



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION IV
1600 E. LAMAR BLVD.
ARLINGTON, TX 76011-4511

March 1, 2017

Mr. G. T. Powell
Executive Vice President and CNO
STP Nuclear Operating Company
South Texas Project Electric Generating Station
P.O. Box 289
Wadsworth, TX 77483

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNITS 1 AND 2 (REPORT 05000498/2016006 AND 05000499/2016006)

Dear Mr. Powell:

On February 16, 2017, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance assessment of South Texas Project Electric Generating Station, Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at South Texas Project Electric Generating Station, Units 1 and 2 during the most recent quarter was within the Regulatory Response Column, the second highest performance column of the NRC's Reactor Oversight Process (ROP) Action Matrix. This conclusion was based on one or more greater-than-Green inspection findings in the Security cornerstone, and all PIs within the expected range (i.e., Green).

Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs." The objective of this supplemental inspection will be to (1) assure that the root causes and contributing causes of significant performance issues are understood; (2) independently assess and assure that the extent of condition and extent of cause of significant performance issues are identified; (3) assure that corrective actions taken to address and preclude repetition of significant performance issues are prompt and effective; and (4) assure that corrective plans direct prompt actions to effectively address and preclude repetition of significant performance issues. This inspection will be scheduled after you notify the NRC of your readiness.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. 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 the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence. On August 25, 2016, the NRC completed a Problem Identification and Resolution inspection at South Texas Project (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16323A297), which identified safety conscious work environment challenges in the Security Department. This inspection plan includes an in-depth problem identification and resolution sample that the NRC plans to perform during the week of June 19, 2017 to assess the Security Department's progress in improving the safety conscious work environment.

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 Nick Taylor at 817-200-1141 with any questions you have regarding this letter.

Sincerely,

/RA/

Troy W. Pruett, Director
Division of Reactor Projects

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

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

ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNITS 1 AND 2 (REPORT 05000498/2016006 AND 05000499/2016006) - DATED MARCH 1, 2017

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NAME	NTaylor	AVegel	TPruett			
SIGNATURE	/RA/	/RA JClark for/	/RA/			
DATE	2/23/17	2/23/17	2/27/17			

OFFICIAL RECORD COPY

South Texas Project
Inspection / Activity Plan
 01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			7112407 - REMP INSPECTION		2
1, 2	01/09/2017	01/13/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			EB2-05T - TRIENNIAL FIRE PROTECTION INSPECTION		4
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]	
			EXAM - INITIAL EXAM		4
1	08/14/2017	08/18/2017	X02592	INITIAL EXAM STP U1 (09/2017)	
2	08/14/2017	08/18/2017	X02593	INITIAL EXAM STP U2 (09/2017)	
1	09/25/2017	10/04/2017	X02592	INITIAL EXAM STP U1 (09/2017)	
2	09/25/2017	10/04/2017	X02593	INITIAL EXAM STP U2 (09/2017)	
			RS 13 PI - RADIATION SAFETY		2
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	
			71111.08 - INSERVICE INSPECTION UNIT 1		1
1	03/27/2017	04/07/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			EP-1 - BIENNIAL EP PROGRAM INSPECTION		2
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	
1, 2	05/08/2017	05/12/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	05/08/2017	05/12/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			EP-2 - EP PERFORMANCE INDICATOR VERIFICATION		1
1, 2	05/08/2017	05/12/2017	IP 71151-EP01	Drill/Exercise Performance	
1, 2	05/08/2017	05/12/2017	IP 71151-EP02	ERO Readiness	
1, 2	05/08/2017	05/12/2017	IP 71151-EP03	Alert & Notification System Reliability	
			EB1-17T - STP 50.59 EVALUATIONS OF CHANGES, TESTS		3
1, 2	05/22/2017	05/26/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			STP-SCWE - SUPPLEMENTAL INSP - STP SECURITY SCWE		2
1, 2	06/19/2017	06/23/2017	IP 71152-Trends	Semi-annual Trends	
			RS 24 - RADIATION SAFETY		2
1, 2	07/31/2017	08/04/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	07/31/2017	08/04/2017	IP 71124.04	Occupational Dose Assessment	

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
 01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			BRQ - BRQ INSPECTION		3
1, 2	08/28/2017	09/01/2017	IP 7111111B	Licensed Operator Requalification Program	
			EB1-21N - STP DESIGN BASES PROGRAMS INSPECTION		2
1, 2	01/22/2018	02/09/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
			RS 12PI - RAD SAFETY		2
1, 2	04/02/2018	04/06/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/02/2018	04/06/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/02/2018	04/06/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	04/02/2018	04/06/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			7111108 - INSERVICE INSPECTION UNIT 2		1
2	04/02/2018	04/13/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			EXAM - INITIAL EXAM		5
1	09/17/2018	09/21/2018	X02626	INITIAL EXAM STP U1(11/18)	
2	09/17/2018	09/21/2018	X02627	INITIAL EXAM STP U2(11/2018)	
1	10/22/2018	10/26/2018	X02626	INITIAL EXAM STP U1(11/18)	
2	10/22/2018	10/26/2018	X02627	INITIAL EXAM STP U2(11/2018)	
			EB1-07T - STP HEAT SINK PERFORMANCE		1
1, 2	06/11/2018	06/15/2018	IP 7111107T	Heat Sink Performance	
			EP-1 - EP EXERCISE INSPECTION		5
1, 2	06/11/2018	06/15/2018	IP 7111401	Exercise Evaluation	
1, 2	06/11/2018	06/15/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	06/11/2018	06/15/2018	IP 71151-EP01	Drill/Exercise Performance	
1, 2	06/11/2018	06/15/2018	IP 71151-EP02	ERO Readiness	
1, 2	06/11/2018	06/15/2018	IP 71151-EP03	Alert & Notification System Reliability	
			RS 5678 - RAD SAFETY		4
1, 2	07/30/2018	08/03/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	07/30/2018	08/03/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/30/2018	08/03/2018	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	07/30/2018	08/03/2018	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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South Texas Project
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	10/15/2018 10/26/2018	7111108 - INSERVICE INSPECTION UNIT 1 IP 7111108P	Inservice Inspection Activities - PWR	1

Comments:

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