Cha	Annel Right Bank facing upstream	difficulty wf
Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m ³ /s)	85857 103980 1932 15	2 3 3 3 4 3 + represent
Location: Circle one Left Bank Mid-Cha Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m ³ /s)	nnel Right Bank facing upstream Eddy elfed / Slugge 104002 110454 2012 24	1 6 2 6 3 6 4 6
Comments/Observations: H20 Temp = 13°C 5 How Temp = 17°C 5 Lisht precipitation / Out	MIG Thermometer	

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Vogtle I & E Study Entra	y - Source Water Comm inment Sampling	iunity /
Collected by: TP, TCB		<u></u>
Date: 3/10/08	150 stren in A current	1 to los
River/Water Conditions:	Nogh Svere Sust	1 onord
circle One : Source Water Sampling E	ntrainment Sampning	Time
Night 1		Depth Dep (m) (min
Location: Circle one Left Bank Mid-Cha	annel (Right Bank) (facing upstream)	
Fime start (HPS)	21000	⊢ ,== + <u></u> ==
Current meter start count	ALTS CICROBO	1 2
Current meter stop count	019,815	3 7
Time stop (HRS)	2/57	4 3
Fotal time for retrieval (mins)	15	5 3
Calculated sample flow volume (m ³ /s)	104.4 m3	
,	L <u>a - Marcelly, Tanàna - Ang ang ang an</u> g ang ang ang ang ang ang ang ang ang an	
ocation: Circle one Left Bank Mid-Cha	annel Right Bank facing upstream	
lime start (HRS)	·	r
Current meter start count		
Current meter stop count	· ·	
lime stop (HRS)		
fotal time for retrieval (mins)		
Calculated sample flow volume (m³/s)		
ocation: Circle one Left Bank Mid-Cha	Innel Right Bank facing upstream	-
ime start (HRS)		
ourrent meter start count	······	
ime ston (HPS)		
ine stop (nns) otal time for retrieval (mine)		
Solution of refleval ($\frac{1}{1}$)		}
anounted sample now volume (nr/s)		L
comments/Observations:	<u> </u>	
First sample attempt	, first trip	

Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: Date: reduced stage if love tonset **River/Water Conditions:** Circle One Source Water Sampling Entrainment Sampling Time at Depth Depth (mins) (m) Location: Circle one Left Bank Mid-Channel Right Bank (facing upstream) 0238 2 Time start (HRS) Current meter start count 150885 2.5 3 ź 172082 Current meter stop count 2 0253 Time stop (HRS) Total time for retrieval (mins) 15 Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Chaphel **Right Bank facing upstream** Time start (HRS) 0307 72064 Current meter start count Current meter stop count 188292 Time stop (HRS) 0318 Total time for retrieval (mins) 12 Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) 033X 188252 Current meter start count Current meter stop count 210943 0344 Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m³/s) Comments/Observations: Ap Tong Jorn to 10°C Water Temp @ 12°C Weather, cleaning & cooker, deling river Stage.

·			_ 1 _ 2
Sample Informat	tion		Page: of
Collector(s):	D MB		
			Remarks:
12-hour Period (circle)	DAY	CNIGHT
Start Date	3/11/08	Time	29.30
	4/1400	Lime Flansed Time	0474
		Plant and CWIS Operating C	Conditions
	% Load	Pump Flow (gpm)	No. of VTS Operating
Start		-7	2 fy interes
านแอม		2 punpi	
al	wandors	•	
af-	7		
Ri Stort by	ver Stage (ft.)	~ 10,000 cts	
Finish	<i>R</i> .3	~ L. 400 CB	
<u> </u>			
Water Temperati	Jre (°C)		
Start	12		
Finish	13		
Clear we	when to	F. light winds	4/10 0-7 Kt
Clear we	whe, 40	F. light winds	v prw o-7 Kt
Clear we	where 40	F. light winds	v prw o-7 Kt
Clear we	ahe, 40°	F. light winds	v prw o-7 Kt
Clear we	ache, 40°	F. light winds	v fru o-7 Kt
Clea we	adhe , 40°	F. light winds	v prw o-7 Kt
Clear are	ade, 40°	F. light winds	v fru o-7 Kt
Clea we	adhe , 40°	F. light winds	v prw o-7 Kt
Clea we	ache, 40°	F. light winds	v fru o-7 Kt
Clea we	adhe , 40°	F. light winds	v fru o-7 Kt
Clea we	adhe , 40	F. light winds	v fru o-7 Kt
Clea we	adhe , 40°	F. light winds	v fru o-7 Kt
Clea we	adhe , 40°	F. light winds	v fru o-7 Kt
Clea we	adhe , 40°	F. light winds	v fru o-7 Kt
Clea we	adhe , 40°	F. light winds	v fru o-7 Kt
Clea we	adhe , 40°	F. light winds	v fru or 7 Kt
Clea we	adhe , 40	F. light winds	v fru o-7 Kt
Clea we	adhe , 40	F. ligted winds	v fru or 7 Kt
Clea we	adhe , 40	F. light hinds	v fru or 7 Kt

	PLANT	OGTLE IMPIN	GEMENT MONITORI	NG DATA FO	RM	
Sample Information	-N /7/	B			Barray 2	2
Conector(a):)	Page:0	n <u>,</u>
12-bour Pariod (aire	, (a)		DAY NIGHT			
12-nour Period (cird						
Start Date	5/11/00	• ,			·	
End Date	3/12/08					
		Elaj	psed Time			
Species		Weight (g)	Condition/Co	mment	Voucner?	Final ID
haschoky	19	0	1100 (9000	cond		1-T.D
J-shak	114	11	good body cond	1/ recently	montand	4D
blackbarched das	62	2	/ K	1 "	1	-70
relland surlish	44	0.5	1	i,	6	VJD
redbusst surfich	43	0.1	iq	ч		UTD .
redbrout suntil	59	0.5	h.	ĥ		(JD
blue aill	50	20.5	•ر	4	V	LTD
bluessell	51	60.5	1e - 1	√ ~	レ	UT)
						•
				<u></u>	·	
	41.1 · ·					
Kul				· · · · · · · · · · · · · · · · · · ·		
- In-						
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PLANT VOGTLE IMPINGEMENT MONITORING DATA FORM									
Sample Information	731	TLB	-	Page 3 a	3				
Conector(s):	121	/==		ray0 0	• ·				
12-hour Period (circ	le)								
Start Date	3/11/98		Time ~/000						
End Date	3/1/08		Time 21/30						
Elapsed Time									
Species	TL (mm)	Welght (g)	Condition/Comment	Voucher?	Final ID				
thread the shall	127	18	recently mortbund		TD				
bullherd	. 46	20.5	· live / good and						
redburgt suntil	36	20.5	recently monihond	~	70				
cypinid	38	20.5	recently newbund						
//									
		<u>al</u>	· ·						
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Entra	inment Sampling		
Collected by: <u>TD</u> <u>/TUB</u> Date: <u>3//0/08 - 3///08</u> River/Water Conditions: 1#55	10K+ cfs		
Circle One : Source Water Sampling	ntrainment Sampling		
ocation: Circle one Left Bank Mid-Ch	annel Bight Bank (facing unstream)	Depth (m)	Time at Depth (mins)
Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins)			
Calculated sample flow volume (m ³ /s)			·····
Location: Circle one Left Bank Mid-Ch Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins)	Innel Right Bank facing upstream		
Calculated sample flow volume (m ³ /s)		Ľ	
Location: Circle one Left Bank Mid-Ch Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m ³ /s)	Innel Right Bank facing upstream		· ·
Comments/Observations: + Ichthyoplankten met Even of adjustment e is not sufficient enough for this gear type.	sampting in canal con- loser to the trash rack, U to precide sampling an TiD,	elouty elouty	îl.

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Sample Infor				1 .
-	mation			Page: of
Collector(s):	D. BR			
			-	Remarks: NO TO
12-hour Perio	od (circle)		CDAY	CNICHT
Start Date	3-25 -08	Time	0830	2000
End Date	3-26-08	Time	€	
		Elapsed Time	а	
	No Pumpe	Plant and CWIS U	perating Con	No. of VTS Operating
Start	110.1 0.110	i amp i ion (gpin)		
Finish				2
				· ·
			Physicoche	mical parameters:
	River Stage (ft.)		D.O.	8.8 mg/L)collect
Start		-5,560	рН	710 SU 4 on 3/
Finish	· ·	Company	Cond.	103,4 us/cm ~24
	· · · · · · · · · · · · · · · · · · ·		Turbidity	CIB NTU
Water Tempe	erature (°C)	Kalling V	7.14	
Start	15.5	Stad	Location of	Measurement:
Finish	15/] 77	in-sty	Left bank, surface
l k				
+ Calle Sue & Imp	I Unit I ins notestal inservice Peri	2 operator 2 0825 1325 and la Day	~ 0813 , dime 50	HRS antal 20830 m of 3/25/02
+ Calle Sue * Imp * Wate	a Unit f ins notated inservice Perior temps hell	copenator 2 0825 1325 and ba Day to ~ 14.50	~ 0813 , drme 50 (2 p	HRS hastal ~ 0830 m of 3/25/02
* Calle Sue * Imp * Wate	I Unit I ins notestal inservice Peri tongs fell	? Operator ~ 0825 1325 and la Dan to ~ 14.50	~ 0813 dome 50	HRS hatal 20830 m of 3/25/08
+ Calle Sue & Imp & Wate	Q Unit 2 ms notestal inservice Per temps hall	? Operator 2 0825 1725 and la Day to ~ 14.50	~ 0813 dome 50 (2 p	HRS antal 20830 m of 3/25/02
+ Calle Sue * Imp * Wate	a Unit f ins actested inservice Person tongs hall	? Operator ~ 0825 13925 and la Day to ~ 14.50	~ 0813 dome 50 (2 p	HRS hartal 20830 m of 3/25/02
+ Calle Sue * Imp * Wate	Q Unit 2 ins notestal inservice Perior tongo hell	? Operator ~ 0825 1395 and be Dec to ~ 14.50	~ 0813 , drme Str (2 p	HRS hastal 20830 m of 3/25/02
+ Calle Sue * Imp * Wate	Q Unit 2 ins notived inservice Per teaps hell	2 openator 2 0828 1325 and la Day to ~ 14.50	~ 0813 dome 50 C 12 p	HRS hatal 20830 m of 3/25/02
* Calle Sue * Imp * Wate	Q Unit 2 ins notated inservice Period temps fall	? Operator ~ 0825 1325 and la Dan to ~ 14.50	~ 0813 Ame St (2 p	HRS hatal 20830 m of 3/25/02
* Calle Sue * Imp * Wate	Q Unit 2 ins notestal inservice Peri tongs fell	? Operator ~ 0825 1325 and la Day to ~ 14.50	~ 0813 Ame SA	HRS hatal 20830 m of 3/25/08
+ Calle Sue & Imp & Wate	Q Unit 2 ins notestal inserviced Peri temps hall	? Operator ~ 0825 1725 and la Day to ~ 14.50	~ 0813	HRS hatal 20830 in A 3/25/02
+ Calle Sue * Imp * Wake	Q Unit L ins notived inservice Per temps hell	? Operator ~ 0825 13925 and la Day to ~ 14.50	~ 0813 , drme St C 2 p	HRS hastal 20830 m of 3/25/02
* Calle Sue * Imp * Wate	Q Unit 1 ins notestal inservice Per	? Operator ~ 0825 1725 od la Day to ~ 14.50	~ 0 813	HRS hatal 20830 m of 3/25/02
* Calle Sue * Imp * Wate	Q Unit for and the second of t	? Operator ~ 0825 1725 and la Day to ~ 14.50	~ 0 813	HRS hatal 20830 m of 3/25/02
+ Calle Sue > Imp > Wate	Q Unit J ms notestal ingening Peri temps hell	? Operator 2 0825 125 and la Day to ~ 14.50	~ 0 813	HRS hatal 20830 ha of 3/25/08

PLANT VOGTLE IMPINGEMENT MONITORING DATA FORM								
Sample Information Collector(s):	TD/	BB		Page:o	f			
12-hour Period (circ			Night					
Start Date	2100100	2	Time					
End Date	2121/0		Time As at					
	3/2.5/42	·		,				
	71 (Ela						
Species		weight (g)	Condition/Comment	Voucner?	Final ID			
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1/1	MATA	15+	↓ · · · · · · · · · · · · · · · · · · ·					
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Sample Infor	mation				Page:	of
Collector(s):	TD/BB					
12-hour Perio	d (circie)			Remarks:		
Start Date	2/26/08	Т ти		NIGH		
End Date	3/22/08		ne	2000		
		_ Elapsed Tin	ne			
	· · · ·	Plant and CWIS	Operating Cond	itions	an a suite an	hilaniana matatalaja siyasi
	No. Pumps	Pump Flow (gpm)	No. of VTS C	perating	
Start		<u>ب</u>		<u> </u>		
Finish		[
				÷		
· ·	Pivor Stage (#)	1	Physicocher	nical parame	ters:	
Start	niver stage (it.)	Pallin	0.0.		mg/L	
Finish		8	рн		SU	
		1 -	Cond.		uS/cm	
Water Tompo-	aturo (°C)	Ŧ	Turbidity		NTU	
Start I			1	•		
Finish	15.		Location of N	reasurement		
		I				·
River	stage ba	lbing.				
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River	stage ba	lting.	·			
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River	stage ba	lting.		· · · · · · · · · · · · · · · · · · ·		
River	stage ba	lting.				
River	stage ba	lling.				
River	stage ba	lting.				

	PLANT V	OGTLE IMPIN	GEMENT MONITORING DATA	FORM					
Sample Information	m/p	0		Page: 1 0	e l				
Collector(s):	- 19/2	2	DAY	rage	·				
12-hour Period (circ	le)	-			· ·				
Start Date	2/26/0	8	Time 2000						
End Date	3/27/	18	Time 0900						
Elapsed Time									
Species	TL (mm)	Weight (g)	Condition/Comment	Voucher?	Final ID				
	$h \times$				· · · · · · · · · · · · · · · · · · ·				
	X	NIA	1		13				
		100	P.D.H	·					
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Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: Date: bolow River/Water Conditions: he Circle One : Seurce Water/Sampling Entrainment Sampling Time at Day 1 Depth Depth (mins) (m) Location: Circle one Left Bank Mid-Channel Right Bank (facing upstream) 1 3 Time start (HRS) 1536 2 2.3 3 3 Current meter start count 097103 Current meter stop count 4434 Ý 5 Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m³/s) Location: Circle one Left Bank, Mid-Channel Right Bank facing upstream Time start (HRS) 1604 3 Current meter start count 18757 Z 3 29796 Current meter stop count 2 Э 2 Time stop (HRS) 4 Total time for retrieval (mins) Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) 1629 ζ 29810 Current meter start count 3 Current meter stop count 460 Time stop (HRS) 6 Total time for retrieval (mins) Calculated sample flow volume (m³/s) Comments/Observations: Weather - Surry want to ~ 70 + °F, brinds southerly 5-10 KK. Water - Vishtly turbed @ scorlage

Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: 3/26/08 Date: calm &n face / proderate / swift anost **River/Water Conditions:** Circle One : Source Water Sampling Entrainment Sampling Time at Day 2 Depth Depth (mins) (m) Location: Circle one Left Bank/ Mid-Channel Right Bank (facing upstream) Time start (HRS) 45463 Current meter start count 3 Current meter stop count 63999 3 2 Time stop (HRS) 1928 Total time for retrieval (mins) 1928 Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel **Right Bank** facing upstream 1939 Time start (HRS) Current meter start count 64062 Ż 3 Current meter stop count 78353 952 Time stop (HRS) Total time for retrieval (mins) 952 Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) 2008 48 8349 2 Current meter start count 3 3 3 Current meter stop count 94502 3 Time stop (HRS) 2017 Total time for retrieval (mins) 2017 Calculated sample flow volume (m³/s) Comments/Observations: SObservations: - Clear skies, Cooling - River stage chapped " 1/2 - 3/4 bud since midulary = Transect for 1ch they plank ton sampling near Ron 72 ~ 20' upscheam idup anches at next up stream
Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: TD, BB Date: 3-27-08 Tightly turked an sufface / support River/Water Conditions: Circle One: Source Water Sampling Entralnment Sampling Time at Night #1 Depth Depth (mins) (m) Location: Circle one Left Bank Mid-Channel Right Bank (facing upstream) 3 Time start (HRS) 2035 000200 3 Current meter start count 3 Current meter stop count 0/6510 2 Time stop (HRS) 20,49 Total time for retrieval (mins) 3, E n Calculated sample flow volume (m³/s) mar T.D. Rightarik facing upstream Mid-Channel Location: Circle one Left Bank Time start (HRS) 7 2122 Current meter start count 2) 016200 027497 Current meter stop count 2 Time stop (HRS) 21 Total time for retrieval (mins) Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel Right Bapk facing upstream Time start (HRS) 2154 Current meter start count 02832 2 040013 Current meter stop count 2 Time stop (HRS) 2207 Total time for retrieval (mins) I. ψ_{i} majo Calculated sample flow volume (m³/s) - mid-channel wp = N 33°09'04.2 Right bank wp=#60 - Heavy detritus load w &1 "45" 17.5 w 33°09'05.0" w 081°45'17.7" w 081°45'17.7" Ú,

Date: 3196/08	a a contractor	
River/Water Conditions: LA, Andro (Shard Current	
Circle One : Source water Sampling En	trainment Sampling	
1. 110		Time
Vishow		m) (min
Landiary Oinsta and Life Dank Mid Oha		~) (m) (am
Location: Circle one Leit Bank Mid-Chai	nnei Right Bank (facing upstream	
Time start (HRS)	D2 29	
Current meter start count	A41200	35 3
Current meter stop count	057596	
Time stop (HRS)	DRAX	1
Total time for retrieval (mins)		1
Calculated sample flow volume (m ³ /s)		1
Location: Circle one Left Bank Mid-Char	nnel Right Bank facing upstream	I
	· · · · · · · · · · · · · · · · · · ·	
lime start (HRS)	0'306	
Current meter start count	059100	
Jurrent meter stop count	6716	
Fotal time for retrieval (mins)		
Calculated sample flow volume (m ³ /s)		┥┝━━━┯
		J <u>L</u>
ocation: Circle one Left Bank Mid-Char	anel Right Bank) facing upstream	
ocation: Circle one Left Bank Mid-Char	anel Right Bank) facing upstream	
ocation: Circle one Left Bank Mid-Char Time start (HRS) Current meter start count	Inel Right Bank) facing upstream	
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ocation: Circle one Left Bank Mid-Char Time start (HRS) Current meter start count Current meter stop count Time stop (HRS)	anel Right Bank facing upstream 0.403 0.76070 0.96911 0.460	$\begin{array}{c c} 1 & 3 \\ 2 & 3 \\ 3 & 2 \\ 3 & 2 \\ \varphi & 3 \end{array}$
ocation: Circle one Left Bank Mid-Char Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins)	anel Right Bank facing upstream	1 3 2 3 3 2 3 9 2 3
ocation: Circle one Left Bank Mid-Char Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m ³ /s)	nel Right Bank) facing upstream	2 3 2 3 3 2 3 9 7 3
ocation: Circle one Left Bank Mid-Char Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m ³ /s)	anel Right Bank facing upstream	1 2 3 2 3 3 9 7 3
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Location: Circle one Left Bank Mid-Char Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m ³ /s) Comments/Observations: Check Skies	inel Right Bank) facing upstream 0.493 0.76070 0.96911 0.465 0.465 0.493 0.76070 0.96911 0.465 0.465 0.493 0.493 0.76070 0.96911 0.465 0.55	L, 3/4 max
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Location: Circle one Left Bank Mid-Char Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m ³ /s) Comments/Observations: Check Skies, My Heavy defutius - a	Inel Right Bank facing upstream	Ly 3/4 march
Location: Circle one Left Bank Mid-Char Fime start (HRS) Current meter start count Current meter stop count Filme stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m ³ /s) Comments/Observations: Check Stars, M Heavy deturbus - a	Anel Right Bank facing upstream 076070 0750 075	- k, 3/4 max

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Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: TD / 13K Date: 3/26/08 River/Water Conditions: moder who channel Char Hy holab 5 \$W 45840 Turb 0 NTY Surface Circle One: Source Water Sampling Entrainment Sampling & Temp 15.6 D.O. 9.6 pH 68 Cand 87.676 Time at + Pilot Test works good - assume \$25 3ph Depth Depth CANAL ENTRANCE (m) (mins) Location: Circle one Left Bank. Mid-Channel Right Bank (facing upstream) rasa den DAY SURFACE. Time start (HRS) 1349 Current meter start count Current meter stop count 1514 Time stop (HRS) Total time for retrieval (mins) 90 Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel, Right Bank, facing upstream Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m³/s) Comments/Observations: 425 Span pump / Handle 8. Hp GX240 3600 RPM Wackse PF3 pump. 3600 RPM Walkspe PF3 pump. ~ 87 minutes = 150 m 3 / split into 2 500 m / Niter mesh & located at most downstrong and for canal month

	11 R. MER L.		
River/Water Conditions: //shite from	Nil- Gen Sino Cos		
Circle One : Source water Sampling	Trainment Sampling		
DAM2	Ques p	Depth (m)	Time at Depth (mins)
ocation: Circle one Left Bank Mid-Cha	nnel Right Bank (facing upstream)		
	4.4.00	0.5	54.1.
nime start (nn5)	1728		
Sument meter start count			<u> </u>
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Time Stop (FIRS) Setal time for retrievel (mine)	1878		
faiculated sample flow volume (m ⁷ /s)			L
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ocation: Circle one Left Bank Mid-Chai	nnel Right Bank facing upstream		· · · .
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ocation: Circle one Left Bank Mld-Char	nnel Right Bank facing upstream		
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omments/Observations:			
Xer e H X I I I	AGT.		
It southern most / down & focken a	corner of Canal not		
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Verill 11 10 and a	~ 16xx Her R. B. Jacon	tober	
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Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: TD /BA 3/26/04 Date: **River/Water Conditions:** mercherco antertort Calling Star Circle One : Source Water Sampling Entrainment Sampling Time at Depth Depth Humo (m) (mins) Location: Circle one Left Bank Mid-Channel Right Bank (facing upstream) 3.0 Time start (HRS) 2112 Current meter start count Current meter stop count Time stop (HRS) 22020 Total time for retrieval (mlns) Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) Surt 0419 05 Current meter start count Current meter stop count Time stop (HRS) 0539 Total time for retrieval (mins) Calculated sample flow volume (m³/s) RNer Store Roykoling Location: Circle one Left Bank Mid-Channel **Right Bank facing upstream** Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated sample flow volume (m³/s) Comments/Observations: & fallow rivers stage/ ~ 4th or more of Mace sheet pilling heads visible @ 2128 HRS. & dear, coclaight - bulling demps,

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V	Vogtle I & E Study - Sample Chain Of Custody				
Collected by	TD/BB				· · ·
Sample No.	Integrated Sample ID and Collection Date	Time of Collection	Preservative	Shipped to taxonomy lab	Archived at GPC Smyrna
	Example I.D. SL3A-031008	~0000 HRs	5% formalin or 10% formalin Wet Ice		V
1	SWL DIA-032608	1570	500		r.
2	SWLD2A-032608	1900			<i>i</i> -
3	SWL COMP-032608-D	1900			
4	SWM DIA- 032608	1535			
5	5Wm D2A-03268	1930			-
6	Sum Comp- 032608-D	1930			
7	SWR DIA- 032608	1555			
8	SWRDZA-032608	1955			~
9	SWR COMP-032608-D	1955			
10	5WLNIA - 032508	8100			-
11	SWLNZA- 03268	0230			2
12	SWL COMP - 032608 - N	0230		·	
13	5WMNIA_ 032508	2145			
14	SWM N2A- 032608	0300			2
15	SWM COMP-032608-N	0300			
16	5WRNIA- 032508	2.215			
17	SWR N2 A- 032608	0330			

- 'Sample Type

ENLAIA-

ENLCOMP

ENLN 2A

18 19

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22

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SL3A-031008

- 'L.M,R = location leftbank, mid-channel, or right bank facing upstream or to intake structure

0330

1345

1730

1730

1912

~0400

0400

Digits 1,2,3,4 represent sample period day1 vs day2 vs night 1 vs night 2 —'Nets 1 and 2 composited (A) or Net 2 individual sample to be archived (A)

'Two digit month day year

SWRCOMP- 03260B-N

032608

032708

032708 -N

ENLDI A-632608

ENLD2A-032608

ENLCOMP-032608-D

108 Time: 09.36 Date: 3/3/0 Date: 3/31/02 Relinguished by: Received by:

z/26/08

HO-TO

NO-TD-2/26/28

From: Sent: To: Cc: Dodd, Anthony Ray Wednesday, April 16, 2008 1:34 PM Montz, Matthew Thomas; 'Coutant, Chuck/Nancy' Blanton, Stan (Balch)

Attachments:

1st April Event.pdf



(505 KB)

Please find the attached copy of field data sheets from the 8-10 April impingement and entrainment sampling event at Plant Vogtle.

A trip report will follow soon.

Tony Dodd, CFP Environmental Specialist Georgia Power Environmental Lab 5131 Maner Rd. Smyrna Ga 30080 Ph: 404-799-2142 Fax: 404-799-2141 Cell: 770-550-2502

LINC Radio: 1*20*15202 Email: ardodd@southernco.com

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Sample Nø2	Integrated Sample ID and Collection Date	Time of Collection	Preservative	Shipped to taxonomy lab	Archive at GPC Smyrna
			5% formalin or	√	V
	Example I.D.		10% formalin		
4	SWLDTA-031108	~0000 HHs	Wet ice		
	ENC DIA 040900	0920	5%		
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3	ENC DECMONTO TO TO	0700		`	
	FALL NI F BYOYUU (2)	1050	<u>↓                                      </u>		
6	EVE VER CHOUD (1)	0255	<u>├</u> [/	· · · · · · · · · · · · · · · · · · ·	<u> </u>
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11	SUL DEA OFFICE	1700	╉╍╍╍┨╾╸───┤		<u> </u>
12	SUL BESKIP OFICE	100			
13	SUPPLY A DYDGOD	1621	┤╴┤╶───┤		
14	SW M DEFT - 10100	1/21	<u> </u>		}
15	SUL DULA AVIAN	1671	<u> </u>		
16	SUCR DI A OKARAS	1/05	+ + + - +		
17	SLUP CAMP OXICION	1603	<u> </u>		<u> </u>
18	SUN NIA AYAGA	2242			4
19	SULLA 12 A OYGOOD	0256			1/2
20	SUL N COMPOYIOGO	0356	<u>├──</u>		
21	SWM A OLOGOB	2718	<u>↓                                      </u>	,,,,,_,_,_,_,,_,,_,,,,,,	
22	SWM 2 A 05/1008	6281	<u>†−−−</u> † −−− †		C
23	SUM MY COMP 041080	0351	<u> </u>		
24	SWRNIA 040908	2154	<u> </u>		
25	SW'R NOA 041008	0256			-
ote: $VLD1A-0311$ V = entrainment $2 = day #21 = Night #1= Archive= \int dyelinquished b$	$\begin{array}{c} \hline & & & \\ \hline \\ \hline$	sample 3 Marc 2 night sample D= Dey Date:///	h 2008 I for processing	12-148 5 12-148 5	generat amples

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Sample No.	Integrated Sample ID and Collection Date	Time of Collection	Preservative	Shipped to taxonomy lab	Archiv at GPC Smyrn
	Example I.D. SWLD1A-031108	~0000 HRs	5% formalin or 10% formalin Wet Ice	V	
1	SWRN COMP 041008	0256	50/0		
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CARACTER AND CONTRACTOR

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Collector(s):	TOTLA					
				Remarks:		
12-nour Peri	od (circle)	<b>)</b>		CNIGHT.	r	
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End Date	4-10-08	Time	2055	1000	l	
		Elapsed Time	12125	12:05		1
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Collector(s):	<u> </u>			Page: 1 o	t
12-hour Period (circle	e) /		DAT NIGHT		
Start Date	19102	\$	Time		
End Date	Et a lot	3	Time 20253		
L.		Elar	osed Time		
Species	TL (mm)	Welght (g)	Condition/Comment	Voucher?	Final ID
chuir sicked	55	1.2	somale ray (grand)	V	TD
dollar surfish	82	10,5	Same acert	4	7)
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Earn te Epin schedule not not due to personnel/pland process constraints during maintenance currage @ 2 handsfull of leaves, tusse, seeds

Entered by: Date: / /

Event #

	PLANT V	OGTLE IMPIN	GEMENT MO	NITORING DATA FO	RM	
Sample Information	-> /	•		·	2	
Collector(s):	TDIT	В		$\sim$	Page:o	12
	,		DAY	NIGHT		
12-hour Period (circ	ie)					
Start Date	419108	5	Time	655		
End Date	4/10/08	<u> </u>	Time 👔	603		
		Elap	osed Time			
Species	TL (mm)	Weight (g)	Condit	tion/Comment	Voucher?	Final ID
6/40 cril	32	0,7	recently the	noribund		77
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warmanth	43	1.1	<u></u> 4	Ч	5	V
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* specimen jer - preserved @ GAC

8 pm to E Am, schedule not carducted - plant process priorities during antrop

2 hondshill of Letostas -0

Event #

Entered by: Date: / /

Vogtle I & E Study Entrair	- Source Water Commonment Sampling	unity /	,
Collected by:		- ,	
Date:			
River/Water Conditions:	<u></u>		
Circle One : Source Water Sampling ( Entr	ainment Sampling		
DAY 1 DAY 2 NIGHT 1 NIGHT 2		Depth (m)	Time a Depth (mins)
Location: Circle one Left Bank Mid-Chann	el Right Bank (facing upstream)	r	
Time start (HRS)	A920	i	
Current meter start count			
Current meter stop count			
Time stop (HRS)	1500		
Total time for retrieval (mins)	5. THES		
Calculated sample flow volume (m ³ /s)			-
Antive	26,1m3 Samp. 57	2,3 m 3	
Location: Circle one Left Bank Mid-Chann	el Right Bank facing upstream		
Time start (HRS)	·····		
Current meter start count			
Current meter stop count			
Time stop (HRS)			
Total time for retrieval (mins)			
Calculated sample flow volume (m ³ /s)			
Location: Circle one Left Bank Mid-Channe	el Right Bank facing upstream		
Time start (HRS)		<u>к — т</u>	
Current meter start count			
Current meter stop count		<b>`</b>	
Time stop (HRS)			
Total time for retrieval (mins)			
Calculated sample flow volume (m ³ /s)			
Comments/Observations			
- 4 star Sthes Item o 360	the they the at Canal		
= 20:3 47 - 4-104	KI lower than last night.		
~ - Net 1 archive (Net	12 sample composite	•	
Cenerattar - Multiquip 6	000 hatt - 545 powered	, 	711 ~
MGdel CH-6HA V 20	17/1200 Handa 11.0 Hp	Phid. C-X	<u> 74 0</u>

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Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: TLA Date: **River/Water** Conditions: Circle One : Source Water Sampling -Entrainment Sampling Time at Depth Depth DAY 1 (DAY 2) NIGHT 1 NIGHT 2 (mins) (m) Location: Circle one Left Bank Mid-Channel Right Bank (facing upstream) 0 241450 Time start (HRS) 1150 HRS Current meter start count STOPPED (D 1500 FW Current meter stop count wedite to Time stop (HRS) Protented @ 1600 HRS Total time for retrieval (mins) 19:10 Calculated sample flow volume (m³/s) 56.7 m3 28. chine . Sample Location: Circle one Left Bank Mid-Channel **Right Bank facing upstream** Time start (HRS) Current meter start count Current meter stop count Time stop (HRS) Total time for retrieval (mins) Calculated-sample-flow-volume-(m³/s)-Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) Current meter start count Current meter stop count -Time stop (HRS), Total time for retrieval (mins) Calculated sample flow volume (m³/s) Comments/Observations: Day composite sample = 109.0 m³ Night composite sample Net 1 archive. Net 2 comp sample 164,5

Vogtle I & E Study	- Source Water Commu	unity /	
Entrai	nment Sampling		
Collected by: TD, AB			
Date:			
River/Water Conditions:			
Circle One : Source Water Sampling (Ent	trainment Sampling		
			Time at
		Depth	Depth
DAY 1 DAY 2 NIGHT NIGHT 2		(m)	(mins)
Location: Circle one Left Bank Mid-Chan	nel Right Bank (facing upstream)		
Time start (HRS)	2050 413		
Current meter start count			
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Time stop (HRS)	0245 HRS		
Total time for retrieval (mins)	5 4R 5 55 mill (5,92 Hz)		
Calculated sample flow volume (m ³ /s)			
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Location: Circle one Left Bank Mid-Chan	nel Right Bank facing upstream		
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Comments/Observations:			
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Collected by: TD PLB		
Biver/Water Conditions:		
Circle One : Source Water Sampling / Entrainment Sampling		
		Time at
	Depth	Depth
DAY 1 DAY 2 NIGHT 1 (NIGHT 2)	(m)	(mins)
Location: Circle one Left Bank Mid-Channel Right Bank (facing upstre	am)	T
Time start (HRS)		
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Vogtle I & E Study - Source Water Community / **Entrainment Sampling** 1700 Collected by Date: River/Water Conditions: Circle One : Source Water Sampling Entrainment Sampling Time at Depth Depth DAY 2 DAY-1 **NIGHT 1** (mins) **NIGHT 2** (m) Location: Circle one Left Bank Mid-Chapriel Right Bank (facing upstream) Time start (HRS) 041 Current meter start count 2 3821 Current meter stop count 2 Time stop (HRS) 0913 Vel - 1.8 47/2 Total time for retrieval (mins) Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) 0936 Current meter start count 333820 1 Current meter stop count 01882 2 Time stop (HRS) 0949 7.4 Total time for retrieval (mins) Calculated sample flow volume (m³/s) TD 4/10/88 Location: Circle one-Left-Bank Aight Bank facing upstream Mid-Channel Time start (HRS) 0958 401879 Current meter start count Current meter stop count 21586 2 Time stop (HRS) 0 **8**0 (224 Total time for retrieval (mins) Calculated sample flow volume (m³/s) 10 Weather - fog, putty cloudy, ain temp = 13.0°C River = med. Handpidity & current uclouity the Temp = 17°C Comments/Observations:

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Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by TLO 18/68 Date: Funcial in aderate curat **River/Water Conditions:** Circle One Source Water Sampling ⁷ Entrainment Sampling Time at Depth Depth DAY 1 / DAY 2 **NIGHT 1 NIGHT 2** (m) (mins) Location: Circle one Left Bank Mid-Channel Right Bank (facing upstream) Time start (HRS) Ś 1605 Current meter start count 94464 2 2 Current meter stop count 20879 -2 玄 35 Time stop (HRS) 7617 Total time for retrieval (mins) 11.18 et la 1,6 1 Calculated sample flow volume (m³/s) Location: Circle one Left Bank (Mid-Channel **Right Bank** facing upstream Time start (HRS) 631 3 Current meter start count 208798 2 Current meter stop count A 1/2 3 Time stop (HRS) (2.3 Kik Total time for retrieval (mins) Calculated sample flow volume (m³/s) 08 Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) 700 Current meter start count Current meter stop count 95 Ύ́́́́ Time stop (HRS) 112 Total time for retrieval (mins) 2.2 ++ Calculated sample flow volume (m³/s) 100, Comments/Observations: to 3 m/4 per depth - much destinas/ Sampling to Net classi

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Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: 703 Date: nod. current **River/Water Conditions:** tarlad **Entrainment Sampling** Circle One ; Source Water Sampling Time at Depth Depth DAY 1 DAY 2 ( NIGHT 1 NIGHT 2 (m) (mins) Location: Circle one Left Bank Mid-Channel Right Bank (facing upstream) Time start (HRS) 2154 248462 Current meter start count 2 Current meter stop count 264146 Time stop (HRS) 206 Total time for retrieval (mins) 10 207 Calculated sample flow volume (m³/s) 82.8 Location: Circle one Left Bank Mid-Changel Right Bank facing upstream Time start (HRS) 2218 Current meter start count 264145 284313 Current meter stop count Time stop (HRS) 2230 2.3 4710 Total time for retrieval (mins) 13 Calculated sample flow volume (m³/s) 106.4 Location: Circle one Left Bank Mid-Channel Right Bank facing upstream Time start (HRS) 2243 Current meter start count 284282 2 204256 Current meter stop count Time stop (HRS) 2255 2.3 \$11 Total time for retrieval (mins) 13 Calculated sample flow volume (m³/s) 105.3 Comments/Observations: bomments/Observations: Water temp: - 16.9 °C - chear night - temps falling to 60°F , limited the sampling depth it: 3 m ching to heavy detail mass deeper than 3 m,

Vogtle I & E Study - Source Water Community / **Entrainment Sampling** Collected by: ITLB turbe / miderate **River/Water Conditions:** Circle One Source Water Sampling Entrainment Sampling Time at Depth Depth (mins) DAY 1 DAY 2 NIGHT 1 NIGHT 2 (m) Location: Circle one Left Bank Mid-Channel Right Bank (facing upstream) 0346 Time start (HRS) 7 Current meter start count 7584 えん Current meter stop count Time stop (HRS) 035 8 \$1/5 2.5 Total time for retrieval (mins) Calculated sample flow volume (m³/s) Location: Circle one Left Bank (Mid-Channe) **Right Bank facing upstream** Time start (HRS) 032 2 3460 Current meter start count Current meter stop count 245694 3 Time stop (HRS) 41 25 Total time for retrieval (mins) 117.3 Calculated sample flow volume (m³/s) Location: Circle one Left Bank Mid-Channel Right Bank facing upstream 0256 Time start (HRS) 304243 Current meter start count 323 452 Current meter stop count Time stop (HRS) 03.0D 411 2.2 Total time for retrieval (mins) <u>(12-10-7</u> 101.3 Calculated sample flow volume (m³/s) As with all ichthysplanten sampler collected before His date on this strady, an archive sample is collected and preserved every 6 iths. Day + Night sample component Sample's have each been compossibled, verpeatively. Comments/Observations:

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From: Sent: To: ~

Subject:

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Dodd, Anthony Ray Thursday, May 15, 2008 9:06 AM Middlebrooks, Kenneth D.; Montz, Matthew Thomas; Stuhaan, Chuck E.; VNP Dispatchers; Walden, Kevin C.; Williams, A. L. (Tony); Dyar, Ken C. Chambers, William Carlton; Blanton, Stan (Balch) FW: P.O.D. -- Plant Vogtle River and Intake Studies

Tony Dodd of GPC Environmental Field Services will be leading and performing aquatic impingement and entrainment sampling at the Plant Vogtle water intake structure and on the Savannah River next week during 20-22 May. We will be working in the area on a sampling schedule requiring 6-hr sampling intervals through night and day hours for approximately 48 hours and are requesting that Gate 12 and the entrance gate to the intake building remain open during that time. We will contact the on-shift Unit 2 Operator periodically during the event to ask for assistance to have the traveling screens at the intake structure rotated on three instances during the study (0830 HRS and 2030 HRS on WED and 0830 HRS on Thursday). Kevin Walden and D'Andre Manigo are our team onsite contacts. Please include this activity in the POD for 20-22 May.

Thanks for your help in advance and please contact us if you have any questions.

Tony Dodd, CFP Environmental Specialist Georgia Power Environmental Lab 5131 Maner Rd. Smyrna Ga 30080 Ph: 404-799-2142 Fax: 404-799-2141 Cell: 770-550-2502

LINC Radio: 1*20*15202 Email: ardodd@southernco.com

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From:Hannah Proctor [hproctor@normandeau.com]Sent:Thursday, May 22, 2008 3:43 PMTo:Dodd, Anthony RaySubject:FW: Vogtle samplesAttachments:20080522163009.pdf

Hello Tony,

I will be responsible for seeing the Vogtle ichthyoplankton samples through the processing and reporting stage. We received the first shipment of samples on May 20th (signed COC attached) and will start processing them next week. Coolers have been mailed back to you.

I have a couple of questions:

- 1. Are all the samples net samples?
- 2. In addition to the numerical station numbers (1-3, 1-6, 1-9, etc.); are you interested in having the station designation reflect the location of the sample, source water or canal entrainment?
- 3. We will receive the remaining samples in one batch, and when?
- 4. While the first shipment arrived OK; some samples were scrunched and one of the sample jars had broken (sample material recoverable). Would you help by seeing that the next shipment is packaged so that: jar lids are taped with electrical tape to avoid leaking and jars are packed tight inside the coolers to avoid getting crunched. We don't want to lose any samples, thanks!
- 5. I am assume that you anticipate receiving data for the entire collection period at once but don't see any notation as to when this is. Would by or before the end of August be acceptable?

Please let me know if you have any questions.

Thanks, Hannah Hannah Proctor Manager, Biology Laboratory Normandeau Associates, Inc.

From: Paul Geoghegan Sent: Wednesday, May 14, 2008 2:08 PM To: 'Tony Dodd' Cc: Hannah Proctor Subject: Vogtle samples

Tony:

Please ship the samples to the address below and to the attention of Hannah Proctor.

Paul

Paul Geoghegan Principal Scientist Normandeau Associates Inc. 25 Nashua Road Bedford NH 03110

PH: 603 472 5191

6/2/2008

Please consider the environment before printing this e-mail.

Please consider the environment before printing this e-mail.

## 6/2/2008

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## Georgia Pox Environmental Laboratory 5131 Maner Road, Bin 39110 Smyrna, GA 30080

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## Georgia Pow invironmental Laboratory ANALYSIS R/ UEST AND LAB 5131 Maner Roau, Bin 39110 **CHAIN OF CUSTODY RECORD** Smyrna, GA 30080 USE ONLY Phone: (404) 799-2100 Fax: (404) 799-2141

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Control No. CC-_

Sample Delivery Group:

From: Sent: To: Cc: Subject: Montz, Matthew Thomas Monday, May 05, 2008 2:37 PM Dye, Gary B. Candler, W. Jim Nautical Charts

Attachments:

Nautical Chart 635-SC side B.pdf; Nautical Chart 634-SC side A.pdf; Nautical Chart 634-SC side B.pdf; Nautical Chart 635-SC side A.pdf

Gary,

Thanks for sending the Nautical Charts over. I have scanned them and am placing the originals back in the mail for you today. Also, attached for your files are scanned versions of the charts.









Nautical Chart

Nautical Chart

Nautical Chart Nautical Chart 635-SC side B.p... 634-SC side A.p... 634-SC side B.p... 635-SC side A.p...

Matthew T. Montz **Environmental Specialist** Southern Nuclear Operating Company Office 205-992-5629

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