



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II**

245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

August 31, 2016

Mr. David R. Vineyard, Vice President
Southern Nuclear Operating Company, Inc.
Edwin I. Hatch Nuclear Plant
11028 Hatch Parkway North
Baxley, GA 31513

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR EDWIN I. HATCH NUCLEAR PLANT
UNITS 1 AND 2 - NRC INSPECTION REPORT 05000321/2016005 AND
05000366/2016005**

Dear Mr. Vineyard:

On August 9, 2016, the NRC completed its mid-cycle performance review of Edwin I. Hatch Nuclear Plant, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2015 through June 30, 2016. 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 that overall, Hatch Units 1 and 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Hatch Units 1 and 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.

The enclosed inspection plan lists the inspections scheduled through June 30, 2018. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition, we will also conduct the post-approval site inspection for license renewal. The inspections listed during the second half 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.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation."

The NRC conducted audits of licensee efforts towards compliance with these Orders, and the information gathered will aid staff in development of the ultimate Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct quarterly assessment meetings and communicate changes in the assessment of licensee performance in accordance with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be 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) 997-4513 with any questions you have regarding this letter.

Sincerely,

/RA/

Shane Sandal, Chief
Reactor Projects Branch 2
Division of Reactor Projects

Docket Nos.: 50-321, 50-366
License Nos.: DPR-57 and NPF-5

Enclosure: Hatch Inspection/Activity Plan
(09/01/2016 - 06/30/2018)

Distribution:
[Include ROPassessment.Resource@nrc.gov.]

The NRC conducted audits of licensee efforts towards compliance with these Orders, and the information gathered will aid staff in development of the ultimate Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct quarterly assessment meetings and communicate changes in the assessment of licensee performance in accordance with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be 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) 997-4513 with any questions you have regarding this letter.

Sincerely,

/RA/

Shane Sandal, Chief
 Reactor Projects Branch 2
 Division of Reactor Projects

Docket Nos.: 50-321, 50-366
 License Nos.: DPR-57 and NPF-5

Enclosure: Hatch Inspection/Activity Plan
 (09/01/2016 - 06/30/2018)

Distribution:
 [Include ROPassessment.Resource@nrc.gov.]

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
 ADAMS: Yes ACCESSION NUMBER: ML16244A142 SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP					
SIGNATURE	DLM4	SRS5					
NAME	D. Mas	S. Sandal					
DATE	8/29/2016	8/29/2016	8/ /2016	8/ /2016	8/ /2016	8/ /2016	8/ /2016
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

Letter to David Vineyard from Shane Sandal dated August 31, 2016

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR EDWIN I. HATCH NUCLEAR PLANT
UNITS 1 AND 2 - NRC INSPECTION REPORT 05000321/2016005 AND
05000366/2016005

DISTRIBUTION:

D. Gamberoni, RII

L. Gibson, RII

OE Mail

RIDSNNRRDIRS

PUBLIC

RidsNrrPMHatch Resource

ROP Assessment

ROP Reports

Institute of Nuclear Power Operations

Hatch
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			OL RQ - REQUAL INSP		2
1, 2	08/22/2016	09/21/2016	IP 711111B	Licensed Operator Requalification Program	
			EP - EP PROGRAM INSPECTION		3
1, 2	11/28/2016	12/02/2016	IP 7111402	Alert and Notification System Testing	
1, 2	11/28/2016	12/02/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	11/28/2016	12/02/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	11/28/2016	12/02/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	11/28/2016	12/02/2016	IP 71151	Performance Indicator Verification	
			ISI - UNIT 2 IN-SERVICE INSPECTION		1
2	02/13/2017	02/17/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			LR - UNIT 2 POST APPROVAL LR PHASE 1		2
1	02/13/2017	02/17/2017	IP 71003	Post-Approval Site Inspection for License Renewal	
			RP - RP OCCUPATIONAL INSPECTION WEEK 1		3
1, 2	02/13/2017	02/17/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/13/2017	02/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	02/13/2017	02/17/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	02/13/2017	02/17/2017	IP 71124.04	Occupational Dose Assessment	
1, 2	02/13/2017	02/17/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	02/13/2017	02/17/2017	IP 71151	Performance Indicator Verification	
			RP - RP OCCUPATIONAL INSPECTION WEEK 2		2
1, 2	02/27/2017	03/03/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/27/2017	03/03/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	02/27/2017	03/03/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	02/27/2017	03/03/2017	IP 71124.04	Occupational Dose Assessment	
1, 2	02/27/2017	03/03/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	02/27/2017	03/03/2017	IP 71151	Performance Indicator Verification	
			OL EXAM - INITIAL LICENSE EXAM PREP		3
1	08/21/2017	08/25/2017	V23498	HATCH SEPTEMBER 2017 INITIAL EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL LICENSE EXAM		3
1	09/18/2017	10/06/2017	V23498	HATCH SEPTEMBER 2017 INITIAL EXAM AT POWER FACILITIES	
			EP - EP EXERCISE INSPECTION		3
1, 2	10/16/2017	10/20/2017	IP 7111401	Exercise Evaluation	
1, 2	10/16/2017	10/20/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Enclosure

Hatch
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			EP - EP EXERCISE INSPECTION		3
1, 2	10/16/2017	10/20/2017	IP 7111408	Exercise Evaluation – Scenario Review	
1, 2	10/16/2017	10/20/2017	IP 71151	Performance Indicator Verification	
			PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		5
1, 2	11/13/2017	11/17/2017	IP 71152B	Problem Identification and Resolution	
1, 2	12/04/2017	12/08/2017	IP 71152B	Problem Identification and Resolution	
			RP - RAD HAZARDS AND TRANSPORTATION		2
1, 2	02/12/2018	02/16/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/12/2018	02/16/2018	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			ISI - UNIT 1 IN-SERVICE INSPECTION		1
1	02/19/2018	02/23/2018	IP 7111108G	Inservice Inspection Activities - BWR	
			RP - RP PUBLIC INSPECTION		2
1, 2	05/21/2018	05/25/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	05/21/2018	05/25/2018	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	05/21/2018	05/25/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	05/21/2018	05/25/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Enclosure