



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
ARLINGTON, TEXAS 76011-4125

March 3, 2010

Edward D. Halpin, President  
and Chief Executive Officer  
STP Nuclear Operating Company  
South Texas Project  
P.O. Box 289  
Wadsworth, TX 77483

SUBJECT: ANNUAL ASSESSMENT LETTER – SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION (REPORT 05000498/2010001 AND  
05000499/2010001)

Dear Mr. Halpin:

On February 16, 2010, the NRC staff completed its performance review of the South Texas Project Electric Generating Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security-Related Information" will include the security cornerstone review and resultant inspection plan.

Overall, South Texas Electric Generating Station operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (817) 860-8148 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Wayne C. Walker, Chief  
Reactor Projects Branch A  
Division of Reactor Projects

Docket: 50-498, 50-499  
License: NPF-76, NPF-80

Enclosure: South Texas Project Electric Generating Station Inspection/Activity Plan

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File located: R:\\_REACTORS\EOC2010\STP.doc

SUNSI Rev Compl.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ADAMS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Reviewer Initials	WW
Publicly Avail	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sensitive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sens. Type Initials	WW
C:DRP/A	D:DRS	D:DRP	C:DRP/A		
WWalker	RJCaniano	DDChamberlain	WWalker		
<b>/RA/</b>	<b>/RA/</b>	<b>/RA/</b>	<b>/RA/</b>		
2/23/2010	2/23/2010	2/25/2010	2/25/2010		

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**South Texas Project**  
**Inspection / Activity Plan**  
 04/01/2010 - 06/30/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
<b>PBA-HDRP - STP UNIT 2 HEAD REPLACEMENT</b>					<b>2</b>
2	03/28/2010	05/02/2010	IP 71007	Reactor Vessel Head Replacement Inspection	
<b>PSB2-08P - INSERVICE INSPECTION - U2</b>					<b>2</b>
2	04/05/2010	04/23/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
2	04/05/2010	04/23/2010	IP 7111108P	Inservice Inspection Activities - PWR	
<b>RS - OCCUPATIONAL RADIATION SAFETY - OUTAGE</b>					<b>2</b>
1,2	04/12/2010	04/16/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
1,2	04/12/2010	04/16/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	04/12/2010	04/16/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/12/2010	04/16/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	04/12/2010	04/16/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
<b>EB1-21 - COMPONENT DESIGN BASIS INSPECTION</b>					<b>6</b>
1,2	07/26/2010	07/30/2010	IP 7111121	Component Design Bases Inspection	
1,2	08/09/2010	08/20/2010	IP 7111121	Component Design Bases Inspection	
<b>TSB-52B - BIENNIAL PI&amp;R</b>					<b>4</b>
1,2	08/30/2010	09/03/2010	IP 71152B	Identification and Resolution of Problems	
1,2	09/13/2010	09/17/2010	IP 71152B	Identification and Resolution of Problems	
<b>EP-1 - BIENNIAL EP EXERCISE INSPECTION</b>					<b>4</b>
1,2	10/25/2010	10/29/2010	IP 7111401	Exercise Evaluation	
1,2	10/25/2010	10/29/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	10/25/2010	10/29/2010	IP 71151-EP01	Drill/Exercise Performance	
1,2	10/25/2010	10/29/2010	IP 71151-EP02	ERO Drill Participation	
1,2	10/25/2010	10/29/2010	IP 71151-EP03	Alert & Notification System	
<b>RS45 - RADIATION SAFETY</b>					<b>2</b>
1,2	02/28/2011	03/04/2011	IP 71124.04	Occupational Dose Assessment	
1,2	02/28/2011	03/04/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	02/28/2011	03/04/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1,2	02/28/2011	03/04/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
<b>EB1-17 - 50.59 AND MODS</b>					<b>1</b>
1,2	03/07/2011	03/18/2011	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
<b>PSB2-08P - INSERVICE INSPECTION - U1</b>					<b>3</b>
1	04/03/2011	04/27/2011	IP 7111108P	Inservice Inspection Activities - PWR	
<b>EB2-05T - TRIENNIAL FIRE PROTECTION</b>					<b>1</b>
1,2	06/13/2011	06/17/2011	IP 7111105T	Fire Protection [Triennial]	
1,2	06/27/2011	07/01/2011	IP 7111105T	Fire Protection [Triennial]	

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