



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION IV  
1600 E LAMAR BLVD  
ARLINGTON, TX 76011-4511

September 1, 2015

Mr. Dennis Koehl  
President and Chief Executive Officer  
STP Nuclear Operating Company  
P.O. Box 289  
Wadsworth, TX 77483

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION (REPORT 05000498/2015005  
AND 05000499/2015005)

Dear Mr. Koehl:

On August 11, 2015, the Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of South Texas Project Electric Generating Station, 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, 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.

The NRC determined that overall, South Texas Project Electric Generating Station, 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 South Texas Project Electric Generating Station, 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, 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. 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," which 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," which 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 has been completed at South Texas Project Electric Generating Station, Units 1 and 2, 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 by performing Temporary Instruction 2515/191, "Inspection of the Implementation of Mitigating 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 "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 817-200-1141 with any questions you have regarding this letter.

Sincerely,

/RA/

Nicholas H. Taylor, Branch Chief  
Project Branch B  
Division of Reactor Projects

Docket Nos.: 50-498; 50-499  
License Nos.: NPF-76; NPF-80

Enclosure: South Texas Project Electric  
Generating Station, Units 1 and 2  
Inspection /Activity Plan

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NAME	NTaylor	AVegel	TPruett				
SIGNATURE	/RA/	/RA/	/RA/				
DATE	8/26/15	8/26/15	8/27/15				

OFFICIAL RECORD COPY

Letter to Dennis L. Koehl from Nicholas H. Taylor dated September 1, 2015

SUBJECT: ANNUAL ASSESSMENT LETTER SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION, UNITS 1 AND 2 (REPORT 05000498/2015005  
AND 05000499/2015005)

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Electronic Distribution for South Texas Project Electric Generating Station

## South Texas Project

## Inspection / Activity Plan

07/01/2015 - 06/30/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
1	08/31/2015	09/04/2015	<b>EXAM</b> - INITIAL OPERATOR EXAM		6
			X02554	INITIAL EXAM STP UNIT 1 (9/2015)	
2	08/31/2015	09/04/2015	X02555	INITIAL EXAM STP UNIT 2 (9/2015)	
1	09/28/2015	10/09/2015	X02554	INITIAL EXAM STP UNIT 1 (9/2015)	
2	09/28/2015	10/09/2015	X02555	INITIAL EXAM STP UNIT 2 (9/2015)	
			<b>ISFSI</b> - PAD POUR INSPECTION (ONE WEEK VISIT)		1
1	07/01/2015	07/31/2015	IP 60855	Operation Of An ISFSI	
			<b>RS 24</b> - RADIATION SAFETY		2
1, 2	07/27/2015	07/31/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	07/27/2015	07/31/2015	IP 71124.04	Occupational Dose Assessment	
			<b>INSP</b> - OPERATOR REQUAL INSPECTION		3
1, 2	09/14/2015	09/18/2015	IP 7111111B	Licensed Operator Requalification Program	
			<b>71111.08</b> - INSERVICE INSPECTION 1R19		1
1	10/12/2015	10/23/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EP-1</b> - BIENNIAL EP PROGRAM INSPECTION		1
1, 2	11/16/2015	11/20/2015	IP 71111402	Alert and Notification System Testing	
1, 2	11/16/2015	11/20/2015	IP 71111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	11/16/2015	11/20/2015	IP 71111404	Emergency Action Level and Emergency Plan Changes	
1, 2	11/16/2015	11/20/2015	IP 71111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>EP-2</b> - EP PERFORMANCE INDICATORS		1
1, 2	11/16/2015	11/20/2015	IP 71151-EP01	Drill/Exercise Performance	
1, 2	11/16/2015	11/20/2015	IP 71151-EP02	ERO Readiness	
1, 2	11/16/2015	11/20/2015	IP 71151-EP03	Alert & Notification System Reliability	
			<b>EB1-07T</b> - STP TRIENNIAL HEAT SINK PERFORMANCE		1
1, 2	12/07/2015	12/11/2015	IP 7111107T	Heat Sink Performance	
			<b>EB1-21T</b> - STP COMPONENT DESIGN BASIS INSPECTION		6
1, 2	01/25/2016	02/12/2016	IP 7111121	Component Design Bases Inspection	
2	03/01/2016	05/30/2016	IP 60855	Operation Of An ISFSI	
			<b>ISFSI</b> - DRY RUN INSPECTION (MULTIPLE VISITS)		1
1, 2	03/21/2016	03/25/2016	IP 7111121	Component Design Bases Inspection	
			<b>EB1-21EQ</b> - STP EQ/CDBI INSPECTION (PILOT)		3
1, 2	03/21/2016	03/25/2016	IP 7111121	Component Design Bases Inspection	
			<b>EP-2</b> - EP PERFORMANCE INDICATORS		2
1	07/11/2016	07/15/2016	IP 71151-EP01	Drill/Exercise Performance	

This report does not include INPO and OUTAGE activities.

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

**South Texas Project**  
**Inspection / Activity Plan**  
**07/01/2015 - 06/30/2017**

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>EP-2 - EP PERFORMANCE INDICATORS</b>		<b>2</b>
1	07/11/2016 07/15/2016	IP 71151-EP02	ERO Readiness	
1	07/11/2016 07/15/2016	IP 71151-EP03	Alert & Notification System Reliability	
		<b>EP-3 - BIENNIAL EP EXERCISE INSPECTION</b>		<b>4</b>
1	07/11/2016 07/16/2016	IP 7111401	Exercise Evaluation	
1	07/11/2016 07/16/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	
		<b>71111.08 - INSERVICE INSPECTION</b>		<b>1</b>
2	10/10/2016 10/21/2016	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>RS 12 PI - RADIATION SAFETY</b>		<b>2</b>
1, 2	10/17/2016 10/21/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/17/2016 10/21/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	10/17/2016 10/21/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	10/17/2016 10/21/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
		<b>TSB 52B - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>
1, 2	11/14/2016 11/18/2016	IP 71152B	Problem Identification and Resolution	
1, 2	12/05/2016 12/09/2016	IP 71152B	Problem Identification and Resolution	
		<b>RS 5678 - RADIATION SAFETY - TEAM</b>		<b>4</b>
1, 2	11/28/2016 12/02/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	11/28/2016 12/02/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	11/28/2016 12/02/2016	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	11/28/2016 12/02/2016	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
		<b>EB2-05T - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>4</b>
1, 2	01/23/2017 01/27/2017	IP 7111105T	Fire Protection [Triennial]	
1, 2	02/06/2017 02/10/2017	IP 7111105T	Fire Protection [Triennial]	
		<b>RS 13 PI - RADIATION SAFETY</b>		<b>3</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 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/27/2017 03/31/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	03/27/2017 03/31/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
		<b>71111.08 - INSERVICE INSPECTION UNIT 1</b>		<b>1</b>
1	03/27/2017 04/07/2017	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>EP-1 - BIENNIAL EP PROGRAM INSPECTION</b>		<b>1</b>
1, 2	05/08/2017 05/12/2017	IP 7111402	Alert and Notification System Testing	
1, 2	05/08/2017 05/12/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	

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Unit Number		Planned Dates		Inspection Activity	Title	No. of Staff on Site
		Start	End			
<b>EP-1 - BIENNIAL EP PROGRAM INSPECTION</b>						
1, 2	05/08/2017	05/12/2017	IP 7111404		Emergency Action Level and Emergency Plan Changes	1
1, 2	05/08/2017	05/12/2017	IP 7111405		Correction of Emergency Preparedness Weaknesses and Deficiencies	
<b>EP-2 - EP PERFORMANCE INDICATOR VERIFICATION</b>						
1, 2	05/08/2017	05/12/2017	IP 71151-EP02		ERO Readiness	1
1, 2	05/08/2017	05/12/2017	IP 71151-EP03		Alert & Notification System Reliability	