



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

September 4, 2012

Mr. William R. Gideon  
Vice President  
Progress Energy  
H. B. Robinson Steam Electric Plant, Unit 2  
3581 West Entrance Rd  
Hartsville, SC 29550

**SUBJECT: MID CYCLE ASSESSMENT LETTER FOR H. B. ROBINSON STEAM  
ELECTRIC PLANT, UNIT 2 (NRC INSPECTION REPORT 05000261/2012006)**

Dear Mr. Gideon:

On August 15, 2012, the NRC staff completed its mid-cycle performance review of the H. B. Robinson Steam Electric Plant, Unit 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011, through June 30, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined the performance at Robinson Unit 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

In its assessment letter dated March 4, 2011, (ML110630055), the NRC opened a Substantive Cross-Cutting Issue (SCCI) with the aspect of complete, accurate and up-to-date design documentation, procedures, and work packages, and correct labeling of components, H.2(c). To address the SCCI, your staff performed a root cause evaluation and prepared a comprehensive procedure upgrade project. We have completed an evaluation of your root cause and planned corrective actions and determined them to be adequate. In our 2011 end of cycle assessment letter (ML 120650415) the NRC determined that the SCCI would remain open because the implementation of the two-column format emergency operating procedures was not scheduled until May 2012. Also, it stated an inspection of the content and quality of those procedures must be performed prior to closure of the SCCI. The quality of these procedure changes would establish the foundation for our confidence that the planned corrective actions will be sufficient to warrant closing the SCCI. Our inspection of the content and quality of the emergency operating procedures has been completed and we have determined them to be adequate. Based on our inspection results, this SCCI is closed.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end of cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

We also plan on conducting several infrequently performed inspections which include: initial operator licensing examinations, TI 2515/177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray System," and licensed operator initial examination. In addition, the sample numbers of the baseline IP 71111.11 quarterly simulator observations will be increased for the next three quarters. This action is being taken using the guidance in IMC 2515 appendix A as a risk informed sample selection deviation in response to a recent problem identification and resolution sample observation of operator and instructor performance in the simulator. The purpose of the sample selection increase is to ensure an adequate number of observations across operating crews are available to evaluate the operator and evaluator performance in the simulator.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure 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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 404-997-4603 with any questions you may have regarding this letter.

Sincerely,

**/RA/**

Randall A. Musser, Chief  
Division of Reactor Projects

Docket No.: 50-261, Docket No. 72-3  
License No.: DPR-23, License No. SNM-2502

Enclosure: Robinson Inspection/Activity Plan (09/01/2012 – 12/31/2013)

cc w/Encl: (See page 3)

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end of cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

We also plan on conducting several infrequently performed inspections which include: initial operator licensing examinations, TI 2515/177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray System," and licensed operator initial examination. In addition, the sample numbers of the baseline IP 71111.11 quarterly simulator observations will be increased for the next three quarters. This action is being taken using the guidance in IMC 2515 appendix A as a risk informed sample selection deviation in response to a recent problem identification and resolution sample observation of operator and instructor performance in the simulator. The purpose of the sample selection increase is to ensure an adequate number of observations across operating crews are available to evaluate the operator and evaluator performance in the simulator.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure 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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 404-997-4603 with any questions you may have regarding this letter.

Sincerely,  
/RA/

Randall A. Musser, Chief  
Division of Reactor Projects

Docket No.: 50-261, Docket No. 72-3  
License No.: DPR-23, License No. SNM-2502

Enclosure: Robinson Inspection/Activity Plan (09/01/2012 – 12/31/2013)

cc w/Encl: (See page 3)

X PUBLICLY AVAILABLE ☐ NON-PUBLICLY AVAILABLE  
ADAMS: X Yes ACCESSION NUMBER:

X SENSITIVE X NON-SENSITIVE  
X SUNSI REVIEW COMPLETE X FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE	Via email	JSD /RA/	RAM /RA/				
NAME	JWorosilo	JDodson	RMusser				
DATE	08/27/2012	08/27/2012	08/30/2012				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2012\MID-CYCLE\INPUT\RPB4\ROBINSON\ROB 2012 MC LETTER.DOCX

R. Gideon

3

cc w/encl:

Division of Radiological Health  
TN Dept. of Environment & Conservation  
401 Church Street  
Nashville, TN 37243-1532

Donald W. Barker  
Manager, Nuclear Oversight  
H. B. Robinson Steam Electric Plant, Unit 2  
Progress Energy  
Electronic Mail Distribution

J. W. (Bill) Pitesa  
Senior Vice President  
Nuclear Operations  
Duke Energy Carolinas, LLC  
Electronic Mail Distribution

Lara S. Nichols  
Deputy General Counsel  
Duke Energy Corporation  
Electronic Mail Distribution

M. Christopher Nolan  
Director - Regulatory Affairs  
Duke Energy Carolinas, LLC  
Electronic Mail Distribution

Mike Glover  
Director - Site Operations  
H. B. Robinson Steam Electric Plant, Unit 2  
Electronic Mail Distribution

Sandra Threatt, Manager  
Nuclear Response and Emergency  
Environmental Surveillance  
Bureau of Land and Waste Management  
Department of Health and Environmental  
Control  
Electronic Mail Distribution

Brian C. McCabe  
Manager, Nuclear Oversight  
Shearon Harris Nuclear Power Plant  
Progress Energy  
Electronic Mail Distribution  
Richard Hightower

Supervisor  
Licensing/Regulatory Programs  
Progress Energy  
Electronic Mail Distribution

Scott D. West  
Superintendent Security  
H. B. Robinson Steam Electric Plant  
Progress Energy  
Electronic Mail Distribution

Joseph W. Donahue  
Vice President  
Nuclear Oversight  
Progress Energy  
Electronic Mail Distribution

David T. Conley  
Senior Counsel  
Legal Department  
Progress Energy  
Electronic Mail Distribution

John H. O'Neill, Jr.  
Shaw, Pittman, Potts & Trowbridge  
2300 N. Street, NW  
Washington, DC 20037-1128

Richard Haynes  
Director, Division of Waste Management  
Bureau of Land and Waste Management  
S.C. Department of Health and  
Environmental Control  
Electronic Mail Distribution

Thomas Cosgrove  
Plant General Manager  
H.B. Robinson Steam Electric Plant, Unit 2  
Progress Energy  
Electronic Mail Distribution

Chairman  
North Carolina Utilities Commission  
Electronic Mail Distribution

(cc w/Encl continued next page)

R. Gideon

4

(cc w/Encl continued)

Donna B. Alexander  
Manager, Nuclear Regulatory Affairs  
(interim)  
Progress Energy  
Electronic Mail Distribution

Robert P. Gruber  
Executive Director  
Public Staff - NCUC  
4326 Mail Service Center  
Raleigh, NC 27699-4326

W. Lee Cox, III  
Section Chief  
Radiation Protection Section  
N.C. Department of Environmental  
Commerce & Natural Resources  
Electronic Mail Distribution

Greg Kilpatrick  
Operations Manager  
H.B. Robinson Steam Electric Plant, Unit 2  
Progress Energy  
Electronic Mail Distribution

Mark Yeager  
Division of Radioactive Waste Mgmt.  
S.C. Department of Health and  
Environmental Control  
Electronic Mail Distribution

Public Service Commission  
State of South Carolina  
P.O. Box 11649  
Columbia, SC 29211

Henry Curry  
Training Manager  
H.B. Robinson Steam Electric Plant, Unit 2  
Progress Energy  
Electronic Mail Distribution

Christos Kamilaris  
Manager, Support Services  
H.B. Robinson Steam Electric Plant, Unit 2  
Progress Energy  
Electronic Mail Distribution

John W. Flitter  
Director of Electric & Gas Regulation  
South Carolina Office of Regulatory Staff  
Electronic Mail Distribution

R. Gideon

5

Letter to William R. Gideon from Randall A. Musser dated September 4, 2012

SUBJECT: MID CYCLE ASSESSMENT LETTER FOR H. B. ROBINSON STEAM  
ELECTRIC PLANT, UNIT 2 (NRC INSPECTION REPORT 05000261/2012006)

Distribution w/encl:

C. Evans, RII

L. Douglas, RII

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMRobinson Resource

INPO

ROP Reports

Robinson

## Inspection / Activity Plan

09/01/2012 - 12/31/2013

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>ROB TFPI - TRIENNIAL FIRE PROTECTION INSPECTION</b>		5
2	09/11/2012 09/13/2012	IP 7111105T	Fire Protection [Triennial]	
2	10/01/2012 10/05/2012	IP 7111105T	Fire Protection [Triennial]	
2	10/15/2012 10/19/2012	IP 7111105T	Fire Protection [Triennial]	
		<b>BASELINE - SIMULATOR OBSERVATION</b>		2
2	10/15/2012 10/19/2012	IP 7111111B	Licensed Operator Qualification Program	
		<b>TI-177 - TI-177</b>		3
2	11/26/2012 11/30/2012	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
		<b>OL RQ - REQUAL INSPECTION</b>		2
2	02/11/2013 02/15/2013	IP 7111111B	Licensed Operator Qualification Program	
		<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>		8
2	03/18/2013 03/22/2013	IP 7111121	Component Design Bases Inspection	
2	04/08/2013 04/12/2013	IP 7111121	Component Design Bases Inspection	
2	04/22/2013 04/26/2013	IP 7111121	Component Design Bases Inspection	
2	05/06/2013 05/10/2013	IP 7111121	Component Design Bases Inspection	
		<b>PSB1-RP - RP PUBLIC RAD SAFETY BASELINE</b>		2
2	04/29/2013 05/03/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2	04/29/2013 05/03/2013	IP 71124.07	Radiological Environmental Monitoring Program	
2	04/29/2013 05/03/2013	IP 71151	Performance Indicator Verification	
		<b>EP - EMERGENCY PREPAREDNESS EXERCISE</b>		1
2	05/20/2013 05/24/2013	IP 71111401	Exercise Evaluation	
2	05/20/2013 05/24/2013	IP 71151	Performance Indicator Verification	
		<b>OL EXAM - INITIAL EXAM PREP</b>		3
2	07/08/2013 07/12/2013	V23392	ROBINSON/FEBRUARY 2013 INITIAL EXAM AT POWER FACILITIES	
		<b>OL EXAM - INITIAL EXAM WEEK</b>		3
2	07/29/2013 08/02/2013	V23392	ROBINSON/FEBRUARY 2013 INITIAL EXAM AT POWER FACILITIES	
		<b>ISI - UNIT 2 INSERVICE INSPECTION</b>		1
2	09/23/2013 09/27/2013	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>SGISI - UNIT 2 SG INSERVICE INSPECTION</b>		1
2	09/30/2013 10/04/2013	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>PSB1-RP - RAD HAZARDS AND TRANSPORTATION</b>		2
2	10/07/2013 10/11/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	10/07/2013 10/11/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Enclosure

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
2	10/07/2013	10/11/2013	PSB1-RP - RAD HAZARDS AND TRANSPORTATION IP 71151	Performance Indicator Verification	2

Comments: