



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II**

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

August 31, 2016

Mano Nazar, President, Nuclear Division and CNO  
Florida Power & Light Co.  
Mail Stop: NT3/JW  
15430 Endeavor Drive  
Jupiter, FL 33478

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR SAINT LUCIE NUCLEAR PLANT,  
UNIT 1 AND UNIT 2 – NRC INSPECTION REPORT 05000335/2016005 AND  
05000389/2016005**

Dear Mr. Nazar:

On August 9, 2016, the Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of St. Lucie Nuclear 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, 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, St. Lucie Nuclear Plant Unit 1 and 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 Plant Unit 1 and 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.

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. The inspections listed during the second half of the inspection schedule 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.

The NRC staff received the Saint Lucie Final Compliance letter for 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 staff issued the Saint Lucie Safety Evaluation on July 5, 2016, and will confirm 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.”

Additionally, the NRC plans on conducting one non-ROP baseline inspection which includes Saint Lucie Unit 2 Post Approval License Renewal Phase 1 and Phase 2.

From July 1, 2015, to June 30, 2016, the NRC issued five Severity Level IV traditional enforcement violations. Four associated with impeding the regulatory process, and one associated with actual consequences. Therefore, the NRC plans to conduct Inspection Procedure 92723, “Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period,” to follow-up on these violations.

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 404-997-4539 with any questions you have regarding this letter.

Sincerely,

*/RA/*

LaDonna B. Suggs, Chief  
Reactor Projects Branch 3  
Division of Reactor Projects

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

Enclosure:  
St Lucie Inspection/Activity Plan  
(09/01/2016 – 06/30/2018)

cc: Distribution via Listserv

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Additionally, the NRC plans on conducting one non-ROP baseline inspection which includes Saint Lucie Unit 2 Post Approval License Renewal Phase 1 and Phase 2.

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PUBLICLY AVAILABLE     NON-PUBLICLY AVAILABLE                       SENSITIVE     NON-SENSITIVE

ADAMS:  Yes    ACCESSION NUMBER: ML16244A269     SUNSI REVIEW COMPLETE  FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP			
SIGNATURE	LFP1	LJB4			
NAME	LPressley	LSuggs			
DATE	8/25/2016	8/29/2016			
E-MAIL COPY?	YES NO	YES NO			

M. Nazar

3

Letter to Mano Nazar from LaDonna B. Suggs dated August 31, 2016

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR SAINT LUCIE NUCLEAR PLANT,  
UNIT 1 AND UNIT 2 – NRC INSPECTION REPORT 05000335/2016005 AND  
05000389/2016005

**DISTRIBUTION:**

D. Gamberoni, RII

L. Gibson, RII

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ROAssessment Resource

ROPreports Resource

Institute of Nuclear Power Operations (INPO)

**Saint Lucie**  
**Inspection / Activity Plan**  
**09/01/2016 - 06/30/2018**

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>2</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	02/27/2017	03/03/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>LR - UNIT 2 POST APPROVAL LR PHASE 1</b>		<b>2</b>
2	02/27/2017	03/03/2017	IP 71003	Post-Approval Site Inspection for License Renewal	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 1</b>		<b>3</b>
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	
			<b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>1</b>
2	03/06/2017	03/10/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 2</b>		<b>2</b>
1, 2	04/03/2017	04/07/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/03/2017	04/07/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/03/2017	04/07/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/03/2017	04/07/2017	IP 71124.04	Occupational Dose Assessment	
1, 2	04/03/2017	04/07/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	04/03/2017	04/07/2017	IP 71151	Performance Indicator Verification	

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**  
**09/01/2016 - 06/30/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<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	
			<b>TI-191 - MITIGATING STRATEGIES</b>		<b>4</b>
1, 2	07/17/2017	07/21/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			<b>LR - POST APPROVAL LR PHASE 2 (UNIT 2)</b>		<b>3</b>
2	08/28/2017	09/01/2017	IP 71003	Post-Approval Site Inspection for License Renewal	
2	09/11/2017	09/15/2017	IP 71003	Post-Approval Site Inspection for License Renewal	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>3</b>
1	11/06/2017	11/10/2017	V23497	SAINT LUCIE/JULY 2017 INITIAL EXAM AT POWER FACILITIES	
			<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>
1, 2	11/13/2017	11/17/2017	IP 7111111B	Licensed Operator Requalification Program	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>3</b>
1	12/04/2017	12/22/2018	V23497	SAINT LUCIE/JULY 2017 INITIAL EXAM AT POWER FACILITIES	
			<b>RP - RP PUBLIC INSPECTION</b>		<b>2</b>
1, 2	01/22/2018	01/26/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	01/22/2018	01/26/2018	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	01/22/2018	01/26/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	01/22/2018	01/26/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>EP - EP EXERCISE</b>		<b>6</b>
1, 2	02/19/2018	02/23/2018	IP 7111401	Exercise Evaluation	
1, 2	02/19/2018	02/23/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	02/19/2018	02/23/2018	IP 7111408	Exercise Evaluation – Scenario Review	
1, 2	02/19/2018	02/23/2018	IP 71151	Performance Indicator Verification	
			<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	03/19/2018	03/23/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RAD HAZARDS AND TRANSPORTATION</b>		<b>2</b>
1, 2	03/19/2018	03/23/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/19/2018	03/23/2018	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>SGISI - UNIT 1 SG IN-SERVICE INSPECTION</b>		<b>1</b>
1	03/26/2018	03/30/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>4</b>
1, 2	05/07/2018	05/11/2018	IP 71152B	Problem Identification and Resolution	

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<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>					
1, 2	05/21/2018	05/25/2018	IP 71152B	Problem Identification and Resolution	4

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