



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

September 1, 2015

Mr. Mano Nazar  
President and Chief Nuclear Officer  
Nuclear Division  
NextEra Energy  
P. O. Box 14000  
Juno Beach, FL 33408-0420

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR ST. LUCIE PLANT UNIT 1 AND  
UNIT 2 (REPORT 05000335/2015005 AND 05000389/2015005)**

Dear Mr. Nazar:

On August 12, 2015, the NRC completed its mid-cycle performance review of St. Lucie Plant Unit 1 and Unit 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2014, through June 30, 2015. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

After reviewing St. Lucie Unit 1 performance in addressing the White finding that was the subject of Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," dated February 11, 2011, the NRC concluded your actions met the objectives of the inspection. This inspection was completed on December 19, 2014, and was documented in NRC supplemental inspection report 05000335/2014011 (Agency-wide Documents Access and Management System (ADAMS) ascension number ML15027A197).

Therefore, in accordance with the guidance in Inspection Manual Chapter (IMC) 0305, "Operating Reactor Assessment Program," the White finding will only be considered in assessing plant performance for a total of four quarters. As a result, the NRC determined the performance at St. Lucie Plant Unit 1 to be in the Licensee Response Column of the Reactor Oversight Process (ROP) Action Matrix as of July 1, 2015, as documented in the St. Lucie Plant NRC Integrated Inspection Reports 05000335/2015002, 05000389/2015002; 05000335/2015011, 05000389/2015011; and Assessment Follow-Up Letter for St. Lucie Nuclear Plant Unit 1 (ADAMS ascension number ML15216A565). Therefore, the NRC plans to conduct ROP baseline inspections at St. Lucie Unit 1.

The NRC also determined that overall, St. Lucie Unit 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at St. Lucie Unit 2 during the most recent quarter was within the Licensee Response Column of the NRC's 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 St. Lucie Unit 2.

The enclosed inspection plan lists the inspections scheduled through June 30, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. 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. The NRC also plans to conduct the following non-routine inspection during this period: Inspection Procedure 71003, "Post-Approval Site Inspection for License Renewal." 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." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed for St. Lucie Nuclear Plant Unit 1, 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 Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections, the full implementation of the orders mentioned above performing TI 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 accordance with Title 10 of the Code of Federal Regulations (10 CFR) 2.390 of the NRC's "Agency Rules of Practice and Procedure," 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).

M. Nazar

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Please contact LaDonna B. Suggs at (404) 997-4539 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Joel T. Munday, Director  
Division of Reactor Projects

Docket Nos.: 50-335, 50-389  
License Nos.: DPR-67, NPF-16

Enclosure:  
St. Lucie Inspection/Activity Plan  
(07/01/2015 – 06/30/2017)

cc: Distribution via Listserv

M. Nazar

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

OFFICE	RII:DRP	RII:DRP	RII:DRP			
SIGNATURE	REW1	LJB4	JTM			
NAME	RWilliams	LSuggs	JMunday			
DATE	8/24/2015	8/25/2015	8/31/2015			
E-MAIL COPY?	YES NO	YES NO	YES NO			

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2015\MID-CYCLE\ADMIN WORKING FOLDER\LETTERS\ST. LUCIE MID-CYCLE LTR 2015.DOCX

M. Nazar

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Letter to Mano Nazar from Joel T. Munday dated September 1, 2015.

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR ST. LUCIE PLANT UNIT 1 AND  
UNIT 2 (REPORT 05000335/2015005 AND 05000389/2015005)

**DISTRIBUTION:**

D. Gamberoni, RII

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ROP Assessment

Institute of Nuclear Power Operations (INPO)

**Saint Lucie**  
**Inspection / Activity Plan**  
**09/01/2015 - 06/30/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>ISI - UNIT 2 IN-SERVICE INSPECTION</b>		<b>1</b>
2	09/14/2015	09/18/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>1</b>
2	09/28/2015	10/02/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>LR - POST APPROVAL LR PHASE 2</b>		<b>6</b>
1, 2	11/02/2015	11/06/2015	IP 71003	Post-Approval Site Inspection for License Renewal	
1, 2	11/16/2015	11/20/2015	IP 71003	Post-Approval Site Inspection for License Renewal	
			<b>OL RQ - REQUAL INSP</b>		<b>2</b>
1, 2	11/16/2015	11/20/2015	IP 7111111B	Licensed Operator Requalification Program	
			<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>7</b>
1, 2	01/11/2016	01/15/2016	IP 7111121	Component Design Bases Inspection	
1, 2	02/08/2016	02/12/2016	IP 7111121	Component Design Bases Inspection	
1, 2	02/29/2016	03/04/2016	IP 7111121	Component Design Bases Inspection	
			<b>RP - RP PUBLIC RAD SAFETY BASELINE</b>		<b>3</b>
1, 2	01/25/2016	01/29/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	01/25/2016	01/29/2016	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	01/25/2016	01/29/2016	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	01/25/2016	01/29/2016	IP 71151	Performance Indicator Verification	
			<b>EP - EP EXERCISE INSPECTION</b>		<b>2</b>
1, 2	02/22/2016	02/26/2016	IP 7111401	Exercise Evaluation	
1, 2	02/22/2016	02/26/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	02/22/2016	02/26/2016	IP 71151	Performance Indicator Verification	
			<b>EQ - ENVIRONMENTAL QUALIFICATION INSPECTION</b>		<b>3</b>
1, 2	04/11/2016	04/15/2016	IP 7111121	Component Design Bases Inspection	
1, 2	04/25/2016	04/29/2016	IP 7111121	Component Design Bases Inspection	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>5</b>
1, 2	05/09/2016	05/13/2016	IP 71152B	Problem Identification and Resolution	
1, 2	05/23/2016	05/27/2016	IP 71152B	Problem Identification and Resolution	
			<b>TFPI - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>4</b>
1, 2	06/06/2016	06/10/2016	IP 7111105T	Fire Protection [Triennial]	
1, 2	06/20/2016	06/24/2016	IP 7111105T	Fire Protection [Triennial]	
			<b>HS - TRIENNIAL HEAT SINK PERFORMANCE</b>		<b>1</b>
1, 2	07/11/2016	07/15/2016	IP 7111107T	Heat Sink Performance	

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

Enclosure

**Saint Lucie**  
**Inspection / Activity Plan**  
**09/01/2015 - 06/30/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>RP - RAD HAZARDS ANALYSIS</b>		<b>1</b>
1, 2	09/26/2016	09/30/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	10/03/2016	10/07/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>SGISI - UNIT 1 SG IN-SERVICE INSPECTION</b>		<b>1</b>
1	10/10/2016	10/14/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>4</b>
1, 2	01/23/2017	01/27/2017	IP 7111402	Alert and Notification System Testing	
1, 2	01/23/2017	01/27/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	01/23/2017	01/27/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	01/23/2017	01/27/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	01/23/2017	01/27/2017	IP 71151	Performance Indicator Verification	
			<b>ISI - UNIT 2 IN-SERVICE INSPECTION &amp; RVH EXAM</b>		<b>2</b>
2	03/13/2017	03/17/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 1</b>		<b>3</b>
1, 2	03/13/2017	03/17/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/13/2017	03/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/13/2017	03/17/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/13/2017	03/17/2017	IP 71124.04	Occupational Dose Assessment	
1, 2	03/13/2017	03/17/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	03/13/2017	03/17/2017	IP 71151	Performance Indicator Verification	
			<b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>1</b>
2	03/20/2017	03/24/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 2</b>		<b>2</b>
1, 2	03/27/2017	03/31/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/27/2017	03/31/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/27/2017	03/31/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/27/2017	03/31/2017	IP 71124.04	Occupational Dose Assessment	
1, 2	03/27/2017	03/31/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	03/27/2017	03/31/2017	IP 71151	Performance Indicator Verification	
			<b>MODS - PLANT MODIFICATIONS INSPECTION</b>		<b>3</b>
1, 2	06/05/2017	06/09/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	06/19/2017	06/23/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	

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