



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

March 2, 2016

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION (REPORT 05000498/2015006 AND 05000499/2015006)

Dear Mr. Koehl:

On February 16, 2016, the Nuclear Regulatory Commission (NRC) completed its end-of-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 January 1, 2015 through December 31, 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 (Column 1) 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 December 31, 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." This Order 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." This Order 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 was completed for South Texas Project Electric Generating Station, Units 1 and 2, and the information gathered will aid staff in development of the 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 191: "Inspection of the Implementation of Mitigation 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, "Public Inspections, Exemptions, Requests for Withholding," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management 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/

Nick Taylor, 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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DISTRIBUTION:  
See next page

ADAMS ACCESSION NUMBER: ML16061A387

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|---|---|---|---|--------------------|
| <input checked="" type="checkbox"/> SUNSI Review<br>By: NHT | ADAMS:<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Sensitive<br><input checked="" type="checkbox"/> Non-Sensitive | <input type="checkbox"/> Non-Publicly Available<br><input checked="" type="checkbox"/> Publicly Available | Keyword<br>NRC-002 |
| OFFICE  | RIV/BC/DRP  | RIV/D/DRS   | RIV/D/DRP   |                    |
| NAME  | NTaylor   | AVegel  | TPruett   |                    |
| SIGNATURE   | /RA/  | /RA/  | /RA/RLantz, for   |                    |
| DATE  | 2/25/16   | 2/25/16   | 2/26/16   |                    |

**OFFICIAL RECORD COPY**

Letter to Dennis L. Koehl from Nick Taylor dated March 2, 2016

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION (REPORT 05000498/2015006 AND 05000499/2015006)

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**South Texas Project**  
**Inspection / Activity Plan**  
**04/01/2016 - 12/31/2017**

| Unit Number   | Planned Dates |            | Inspection Activity | Title   | No. of Staff on Site |
|---|---------------|------------|---------------------|---|----------------------|
| Start   | End           |            |                     |   |                      |
| <b>EP-2 - EP PERFORMANCE INDICATORS</b>               |               |            |                     |   |                      |
|   |               |            |                     |   | <b>2</b>             |
| 1   | 07/11/2016    | 07/15/2016 | IP 71151-EP01       | Drill/Exercise Performance  |                      |
| 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>TSB 52B - BIENNIAL PI&amp;R INSPECTION</b>         |               |            |                     |   |                      |
|   |               |            |                     |   | <b>4</b>             |
| 1, 2  | 08/08/2016    | 08/12/2016 | IP 71152B           | Problem Identification and Resolution   |                      |
| 1, 2  | 08/22/2016    | 08/26/2016 | IP 71152B           | Problem Identification and Resolution   |                      |
| <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>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 [Triennia ]   |                      |
| 1, 2  | 02/06/2017    | 02/10/2017 | IP 7111105T         | Fire Protection [Triennia ]   |                      |
| <b>EXAM - INITIAL EXAM</b>                            |               |            |                     |   |                      |
|   |               |            |                     |   | <b>5</b>             |
| 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)   |                      |
| <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  |                      |

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**  
**04/01/2016 - 12/31/2017**

| Unit<br>Number | Planned Dates |            | Inspection Activity                                 | Title  | No. of Staff<br>on Site |
|----------------|---------------|------------|---|--|-------------------------|
|                | Start         | End        |   |  |                         |
|                |               |            | <b>RS 13 PI - RADIATION SAFETY</b>                  |  | <b>3</b>                |
| 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                               |                         |
| 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                                   |                         |
|                |               |            | <b>EP-2 - EP PERFORMANCE INDICATOR VERIFICATION</b> |  | <b>1</b>                |
| 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  |                         |
|                |               |            | <b>ISFSI - DRY RUN INSPECTION (MULTIPLE WEEKS)</b>  |  | <b>1</b>                |
| 1, 2           | 06/01/2017    | 07/20/2017 | IP 60854.1  | Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants |                         |
|                |               |            | <b>RS 24 - RADIATION SAFETY</b>                     |  | <b>2</b>                |
| 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   |                         |
|                |               |            | <b>ISFSI - FIRST CASK LOADING INSPECTION</b>        |  | <b>1</b>                |
| 1, 2           | 08/01/2017    | 08/10/2017 | IP 60855.1  | Operation of an Independent Spent Fuel Storage Installation at Operating Plants                    |                         |
|                |               |            | <b>BRQ - BRQ INSPECTION</b>                         |  | <b>3</b>                |
| 1, 2           | 08/28/2017    | 09/01/2017 | IP 7111111B   | Licensed Operator Requalification Program  |                         |