



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
1600 EAST LAMAR BOULEVARD  
ARLINGTON, TEXAS 76011-4511

March 1, 2018

Mr. G. T. Powell  
Interim President and CEO/CNO  
STP Nuclear Operating Company  
P.O. Box 289  
Wadsworth, TX 77483

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION UNITS 1 AND 2 (REPORT 05000498/2017006 AND  
05000499/2017006)

Dear Mr. Powell:

The U.S. Nuclear Regulatory Commission (NRC) has 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, 2017 through December 31, 2017. 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 Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green).

As noted in NRC Inspection Report 05000498/2016407 and 05000499/2016407 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17040A341), dated January 10, 2017, one Greater than Green violation in the Security Cornerstone was identified by the NRC during this assessment period. In its final significance determination letter for this violation, NRC Inspection Report 05000498/2017405 and 05000499/2017405 (ADAMS Accession No. ML17010A211), dated February 9, 2017, the NRC assessed the performance of the South Texas Project Electric Generating Station, Units 1 and 2, facility as within the Regulatory Response Column of the NRC's action matrix beginning in the fourth quarter of 2016.

The NRC conducted a supplemental inspection pursuant to Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs." As previously noted in supplemental inspection report 05000498/2017409; 05000499/2017409 and follow up assessment letter, dated September 27, 2017 (ADAMS Accession No. ML17270A267) the NRC concluded the station's actions met the objectives of Inspection Procedure 95001. As such, in accordance with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," the White finding was closed, effective September 27, 2017. As a

result, the NRC determined the performance at South Texas Project Electric Generating Station, Units 1 and 2, to be in the Licensee Response Column of the ROP Action Matrix as of October 1, 2017. Therefore, the NRC plans to also conduct ROP baseline inspections for your facility in 2018.

The enclosed inspection plan lists the inspections scheduled through December 31, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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.

Additionally, to verify the adequacy of the security controls for a new independent spent fuel storage installation, the NRC will also conduct Inspection Procedure IP 81311, "Physical Security Requirements for Independent Spent Fuel Storage Installations," prior to the first loading of spent fuel. The NRC will use the advance notification required under § 72.212 (b)(1) to coordinate our initial inspection of this facility.

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 the 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 Nicholas 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 and 50-499  
License Nos. NPF-76 and NPF-80

Enclosure:  
South Texas Project Inspection Plan

# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>FORCE-ON-FORCE PLANNING &amp; EXERCISE WEEKS</b>						<b>7</b>
1, 2	01/08/2018	01/12/2018	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	01/29/2018	02/02/2018	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>DRY RUN/LOADING INSP (MULTIPLE WEEKS)</b>						<b>1</b>
1, 2	01/21/2018	12/31/2018	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
<b>RAD SAFETY RFO 1,2</b>						<b>2</b>
1, 2	03/26/2018	03/30/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/26/2018	03/30/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/26/2018	03/30/2018	IP 71151	000746	Performance Indicator Verification	
<b>INSERVICE INSPECTION UNIT 2</b>						<b>1</b>
2	04/02/2018	04/13/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>Biennial EP EXercise Inspection</b>						<b>4</b>
1, 2	06/11/2018	06/15/2018	IP 71114.01	000716	Exercise Evaluation	
1, 2	06/11/2018	06/15/2018	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	06/11/2018	06/15/2018	IP 71151	001397	Performance Indicator Verification	
<b>RAD SAFETY TEAM 5,6,7,8</b>						<b>4</b>
1, 2	07/23/2018	07/27/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	07/23/2018	07/27/2018	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/23/2018	07/27/2018	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	07/23/2018	07/27/2018	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>BIENNIAL PI&amp;R INSPECTION</b>						<b>4</b>
1, 2	08/06/2018	08/10/2018	IP 71152B	000747	Problem Identification and Resolution	
1, 2	08/20/2018	08/24/2018	IP 71152B	000747	Problem Identification and Resolution	
<b>STP HEAT SINK PERFORMANCE</b>						<b>2</b>
1, 2	09/10/2018	09/14/2018	IP 71111.07T	000700	Heat Sink Performance -Triennial	
<b>INITIAL EXAM</b>						<b>5</b>
1, 2	09/16/2018	09/22/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	

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

# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>INITIAL EXAM</b>						<b>5</b>
1, 2	10/21/2018	11/03/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>SECURITY TEAM INSPECTION</b>						<b>2</b>
1, 2	10/01/2018	10/05/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	10/01/2018	10/05/2018	IP 71130.07	000739	Security Training	
<b>INSERVICE INSPECTION UNIT 1</b>						<b>1</b>
1	10/15/2018	10/26/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>TI 2515/194</b>						<b>2</b>
1, 2	12/03/2018	12/07/2018	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
<b>STP RI 1ST QUARTERLY REPORT</b>						<b>2</b>
1, 2	01/01/2019	03/31/2019	IP 71111.01	000691	Adverse Weather Protection	
1, 2	01/01/2019	03/31/2019	IP 71111.04	000692	Equipment Alignment - 02.01 Partial Walkdown (Quarterly)	
1, 2	01/01/2019	03/31/2019	IP 71111.04S	000693	Equipment Alignment - 02.02 Complete Walkdown	
1, 2	01/01/2019	03/31/2019	IP 71111.05A	000694	Fire Protection - Annual	
1, 2	01/01/2019	03/31/2019	IP 71111.05Q	000695	Fire Protection - Quarterly	
1, 2	01/01/2019	03/31/2019	IP 71111.06	000698	Flood Protection Measures	
1, 2	01/01/2019	03/31/2019	IP 71111.07A	000699	Heat Sink Performance - Annual	
1, 2	01/01/2019	03/31/2019	IP 71111.11Q	000705	Licensed Operator Requalification Program and Licensed Operator Performance - Quarterly	
1, 2	01/01/2019	03/31/2019	IP 71111.12	000706	Maintenance Effectiveness	
1, 2	01/01/2019	03/31/2019	IP 71111.13	000707	Maintenance Risk Assessments and Emergent Work Control	
1, 2	01/01/2019	03/31/2019	IP 71111.15	000708	Operability Determinations and Functionality Assessments	
1, 2	01/01/2019	03/31/2019	IP 71111.18	000710	Plant Modifications	
1, 2	01/01/2019	03/31/2019	IP 71111.19	000711	Post Maintenance Testing	
1, 2	01/01/2019	03/31/2019	IP 71111.22	000715	Surveillance Testing	
1, 2	01/01/2019	03/31/2019	IP 71114.06	000721	Drill Evaluation	
1, 2	01/01/2019	03/31/2019	IP 71151	000746	Performance Indicator Verification	
1, 2	01/01/2019	03/31/2019	IP 71152	000748	Problem Identification and Resolution	
1, 2	01/01/2019	03/31/2019	IP 71153	000749	Followup of Events and Notices of Enforcement Discretion	

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## South Texas Project

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>RP INSPECTION</b>						<b>2</b>
1, 2	01/28/2019	02/01/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	01/28/2019	02/01/2019	IP 71124.04	000729	Occupational Dose Assessment	
<b>SOUTH TEXAS DBA TEAM INSPECTION</b>						<b>6</b>
1, 2	03/25/2019	04/12/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>INITIAL EXAM</b>						<b>4</b>
1, 2	06/16/2019	06/22/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	07/14/2019	07/20/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>STP 3rd QTR REPORT</b>						<b>2</b>
1, 2	07/01/2019	09/30/2019	IP 71111.01	000691	Adverse Weather Protection	
1, 2	07/01/2019	09/30/2019	IP 71111.04S	000693	Equipment Alignment - 02.02 Complete Walkdown	
1, 2	07/01/2019	09/30/2019	IP 71111.05A	000694	Fire Protection - Annual	
1, 2	07/01/2019	09/30/2019	IP 71111.05Q	000695	Fire Protection - Quarterly	
1, 2	07/01/2019	09/30/2019	IP 71111.06	000698	Flood Protection Measures	
1, 2	07/01/2019	09/30/2019	IP 71111.07A	000699	Heat Sink Performance - Annual	
1, 2	07/01/2019	09/30/2019	IP 71111.11Q	000705	Licensed Operator Requalification Program and Licensed Operator Performance - Quarterly	
1, 2	07/01/2019	09/30/2019	IP 71111.12	000706	Maintenance Effectiveness	
1, 2	07/01/2019	09/30/2019	IP 71111.13	000707	Maintenance Risk Assessments and Emergent Work Control	
1, 2	07/01/2019	09/30/2019	IP 71111.15	000708	Operability Determinations and Functionality Assessments	
1, 2	07/01/2019	09/30/2019	IP 71111.18	000710	Plant Modifications	
1, 2	07/01/2019	09/30/2019	IP 71111.19	000711	Post Maintenance Testing	
1, 2	07/01/2019	09/30/2019	IP 71111.22	000715	Surveillance Testing	
1, 2	07/01/2019	09/30/2019	IP 71114.06	000721	Drill Evaluation	
1, 2	07/01/2019	09/30/2019	IP 71151	000746	Performance Indicator Verification	
1, 2	07/01/2019	09/30/2019	IP 71152	000748	Problem Identification and Resolution	
1, 2	07/01/2019	09/30/2019	IP 71153	000749	Followup of Events and Notices of Enforcement Discretion	
1, 2	07/30/2019	09/30/2019	IP 71111.04	000692	Equipment Alignment - 02.01 Partial Walkdown (Quarterly)	
<b>EP PROGRAM INSPECTION</b>						<b>1</b>
1, 2	07/08/2019	07/12/2019	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	07/08/2019	07/12/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	

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# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>EP PROGRAM INSPECTION</b>						<b>1</b>
1, 2	07/08/2019	07/12/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	07/08/2019	07/12/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	07/08/2019	07/12/2019	IP 71151	001397	Performance Indicator Verification	
<b>BRQ</b>						<b>2</b>
1, 2	08/25/2019	08/31/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
<b>SECURITY SOLO INSPECTION</b>						<b>1</b>
1, 2	09/23/2019	09/27/2019	IP 71130.02	000734	Access Control	
1, 2	09/23/2019	09/27/2019	IP 71151	001338	Performance Indicator Verification	
<b>SECURITY TEAM INSPECTION</b>						<b>2</b>
1, 2	09/23/2019	09/27/2019	IP 71130.05	000737	Protective Strategy Evaluation	
<b>Protective Strategy Inspection</b>						<b>2</b>
1, 2	09/23/2019	09/27/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
<b>STP 4th QTR REPORT</b>						<b>2</b>
1, 2	10/01/2019	12/31/2019	IP 71111.01	000691	Adverse Weather Protection	
1, 2	10/01/2019	12/31/2019	IP 71111.04	000692	Equipment Alignment - 02.01 Partial Walkdown (Quarterly)	
1, 2	10/01/2019	12/31/2019	IP 71111.04S	000693	Equipment Alignment - 02.02 Complete Walkdown	
1, 2	10/01/2019	12/31/2019	IP 71111.05A	000694	Fire Protection - Annual	
1, 2	10/01/2019	12/31/2019	IP 71111.05Q	000695	Fire Protection - Quarterly	
1, 2	10/01/2019	12/31/2019	IP 71111.06	000698	Flood Protection Measures	
1, 2	10/01/2019	12/31/2019	IP 71111.07A	000699	Heat Sink Performance - Annual	
1, 2	10/01/2019	12/31/2019	IP 71111.11Q	000705	Licensed Operator Requalification Program and Licensed Operator Performance - Quarterly	
1, 2	10/01/2019	12/31/2019	IP 71111.12	000706	Maintenance Effectiveness	
1, 2	10/01/2019	12/31/2019	IP 71111.13	000707	Maintenance Risk Assessments and Emergent Work Control	
1, 2	10/01/2019	12/31/2019	IP 71111.15	000708	Operability Determinations and Functionality Assessments	
1, 2	10/01/2019	12/31/2019	IP 71111.18	000710	Plant Modifications	
1, 2	10/01/2019	12/31/2019	IP 71111.19	000711	Post Maintenance Testing	
2	10/01/2019	12/31/2019	IP 71111.20	000712	Refueling and Other Outage Activities	
1, 2	10/01/2019	12/31/2019	IP 71111.22	000715	Surveillance Testing	

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# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>STP 4th QTR REPORT</b>						2
1, 2	10/01/2019	12/31/2019	IP 71114.06	000721	Drill Evaluation	
1, 2	10/01/2019	12/31/2019	IP 71151	000746	Performance Indicator Verification	
1, 2	10/01/2019	12/31/2019	IP 71152	000748	Problem Identification and Resolution	
1, 2	10/01/2019	12/31/2019	IP 71153	000749	Followup of Events and Notices of Enforcement Discretion	
<b>INSERVICE INSPECTION 2RF20</b>						1
2	10/14/2019	10/25/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>RP INSPECTION</b>						2
1, 2	10/21/2019	10/25/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/21/2019	10/25/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/21/2019	10/25/2019	IP 71151	000746	Performance Indicator Verification	

ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT ELECTRIC GENERATING  
STATION UNITS 1 AND 2 (REPORT 05000498/2017006 AND 05000499/2017006) DATED  
MARCH 1, 2018

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SUNSI Review      ADAMS:       Non-Publicly Available     Non-Sensitive      Keyword:  
 By: NHT/rdm       Yes     No       Publicly Available       Sensitive      NRC-002

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