



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

March 4, 2019

Mr. G. T. Powell  
President and CEO  
STP Nuclear Operating Company  
P.O. Box 330  
Wadsworth, TX 77483

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION (REPORT 05000498/2018006 AND  
05000499/2018006)

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, 2018, through December 31, 2018. 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). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2020. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. The inspections listed during the last 12 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.

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

Enclosure:  
Inspection Plan

# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>South Texas Dry Run 3 and programs review</b>						5
1	06/11/2018	01/12/2019	IP 60854	001000	Preoperational Testing Of An ISFSI	
1	06/11/2018	01/12/2019	IP 60856	001003	Review of 10 CFR 72.212(b) Evaluations	
1	06/11/2018	01/12/2019	IP 60857	001004	Review of 10 CFR 72.48 Evaluations	
<b>South Texas Dry Run 4 and First Loading</b>						6
1	01/02/2019	01/31/2019	IP 60854	001000	Preoperational Testing Of An ISFSI	
1	01/02/2019	01/31/2019	IP 60855	001001	Operation Of An ISFSI	
1	01/02/2019	03/31/2019	IP 60857	001004	Review of 10 CFR 72.48 Evaluations	
<b>SOUTH TEXAS DBA TEAM INSPECTION</b>						6
1, 2	03/03/2019	04/13/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>RP INSPECTION (2,4)</b>						1
1, 2	03/18/2019	03/22/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/18/2019	03/22/2019	IP 71124.04	000728	Occupational Dose Assessment	
<b>Security Protective Strategy w/FOF exercise</b>						4
1, 2	06/03/2019	06/07/2019	IP 71130.05	000737	Protective Strategy Evaluation	
<b>STP 2019 INITIAL EXAM</b>						6
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>EP PROGRAM INSPECTION</b>						1
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	
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	Maintenance of Emergency Preparedness	
1, 2	07/08/2019	07/12/2019	IP 71151	001397	Performance Indicator Verification	
<b>Security Access Control .02</b>						1
1, 2	09/02/2019	11/08/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
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	

# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>INSERVICE INSPECTION 2RF20</b>						1
2	10/14/2019	10/25/2019	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP INSPECTION (1,3) - RFO</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	
<b>STP 2019 BRQ</b>						2
1, 2	11/10/2019	11/16/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
<b>Triennial Fire Protection Inspection</b>						4
1, 2	01/27/2020	01/31/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
1, 2	02/10/2020	02/14/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
<b>Inservice Inspection 1R22</b>						1
1	03/30/2020	04/10/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RS12PI Radiation Safety</b>						2
1, 2	03/30/2020	04/03/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/30/2020	04/03/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
<b>South Texas 1, 2 - Evaluations of Changes, Tests, and Experiments</b>						3
1, 2	05/11/2020	05/15/2020	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
<b>STP 2020 INITIAL EXAM</b>						8
1, 2	06/07/2020	06/13/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	07/12/2020	07/18/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
1, 2	07/19/2020	07/25/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>RS5678 Radiation Safety PS Team</b>						4
1, 2	09/14/2020	09/18/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	09/14/2020	09/18/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	09/14/2020	09/18/2020	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	09/14/2020	09/18/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>MC&amp;A - Material Control &amp; Accounting</b>						1
1, 2	09/14/2020	09/18/2020	IP 71130.11	000742	Material Control and Accounting (MC&A)	
<b>South Texas 1, 2 - Heat Sink Performance (Triennial)</b>						2
1, 2	09/28/2020	10/02/2020	IP 71111.07T	000700	Heat Sink Performance -Triennial	
<b>BIENNIAL PI&amp;R</b>						4
1, 2	10/19/2020	10/23/2020	IP 71152B	000747	Problem Identification and Resolution	
1, 2	11/02/2020	11/06/2020	IP 71152B	000747	Problem Identification and Resolution	
<b>EP Exercise and PI Inspection</b>						4
1, 2	10/26/2020	10/30/2020	IP 71114.01	000716	Exercise Evaluation	
1, 2	10/26/2020	10/30/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	10/26/2020	10/30/2020	IP 71151	001397	Performance Indicator Verification	

ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION (REPORT 05000498/2018006 AND 05000499/2018006) – March 4, 2019

**DISTRIBUTION:**

SMorris, RA  
 MShaffer, DRA  
 CMiller, NRR  
 BDickson, NRR  
 CErlanger, NRR  
 KBrock, NRR  
 AVegel, DRP  
 RLantz, DRS  
 MScott, NSIR/DPR  
 DCurtis, NSIR/DSO  
 MHay, DRP  
 GMiller, DRS  
 DCylkowski, RC  
 MMcCoppin, RIV/OEDO  
 VDricks, ORA  
 JWeil, OCA  
 LRegner, NRR  
 AMoreno, RIV/CAO  
 BMaier, RSLO  
 BTharakan, DRP  
 JMelfi, DRP  
 ECombs, DRP  
 FSanchez, DRP  
 JChoate, DRP  
 LReyna, DRP  
 PJayroe, IPAT  
 MHerrera, DRMA  
 R4Enforcement  
 ROP Reports  
 ROP Assessment Resource  
 DRP Branch Chiefs  
 DRS Branch Chiefs

Electronic Distribution for South Texas Project

**ADAMS ACCESSION NUMBER: ML19053A540**

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

OFFICE	DRP/SPE:B	DRP/C:B				
NAME	BTharakan	NTaylor				
SIGNATURE	/RA/	/RA/				
DATE	2/19/19	3/4/19				

OFFICIAL RECORD COPY