Attachment 5 to

GNRO-2012/00039

Entergy Nuclear Grand Gulf Nuclear Station License Renewal Environmental Audit – Hydrology Patton – Attachment E labeled "2005, 2008, 2009 and 2010 Annual Water Use Reports"

Attachment E

2005, 2008, 2009 and 2010 Annual Water Use Reports

Entergy

Entergy Operations, Inc.
Waterloo Road
P.O. Box 756
Port Gibson, MS 39150
Tel 601 437 2129

W. Russell Brian
General Manager, Plant Operations

August 17, 2006

Mr. John Warner
Department of Environmental Quality
Office of Land and Water Resources
Post Office Box 10631
Jackson, Mississippi 39289-0631

SUBJECT: Grand Gulf Nuclear Station
Water Use Program [Annual Water Use Survey – 2005]

GEXO-2006/00048

Dear Mr. Warner:

As requested, we have attached the 2005 Water Use Program information for Grand Gulf Nuclear Station. Please note that we made the following changes:

Amendments to the Well Data Forms (WDF)*:

OLWR Permit Number	Change Description
MS-GW-00371	Changed the well depth from 122 to 128
MS-GW-15026	Changed the date drilled from 1986 to 1996
MS-GW-02967	Changed the well depth from 152 to 154.8
MS-GW-02972	Changed the well depth from 32.5 to 31.3
MS-GW-02973	Changed the well depth from 45.52 to 42.5
MS-GW-02974	Changed the well depth from 50.45 to 59.7
MS-GW-02975	Changed the well depth from 52.62 to 55.4
MS-GW-02976	Changed the well depth from 43 to 42.8
MS-GW-02977	Changed the well depth from 48 to 48.4
MS-GW-02978	Changed the well depth from 48 to 48.3
MS-GW-02979	Changed the well depth from 55 to 55.2

*All WDF casing diameters were converted to inches to facilitate reporting
(1) Well depths were changed to match the driller's logs and/or the Updated Final Safety Analysis Report to facilitate reporting

The following wells are closed and no longer in service:

- **MS-GW-02965** - Closed and status changed to inactive
- **MS-GW-02966** - Closed and status changed to inactive
- **MS-GW-02968** – Closed and status changed to inactive

Please amend your records to reflect these changes.

If you have any questions, please contact Mr. John Lassetter, at (601) 437-2115.

Sincerely,

W. R. Brian
General Manager, Plant Operations
JML/RAS/dh

cc: Mr. Duff R. Austin (GGNS-NPE) w/a
Mr. C. A. Bottemiller w/o
Mr. R. N. Buckley (M-ECH-595) w/a
Mr. Michael Canerdy (MDEQ) w/a
File (CENTRAL) [9]
File (CHEM) w/a

Attachment to Well Data Form: 2005 Information

Well Data Form
Office of Land and Water Resources
Water – Use Program

Well Data Form
2005

ENTERGY OPERATIONS, INC.

OLWR Permit No.	GGNS Identifier	MS Health Dept. Tag No.	Well Depth (feet)	Rated (gpm)	Casing Diameter (inches)	Date Drilled	Total Gallons
MS-GW-02968	South Const. Well	**CLOSED**					
MS-GW-02966	Car Wash	**CLOSED**					
MS-GW-02967	Const. Well 1	0110011-01	154.8	400	24	9/1/76	$7.44E^{4}$
MS-GW-02970	Radial Well 3		123	10000	156	1/1/79	$2.68E^{9}$
MS-GW-00371	Radial Well 5		128	10000	156	1/1/79	$3.76E^{9}$
MS-GW-02977	DW 3		48.4	200	10	11/1/79	*
MS-GW-02979	DW 1		55.2	200	10	11/1/79	*
MS-GW-02978	DW 2		48.3	200	10	11/1/79	*
MS-GW-02976	DW4		42.8	200	10	11/1/79	*
MS-GW-02971	Radial Well 1		122	10000	156	1/1/80	$1.36E^{8}$
MS-GW-02975	DW 5		55.4	200	10	7/16/80	*
MS-GW-02973	DW 7		42.5	200	10	7/18/80	*
MS-GW-02972	DW 8		31.3	200	10	7/21/80	*
MS-GW-02969	Radial Well 4		125	10000	192	1/1/85	$4.29E^{9}$
MS-GW-02965	DW 8A	**CLOSED**					
MS-GW-02974	DW 6		59.7	200	10	7/21/80	*
MS-GW-14989	Const. Well 3	0110011-03	162	500	18	8/4/95	$1.92E^{7}$
MS-GW-15026	Const. Well 4	0110011-04	163	500	18	1/18/96	$1.95E^{7}$

*Withdrawal is minimal and intermittent and is dependent upon a level indicator switch. Discharge is not tracked or recorded.

Attachment to Well Data Form: 2005 Information

Responsible Person: Duff Austin
System Engineering
(601) 437-6263

Wells Included:

- Radial Wells 1, 3, 4, and 5
- Dewatering Wells 1, 2, 3, 4, 5, 6, 7, and 8

Responsible Person: Clark Burrell
Licensed Operator
(601) 437-6962

Wells Included:

- Mississippi Health Department Tag Wells*

*These wells serve approximately 700 persons.

FLOW CALCULATIONS

0110011-01, 0110011-03, 0110011-04:
Data provided by the Licensed Operator

The following wells are closed:

- MS-GW-02968 [0110011-02] Construction Well: *Out of Service and Casing filled in*
- MS-GW-02965: *Out of Service and Casing filled in*
- MS-GW-02966: *Out of Service and Casing filled in*

Radial Wells:
Total gallons pumped for each well:
average gpm x minutes/year = gallons/year

Dewatering Wells:
Well depth(s) for DW-1 through DW-8 are based upon Updated Final Safety Analysis Report Table 2.4-29.

Mississippi Department Of Environmental Quality
Office of Land and Water Resources
Water Use Program

Well Owner Information Sheet

Commercial, Industrial and Private Well Owners

This section to be filled out by Commercial, industrial and private well owners

Name of Well Owner Entergy Operations, Inc.
Mailing Address P. O. Box 31995
City Jackson County Hinds Zip 39286-1995
Number of wells owned 18
Combined total gallons pumped (all wells) during the 2005 calender year 1.12E10 gallons.

This section to be filled out by Public water suppliers.

Public Water Suppliers Information

Name of Water System Grand Gulf Nuclear Station
Address P.O. Box 756 / 1003 Bald Hill Road
City Port Gibson County Claiborne Zip 39150
Phone 601-437-2115

Water Superintendent/Operator
Name See Attached
Work Phone _____ Home Phone _____

Secretary/Treasurer/Bookkeeper
Name N/A
Work Phone _____ Home Phone _____

System Information *Please fill out a separate page for each system (photocopy form if necessary).*

MS Department of Health Number 110011

How many usable sources of water does this system have? (wells for groundwater systems, purchase points, etc.)
Wells 3 purchase points N/A

How many active connections on this system? N/A
How many people does this system serve? 700
How many total gallons of water did this system:
pump during the 2005 calender year (Jan - Dec)? 3.88E7 gal.
sell during the 2005 calender year (Jan - Dec)? N/A gal.

How many gallons of water did this system purchase during the 2005 calender year?
N/A gallons purchased? From whom? N/A

Public Water Suppliers

Name of individual completing this form: John M. Lassetter
Phone Number: Work 601-437-2115 Home 601-924-4986

Mail to: Mississippi Department of Environmental Quality
Office of Land and Water Resources
PO Box 10631, Jackson, MS 39289

Well Data Form

SYSTEM ENERGY RESOURCES, INC.

Mail To: Mississippi Dept. of Environmental Quality
Office of Land and Water Resources
P.O Box 10631
Jackson, MS 39289-0631

JULY 2006

Well ID #	OLWR Permit Number	MS Health Dept. Tag No.	County	Well Depth	Rated (GPM)	Casing Size	Date Drilled	Status	Connections on Well	Total Gallons Pumped in 2005
	MS-GW-02965		CLAIBORNE	45	200	6	05/12/1986	**ACTIVE** Active ☐ Standby ☐ Inactive ☒ Plugged ☐	N/A	Closed
021F0044	MS-GW-02966		CLAIBORNE	641	200	6	06/01/1974	**STANDBY** Active ☐ Standby ☐ Inactive ☒ Plugged ☐	N/A	Closed
021F0053	MS-GW-02967	0110011-01	CLAIBORNE	~~152~~ 154.8	400	24	09/01/1976	**ACTIVE** Active ☒ Standby ☐ Inactive ☐ Plugged ☐	NONE	1.44E 4
021F0027	MS-GW-02968	0110011-02	CLAIBORNE	147	500	8	08/01/1972	**STANDBY** Active ☐ Standby ☐ Inactive ☒ Plugged ☐	N/A	Closed
	MS-GW-02969		CLAIBORNE	125	10000	192	01/01/1985	**ACTIVE** Active ☒ Standby ☐ Inactive ☐ Plugged ☐	NONE	4.29E-9
	MS-GW-02971		CLAIBORNE	122	10000	156	01/01/1980	**ACTIVE** Active ☒ Standby ☐ Inactive ☐ Plugged ☐	NONE	1.36E 8
	MS-GW-02972		CLAIBORNE	31.3 ~~92.5~~	200	10	07/21/1980	**ACTIVE** Active ☒ Standby ☐ Inactive ☐ Plugged ☐	NONE	*

Please correct any inaccurate information in the above form and fill in any missing information. ***Add any wells not included in the above list***

Well Status = Active (well in use) Standby (well maintained but not used daily) Inactive (well not maintained but not plugged) Plugged (well plugged as per MDEQ Regulations)

IF YOU DID NOT RETURN A QUESTIONNAIRE LAST YEAR, PLEASE INCLUDE THAT INFORMATION ON AN ATTACHED SHEET

Well Data Form

SYSTEM ENERGY RESOURCES, INC.

Mail To: Mississippi Dept. of Environmental Quality
Office of Land and Water Resources
P.O Box 10631
Jackson, MS 39289-0631

JULY 2006

Well ID #	OLWR Permit Number	MS Health Dept. Tag No.	County	Well Depth	Rated (GPM)	Casing Size	Date Drilled	Status	Connections on Well	Total Gallons Pumped in 2005
	MS-GW-02973		CLAIBORNE	~~46.52~~ ~~49.8~~ 42.5	200	10	07/18/1980	**ACTIVE** Active Standby Inactive Plugged	NONE	*
	MS-GW-02974		CLAIBORNE	~~50.45~~ 59.7	200	10	07/21/1980	**ACTIVE** Active Standby Inactive Plugged	NONE	*
	MS-GW-02976		CLAIBORNE	~~43~~ 42.8	200	10	11/01/1979	**ACTIVE** Active Standby Inactive Plugged	NONE	*
	MS-GW-02977		CLAIBORNE	48.4	200	10	11/01/1979	**ACTIVE** Active Standby Inactive Plugged	NONE	*
	MS-GW-02978		CLAIBORNE	48.3	200	10	11/01/1979	**ACTIVE** Active Standby Inactive Plugged	NONE	*
021F0066	MS-GW-15026	0110011-04	CLAIBORNE	163	500	18	~~03/01/1986~~ 18-JAN-96	**ACTIVE** Active Standby Inactive Plugged	NONE	1.95E7
021F0064	MS-GW-14989	0110011-03	CLAIBORNE	162	500	18	08/04/1995	**ACTIVE** Active Standby Inactive Plugged	NONE	1.92E7

Please correct any inaccurate information in the above form and fill in any missing information. ***Add any wells not included in the above list***

Well Status = Active (well in use) Standby (well maintained but not used daily) Inactive (well not maintained but not plugged) Plugged (well plugged as per MDEQ Regulations)

IF YOU DID NOT RETURN A QUESTIONNAIRE LAST YEAR, PLEASE INCLUDE THAT INFORMATION ON AN ATTACHED SHEET

Well Data Form

SYSTEM ENERGY RESOURCES, INC.

Mail To: Mississippi Dept. of Environmental Quality
Office of Land and Water Resources
P.O Box 10631
Jackson, MS 39289-0631

JULY 2006

Well ID #	OLWR Permit Number	MS Health Dept. Tag No.	County	Well Depth	Rated (GPM)	Casing Size	Date Drilled	Status	Connections on Well	Total Gallons Pumped in 2005
	MS-GW-00371		CLAIBORNE	~~120~~ 128	10000	156	01/01/1979	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive ☐ Plugged	NONE	3.76E9
	MS-GW-02975		CLAIBORNE	~~52.62~~ 55.4	200	10	07/16/1980	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive ☐ Plugged	NONE	*
	MS-GW-02979		CLAIBORNE	55.2	200	10	11/01/1979	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive ☐ Plugged	NONE	*
	MS-GW-02970		CLAIBORNE	123	10000	156	01/01/1979	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive ☐ Plugged	NONE	2.68E9

Please correct any inaccurate information in the above form and fill in any missing information. ***Add any wells not included in the above list***

Well Status = Active (well in use) Standby (well maintained but not used daily) Inactive (well not maintained but not plugged) Plugged (well plugged as per MDEQ Regulations)

IF YOU DID NOT RETURN A QUESTIONNAIRE LAST YEAR, PLEASE INCLUDE THAT INFORMATION ON AN ATTACHED SHEET

Entergy

Entergy Operations, Inc.
P.O. Box 756
Port Gibson, MS 39150
Tel 601 437 2800

July 28, 2010

Mr. James L. Crawford, RPG *Assistant Director*
Mississippi Dept. of Environmental Quality
Office of Land and Water Resources
Post Office Box 2309
Jackson, Mississippi 39225-2309

SUBJECT: Grand Gulf Nuclear Station (GGNS)
Water Use Program [Annual Water Use Survey 2008 & 2009]

GEXO-2010 / 00492

Dear Mr. Crawford:

As requested, we have attached the 2008 & 2009 Water Use Program information for GGNS. Please note that we made comments on several of the wells identified in the Well Survey Form. In addition, we have attached a copy of a communication between MDEQ and Grand Gulf (Attachment III) pertaining to the noted comments and ask that your records reflect these changes/corrections.

If you have any questions or comments, please feel free to contact Charles K. Shepphard at (601) 437-7312 or CShepph@Entergy.com.

Sincerely,

Charles K. Shepphard
GGNS, Site Environmental Lead

CKS/JML/cks

Attachment: 2008 Water Use Survey, 2009 Water Use Survey and MDEQ & GGNS communication.

cc: Mr. Jeffrey Goldstein (K-WPO-12D) w/a
Mr. Peter Glover (G-ADM2-PSE) w/a
File [CHEM]
File [CENTRAL] [13]

ATTACHMENT I

2008 WATER USE SURVEY

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF LAND AND WATER RESOURCES
WATER USE PROGRAM

WELL OWNER INFORMATION SHEET

Name of Well Owner Entergy Operations, Inc.

Address P.O. Box 31995

City Jackson State MS Zip 39213

County Hinds

Phone (601) 368-5000 Fax (601) 368-5816

How many active and/or standby wells do you have? 8

How many total gallons of water were pumped during the ~~2009~~ 2008 calendar year (Jan – Dec)?

10,915,566,200 (gal)

Is the pumped total from metered readings or estimates? ☐ Metered ☒ Estimates

Did you purchase any non-potable water? ☐ Yes ☒ No

If so, how many gallons? _____ From? _____

Name of individual completing this form: Charles K. Shephard

Phone (601) 437-7312 E-mail CShepha@Entergy.com

Mail to: Mississippi Department of Environmental Quality
Office of Land and Water Resources
PO Box 2309, Jackson, MS 39225
Fax: 601-961-5228

Mississippi Department of Environmental Quality
Office of Land and Water Resources
Annual Water Use Survey

Return to:
MDEQ - OLWR
P.O. Box 2309
Jackson, Ms 39225-2309

SYSTEM ENERGY RESOURCES INC

MDEQ-OLWR Permit Number	Health Dept. Tag Number	County Name	Well Depth	Rated (GPM)	Casing Diameter	Date Drilled	Well Status	Amount Pumped in ~~2009~~ 2008 CKS 6/3/10
MS-GW-00371		CLAIBORNE	128	10000	156	1/1/1979	ACTIVE [X] Active [ ] Standby [ ] Inactive (will never be put back in service) [ ] Abandoned (plugged per MDEQ regulations)	3,454,030,000
MS-GW-02967	0110011-01	CLAIBORNE	152	500	24	9/1/1976	ACTIVE [X] Active [ ] Standby [ ] Inactive (will never be put back in service) [ ] Abandoned (plugged per MDEQ regulations)	46,200
MS-GW-02969		CLAIBORNE	125	10000	192	1/1/1985	ACTIVE [X] Active [ ] Standby [ ] Inactive (will never be put back in service) [ ] Abandoned (plugged per MDEQ regulations)	1,848,220,000
MS-GW-02970		CLAIBORNE	123	10000	156	1/1/1979	ACTIVE [X] Active [ ] Standby [ ] Inactive (will never be put back in service) [ ] Abandoned (plugged per MDEQ regulations)	3,252,480,000
MS-GW-02971		CLAIBORNE	122	10000	156	1/1/1980	ACTIVE [X] Active [ ] Standby [ ] Inactive (will never be put back in service) [ ] Abandoned (plugged per MDEQ regulations)	2,325,500,000

Please correct inaccurate or missing information in the form. Add any wells that are not shown.

Well Status definitions: Active - well in use. Standby - well maintained but only used for emergencies. Inactive - well not maintained but not plugged. Abandoned - well plugged as per MDEQ regulations.

Mississippi Department of Environmental Quality
Office of Land and Water Resources
Annual Water Use Survey

Return to:
MDEQ - OLWR
P.O. Box 2309
Jackson, Ms 39225-2309

MS-GW-14989	0110011-03	CLAIBORNE	162	500	18	8/1/1995	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	17,561,000
MS-GW-15026	0110011-04	CLAIBORNE	163	500	18	1/18/1996	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	17,729,000
MS-GW-16232		CLAIBORNE	100	1000			**ACTIVE** ☐ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	* See Attachment
MS-GW-16233		CLAIBORNE	100	1000			**ACTIVE** ☐ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	* See Attachment
MS-GW-16234		CLAIBORNE	100	1000			**ACTIVE** ☐ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	* See Attachment
MS-GW-16235		CLAIBORNE	100	1000			**ACTIVE** ☐ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	* See Attachment

Please correct inaccurate or missing information in the form. Add any wells that are not shown.

Well Status definitions: Active - well in use. Standby - well maintained but only used for emergencies. Inactive - well not maintained but not plugged. Abandoned - well plugged as per MDEQ regulations.

Mississippi Department of Environmental Quality
Office of Land and Water Resources
Annual Water Use Survey

Return to:
MDEQ - OLWR
P.O. Box 2309
Jackson, Ms 39225-2309

MS-GW-16714	CLAIBORNE	155	10000	300

☐ Active
☐ Standby
☐ Inactive (will never be put back in service)
☐ Abandoned (plugged per MDEQ regulations)

Construction started in 2010

Please correct inaccurate or missing information in the form. Add any wells that are not shown.

Well Status definitions: Active - well in use. Standby - well maintained but only used for emergencies. Inactive - well not maintained but not plugged. Abandoned - well plugged as per MDEQ regulations.

ATTACHMENT II

2009 WATER USE SURVEY

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF LAND AND WATER RESOURCES
WATER USE PROGRAM

WELL OWNER INFORMATION SHEET

Name of Well Owner Entergy Operations, Inc.

Address P. O. Box 31995

City Jackson State MS Zip 39213

County Hinds

Phone (601) 368-5000 Fax (601) 368-5816

How many active and/or standby wells do you have? 8

How many total gallons of water were pumped during the 2009 calendar year (Jan – Dec)?

13,104,810,500 (gal)

Is the pumped total from metered readings or estimates? ☐ Metered ☒ Estimates

Did you purchase any non-potable water? ☐ Yes ☒ No

If so, how many gallons? _____ From? _____

Name of individual completing this form: Charles K. Sheppard

Phone (601) 437-7312 E-mail CSheppa@Entergy.com

Mail to: Mississippi Department of Environmental Quality
Office of Land and Water Resources
PO Box 2309, Jackson, MS 39225
Fax: 601-961-5228

Mississippi Department of Environmental Quality
Office of Land and Water Resources
Annual Water Use Survey

Return to:
MDEQ - OLWR
P.O. Box 2309
Jackson, Ms 39225-2309

SYSTEM ENERGY RESOURCES INC

MDEQ-OLWR Permit Number	Health Dept. Tag Number	County Name	Well Depth	Rated (GPM)	Casing Diameter	Date Drilled	Well Status	Amount Pumped In 2009
MS-GW-00371		CLAIBORNE	128	10000	156	1/1/1979	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	4,167,530,000
MS-GW-02967	0110011-01	CLAIBORNE	152	500	24	9/1/1976	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	54,500
MS-GW-02969		CLAIBORNE	125	10000	192	1/1/1985	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	4,097,410,000
MS-GW-02970		CLAIBORNE	123	10000	156	1/1/1979	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	3,260,990,000
MS-GW-02971		CLAIBORNE	122	10000	156	1/1/1980	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	1,545,790,000

Please correct inaccurate or missing information in the form. Add any wells that are not shown.

Well Status definitions: Active - well in use. Standby - well maintained but only used for emergencies. Inactive - well not maintained but not plugged. Abandoned - well plugged as per MDEQ regulations.

Mississippi Department of Environmental Quality
Office of Land and Water Resources
Annual Water Use Survey

Return to:
MDEQ - OLWR
P.O. Box 2309
Jackson, Ms 39225-2309

MS-GW-14989	0110011-03	CLAIBORNE	162	500	18	8/1/1995	**ACTIVE** ☒ Active 16,429,000 ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)
MS-GW-15026	0110011-04	CLAIBORNE	163	500	18	1/18/1996	**ACTIVE** ☒ Active 16,687,000 ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)
MS-GW-16232		CLAIBORNE	100	1000			**ACTIVE** ☐ Active * See Attachment ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)
MS-GW-16233		CLAIBORNE	100	1000			**ACTIVE** ☐ Active * See Attachment ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)
MS-GW-16234		CLAIBORNE	100	1000			**ACTIVE** ☐ Active * See Attachment ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)
MS-GW-16235		CLAIBORNE	100	1000			**ACTIVE** ☐ Active * See Attachment ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)

Please correct inaccurate or missing information in the form. Add any wells that are not shown.

Well Status definitions: Active - well in use. Standby - well maintained but only used for emergencies. Inactive - well not maintained but not plugged. Abandoned - well plugged as per MDEQ regulations.

Mississippi Department of Environmental Quality
Office of Land and Water Resources
Annual Water Use Survey

Return to:
MDEQ - OLWR
P.O. Box 2309
Jackson, Ms 39225-2309

MS-GW-16714	CLAIBORNE	155	10000	300	

[S] Active
[ ] Standby
[ ] Inactive (will never be put back in service)
[ ] Abandoned (plugged per MDEQ regulations)

Please correct inaccurate or missing information in the form. Add any wells that are not shown.

Well Status definitions: Active - well in use. Standby - well maintained but only used for emergencies. Inactive - well not maintained but not plugged. Abandoned - well plugged as per MDEQ regulations.

ATTACHMENT III

MDEQ & GGNS COMMUNICATION

Mississippi Department of Environmental Quality
Office of Land and Water Resources
P. O. Box 2309
Jackson, MS 39225-2309

May 27, 2010

Please deliver the following 2 pages, including this transmittal sheet to:

Name: **Charles Shepphard** Phone: **601-437-7312** Fax: **601-437-2336**

From:

L. Wayne Williams II
Geologist
MDEQ-OLWR Permitting and Monitoring Branch
(601) 961-5610 office
(601) 961-5228 fax

Message:

I spoke with Jamie Crawford and he said that these wells (MS-GW-16232 through 16235) were used for testing the aquifer to decide if it could support an additional reactor on site. The conclusion at that time was that an additional reactor would require adding surface water usage. I am changing these well permits to a beneficial use of Test Hole so that they will not continue to show up on reports and surveys for your company. Should any of these wells ever be used for any additional purpose beyond that described above, you will need to contact us and have the permits reinstated. Thank you for you assistance in this matter.

Entergy

Entergy Operations, Inc.
P.O. Box 756
Port Gibson, MS 39150
Tel 601 437 2800

GEXO-2011/00367

June 7, 2011

Mr. James L. Crawford, RPG *Assistant Director*
Mississippi Dept. of Environmental Quality
Office of Land and Water Resources
Post Office Box 2309
Jackson, Mississippi 39225-2309

SUBJECT: Grand Gulf Nuclear Station (GGNS)
2010 Water Use Program Survey

Dear Mr. Crawford:

As requested, GGNS has attached the completed *Well Owner Information Sheet* and the *Well Data Form* for 2010 as part of the Mississippi Department of Environmental Quality (MDEQ) Water Use Program.

If you have any questions or comments, please feel free to contact Charles K. Shepphard at (601) 437-7312 or CShepph@Entergy.com.

Sincerely,

Charles K. Shepphard
GGNS, Site Environmental Lead

CKS/JML/cks

Attachment: 2010 Water Use Survey

cc: Mr. Patrick Donahue (K-WPO-12E) w/a
File [CHEM]
File [CENTRAL] [5]

STATE OF MISSISSIPPI
HALEY BARBOUR
GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
TRUDY D. FISHER, EXECUTIVE DIRECTOR

April 15, 2011

Dear Water User,

The Office of Land and Water Resources is conducting its annual water-use survey for the **2010 calendar year** and needs your participation. We would appreciate you taking the time to complete the survey and returning it to us by ~~**May 31, 2011.**~~ June 15 2011 *

Enclosed you will find two forms: (1) a *Well Owner Information Sheet* and (2) a *Well Data Form*.

A *Well Owner Information Sheet* should be completed for your facility. Please note on the form if you are estimating your pumpage.

The *Well Data Form* provides you with a list of all wells that we currently track for your system(s). Please check the well information for accuracy and make any necessary corrections. Also, if you have any wells on your system(s) that are not included on the list, please provide information on them. If your wells are individually metered, assign the pumpage data for each of them in the spaces provided on the form.

Should you have any questions or need any assistance in providing the information, our staff can be contacted by telephone.

Wayne Williams 601-961-5610
or
Celeste Evans 601-961-5215

We are aware of the time and effort it takes to complete this survey and provide the requested water-use information. However, this information is invaluable to us in our efforts to manage the water resources of the state and to project and address future water supply issues. Your cooperation in this matter is much appreciated.

Sincerely,

James L. Crawford, RPG
Assistant Director

* We sent to wrong address initially.

OFFICE OF LAND AND WATER RESOURCES
POST OFFICE BOX 2309 • JACKSON, MISSISSIPPI 39225-2309 • TEL: (601) 961-5200 • FAX: (601) 961-5228 • www.deq.state.ms.us
AN EQUAL OPPORTUNITY EMPLOYER

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF LAND AND WATER RESOURCES
WATER USE PROGRAM

WELL OWNER INFORMATION SHEET

Name of Well Owner ENTERGY OPERATIONS, INC.

Address POST OFFICE BOX 31995

City JACKSON State MS Zip 39213

County HINDS

Phone (601) 368 - 5000 Fax (601) 368 - 5816

How many active and/or standby wells do you have? 8

How many total gallons of water were pumped during the 2010 calendar year (Jan – Dec)?

12,297,833,521 (gal)

Is the pumped total from metered readings or estimates? ☐ Metered ☒ Estimates

Did you purchase any non-potable water? ☐ Yes ☒ No

If so, how many gallons? N/A From? N/A

Name of individual completing this form: CHARLES K. SHEPPHARD

Phone (601) 437 - 7312 E-mail CShepph@Entergy.com

Mail to: Mississippi Department of Environmental Quality
Office of Land and Water Resources
PO Box 2309, Jackson, MS 39225
Fax: 601-961-5228

Mississippi Department of Environmental Quality
Office of Land and Water Resources
Annual Water Use Survey

Return to:
MDEQ - OLWR
P.O. Box 2309
Jackson, Ms 39225-2309

ENTERGY OPERATIONS INC, CLAIBORNE

MDEQ-OLWR Permit Number	Health Dept. Tag Number	County Name	Well Depth	Rated (GPM)	Casing Diameter	Date Drilled	Well Status	Amount Pumped in 2010
MS-GW-00371		CLAIBORNE	128	10000	156	1/1/1979	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	3,679,549,861
MS-GW-02967	0110011-01	CLAIBORNE	152	500	24	9/1/1976	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	57,750
MS-GW-02969		CLAIBORNE	125	10000	192	1/1/1985	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	4,310,784,110
MS-GW-02970		CLAIBORNE	123	10000	156	1/1/1979	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	3,034,807,651
MS-GW-02971		CLAIBORNE	122	10000	156	1/1/1980	**ACTIVE** ☒ Active ☐ Standby ☐ Inactive (will never be put back in service) ☐ Abandoned (plugged per MDEQ regulations)	1,240,231,147

Please correct inaccurate or missing information in the form. Add any wells that are not shown.

Well Status definitions: Active - well in use. Standby - well maintained but only used for emergencies. Inactive - well not maintained but not plugged. Abandoned - well plugged as per MDEQ regulations.

Mississippi Department of Environmental Quality
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MS-GW-14989	0110011-03	CLAIBORNE	162	500	18	8/1/1995	**ACTIVE** [X] Active 16,097,000 [ ] Standby [ ] Inactive (will never be put back in service) [ ] Abandoned (plugged per MDEQ regulations)
MS-GW-15026	0110011-04	CLAIBORNE	163	500	18	1/18/1996	**ACTIVE** [X] Active 16,306,000 [ ] Standby [ ] Inactive (will never be put back in service) [ ] Abandoned (plugged per MDEQ regulations)
MS-GW-16714		CLAIBORNE	155	10000	300		**ACTIVE** [ ] Active 0 [ ] Standby [ ] Inactive (will never be put back in service) [ ] Abandoned (plugged per MDEQ regulations) [X]Currently Under Construction

Please correct inaccurate or missing information in the form. Add any wells that are not shown.

Well Status definitions: Active - well in use. Standby - well maintained but only used for emergencies. Inactive - well not maintained but not plugged. Abandoned - well plugged as per MDEQ regulations.