



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION IV  
1600 EAST LAMAR BOULEVARD  
ARLINGTON, TEXAS 76011-4511

March 3, 2021

Mr. G. T. Powell, President and CEO  
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 05000498/2020006 AND  
05000499/2020006)**

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, 2020, through December 31, 2020. 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 baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

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, 2022. 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, during this period the NRC will schedule an additional inspection per a revised version Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)" for any sites who elect to implement the guidance of the Industry Initiative on Open Phase Condition, Revision 3 (ML19163A176), which included an option for relying on annunciation and operator manual actions instead of automatic protective

features to isolate a power supply affected by an open phase condition. Licensees will be individually notified when the NRC schedules these inspections.

In response to the COVID-19 public health emergency (PHE), the NRC is adjusting inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. Each planned inspection is being carefully reviewed in order to determine if any portions of the inspection can be performed remotely, how best to perform on-site portions to minimize personnel health risks, and adjust inspection schedules if needed. This is done in accordance with guidance contained in the February 1, 2021 memo, "Calendar Year 2021 Inspection Guidance During COVID-19 Telework Restrictions" (ML21027A274). For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390 of the NRC's "Agency Rules of Practice and Procedure," 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 817-200-1148 with any questions you have regarding this letter.

Sincerely,

Jeffrey E. Josey, Chief  
Project Branch A  
Division of Reactor Projects

Dockets Nos. 50-498; 50-499  
Licenses Nos. NPF-76; NPF-80

Enclosure:  
Inspection Plan

cc w/ encl: Distribution ® LISTSERV

ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNITS 1 AND 2 (REPORT 05000498/2020006 AND 05000499/2020006) - DATED MARCH 3, 2021

**DISTRIBUTION:**

SMorris, RA  
 JMonninger, DRA  
 RLantz, DRP  
 MHay, DRP  
 GMiller, DRS  
 MMussle, DNMS  
 DCylkowski, RC  
 MHaire, RIV/OEDO  
 VDricks, ORA  
 LWilkins, OCA  
 DGalvin, NRR  
 AMoreno, RIV/OCA  
 BMaier, RSLO  
 JJosey, DRP  
 JReynoso, DRP  
 SLichvar, DRP  
 HFreeman, DRP  
 GKolcum, DRP  
 CStott, DRP

DBryen, DRP  
 LReyna, DRP  
 LFlores, IPAT  
 BCorrell, IPAT  
 R4Enforcement  
 CMiller, DRO, NRR  
 RFelts, DRO, NRR  
 CErlanger, DORL, NRR  
 GSuber, DORL, NRR (Regions I, III, & IV & LLPP)  
 KBrock, DPR, NSIR  
 SAtack, DSO, NSIR  
 DRS Branch Chiefs  
 DNMS Branch Chiefs  
 Senior Allegations Coordinator  
 JDixon-Herrity, Plant Licensing Branch 4,  
 DORL, NRR  
 ROP Reports  
 ROP Assessment

ADAMS ACCESSION NUMBER: ML21055A011

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RIV/DRP/A	C:RIV/DRP/A			
NAME	HFreeman /haf/	JJosey			
DATE	2/23/2021	3/03/21			

OFFICIAL RECORD COPY

# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Security FFD .08 - STP</b>						1
1, 2	01/25/2021	01/29/2021	IP 71130.08	000740	Fitness For Duty Program	
<b>Inservice Inspection 2RF21 - STP</b>						1
2	03/22/2021	04/02/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP 1,3,PI</b>						2
1, 2	03/29/2021	04/02/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/29/2021	04/02/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
<b>In-Office EP Exercise Scenario Review - STP</b>						4
1, 2	05/02/2021	06/30/2021	IP 71114.08	000723	Exercise Evaluation □ Scenario Review	
<b>STP 2021 Initial Exam</b>						6
1, 2	06/06/2021	06/12/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	07/11/2021	07/17/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Force-on-Force Planning and Exercise Weeks - STP</b>						6
1, 2	07/12/2021	07/16/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	08/23/2021	08/27/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>RP 6,7</b>						2
1, 2	07/19/2021	07/23/2021	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/19/2021	07/23/2021	IP 71124.07	000731	Radiological Environmental Monitoring Program	
<b>EP Biennial Exercise and PI Inspection - STP</b>						4
1, 2	07/26/2021	07/30/2021	IP 71114.01	000716	Exercise Evaluation	
1, 2	07/26/2021	07/30/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	

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

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>EP Biennial Exercise and PI Inspection - STP</b>						4
1, 2	07/26/2021	07/30/2021	IP 71151	001397	Performance Indicator Verification	
<b>Security Access Authorization .01 and Access Control .02 w/PIV</b>						2
1, 2	07/26/2021	07/30/2021	IP 71130.01	000733	Access Authorization	
1, 2	07/26/2021	07/30/2021	IP 71130.02	000734	Access Control	
1, 2	07/26/2021	07/30/2021	IP 71130.09	001656	Security Plan Changes	
1, 2	07/26/2021	07/30/2021	IP 71151	001338	Performance Indicator Verification	
<b>STP 2021 BRQ</b>						3
1, 2	08/29/2021	09/04/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>RP 2,4</b>						2
1, 2	08/30/2021	09/03/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	08/30/2021	09/03/2021	IP 71124.04	000728	Occupational Dose Assessment	
<b>Inservice Inspection 1RF23 - STP</b>						1
1	10/11/2021	10/22/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP 5,8</b>						2
1, 2	01/31/2022	02/04/2022	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	01/31/2022	02/04/2022	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
<b>Security Access Control .02</b>						1
1, 2	02/07/2022	02/11/2022	IP 71130.02	000734	Access Control	
1, 2	02/07/2022	02/11/2022	IP 71151	001338	Performance Indicator Verification	

# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Power Operated Valves Inspection 21N - South Texas</b>						3
1, 2	02/21/2022	03/11/2022	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
<b>South Texas Project ISFSI Loading Inspection (1 week in April)</b>						2
1	04/01/2022	04/29/2022	IP 60855	001001	Operation Of An ISFSI	
1	04/01/2022	04/29/2022	IP 60857	001004	Review of 10 CFR 72.48 Evaluations	
<b>In-Office EP Exercise Scenario Review - STP</b>						4
1, 2	05/09/2022	06/18/2022	IP 71114.08	000723	Exercise Evaluation □ Scenario Review	
<b>STP 2022 INITIAL EXAM</b>						7
1, 2	07/10/2022	07/16/2022	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	08/21/2022	08/27/2022	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>EP Biennial Exercise &amp; PI Inspection - STP</b>						4
1, 2	07/18/2022	07/22/2022	IP 71114.01	000716	Exercise Evaluation	
1, 2	07/18/2022	07/22/2022	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	07/18/2022	07/22/2022	IP 71151	001397	Performance Indicator Verification	
<b>Security Training/Equip Maint .07 and .04</b>						2
1, 2	08/29/2022	09/02/2022	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	08/29/2022	09/02/2022	IP 71130.07	000739	Security Training	
<b>Inservice Inspection 2RF22 - STP</b>						1
2	10/10/2022	10/21/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP 1,2,PI</b>						2
1, 2	10/17/2022	10/21/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	

# IP 22 Inspection Activity Plan Report

## South Texas Project

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>RP 1,2,PI</b>						2
1, 2	10/17/2022	10/21/2022	IP 71124.02	000726	Occupational ALARA Planning and Controls	