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January 13, 2009

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 Twenty-First Supplemental Disclosures
Docket No. 52-011-ESP**

Dear Mr. Moulding:

Enclosed is a CD containing the non-proprietary documents disclosed in Southern Nuclear's Twenty-First Supplemental Disclosures of December 31, 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 attorney-client/work product protections. To the extent any of the documents produced herein relate to proprietary, 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,

K.C. Hairston

KCH/dkf

Attachments

Document No	Beginning Bates	Ending Bates	Document Name	Document Date	Source	Document Type	Proprietary
SNC811	VESP_D0001668	VESP_D0001669	E-mail from Matthew Montz to Tom Moorer regarding meeting with COE to discuss dredging of river.	12/15/2008	Southern Nuclear	E-mail	
SNC812	VESP_D0001670	VESP_D0001683	E-mail from Norman Boyter to Dale Lloyd, et al. regarding Final November 2008 Monthly Project Status Report and attached report.	12/23/2008	Westinghouse	Report	YES
SNC813	VESP_D0001684	VESP_D0001693	E-mail from Jessica Joyner to Anthony Dodd, et al. regarding VEGP intake pumping records and attached documents.	12/23/2008	Southern Nuclear	E-mail	
SNC814	VESP_D0001694	VESP_D0001697	Trip Report 18.	12/3/2008	Georgia Power Company	Report	
SNC815	VESP_D0001698	VESP_D0001701	Trip Report 19.	12/15/2008	Georgia Power Company	Report	
SNC816	VESP_D0001702	VESP_D0001702	Middlebrooks, et al. regarding P.O.D. river intake study.	12/15/2008	Georgia Power Company	E-mail	
SNC817	VESP_D0001703	VESP_D0001703	E-mail from Anthony Dodd to Chuck Stuhaan, et al. regarding request to add river intake study to the P.O.D.	12/1/2008	Georgia Power Company	E-mail	
SNC818	VESP_D0001704	VESP_D0001708	Anthony R. Dodd Curriculum Vitae.		Georgia Power Company		
SNC819	VESP_D0001709	VESP_D0001710	Matthew T. Montz Curriculum Vitae.		Southern Nuclear		
SNC820	VESP_D0001711	VESP_D0001712	Thomas C. Moorer Curriculum Vitae.		Southern Nuclear		

From: Montz, Matthew Thomas [MTMONTZ@SOUTHERNCO.COM]
Sent: Monday, December 15, 2008 9:07 AM
To: Tom Moorer
Subject: Fw: Southern Company Meeting

Tom,

Got this from Bill Bailey.

Sent via Blackberry -
Matthew T. Montz
(205) 413-1615

----- Original Message -----
From: Bailey, William G SAM@SAS <William.G.Bailey@usace.army.mil>
To: Montz, Matthew Thomas
Cc: Clark, Stanley F SAS <Stanley.F.Clark@usace.army.mil>
Sent: Mon Dec 15 09:05:30 2008
Subject: RE: Southern Company Meeting

Do you guys still want to meet? (Just a question, not a request.)

We are not doing anything to increase depths in the river due to our lack of funds for such an action.

Bill Bailey

-----Original Message-----
From: Montz, Matthew Thomas [mailto:MTMONTZ@SOUTHERNCO.COM]
Sent: Monday, September 08, 2008 10:11 AM
To: Bailey, William G SAM@SAS
Subject: Re: Southern Company Meeting

Bill,

Tom is working with Stan to reschedule the meeting again. The Col. is unavailable to meet with us Wed. Hurricanes and schedule conflicts are also pushing this meeting off.

Sorry for the delay again. I've been eager to get over to your office and talk about our project. Be thinking of some alternate dates and we'll try again soon.

Thanks,

Sent via Blackberry -
Matthew T. Montz
(205) 413-1615

----- Original Message -----
From: Bailey, William G SAM@SAS <William.G.Bailey@usace.army.mil>
To: Montz, Matthew Thomas
Sent: Mon Sep 08 09:06:11 2008
Subject: RE: Southern Company Meeting

Are you guys coming this Wednesday afternoon?

BB

-----Original Message-----

From: Montz, Matthew Thomas [mailto:MTMONTZ@SOUTHERNCO.COM]
Sent: Tuesday, August 19, 2008 12:27 PM
To: Bailey, William G SAM@SAS
Subject: RE: Southern Company Meeting

Sounds great to me, please hold that time for a meeting. We are still waiting to hear back from Stan on our meeting with Col Curtis. I'll be in touch as soon as we set that meeting.

Thanks,

Matthew T. Montz
Office 205-992-5629

-----Original Message-----

From: Bailey, William G SAM@SAS [mailto:William.G.Bailey@usace.army.mil]

Sent: Monday, August 18, 2008 7:09 AM
To: Montz, Matthew Thomas
Subject: RE: Southern Company Meeting

The afternoon should be fine. I have a weekly project meeting every Wed morning. How about a 1 PM start?

BB

-----Original Message-----

From: Montz, Matthew Thomas [mailto:MTMONTZ@SOUTHERNCO.COM]
Sent: Friday, August 15, 2008 5:05 PM
To: Bailey, William G SAM@SAS
Subject: Southern Company Meeting

Bill,

I've talked with Tom Moorer this afternoon and we won't be able to make the meeting next Tuesday. We are currently working on being in Savannah Sept 10 and wanted to check you availability that day for a meeting.

Please let me know if this work for you. Thanks,

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

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From: Joyner, Jessica A. [JJOYNER@southernco.com]
Sent: Tuesday, December 23, 2008 7:32 AM
To: Dodd, Anthony Ray
Cc: Montz, Matthew Thomas; Candler, W. Jim
Subject: RE: VEGP intake pumping records

Follow Up Flag: Follow up
Flag Status: Yellow

Attachments: V 08-11.pdf; V 08-09.pdf; V 08-10.pdf



V 08-11.pdf (95 KB) V 08-09.pdf (94 KB) V 08-10.pdf (96 KB)

We don't have December yet, I will have to see if anyone is around to get it from.

Jessica Joyner

From: Dodd, Anthony Ray
Sent: Monday, December 22, 2008 5:05 PM
To: Joyner, Jessica A.
Cc: Montz, Matthew Thomas; Candler, W. Jim
Subject: VEGP intake pumping records

Jessica,

At the request of SNC's council for the Vogtle ESP, I am in a data crunching mode just at the Holiday – this time to update estimated fish impingement rate at the Vogtle intake structure. Do you still have access to make-up water pumping records? If so, can you please provide me with scanned copies of daily intake pumping for Vogtle from 1 September through 21 December 2008? Thanks for your assistance in advance. I will be in the office tomorrow if you have any questions.

Merry Christmas!

Tony Dodd, CFP
Environmental Specialist

Georgia Power Environmental Lab
5131 Maner Rd.
Smyrna, GA 30080
Office Ph: 404-799-2142
Office Fax: 404-799-2141
Blackberry: 404-434-9412

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Birmingham, Alabama 35242



Energy to Serve Your World™

File: E.03.33
Log: EV-08-1834

December 4, 2008

Vogtle Electric Generating Plant
Monthly Surface Water Withdrawal Report
Permit No. 017-0191-05

Mr. Clay Burdett
Program Manager
Water Withdrawal Permitting Program
State of Georgia Environmental Protection Division
4220 International Parkway, Suite 101
Atlanta, Georgia 30354

Dear Mr. Burdett:

Enclosed is the November 2008 report for the above referenced permitted surface water system at Vogtle Electric Generating Plant. Should you have any questions, please contact Jessica Joyner at (205) 992-7693.

Sincerely,

A handwritten signature in black ink that reads "J. M. Godfrey". The signature is written in a cursive style.

J. M. Godfrey
Environmental Affairs Manager

JMG/JAJ:ahl

Enclosure

EV—08-1834
Mr. Clay Burdett
EPD
Page 2

bcc: w/o Enclosure
T. E. Tynan
C. L. Buck
T. D. Blalock
B. R. Evans

w/ Enclosure
C. R. Dedrickson
D. G. Goodwin
SNC Document Management – Vogtle (Return Receipt)

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



File: E.03.33
Log: EV-08-1551

October 6, 2008

Vogtle Electric Generating Plant
Monthly Surface Water Withdrawal Report
Permit No. 017-0191-05

Mr. Clay Burdett
Program Manager
Water Withdrawal Permitting Program
State of Georgia Environmental Protection Division
4220 International Parkway, Suite 101
Atlanta, Georgia 30354

Dear Mr. Burdett:

Enclosed is the September 2008 report for the above referenced permitted surface water system at Vogtle Electric Generating Plant. Should you have any questions, please contact Jessica Joyner at (205) 992-7693.

Sincerely,

A handwritten signature in black ink that reads "J. M. Godfrey". The signature is written in a cursive style with a large, prominent "G".

J. M. Godfrey
Environmental Affairs Manager

JMG/JAJ:ahl

Enclosure

10
07888

EV-08-1551
Mr. Clay Burdett
EPD
Page 2

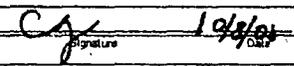
bcc: w/o Enclosure
T. E. Tynan
C. L. Buck
T. D. Blalock
B. R. Evans

w/ Enclosure
C. R. Dedrickson
D. G. Goodwin
SNC Document Management – Vogtle (Return Receipt)

10
07888

10
07888

Monthly Surface Water Withdrawal Report (Raw Water Intake Data)

Report all Values in Millions of Gallons (Gallons/1,000,000)	Surface Water	System Name:					
	Withdrawal Permit #:	Southern Nuclear Operating Company-Plant Vogtle					
	017-0191-05					WSID # or SIC #:	SIC 4911
	Water Source:	Month:	September				
Savannah River					Year:	2008	
Day of Month	Withdrawn (MG)*	Send to: Georgia Environmental Protection Division					
1	63.36					Watershed Protection Branch, SW M&I Unit	
2	63.36					4220 International Parkway	
3	76.36					Suite 101	
4	76.80					Atlanta, GA 30354-3902	
5	63.36					Phone: (404) 675-1646	
6	72.82					Fax: (404) 675-6244	
7	63.40					E-mail: surface_water@mail.dnr.state.ga.us	
8	68.60					I certify that all information contained on this form is correct and true to the best of my knowledge.	
9	63.36						
10	75.17					 Signature Date	
11	73.48						
12	77.04					Cliff Buck Print Name	
13	75.31						
14	63.36					Chemistry Manager Title	
15	63.36						
16	63.36					contact information for SNC Env. Affairs (205) 992 - 6387 Phone Number	
17	63.36						
18	63.36					(205) 992 - 6108 Fax Number	
19	63.36						
20	63.36					* MG represents millions of gallons. (MG = Gallons / 1,000,000)	
21	63.36						
22	63.36					** MGD represents million gallons per day. Average is calculated by dividing total quantity of water withdrawn by the number of days in the calendar month.	
23	63.36						
24	63.36					Average = (Total in MG / Days in month)	
25	63.36						
26	63.36					Total (MG)* 1989.54 Average (MGD)** 66.32 Max Day (MG)* 77.04	
27	63.36						
28	63.36					Submit data for each Surface Water Withdrawal Permit. Permits that were not used must still be reported by inputting zero's for each day.	
29	63.36						
30	63.36						

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42 Inverness Center Parkway
Birmingham, Alabama 35242



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File: E.03.33
Log: EV-08-1746

November 10, 2008

Vogtle Electric Generating Plant
Monthly Surface Water Withdrawal Report
Permit No. 017-0191-05

Mr. Clay Burdett
Program Manager
Water Withdrawal Permitting Program
State of Georgia Environmental Protection Division
4220 International Parkway, Suite 101
Atlanta, Georgia 30354

Dear Mr. Burdett:

Enclosed is the October 2008 report for the above referenced permitted surface water system at Vogtle Electric Generating Plant. Should you have any questions, please contact Jessica Joyner at (205) 992-7693.

Sincerely,

A handwritten signature in cursive script that reads "Jessica Joyner".

J. M. Godfrey
Environmental Affairs Manager

JMG/JAJ:ahl

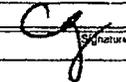
Enclosure

EV-08-1746
Mr. Clay Burdett
EPD
Page 2

bcc: w/o Enclosure
T. E. Tynan
C. L. Buck
T. D. Blalock
B. R. Evans

w/ Enclosure
C. R. Dedrickson
D. G. Goodwin
SNC Document Management – Vogtle (Return Receipt)

Monthly Surface Water Withdrawal Report (Raw Water Intake Data)

Report all Values in Millions of Gallons (Gallons/1,000,000)	Surface Water	System Name:					
	Withdrawal Permit #:	Southern Nuclear Operating Company-Plant Vogtle					
	017-0191-05					WSID # or SIC #:	SIC 4911
	Water Source:	Month:	October				
	Savannah River					Year:	2008
Day of Month	Withdrawn (MG)*	Send to: Georgia Environmental Protection Division Watershed Protection Branch, SW M&I Unit 4220 International Parkway Suite 101 Atlanta, GA 30354-3902 Phone: (404) 675-1646 Fax: (404) 675-6244 E-mail: surface_water@mail.dnr.state.ga.us I certify that all information contained on this form is correct and true to the best of my knowledge. <div style="text-align: right;">  Signature </div> <div style="text-align: right;"> 11/5/08 Date </div> <div style="text-align: center;"> Cliff Buck Print Name Chemistry Manager Title contact information for SNC Env. Affairs (205) 992 - 6387 Phone Number (205) 992 - 6108 Fax Number </div>					
1	63.36						
2	63.36						
3	63.36						
4	63.36						
5	63.36						
6	62.77						
7	63.36						
8	63.36						
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11	63.36						
12	63.36						
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21	63.36						
22	63.36						
23	63.36						
24	63.36						
25	63.36						
26	63.36						
27	63.38						
28	63.36						
29	63.36						
30	63.36						
31	63.36						
Total (MG)*	1963.59					* MG represents millions of gallons. (MG = Gallons / 1,000,000)	
Average (MGD)**	63.34					** MGD represents million gallons per day. Average is calculated by dividing total quantity of water withdrawn by the number of days in the calendar month.	
Max Day (MG)*	63.38					Average = (Total in MG / Days in month)	

Submit data for each Surface Water Withdrawal Permit. Permits that were not used must still be reported by inputting zero's for each day.

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 Assessment team members

This summary provides information from the 18th of 24 planned sampling impingement events at the Plant Vogtle make-up water intake structure. This sampling event was conducted by Tony Dodd of GPC's Environmental Field Services Group during 19-20 November 2008.

Operation

Two make-up water pumps were operating during the sampling event. All four vertical traveling screens were operational.

Sampling

Impingement sampling was conducted at the Plant Vogtle intake structure screen wash outfall pit between 2030 hrs on 19 November and 2030 hrs on 20 November 2008. The traveling screens were rotated and purged of any prior impinged debris via the screen wash system before setting the insert net for collection. The nighttime sample yielded six fish comprised of four species including hogchoker (*Trinectes maculatus*), spotted sunfish (*Lepomis punctatus*), bluespotted sunfish (*Enneacanthus gloriosus*), and redbreast sunfish (*Lepomis auritus*). The six fish averaged about 61 mm total length and 11 grams each yielding a total biomass of 67.3 grams. The nighttime sample yielded four hogchokers weighing a total of 56.5 grams.

Other Observations

To date, 81 individual organisms weighing 745.5 grams have been impinged during this study.

Surface water temperature during the 24-hr event averaged 13.5°C. Flow in the Savannah River ranged from 5,110 to 4,760 cfs during the sampling event (USGS Waynesboro Gage No. 021973269).

The next scheduled sampling event is set for 3-4 December 2008.

Please contact me if you have any questions.

Tony Dodd, CFE
Environmental Specialist, GPC Environmental Field Services, 404-799-2142

PLANT VOGTLE IMPINGEMENT MONITORING DATA FORM

Sample Information

Page: 1 of 1

Collector(s): ARD / JLB

Remarks: _____

12-hour Period (circle)

DAY

NIGHT

Start Date 11-19-08

Time 0830 2030

End Date 11-20-08

Time 2030 0830

Elapsed Time 12 12

Plant and CWIS Operating Conditions

	No. Pumps	Pump Flow (gpm)	No. of VTS Operating
Start	<u>2</u>	<u>44,000</u>	
Finish	<u>2</u>	<u>44,000</u>	<u>4</u>

	River Stage (ft.)	
Start	<u>7.18</u>	<u>5,110 cfs</u>
Finish	<u>6.83</u>	<u>4,760 cfs</u>

Physicochemical parameters:

	mg/L
D.O.	
pH	SU
Cond.	uS/cm
Turbidity	NTU

Water Temperature (°C)	
Start	<u>13.5</u>
Finish	<u>13.5</u>

Location of Measurement:

Screwwash spillway

Field Conditions/Other Observations

Air Temp = 15.5 °C on 11/20/08 @ 2057 HRS

Event #

Entered by:
Date: / /

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To:

Plant Vogtle Impingement Assessment team members

This summary provides information from the 19th of 24 planned sampling impingement events at the Plant Vogtle make-up water intake structure. This sampling event was conducted by Tony Dodd of GPC's Environmental Field Services Group during 3-4 December 2008.

Operation

Two make-up water pumps were operating during the sampling event. All four vertical traveling screens were operational.

Sampling

Impingement sampling was conducted at the Plant Vogtle intake structure screen wash outfall pit between 2030 hrs on 3 December and 2030 hrs on 4 December 2008. The traveling screens were rotated and purged of any prior impinged debris via the screen wash system before setting the insert net for collection. The nighttime sample yielded ten fish comprised of three species including spotted sunfish (*Lepomis punctatus*), pirate perch (*Aphredoderus sayanus*), and the speckled madtom catfish (*Noturus leptacanthus*) plus four brushnose crayfish (*Procambarus pubescens*). The crayfish species identification will be confirmed. All but four spotted sunfish were captured in alive. The sample weighed a total of 34.2 grams. The nighttime sample yielded two fish including spotted sunfish and bannerfin shiner (*Cyprinella leedsii*) weighing a total of 2.3 grams. Bannerfin shiner and speckled madtom are new to the species represented in Vogtle impingement sampling to date. The speckled madtom was collected in live condition. Also, another species new to the list of those observed to date is spottail shiner (*Notropis hudsonius*) which is a small-bodied species common to the region. This specimen was observed in the trash basket before impingement sampling began and has not been counted in the actual sample.

Other Observations

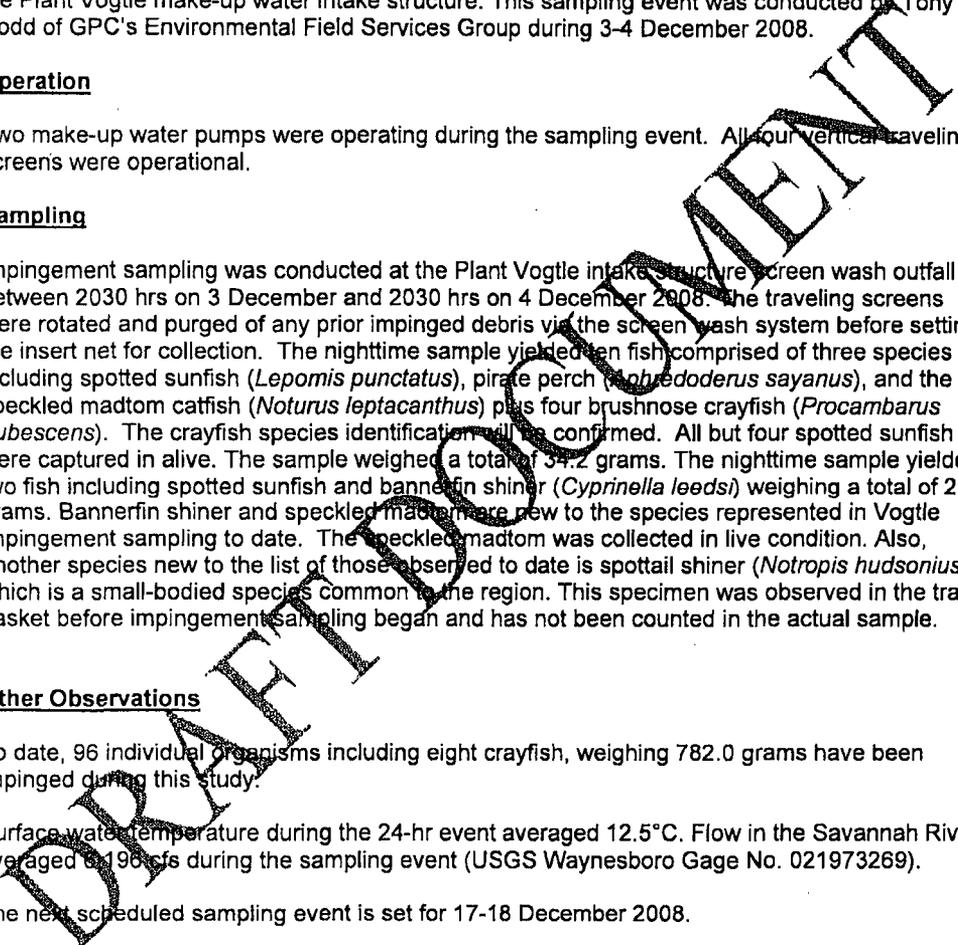
To date, 96 individual organisms including eight crayfish, weighing 782.0 grams have been impinged during this study.

Surface water temperature during the 24-hr event averaged 12.5°C. Flow in the Savannah River averaged 6,196 cfs during the sampling event (USGS Waynesboro Gage No. 021973269).

The next scheduled sampling event is set for 17-18 December 2008.

Please contact me if you have any questions.

Tony Dodd, CFP
Environmental Specialist, GPC Environmental Field Services, 404-799-2142



PLANT VOGTLE IMPINGEMENT MONITORING DATA FORM

Sample Information

Page: 1 of 3

Collector(s): ARD

Remarks:

12-hour Period (circle)

Start Date 12/3/08
End Date 12/4/08

	DAY	NIGHT
Time	<u>0830</u>	<u>2040</u>
Time	<u>2030</u>	<u>0830</u>
Elapsed Time		

Plant and CWIS Operating Conditions

	No. Pumps	Pump Flow (gpm)	No. of VTS Operating
Start	<u>2</u>		
Finish			<u>4</u>

	River Stage (ft.)	
Start	<u>677</u>	<u>6790 cfs</u>
Finish	<u>673</u>	<u>6170 cfs</u>

Physicochemical parameters:

	mg/L
D.O.	
pH	
Cond.	
Turbidity	

	Water Temperature (°C)
Start	<u>12.5</u>
Finish	<u>12.5</u>

Location of Measurement:

trash pit spill

Field Conditions/Other Observations

- * Air temp 4°C 0844 hrs 12/4/08
- * River stage is up. 1/4 rising moon
- * Declined air temp.
- * Nighttime sample yielded several fish & crabs
- * 3 fish observed in trash basket before sampling began. They include:
 - 1) gizzard shad
 - 2) spotted sunfish
 - 3) spottail shiner (Notropis hudsonius)
see voucher jar.

Event #

Entered by:
Date: / /

From: Dodd, Anthony Ray [ARDODD@southernco.com]
Sent: Monday, December 15, 2008 7:31 AM
To: Middlebrooks, Kenneth D.; Williams, A. L. (Tony); Stuhaan, Chuck E.; VNP Dispatchers; Walden, Kevin C.; Manigo, D'Andre
Cc: Montz, Matthew Thomas; Candler, W. Jim
Subject: P.O.D. river/intake study

Follow Up Flag: Follow up
Flag Status: Yellow

Tony Dodd of GPC Environmental Field Services will be performing impingement sampling at the Vogtle river water intake structure Wednesday, 17 Dec through Thursday, 18 Dec. His sampling schedule will be conducted on 12-hr sampling intervals for 24 hours. Tony will contact the Unit 2 Operator periodically during the event to ask for assistance to have the traveling screens at the intake structure auto-rotated on three instances during the study (2030 HRS on Wed and 0830 HRS and 2030 HRS on Thur). Kevin Walden and D'Andre Manigo are our team onsite contacts. Please include this activity in the P.O.D for 17-18 December 2008.

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

Tony Dodd, CFP
 Environmental Specialist

Georgia Power Environmental Lab
 5131 Maier Rd.
 Smyrna, GA 30080
 Office Ph: 404-799-2142
 Office Fax: 404-799-2141
 Blackberry: 404-434-9412

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From: Dodd, Anthony Ray [ARDODD@southernco.com]
Sent: Monday, December 01, 2008 8:53 AM
To: Stuhaan, Chuck E.; Middlebrooks, Kenneth D.; VNP Dispatchers; Manigo, D'Andre; Williams, A. L. (Tony); Walden, Kevin C.
Cc: Montz, Matthew Thomas; Candler, W. Jim
Subject: P.O.D. River Intake Sampling

Follow Up Flag: Follow up
Flag Status: Yellow

Gentlemen,

This is a request to add the river intake study to the P.O.D. Tony Dodd of GPC Environmental Field Services will be conducting a fisheries impingement sampling event at the Plant Vogtle intake structure during 3 through 4 (from 2030 hrs Wed to 2030 hrs Thursday) December 2008. Tony will contact the Unit 2 Operator at the beginning, middle, and end of the 24 hr sampling period to ask Operations for assistance to rotate the traveling screens. Please contact me if you have any questions.

Tony Dodd, CFP
Environmental Specialist

Georgia Power Environmental Lab
5131 Maner Rd.
Smyrna, GA 30080
Office Ph: 404-799-2142
Office Fax: 404-799-2141
Blackberry: 404-434-9412

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Anthony R. Dodd**Position Title:** Environmental Specialist**Primary Disciplinary Experience:** Fisheries Biology and Aquatic Ecology**Certification:** Certified Fisheries Professional by the American Fisheries Society**Degree:** Bachelor of Science Marine Biology, Troy University, 1982**Employer:** Georgia Power Company**Address:** 5131 Maner Road, Smyrna, Georgia 30080**Current job position responsibilities**

Mr. Dodd serves in a department that is steeped in both internal and external company environmental affairs and outreach. Mr. Dodd's current, primary position responsibilities include conduct of routine monitoring as well as management of power company resources that involve aquatic biological resources associated with reservoirs of FERC permitted hydroelectric dams and tail waters as well as State waters that may be affected by company infrastructure development needs. In addition to conducting routine investigations of water quality and fishery resources, Mr. Dodd manages, on a case by case basis, special projects based in issues of assessment of fisheries and other natural resources including freshwater aquatic macroinvertebrate communities, mussel fauna, and coastal estuarine resources. In particular, based on his experience, Mr. Dodd is a key staff resource for field investigations in assessment of potential power plant impacts to aquatic resources subject to CWA Sections 316(a) - thermal - and (b) entrainment/impingement at fossil fuel and nuclear electric production facilities. Additionally, Mr. Dodd is currently involved with the company's directed activities for FERC relicensing projects, voluntary resource conservation initiatives including wetland and aquatic habitat restoration, composition of a draft conservation agreement with assurances for gopher tortoise, and reservoir clean-up programs. Secondly, Mr. Dodd is a staff resource for investigations of nuisance aquatic pests, water quality investigations, and wetland impact assessment.

Prior Employment**Employer:** Geosyntec Consultants, Inc.**Address:** 1255 Roberts Boulevard, NW, Suite 200, Kennesaw, GA 30144**Period in this position:** From August 2000 to August 2007**Position title:** Senior Biologist

Between August of 18, 2000 and August 20, 2007, Mr. Dodd was employed as senior biologist with emphasis on his fisheries expertise at GeoSyntec's Water and Natural Resources Group based in Atlanta, Georgia. He has conducted and supervised fisheries-related investigations in freshwater and estuarine environments throughout much of the eastern and southern United States in his cumulative professional experience. He has extensive experience with fisheries assessment stemming from a variety of needs related

to permit relicensing and compliance for major electric and gas utility companies, biomonitoring of paper mill effluents for the pulp and paper industry, EPA Super Fund Investigation sites, hazardous waste assessment and clean-up programs, power plant siting studies, industrial development interests, private pond and lake owner management interests, and ecological risk assessment for private industries. Mr. Dodd is a licensed Federal Permit holder for collection of protected species of freshwater fish species in Georgia resulting in the first successful certification of his employer for conduct of aquatic studies for the Georgia Department of Transportation. As an experienced fisheries investigator, Mr. Dodd is expertly versed in fish collection methodologies, including hydroacoustics sampling, in freshwater and estuarine environments, species identification, sample sampling, and Quality Control and Quality Assurance measures required in various state and federal protocols. Mr. Dodd's responsibilities range broadly from project concept and work scoping to preparation, interpretation, and delivery of technical report findings the client and regulatory community. As an experienced fisheries investigator, Mr. Dodd has mentored junior staff members in AFS and accepted fisheries sampling practices required for the varied ecological investigation needs of the firm. In recent performance of 316(b) thermal demonstration studies that assessed the level of thermal impacts to fish and macroinvertebrate communities of Lake Sinclair, Mr. Dodd authored technical findings of the study via innovative application of multi-metric analyses in a large reservoir, otherwise a method in 316(b) application unique to any previous, similar compliance investigations in Georgia. In the past, he has served as a judge of student papers in the service of a past Chapter President at AFS Chapter meetings. As a member of the Georgia AFS Chapter, Mr. Dodd has represented his employer as a sponsor of annual meetings for several years.

Employer: EA Engineering, Science, and Technology, Inc.

Address: 11019 McCormick Road, Hunt Valley, MD 21031

Period in this position: From June 1989 to May 1994

Position title: Scientist III

As a fisheries professional at EA Engineering, Mr. Dodd conducted fish community characterizations, assessments of residual chemicals in fish tissue, and fish habitat/physical habitat suitability studies stemming from a host of environmental compliance or re-licensing needs for the fossil fuel-power production industry, chemical manufacturing industry, military installations, municipalities, and the pulp and paper industry. Mr. Dodd and co-authored numerous in-house technical reports concerning the subject matter from job fishery investigations. Among his accomplishments as a fisheries professional, Mr. Dodd was a key provider of fisheries and IFIM (instream flow incremental methodology) investigation products for Georgia Power in responding to FERC (Federal Energy Regulatory Commission) relicensing exhibits for eight hydroelectric facilities in Georgia. Mr. Dodd performed fish community and field components of aquatic risk assessment investigations as SuperFund hazardous waste assessment sites or military BRAC (base realignment and closure program) sites located in New York, Alabama, Pennsylvania, and Rhode Island. Additionally, Mr. Dodd provided key fish investigation products for the paper manufacturing industry at sites located in Georgia, Mississippi, Tennessee, North Carolina, West Virginia, and Texas

while at EA Engineering. Mr. Dodd provided mentoring in fisheries sampling methods and data interpretation to a number of junior staff members at EA. Mr. Dodd first joined the Georgia Fisheries Workers Association and the Georgia Chapter of the American Fisheries Society (Member Number 023326) while with EA Engineering. Mr. Dodd was a holder of several state scientific collection permits in order to provide fisheries work dependent upon job location.

Employer: Aquatic Ecological Services, Inc. (with Mr. Dodd as the business owner)
Address: 389 Frey Road, Dallas, GA 30132
Period in this position: From May 1994 to August 1998
Position title: Fisheries Ecologist, President

As the owner and operator of his own ecological services consultancy, Mr. Dodd was primarily recognized as a provider of professional fisheries investigation services. The diversity of project needs arose from fish biomonitoring needs in NPDES permit compliance for the pulp and paper industry - to the need for reliable fish community inventories for a host of clients required to perform ecological risk assessments in a variety of habitats - to pond and lake management services for private lake owners. Among his accomplishments as a fisheries professional at AES, Mr. Dodd successfully completed fisheries investigations and technical reports for other consulting companies in freshwater and coastal environments in a number of locations geographically ranging between Texas to New York. While the President of AES, Mr. Dodd was a member of the Georgia Fisheries Workers Association and the Georgia Chapter of the American Fisheries Society.

Employer: Exponent headquartered in Bellevue, Washington
Address: 5375 SE 30th Place, Suite 250 Bellevue, WA 98007
Period in this position: From August 1998 to August 1999
Position title: Aquatic Ecologist

Mr. Dodd was hired by Exponent specifically for his fisheries expertise. Exponent provided sources of work for Mr. Dodd to apply his biological investigation skills and knowledge of fisheries biology at sites/locations distributed throughout the eastern U.S, each requiring some level of aquatic resources damages assessment. Mr. Dodd performed fish community investigations, fish tissue assessment, and technical report products for investigation sites stemming from the gas pipeline industry, petroleum manufacturing, legacy pollutant sites usually associated with former MGPs (manufactured gas plants), and the pulp and paper industry (Fox River Valley – PCB and dioxin investigations). Mr. Dodd performed fisheries sampling in coastal and freshwater habitats using a variety of gear types and techniques. Mr. Dodd was a holder of several state scientific collection permits in order to provide fisheries work dependent upon job location. While at Exponent, Mr. Dodd was a member of the Georgia Fisheries Workers Association and the Georgia Chapter of the American Fisheries Society.

Employer: Ogden Environmental and Energy Services, Inc.
Address: 1395 South Marietta Parkway, Building 300, Suite 210, Marietta, GA 30067

Period in this position: From August 1999 to August 2000
Position title: Ecologist

Between 1999 and 2000, Mr. Dodd served the role of a principal fisheries and aquatic ecology investigator at Ogden. He was responsible for project design, data collection and analysis, and producing technical report findings. As the focus of this Ogden group was in water resources, Mr. Dodd's role as an experienced fisheries and aquatic investigator often overlapped into peripheral projects involving studies including technical literature search and review of PCB's (polychlorinated biphenol) in fishes and sediments of the Coosa River system subject to regulated fish harvest and/or fish tissue consumption guidance (General Electric); fish, benthic macroinvertebrate, and amphibian assessment in habitats impacted by legacy pollutants such as heavy metals and coal tar constituents on the Mauldin River near Boston Massachusetts for Massachusetts Electric and on the Oconee River in Athens, Georgia for Georgia Power Company and in a wetland system near Valdosta, Georgia for Atlanta Gas Light Company; assessment of residual contaminants in fish tissue from hazardous waste sites and Kraft-paper mills in Georgia; investigations of total daily maximum load (TMDL) of mercury in aquatic habitats (Olin Corporation); and assessment of riparian condition in wadeable, urban streams as a component of FEMA floodplain mapping investigations (Fulton County, Georgia). Mr. Dodd provided consultation to non-biologist employees in other office locations of the firm when question arose concerning implementation of fisheries or other aquatic sampling needs outside of the region. Mr. Dodd was a holder of several state scientific collection permits in order to provide fisheries work dependent upon job location. While at Ogden, Mr. Dodd was a member of the Georgia Fisheries Workers Association and the Georgia Chapter of the American Fisheries Society.

Recent Administrative Reports:

Cheek, T., Dodd, A.R., C. Krachon, and S. Layman. 2007. Preliminary report of fish impingement mortality at the Plant Mitchell Steam Electric Generating Facility, Albany, GA. Produced for Georgia Power Company, Environmental Affairs, Atlanta, GA 30308 by Geosyntec Consultants, Inc., Kennesaw, GA 30144.

Cheek, T., A.R. Dodd, C. Krachon, and S. Layman. 2007. Preliminary report of fish impingement mortality at the Plant McManus Steam Electric Generating Facility, Brunswick, GA. Produced for Georgia Power Company, Environmental Affairs, Atlanta, GA 30308 by Geosyntec Consultants, Inc., Kennesaw, GA 30144.

Dodd, A.R., Cheek, T. 2006. Biological survey of the Miner Shoal Bypass Reach, Soque River. Miner Shoal Waterpower Project, FERC Project No. 12492-000. Produced for Ha-Best, Inc, Cleveland, GA 30528 by Geosyntec Consultants, Inc., Kennesaw, GA.

Cheek, T, A.R. Dodd, and C. Krachon. 2006. Final Draft: Preliminary report of fish impingement mortality at the A.M. Williams Steam Electric Generating Station, Goose

Creek, SC. Produced for SCANA South Carolina Electric and Gas Company, Inc., Goose Creek, SC by Geosyntec Consultants, Inc., Kennesaw, GA 30144.

Cheek, T, A.R. Dodd, and C. Krachon. 2006. Final Draft: Preliminary report of fish impingement mortality at the Virgil C. Summer Nuclear Station, Jenkinsville, SC. Produced for SCANA South Carolina Electric and Gas Company, Inc., Jenkinsville, SC by Geosyntec Consultants, Inc., Kennesaw, GA 30144.

Recent Technical Posters

Application of Multimetric Bioassessment Techniques in a 316(a) Demonstration at Georgia Power Company's Plant Branch, Lake Sinclair, Georgia. T.E. Cheek, A. R. Dodd, and R.G. King, Geosyntec Consultants, Inc, and S. Hendricks and B. Evans, GA Power Co., June 2007, Atlanta, GA, **4th International Reservoir Symposium, Balancing Fisheries Management and Water Uses for Impounded River Systems**

Hydroacoustic assessment of fish abundance and distribution in relation to a thermal discharge to support a 316(a) demonstration at Georgia Power Company's Plant Branch, Lake Sinclair, Georgia. January 23 - 25, 2007, Caroline Doksansky and Anthony Dodd Geosyntec Consultants, Inc., Water and Natural Resources Practice

Recent Presentations

Plants Hammond, McManus, and Mitchell Phase II 316(b) Compliance

Representatives of Georgia Power Company, Southern Company, and client council hosted at Georgia Power's Meeting Facility, Atlanta, GA

First year progress report: Plant Branch 316(a) demonstration fish community multi-metric assessment.

Georgia Power Company and client council hosted at Geosyntec's Corporate Meeting Facility



Energy to Serve Your World™

MATTHEW T. MONTZ
Environmental Specialist

M.S., Environmental Management, Samford University,
Birmingham, Alabama, 1998
B.S., Biology, Samford University, Birmingham,
Alabama, 1995

EXPERIENCE SUMMARY

Mr. Montz has worked in the field of environmental biology for over 12 years. Mr. Montz joined Southern Company Services, Earth Science and Environmental Engineering as an Environmental Specialist in 1999, and until 2006, managed several aquatic environmental monitoring programs for Mississippi Power Company and Gulf Power Company. During this time, his experience included work in water chemistry, benthic macro invertebrate studies, effluent toxicity testing and the assessment of water quality conditions of southern estuaries, and rivers to determine the impacts associated with the withdrawal and discharge of cooling water at seven electric generating facilities in Mississippi and Florida.

In 2006, Mr. Montz transferred to Southern Nuclear Operating Company, Environmental Affairs as an Environmental Specialist. There he worked with the Nuclear Development Organization in preparing the Environmental Report for the Early Site Permit (ESP) and Combined Construction and Operating License (COL) applications. Other responsibilities include responding to NRC technical review staff questions related to the applications and completing and submitting the environmental permits required for new plant construction and operation.

RELATED EXPERIENCE

Environmental

As an environmental consultant, Mr. Montz has been responsible for performing environmental site assessments, hazardous waste inventories and other remediation activities at various manufacturing facilities. Further environmental experience included field collection and evaluation of air, water and soil samples. Activities included the retrieval of grab and composite samples, the installation and sampling of monitoring wells, and the collection of effluent samples for toxicity screening.

Biological

In a biological capacity, Mr. Montz has been involved in benthic macro invertebrate studies and the assessment of water quality conditions of estuaries, and rivers to determine the impacts associated with the withdrawal and discharge of cooling water by seven electric generating facilities in Mississippi and Florida. Mr. Montz also participated in research designed to consider options on relocating two species of threatened and endangered fish. This research included detailed population surveys to determine the health, abundance and life histories of the two species.

CERTIFICATIONS AND AFFILIATIONS

38 Hour Army Corps of Engineers Wetland Delineation & Management Training Program
Certified per OSHA (29 CFR 1910.120) for work at Hazardous Wastes Sites
Certified Open Water Scuba Diver by the Professional Association of Diving Instructors

Thomas C. Moorer
Project Manager – Environmental
Southern Nuclear Operating Company
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Birmingham, AL 35242
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TCMoorer@Southernco.com

Education

Auburn University	Environmental Science	BS 1979
University of Alabama	Civil/Environmental Engineering	BS 1983
University of Alabama Post-graduate work/Adjunct Professor		1983-1985

Employment History

Over 30 years experience in utility environmental management including over 18 years in the nuclear discipline. Extensive experience in environmental compliance, permitting and engineering support in water/wastewater; solid/hazardous waste; endangered species; and NEPA. Over 15 years experience in NEPA matters including development of Environmental Reports for Environmental Impact Statements supporting NRC licensing actions. Heavily involved in industry groups including EPRI, EEI, and NEI, with numerous technical publications in the environmental field.

2005 – present	Southern Nuclear Operating Company Project Manager Environmental – Responsible for all environmental support activities for new plants and license renewal including development of the Environmental Report (ER) for the Vogtle Early Site permit (ESP)
1990 – 2005	Southern Nuclear Operating Company Environmental Services Supervisor – Supervised staff responsible for all environmental compliance, permitting, regulatory, chemistry and environmental engineering support to three Southern Company Nuclear power plants. Supported NHEPA actions and ER development for Hatch and Farley License Renewals
1985 – 1990	Alabama Power Company Environmental Affairs Senior Engineer – Provided technical and regulatory support for environmental compliance, permitting, and environmental engineering support to nuclear, fossil, and hydro generating facilities, transmission and distribution services for Alabama Power Company

Personal Information

Born November 25, 1954 in Birmingham AL.
Married with three children; wife Tracy.
Interests include music, architecture, travel, and cooking.

Thomas C. Moorer
Biographical Information

Over 31 years experience in utility environmental management including over 19 years in the nuclear area. SNC Project Manager – Environmental since 2005 responsible for all environmental support for new plants and license renewal including development of the Environmental Reports (ERs) for Vogtle Early Site Permit (ESP), Combined Construction and Operating License (COL) and License Renewal applications to NRC. Responsible for interface with NRC for review of the ER and subsequent EIS development, site audits and public meetings, and for coordination with state and Federal agencies regarding ESP, COL, and License Renewal activities. Prior to 2005, SNC Environmental Services Supervisor for over 15 years providing management of technical and regulatory support for permitting and environmental compliance in the areas of water, air, solid/hazardous waste, mixed waste, chemistry and hazardous materials for all three SNC plants. Extensive NEPA experience including managing environmental support for Farley and Hatch License Renewal, EPRI and NEI work associated with development of the NEI License Renewal Guideline, and work with NRC in development of the GEIS. Provided project management for numerous major environmental projects including technical studies to resolve NPDES permitting issues, wetlands and endangered species work, and studies related to license renewal.

- Over 31 years experience in utility environmental issues including over 18 years in the nuclear area. Extensive experience in water/wastewater; solid hazardous waste; endangered species; NEPA.
- Significant experience in chemistry/materials area.
- Significant experience in Federal, State, and local agency interaction including permits, regulatory development, and corrective action.
- Significant political experience at Federal and state level.
- Managed environmental support for Hatch and Farley license renewal
- Heavily involved in EPRI and NEI work associated with license renewal including development of NEI Guideline for license renewal and work with the NRC on development of the GEIS.
- Numerous technical publications in environmental field
- Over 18 years experience in NEPA matters including development of studies and documents supporting Environmental Impact Statements.
- Over 15 years experience as SNC Supervisor Environmental Services

Work history includes a wide range of experience from field data collection and demonstration studies; design and implementation of engineering studies; regulatory interpretation and compliance support; permitting and agency interaction at Federal, state and local level; development of NEPA documents and coordination of NRC review, public participation, and issue of environmental impact statements; and management of environmental compliance program for three nuclear plants.