Attachment 28 to

GNRO-2012/00039

ER Reference - GGNS. 2010e. Grand Gulf Nuclear Station, SARA/Title III 2009 Hazardous Chemical Inventory, Correspondence GEXO-2010/00131. February 26, 2010

Entergy

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

February 26, 2010

Mr. Roderick Devoual, Director
Claiborne County Emergency Planning Committee
P.O. Box 558
Port Gibson, MS 39150

SUBJECT: Grand Gulf Nuclear Station
SARA/Title III 2009
Hazardous Chemical Inventory

GEXO- 2010/ 00131

Dear Mr. Devoual:

We have attached the Grand Gulf Nuclear Station's 2009 Chemical Inventory Forms.

2009 changes:

1. Deleted- Nalco PCL 361
2. Added- Nalco 3D Trasar 3DT121
3. Added- Nalco 73551 Biosurfactant

An electronic copy has been sent to Mississippi Emergency Management Agency (MEMA).

If you have any questions concerning this report, please contact Rosie Bevily, at 601-437-2497.

Sincerely,

Christopher Lewis
Manager, Emergency Preparedness
Grand Gulf Nuclear Station
RWB/JML/rwb

Attachment: Chemical Inventory Forms

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

cc:

Mr. Kelvin Shaifer, Chief w/a
Claiborne County Fire Department
P.O. Box 338
Port Gibson, MS 39150

Mr. J. Goldstein (K-WPO-12E) w/a
Mr. M.J. Larson w/o
Mr. J. R. Douet w/o
Mr. J. G. Browning w/o
Mr. K. Higginbotham w/o
File [CHEM]
File [CENTRAL] [12]

Tier Two Emergency and Hazardous Chemical Inventory
Reporting Period From January 1 to December 31, 2009

Facility Identification

Name: Grand Gulf Nucler Station (GGNS)

Street: 7003 Bald Hill Road

City: Port Gibson County: Claiborne State: MS Zip: 39150

Latitude: Longitude: Country: USA

Owner/Operator Name

Name: Entergy Operations Phone: 601-368-5000

Mail Address: P. O. Box 21995

City: Jackson

State: MS Zip: 39286 Country: USA

Mailing Address (if different from facility address)

Street: P.O. Box 756

City: Port Gibson State: MS Zip: 39150 Country: USA

NAICS Code: 221113 Dun & Brad Number: 61-616-9751

Emergency Contact

Name: Shift Manager Title:

Phone: 24 Hr. Phone: 601-437-2374

Name: Title:

Phone: 24 Hr. Phone:

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☐ Check if all of the information for this chemical is identical to the information submitted last year CAS: Trade Secret ☐ Chem. Name: 3D Trasar 3DT121 Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	05 Max. Daily Amount (code) 05 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	1	4	Chemical Injection Area
			A	1	4	Unit 1 Cooling Tower
			O	1	4	Standby Service Water Basin
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS: 124-38-9 Trade Secret ☐ Chem. Name: Carbon Dioxide Check All That Apply: ☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	A	2	6	Protected Fenced Area

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 10, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Richard Scarbrough / Chemistry Manager — Name and official title of owner/operator OR owner/operator's authorized representative

Signature

2/25/2010 — Date signed

Optional Attachments

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguards measures

Facility Name: Grand Gulf Nucler Station (GGNS) **Tier Two Continuation Page**

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 7440-44-0 Trade Secret ☐ Chem. Name Charcoal (Activated Carbon) Check All That Apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	1	6	Unit 1 Radwaste Building
			D	1	4	Protected Fenced Area
			D	2	4	Unit 1 Warehouse
			C	2	4	Water Treatment Building
			C	2	4	Ionics Trailer
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 7782-50-5 Trade Secret ☐ Chem. Name Chlorine Check All That Apply: ☒ Pure ☐ Mix ☐ Solid ☐ Liquid ☒ Gas ☒ EHS	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	02 Max. Daily Amount (code) 02 Avg. Daily Amount (code) 365 No. of Days On-site (days)	L	2	4	Sewage Treatment Plant
			L	2	4	Site (Potable) Water Plant
			L	2	4	Utility Group Maintenance Bldg
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 68476-34-6 Trade Secret ☐ Chem. Name Diesel Fuel OIL # 2 Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	06 Max. Daily Amount (code) 06 Avg. Daily Amount (code) 365 No. of Days On-site (days)	B	1	4	Unit I Diesel Generator Tanks
			B	1	4	Energy Services Center (ESC)
			A	1	4	Vehicle Maintenance Shop
			A	1	4	Protected Fenced Area
			A	1	4	Plant Site Area
Additional storage locations for Diesel Fuel OIL # 2			C	1	4	Fire Water Pump House
			C	1	4	Unit I Diesel Generator Day Tanks

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 107-21-1 Trade Secret ☐ Chem. Name Ethylene Glycol Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	2	6	Unit 1 Radwaste Building
			D	1	4	Unit 1 Warehouse Chemical Storage Area
			E	1	4	Vehicle Maintenance Shop
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 57018-52-7 Trade Secret ☐ Chem. Name Fire Fighting Foam (Propylene Glycol T-Butyl Ether) Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	P	1	4	Various Plant Locations
			D	1	4	Unit 2 Warehouse
			R	1	4	Unit 1 Auxiliary Building
			R	1	4	Unit 1 Containment Building
			R	1	4	Unit 1 Radwaste Building
Additional storage locations for Fire Fighting Foam (Propylene Glycol T-Butyl Ether)			R	1	4	Unit 1 Turbine Building
			R	1	4	Unit 2 Turbine Building
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 75-69-4 Trade Secret ☐ Chem. Name Freon Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☐ Liquid ☒ Gas ☐ EHS	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	L	2	4	Various Plant Locations

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 8006-61-9 Trade Secret ☐ Chem. Name Gasoline Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	A	1	4	Various Plant Locations
			P	1	4	Various Plant Locations
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 25155-23-1 Trade Secret ☐ Chem. Name Hydraulic Fluid Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	1	4	Unit 1 Turbine Building
			D	1	4	Unit 1 Warehouse Chemical Storage Area
			R	1	4	Unit 1 Containment Building
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 115-86-6 Trade Secret ☐ Chem. Name Hydraulic Fluid Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	1	4	Unit 1 Turbine Building
			D	1	4	Unit 1 Warehouse Chemical Storage Area
			R	1	4	Unit 1 Containment Building
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 1333-74-0 Trade Secret ☐ Chem. Name Hydrogen Check All That Apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS	☒ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	03 Max. Daily Amount (code) 03 Avg. Daily Amount (code) 365 No. of Days On-site (days)	L	2	4	Various Plant Locations
			A	2	7	Hydrogen Tank Farm

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 69011-18-3 Trade Secret ☐ Chem. Name Ion Exchange Resin (Anion) Check All That Apply ☐ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	05 Max. Daily Amount (code) 05 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	2	5	Unit 1 Turbine Building
			C	2	5	Unit 1 Radwaste Building
			C	2	5	Unit 1 Auxiliary Building
			C	2	5	Unit 1 Containment Building
			L	2	4	Ionics Trailer
Additional storage locations for Ion Exchange Resin (Anion)			I	1	4	Unit 1 Warehouse
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 69011-20-7 Trade Secret ☐ Chem. Name Ion Exchange resin (Cation) Check All That Apply ☐ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	05 Max. Daily Amount (code) 05 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	2	5	Unit 1 Turbine Building
			C	2	5	Unit 1 Radwaste Building
			C	2	5	Unit 1 Auxiliary Building
			C	2	5	Unit 1 Containment Building
			L	2	4	Ionics Trailer
Additional storage locations for Ion Exchange resin (Cation)			I	1	4	Unit 1 Warehouse

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 64742-54-7 Trade Secret ☐ Chem. Name Lubricating Oil Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	05 Max. Daily Amount (code) 05 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	1	4	Vehicle Maintenance Shop
			D	1	4	Unit 1 Warehouse Chemical Storage Area
			D	1	4	Vehicle Maintenance Shop
			D	1	4	Various Plant Locations
			A	1	4	East Plant Yard
Additional storage locations for Lubricating Oil			C	1	5	Unit 1 Turbine Building
			C	1	5	Unit I Diesel Generator Building
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 111-30-8 Trade Secret ☐ Chem. Name Nalco 7338 Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 03 Avg. Daily Amount (code) 365 No. of Days On-site (days)	O	1	4	Standby Service Water Basin
			O	1	4	Unit 2 Warehouse
			O	1	4	Chemical Injection Area
☐ Check if all of the information for this chemical is identical to the information submitted last year CAS Trade Secret ☐ Chem. Name Nalco 73551 Biosurfactant Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	A	1	4	Unit 1 Cooling Tower
			O	1	4	Standby Service Water Basin

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 2809-21-4 Trade Secret ☐ Chem. Name Nalco Sure -Cool 1393 Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	1	4	Chemical Injection Area
			O	1	4	Unit 1 Cooling Tower
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 7727-37-9 Trade Secret ☐ Chem. Name Nitrogen Check All That Apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS	☐ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	A	2	7	Hydrogen Tank Farm
			L	2	4	Various Plant Locations
			A	2	7	Protected Fenced Area
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 7782-44-7 Trade Secret ☐ Chem. Name Oxygen Check All That Apply: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☒ Gas ☐ EHS	☒ Fire ☒ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	A	2	7	Hydrogen Tank Farm
			L	2	4	Various Plant Locations
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 12182-56-8 Trade Secret ☐ Chem. Name Sand Blast Grit Check All That Apply: ☐ Pure ☒ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	J	1	4	Unit 1 Warehouse
			J	1	4	Various Plant Locations

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 7631-90-5 Trade Secret ☐ Chem. Name Sodium Bisulfite Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	O	1	4	Chemical Injection Area
			O	1	4	Standby Service Water Basin
			O	1	4	Unit 1 Cooling Tower
			A	1	4	Unit 1 Cooling Tower
			O	1	4	Sewage Treatment Plant
Additional storage locations for Sodium Bisulfite			E	1	4	Unit 2 Warehouse
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 7647-14-5 Trade Secret ☐ Chem. Name Sodium Chloride (Salt) Check All That Apply: ☒ Pure ☐ Mix ☒ Solid ☐ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☐ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	A	1	4	Site [Potable] Water
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 1310-73-2 Trade Secret ☐ Chem. Name Sodium Hydroxide (50%) Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	05 Max. Daily Amount (code) 05 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	1	4	Water Treatment Building
			E	1	4	Unit 1 Warehouse Chemical Storage Area

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☐ Check if all of the information for this chemical is identical to the information submitted last year CAS 7681-52-9 Trade Secret ☐ Chem. Name Sodium Hypochlorite (12.5%) Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	C	1	4	Chemical Injection Area
			C	1	4	Unit 1 Cooling Tower
			O	1	4	Chemical Injection Area
			O	1	4	Unit 1 Cooling Tower
			A	1	4	Unit 1 Cooling Tower
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 7664-93-9 Trade Secret ☐ Chem. Name Sulfuric Acid Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☒ EHS	☐ Fire ☐ Sudden Release of Pressure ☒ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	06 Max. Daily Amount (code) 06 Avg. Daily Amount (code) 365 No. of Days On-site (days)	A	1	4	Unit 1 Cooling Tower
			A	1	4	Protected Fenced Area
			E	1	4	Standby Service Water Basin
			E	1	4	Unit 1 Warehouse Chemical Storage Area
			R	1	4	Unit 1 Warehouse
Additional storage locations for Sulfuric Acid			R	1	4	Various Plant Locations
			O	1	4	Standby Service Water Basin
			E	1	4	Unit 2 Warehouse
			O	1	4	Unit 2 Warehouse
			E	1	4	Energy Services Center
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 64742-53-6 Trade Secret ☐ Chem. Name Transformer Oil Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☒ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☐ Immediate (acute) ☒ Delayed (chronic)	06 Max. Daily Amount (code) 06 Avg. Daily Amount (code) 365 No. of Days On-site (days)	R	2	5	Various Plant Locations
			D	1	4	Unit 1 Warehouse Chemical Storage Area

Facility Name: Grand Gulf Nucler Station (GGNS) **Tier Two Continuation Page**

Chemical Description	Physical and Heath Hazards	Inventory	Container Type	Pressure	Temperature	Storage Codes and Locations (Non-Confidential)
☒ Check if all of the information for this chemical is identical to the information submitted last year CAS 7646-85-7 Trade Secret ☐ Chem. Name Zinc Chloride (Nalco 7384) Check All That Apply: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas ☐ EHS	☐ Fire ☐ Sudden Release of Pressure ☐ Reactivity ☒ Immediate (acute) ☒ Delayed (chronic)	04 Max. Daily Amount (code) 04 Avg. Daily Amount (code) 365 No. of Days On-site (days)	O	1	4	Unit 2 Warehouse
			O	1	4	Standby Service Water Basin
			O	1	4	Unit 1 Cooling Tower
			A	1	4	Unit 1 Cooling Tower