



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

September 30, 2009

James R. Douet, Vice President of Operations
Grand Gulf Nuclear Station
Entergy Operations, Inc.
P.O. Box 756
Port Gibson, MS 39150

SUBJECT: GRAND GULF NUCLEAR STATION - NRC RADIATION SAFETY TEAM
INSPECTION REPORT 05000416/2009009

Dear Mr. Douet:

On August 21, 2009, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Grand Gulf Nuclear Station. The enclosed report documents the inspection findings, which were discussed at the conclusion of the inspection with you and other members of your staff.

The team reviewed selected procedures and records, observed activities, and interviewed personnel. Specifically, the team evaluated the inspection areas within the Radiation Protection Strategic Performance Area that are scheduled for review every two years. These areas are:

- Radiation Monitoring Instrumentation
- Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems
- Radioactive Material Processing and Transportation
- Radiological Environmental Monitoring Program and Radioactive Material Control Program

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Gregory E. Werner, Chief
Plant Support Branch 2
Division of Reactor Safety

Docket: 50-416

License: NPF-29

Enclosure:

NRC Inspection Report 05000416/2009009

w/Attachment: Supplemental Information

cc w/enclosure:

Senior Vice President

Entergy Nuclear Operations

P.O. Box 31995

Jackson, MS 39286-1995

Senior Vice President and COO

Entergy Operations, Inc.

P.O. Box 31995

Jackson, MS 39286-1995

Vice President, Oversight

Entergy Services, Inc.

P.O. Box 31995

Jackson, MS 39286-1995

Chief, Energy and Transportation Branch

Environmental Compliance and

Enforcement Division

Mississippi Department of

Environmental Quality

P.O. Box 2249

Jackson, MS 39225-2249

President

Claiborne County

Board of Supervisors

510 Market Street

Port Gibson, MS 39150

Senior Manager

Nuclear Safety & Licensing

Entergy Nuclear Operations

P.O. Box 31995

Jackson, MS 39286-1995

Grand Gulf Nuclear Station

- 3 -

Manager, Licensing
Entergy Operations, Inc.
Grand Gulf Nuclear Station
P.O. Box 756
Port Gibson, MS 39150

Attorney General
Department of Justice
State of Louisiana
P.O. Box 94005
Baton Rouge, LA 70804-9005

Office of the Governor
State of Mississippi
P.O. Box 139
Jackson, MS 39205

Attorney General
Assistant Attorney General
State of Mississippi
P.O. Box 220
Jackson, MS 39205

State Health Officer
State Health Board
P.O. Box 1700
Jackson, MS 39215

Associate General Counsel
Entergy Nuclear Operations
P.O. Box 31995
Jackson, MS 39286-1995

Louisiana Dept. of Environmental Quality
Radiological Emergency Planning and
Response Division
P.O. Box 4312
Baton Rouge, LA 70821-4312

Chief, Technological Hazards
Branch
FEMA Region VI
800 North Loop 288
Federal Regional Center
Denton, TX 76209

Electronic distribution by RIV:
 Regional Administrator (Elmo.Collins@nrc.gov)
 Deputy Regional Administrator (Chuck.Casto@nrc.gov)
 DRP Director (Dwight.Chamberlain@nrc.gov)
 DRP Deputy Director (Anton.Vegel@nrc.gov)
 DRS Director (Roy.Caniano@nrc.gov)
 DRS Deputy Director (Troy.Pruett@nrc.gov)
 Senior Resident Inspector (Rich.Smith@nrc.gov)
 Resident Inspector (Andy.Barrett@nrc.gov)
 Branch Chief, DRP/C (Geoffrey.Miller@nrc.gov)
 Senior Project Engineer, DRP/C (David.Proulx@nrc.gov)
 GG Site Secretary (Nancy.Spivey@nrc.gov)
 Public Affairs Officer (Victor.Dricks@nrc.gov)
 Team Leader, DRP/TSS (Chuck.Paulk@nrc.gov)
 RITS Coordinator (Marisa.Herrera@nrc.gov)
 Regional Counsel (Karla.Fuller@nrc.gov)
 Congressional Affairs Officer (Jenny.Weil@nrc.gov)
 OEmail Resource
 DRS STA (Dale.Powers@nrc.gov)
 OEDO RIV Coordinator (Leigh.Trocine@nrc.gov)

File located: R:\ Reactors\ GG\2009\GG 2009-009

SUNSI Rev Compl.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ADAMS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Reviewer Initials	LCC
Publicly Available	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sensitive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sens. Type Initials	LCC
RIV:DRS/PSB2	PSB2	PSB2	PSB2	C:PSB2	
LCCarsonII	LTRicketson	GMVazquez	DLStearns	GEWerner	
/RA/	/RA/	/RA/	/RA/	/RA/	
9/24/09	9/28/09	9/28/09	9/25/09	9/29/09	
C:DRP/PBC	C:PSB2				
GMiller	GEWerner				
/RA/	/RA/				
9/29/09	9/30/09				

OFFICIAL RECORD COPY T=Telephone E=E-mail F=Fax

**U.S. NUCLEAR REGULATORY COMMISSION
REGION IV**

Dockets: 50-416
Licenses: NPF-29
Report: 05000416/2009009
Licensee: Entergy Operations, Inc
Facility: Grand Gulf Nuclear Station
Location: Waterloo Road
Port Gibson, Mississippi 39150
Dates: August 17 through 21, 2009
Inspectors: Louis C. Carson II, Senior Health Physicist and Team Leader
Larry T. Ricketson, P.E., Senior Health Physicist
Donald L. Stearns, Health Physicist
G. Michael Vasquez, Health Physicist
Accompanied By: Casey C. Alldredge, Health Physicist (NSPDP)
Approved By: Gregory E. Werner, Chief
Plant Support Branch 2
Division of Reactor Safety

SUMMARY OF FINDINGS

IR 05000416/2009007; 08/17/2009 - 08/21/2007; Grand Gulf Nuclear Station; Radiation Safety Team Inspection

The report covered a one-week period of onsite inspections by a team of four region-based health physics inspectors. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

A. NRC-Identified and Self-Revealing Findings

No findings of significance were identified.

B. Licensee-Identified Violations

None

Report Details

2. RADIATION SAFETY

Cornerstones: Occupational Radiation Safety [OS] and Public Radiation Safety [PS]

2OS3 Radiation Monitoring Instrumentation and Protective Equipment (71121.03)

a. Inspection Scope

This area was inspected to determine the accuracy and operability of radiation monitoring instruments that are used for the protection of occupational workers and the adequacy of the program to provide self-contained breathing apparatus to workers. The team used the requirements in 10 CFR Part 20 and the licensee's procedures required by technical specifications as criteria for determining compliance. The team interviewed licensee personnel and reviewed:

- Calibration of area radiation monitors associated with transient high and very high radiation areas and post-accident monitors used for remote emergency assessment;
- Calibration of portable radiation detection instrumentation, electronic alarming dosimetry, and continuous air monitors used for job coverage;
- Calibration of whole body counting equipment and radiation detection instruments utilized for personnel and material release from the radiologically controlled area;
- Audits and self-assessments; licensee event reports or special reports, if any were required since the previous inspection;
- Corrective action program reports since the last inspection;
- Licensee action in cases of repetitive deficiencies or significant individual deficiencies;
- Calibration expiration and source response check currency on radiation detection instruments staged for use;
- The licensee's capability for refilling and transporting self-contained breathing apparatus air bottles to and from the control room and operations support center during emergency conditions, status of self-contained breathing apparatus staged and ready for use in the plant and associated surveillance records, and personnel qualification and training;

- Qualification documentation for onsite personnel designated to perform maintenance on the vendor-designated vital components, and the vital component maintenance records for self-contained breathing apparatus units;

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Licensee event reports or special reports

Specific documents reviewed during this inspection are listed in the attachment.

These activities constitute completion of nine of the required nine samples, as defined in Inspection Procedure 71121.03-05.

b. Findings

No findings of significance were identified.

2PS1 Radioactive Gaseous And Liquid Effluent Treatment And Monitoring Systems (71122.01)

a. Inspection Scope

This area was inspected to: (1) ensure that the gaseous and liquid effluent processing systems are maintained so that radiological discharges are properly mitigated, monitored, and evaluated with respect to public exposure; (2) ensure that abnormal radioactive gaseous or liquid discharges and conditions, when effluent radiation monitors are out-of-service, are controlled in accordance with the applicable regulatory requirements and licensee procedures; (3) verify that the licensee's quality control program ensures that the radioactive effluent sampling and analysis requirements are satisfied so that discharges of radioactive materials are adequately quantified and evaluated; and (4) verify the adequacy of public dose projections resulting from radioactive effluent discharges. The team used the requirements in 10 CFR Part 20; 10 CFR Part 50, Appendices A and I; 40 CFR Part 190; the Offsite Dose Calculation Manual, and licensee procedures required by the Technical Specifications as criteria for determining compliance.

The team conducted in-office inspection and reviewed:

- Appropriate program documents, procedures and evaluations related to the radiological effluent controls program listed in the attachment to this report;
- The implementation of the Radiological Effluent Controls Program requirements as described in Radiological Effluent Technical Specifications;

- Changes, if any, to the liquid or gaseous radioactive waste system design, procedures, or operation as described in the Updated Final Safety Analysis Report;
- Changes, if any, to the Office of Dose Calculation Manual made by the licensee since the last inspection;
- The annual effluent release reports since the previous inspection;
- The correlation between the effluent doses and the environmental monitoring results.

The team conducted an onsite inspection which included interviewing cognizant licensee personnel, performing walkdowns of facilities and equipment, and observing licensee activities to review:

- The gaseous and liquid discharge system configuration;
- Selected point of discharge effluent radiation monitoring systems and flow measurement devices;
- The observation of selected portions of the routine processing and discharge of radioactive gaseous and liquid effluent (sample collection and analysis) including a selection of radioactive gaseous and liquid waste effluent discharge permits;
- Effluent discharges made with inoperable (declared out-of-service) effluent radiation monitors including the projected doses to members of the public;
- Surveillance test results on nonsafety related ventilation and gaseous discharge systems (high efficiency particulate air and charcoal filtration) including the methodology to determine the stack and vent flow rates;
- The identification of nonradioactive systems that have become contaminated, if applicable;
- Effluent monitoring instrument (installed and counting room) maintenance, quality control, and calibration;
- The methods used to determine the isotopes in the plant source term;
- A selection of monthly, quarterly, and annual dose calculations;
- Records of abnormal gaseous or liquid discharges, if any, including the evaluation and analysis of events involving spills or discharges, dose assessments to members of the public, required (or voluntary) offsite

notifications, and assessments and reporting of abnormal discharges in the Annual Radiological Effluent Release Report;

- Effluent sampling records.

The team reviewed the licensee's program of problem identification and resolution, including:

- Placement of problems identified through audits, self assessments, and monitoring results into the corrective action program and adequacy of immediate and long term corrective actions;
- Problem identification and resolution follow-up activities;
- Identification of repetitive deficiencies or significant individual deficiencies in problem identification and resolution identified by the licensee's self-assessment activities.

Specific documents reviewed during this inspection are listed in the attachment.

These activities constitute completion of three of the required three samples, as defined in Inspection Procedure 71122.01-05.

b. Findings

No findings of significance were identified.

2PS2 Radioactive Material Processing and Transportation (71122.02)

a. Inspection Scope

This area was inspected to verify that the licensee's radioactive material processing and transportation program complies with the requirements of 10 CFR Parts 20, 61, and 71 and Department of Transportation regulations contained in 49 CFR Parts 171-180. The team interviewed licensee personnel and reviewed:

- The radioactive waste system description, recent radiological effluent release reports, and the scope of the licensee's audit program;
- Liquid and solid radioactive waste processing systems configurations, the status and control of any radioactive waste process equipment that is not operational or is abandoned in place, changes made to the radioactive waste processing systems since the last inspection, and current processes for transferring radioactive waste resin and sludge discharges;
- Radiochemical sample analysis results for radioactive waste streams and use of scaling factors and calculations to account for difficult-to-measure radionuclides;

- Shipment packaging, surveying, labeling, marking, placarding, vehicle checking, driver instructing, and disposal manifesting;
- Shipping records for nonexcepted package shipments;
- Audits and self-assessments, licensee event reports, special reports, audits, and state agency reports, if any were required since the previous inspection.

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Licensee event reports or special reports

Specific documents reviewed during this inspection are listed in the attachment.

These activities constitute completion of six of the required six samples, as defined in Inspection Procedure 71122.02-05.

b. Findings

No findings of significance were identified.

2PS3 Radiological Environmental Monitoring Program and Radioactive Material Control Program (71122.03)

a. Inspection Scope

This area was inspected to ensure that the radiological environmental monitoring program verifies the impact of radioactive effluent releases to the environment and sufficiently validates the integrity of the radioactive gaseous and liquid effluent release program; and that the licensee's surveys and controls are adequate to prevent the inadvertent release of licensed materials into the public domain. The team used the requirements in 10 CFR Part 20, Appendix I of 10 CFR Part 50, the Offsite Dose Calculation Manual, and the licensee's procedures required by technical specifications as criteria for determining compliance. The team interviewed licensee personnel and reviewed:

- Annual environmental monitoring reports and licensee event reports, if any were required since the previous inspection;
- Selected air sampling and thermoluminescence dosimeter monitoring stations;
- Collection and preparation of environmental samples;
- Operability, calibration, and maintenance of meteorological instruments;

- Each event, if any, documented in the Annual Environmental Monitoring Report which involved a missed sample, inoperable sampler, lost thermoluminescence dosimeter, or anomalous measurement;
- Significant changes, if any, made by the licensee to the Offsite Dose Calculation Manual as the result of changes to the land census or sampler station modifications since the last inspection;
- Calibration and maintenance records for air samplers, composite water samplers, and environmental sample radiation measurement instrumentation, quality control program, interlaboratory comparison program results, and vendor audits;
- Locations where the licensee monitors potentially contaminated material leaving the radiological controlled area [or controlled access area] and the methods used for control, survey, and release from these areas;
- Type of radiation monitoring instrumentation used to monitor items released, survey and release criteria of potentially contaminated material, radiation detection sensitivities, procedural guidance, and material release records;
- Audits, self-assessments, corrective action documents and licensee event reports or special reports, if any were required, since the previous inspection.

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Licensee event reports or special reports

Specific documents reviewed during this inspection are listed in the attachment.

These activities constitute completion of ten of the required ten samples, as defined in Inspection Procedure 71122.03-05.

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES

4OA2 Problem Identification and Resolution

Annual Sample Review

a. Inspection Scope

The team evaluated the effectiveness of the licensee's problem identification and resolution process with respect to the following inspection areas:

- Radiation Monitoring Instrumentation; (Section 2OS3)
- Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems; (Section 2PS1)
- Radioactive Material Processing and Transportation; (Section 2PS2)
- Radiological Environmental Monitoring Program and Radioactive Material Control Program. (Section 2PS3)

b. Findings and Observations

No findings of significance were identified.

40A5 Other Activities

.1 (Closed) Temporary Instruction 2515/173, "Review of the Implementation of the Industry Groundwater Protection Voluntary Initiative"

a. Inspection Scope

An NRC assessment was performed of the licensee's groundwater protection program to determine whether the licensee implemented the voluntary Industry Groundwater Protection Initiative, dated August 2007 (Nuclear Energy Institute 07-07, ADAMS Accession Number ML072610036). Inspectors interviewed personnel, performed walk-downs of selected areas, and reviewed the following items:

- Records of the site characterization of geology and hydrology;
- Evaluations of systems, structures, and or components that contain or could contain licensed material and evaluations of work practices that involve licensed material for which there is a credible mechanism for the licensed material to reach the groundwater;
- Implementation of an onsite groundwater monitoring program to monitor for potential licensed radioactive leakage into groundwater;
- Procedures for the decision making process for potential remediation of leaks and spills, including consideration of the long term decommissioning impacts;
- Records of leaks and spills recorded, if any, in the licensee's decommissioning files in accordance with 10 CFR 50.75(g);
- Licensee briefings of local and state officials on the licensee's groundwater protection initiative;

- Protocols for notification to the local and state officials, and to the NRC regarding detection of leaks and spills;
- Protocols and/or procedures for thirty day reports if an onsite groundwater sample exceeds the criteria in the radiological environmental monitoring program;
- Groundwater monitoring results as reported in the annual effluent and/or environmental monitoring report;
- Licensee and industry assessments of implementation of the groundwater protection initiative.

b. Findings

No findings of significance were identified. Implementation of the Industry Groundwater Protection Initiative is voluntary. Under the final initiative, each site was to have developed an effective, technically sound groundwater protection program by August 2008. The licensee's corporate office completed the Entergy fleet self-assessment of the initiative on August 25, 2008. The licensee had addressed most of the audit findings. However, according to the Entergy self-assessment, the licensee "needs to upgrade it's site specific hydrogeological evaluations to better define groundwater flow characteristics and gradients." The inspection team found the licensee had not performed a new hydrogeologic study to determine the predominant ground water flow characteristics and gradient. The licensee initiated Condition Report GGN-2009-01611 on March 26, 2009, to address the corporate audit findings.

40A6 Management Meetings

Exit Meeting Summary

On September 21, 2009, the team presented the inspection results to R. Douet, Vice President, Operations, and other members of his staff who acknowledged the findings. The team confirmed that proprietary information was not provided or examined during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

D. Barfield, Director, Engineering
R. Benson, Supervisor, Radioactive Waste
E. Blush, Radiochemist
R. Brevily, Health Physicist/Chemistry Specialist
M. Causey, Maintenance Rule Engineer
D. Coulter, Licensing Specialist
R. Douet, Vice President, Operations
A. Fox, Systems Engineer, System Engineering
J. Hagood, Senior Health Physicist, Radiation Protection
D. Jackson, Health Physicist/Chemistry Specialist
M. Krupa, Director, Nuclear Safety and Assurance
M. Larson, Senior Licensing Specialist
M. Larson, Senior Licensing Specialist
J. Lassetter, Supervisor, Chemistry
C. Mason, Quality Assurance Auditor
J. McClure, Radiochemist
S. Osborn, Licensing
C. Perino, Licensing Manager
P. Rescheske, Senior Licensing Specialist
F. Rosser, Supervisor, Radiation Protection
R. Scarbrough, Superintendent, Chemistry
P. Stokes, Radiation Protection Specialist
W. Trichell, Radiation Protection Manager
J. Watts, Radiation Protection Specialist
M. Withrow, Supervisor, Reactor Engineering
E. Wright, ALARA Specialist, Radiation Protection

NRC

R. Smith, Senior Resident Inspector

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened and Closed During this Inspection

None

Previous Items Closed

None

Previous Items Discussed

None

LIST OF DOCUMENTS REVIEWED

Section 2OS3: Radiation Monitoring Instrumentation and Protective Equipment (IP71121.03)

AUDITS AND SELF-ASSESSMENTS

2007 Respiratory Protection Focused Self Assessment

December, 2007

PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
EN-RP-121	Radioactive Material Control	4
EN-RP-143	Source Control	4
EN-RP-303	Source Checking of Radiation Protection Instrumentation	2
EN-RP-306	Calibration and Operation of the Eberline PM-7	2
EN-RP-307	Operation and Calibration of the Eberline Personnel Contamination Monitors	1
EN-RP-308	Operation and Calibration of Gamma Scintillation Tool Monitors	3
EN-RP-501	Respiratory Protection Program	3
EN-RP-502	Inspection and Maintenance of Respiratory Protection Equipment	4
EN-RP-503	Selection, Issue, and Use of Respiratory Equipment	5
EN-RP-504	Breathing Air	2
EN-RP-301	Radiation Protection Instrument Control	0
08-S-10-02	Calibration of Portable Area Radiation Monitors,	3
08-S-07-83	Operation and Calibration of the ND-9000 Whole Body Counter	8
08-S-10-04	Calibration of Portable Dose Rate Instrument	4
06-IC-1D21-R-1002	Containment/Drywell High Range Area Radiation Monitor,	105
06-IC-1D17-A-0013	GE Radioactive Gaseous Effluent Monitor	105
06-IC-SD17-A-1024	Liquid Radwaste Effluents Radiation Monitor Calibration,	102
06-IC-SG17-R-1001	Liquid Radwaste Effluent Flow Calibration	100
07-S-53-D21-1	Area Radiation Monitors Loop Calibration	16
06-1C-SD17-A-1026	Accident Range Monitor AXM-1 Calibration	107

EFFLUENT MONITOR CALIBRATIONS

<u>CHANNEL NO.</u>	<u>MONITOR DESCRIPTION</u>	<u>WORK ORDER PACKAGE</u>	<u>DATE</u>
D17-A-1023	Component Cooling Water System Radiation Monitor	51675031	03/12/2009
D17-A-1026-02	Offgas & Radwaste Vent Radiation Monitor (AXM-1)	51803346	07/01/2009
D17-A-1026-03	Fuel Handling Area Vent Radiation Monitor	51699148	05/28/2009
D17-A-1026-04	Turbine Building Vent Monitor	51646847	08/27/2009

AREA MONITOR CALIBRATIONS

<u>CHANNEL NO.</u>	<u>MONITOR DESCRIPTION</u>	<u>WORK ORDER PACKAGE</u>	<u>DATE</u>
D21-R-1001	Control Room Range Radiation Monitor	5169789	04/14/2009
D21-R-1002-B	Containment/Drywell High Range Radiation Monitor	5169522	08/17/2009
D21-R-1003-A	Fuel Pool Sweep Radiation Monitor	0011885501	5/09/2008
D21-K-0605	TIP Mechanism Radiation Monitor	00118857-01	5/09/2008

RADIATION PROTECTION INSTRUMENTATION CALIBRATIONS

<u>IDENTIFICATION NO.</u>	<u>INSTRUMENT TYPE</u>	<u>CALIBRATION TYPE</u>
5097-073	AMP-100 Area Radiation Monitor	08/29/2007
CHP-ARM101	AMP-100 Area Radiation Monitor	04/13/2009
HP-DR-481	RO-20 Dose Rate Meter	08/19/2009
96-9508	Whole Body Counter	08/13/2009

CONDITION REPORTS (CR)

GGN-2007-04587	GGN-2007-04899	GGN-2007-05188	GGN-2007-05500	GGN-2007-05531
GGN-2007-05767	GGN-2007-05768	GGN-2007-05919	GGN-2008-00276	GGN-2008-00803
GGN-2008-01529	GGN-2008-02364	GGN-2008-03325	GGN-2008-03663	GGN-2008-04936
GGN-2008-05602	GGN-2008-06156	GGN-2008-07078	GGN-2009-00047	HQN-2009-00193
HQN-2009-00253	HQN-2009-00749	GGN-2009-02449	GGN-2009-02615	GGN-2009-02918

MISCELLANEOUS DOCUMENTS

Radiation Source Verification Log 10/17/2009
Model 89 400 Curie Cs-137 Source Calibration 05/12/2008

Section 2PS1: Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems (IP71122.01)

PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
06-CH-1000-M-0049	Effluent Dose Calculations	104
06-CH-SG17-P-0041	Radwaste Release Pre-Release Analysis	106
06-CH-SG17-O-0045	Radwaste Release Post-Release Calculations	102
06-CH-1000-M-0059	31-Day Dose Projection	102
06-CH-ID17-W-0017	Gaseous Release Points Iodine, Tritium and Particulates	106
06-ME-1T48-R-0005	In-Place Testing of Standby Gas Treatment Filtration System	105
06-ME-1Z51-R-0006	In-Place Testing of Control Room Emergency Filtration System	107

AUDITS, SELF-ASSESSMENTS, AND SURVEILLANCES

<u>NUMBER</u>	<u>TITLE</u>	<u>DATE</u>
GLO-2008-0009	Chemistry Assessment for Public Radiation Performance Indicator (PR01)	February, 08
GLO-2009-00062	Radiological Effluent Technical Specifications (RETS) /Radiological Environmental Monitoring Program (REMP)	June, 09

CONDITION REPORTS (CR)

GGN-2007-04587	GGN-2007-04652	GGN-2007-04843	GGN-2007-05746
GGN-2007-05768	GGN-2008-00318	GGN-2008-00502	GGN-2008-01248
GGN-2008-01529	GGN-2008-02855	GGN-2008-03325	CGN-2008-03929
GGN-2008-01410	GGN-2008-04198	CGN-2008-06268	CGN-2008-06275
GGN-2008-06571	CGN-2008-06888	CGN-2009-00047	

RELEASE PERMITS

<u>NUMBER</u>	<u>TITLE</u>	<u>DATE</u>
2008061	Gaseous Release, Turbine Building	7/15/08
2008130	Gaseous Release, Fuel Handling Area	12/19/08
2008244	Gaseous Release, Turbine Building	9/28/08
2009014	Liquid Release, EDST-A	2/12/09
2009057	Liquid Release, FDST-A	3/10/09

MISCELLANEOUS

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION / DATE</u>
51548166-01	Biannual Land Use Census	5/12/08
51687534-01	Surveillance Procedure, In-Place Testing of Standby Gas Treatment Filtration System	8/06/09
51797847-01	Surveillance Procedure, In-Place Testing of Standby Gas Treatment Filtration System	6/16/09
	Radiation Protection Standards and Expectations	Rev 44
	2008 Annual Radioactive Effluent Release Report	
	2007 Annual Radioactive Effluent Release Report	

Section 2PS2: Radioactive Material Processing and Transportation (IP71122.02)

PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION / DATE</u>
EN-RW-102	Radioactive Shipping Procedure	6
EN-RW-104	Scaling Factors	5
01-S-08-22	Operating Guidelines for the Use of Polyethylene High Integrity Containers	5
08-S-06-71	Sampling Procedures for Waste Classification	7
08-S-07-76	Cask Handling for the 10-142 Cask	10

AUDITS, SELF-ASSESSMENTS, AND SURVEILLANCES

<u>NUMBER</u>	<u>TITLE</u>	<u>DATE</u>
QA-15-2007-GGNS-1/	Radwaste/Radiation Protection Quality Assurance Audit	10/22/07 –
QA-14-2007-GGNS-2	Report	2/22/08
LO # GLO-2009-0059	2009-RP Focused Assessment Radioactive Material Processing and Transportation	May 18 – 21, 2009

NUCLEAR PROCUREMENT ISSUES COMMITTEE AUDITS

<u>NUMBER</u>	<u>TITLE</u>	<u>DATE</u>
20127	WMG, Inc.	7/21/09 – 7/25/08

CONDITION REPORTS

GGN-2007-05274 GGN-2008-00023 GGN-2008-1003 GGN-2008-06174

RADIOACTIVE MATERIAL SHIPMENTS

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION / DATE</u>
2007-0901	LSA-II – Waste Class B	9/04/07
2007-0902	Type B Package – Waste Class C	9/27/07
2007-1005	Type B Package – Waste Class C	10/11/07
2007-1008	Type B Package – Waste Class C	10/22/07
2007-1015	Type B Package – Waste Class C	10/30/07

MISCELLANEOUS

<u>TITLE</u>	<u>DATE</u>
Waste Stream Sampling Analysis	2007
Waste Stream Sampling Analysis	2008
Radioactive Waste Packaging, Shipping and Disposal Training	2008
Radwaste Shipper Qualifications	

Section 2PS3: Radiological Environmental Monitoring Program and Radioactive Material Control Program (IP71122.03)

CONDITION REPORTS (CR)

GGN-2007-04618	GGN-2007-05197	GGN-2007-05696	GGN-2008-00201	GGN-2008-00611
GGN-2008-00854	GGN-2008-02513	GGN-2008-02613	GGN-2008-02653	GGN-2008-02836
GGN-2008-02934	GGN-2008-04377	GGN-2008-04897	GGN-2008-04936	GGN-2008-05052
GGN-2009-01447	GGN-2009-01581	HQN-2007-00894	HQN-2008-00097	HQN-2008-00191
HQN-2008-00552	HQN-2008-00954	HQN-2009-00431		

PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
EN-CY-102	Laboratory Analytical Quality Control	1
EN-EV-116	Radiological Environmental Analytical Services	2
EN-RP-108	Radiation Protection Posting	7
EN-RP-121	Radioactive Material Control	4
EN-RP-143	Source Control	1

AUDITS, SELF-ASSESSMENTS, AND SURVEILLANCES

<u>NUMBER</u>	<u>TITLE</u>	<u>DATE</u>
GLO-2008-0009	Chemistry Assessment for Public Radiation Performance Indicator (PR01)	February, 08
GLO-2009-00062	Radiological Effluent Technical Specifications (RETS) /Radiological Environmental Monitoring Program (REMP)	June, 09

MISCELLANEOUS DOCUMENTS

2007 Radioactive Effluent Release Report
2007 and 2008 Interlaboratory Comparison Results
2008 Calibration Records for Environmental Air Samplers
2006 and 2007 Annual Radiological Environmental Monitoring Reports
2008 Land Use Census Data

Section 40A5 Temporary Instruction 2515/173

PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION / DATE</u>
EN-CY-109	Sampling and Analysis of Groundwater Monitoring Wells	2
EN-CY-111	Radiological Ground Water Monitoring Program	0
EN-RP-113	Response to Contaminated Spills/Leaks	4

AUDITS, SELF-ASSESSMENTS, AND SURVEILLANCES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION / DATE</u>
HQNL0-2008-00008 CA-1	Fleet Self Assessment of the Ground Water Protection Initiative	8/25/08

CONDITION REPORTS

HQN-2006-00062 GGN-2009-01611

MISCELLANEOUS

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION / DATE</u>
	Entergy Nuclear Communications Plan for Groundwater Monitoring for Tritium and Other Unplanned Releases	7/25/06