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

September 1, 2009

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

SUBJECT: MIDCYCLE PERFORMANCE REVIEW AND INSPECTION PLAN – SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

Dear Mr. Halpin:

On August 4, 2009, the NRC staff completed its performance review of the South Texas Project Electric Generating Station for the first half of the calendar year 2009 assessment cycle. Our technical staff reviewed performance indicators for the most recent quarter and inspection results over the previous 12 months. 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.

Plant performance for the most recent quarter 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 performance indicators indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2010. 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 end-of-cycle review. We are also evaluating potential changes to the inspection program in the radiation safety cornerstone. Consequently, some specific inspection procedures and the inspection schedule may be revised for 2010.

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 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 the 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,

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

Dockets: 50-498, 50-499
Licenses: NPF-76, NPF-80

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

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File located: _Reactors\EOC and Midcycle\Midcycle Assessment Letters\2009\STP.doc

SUNSI Rev Compl.	☒Yes ☐ No	ADAMS	☒Yes ☐ No	Reviewer Initials	WCW
Publicly Avail	☒Yes ☐ No	Sensitive	☐ Yes ☒ No	Sens. Type Initials	WCW

C:DRP/A	D:DRS	D:DRP		
WCWalker	RJCaniano	DDChamberlain		
/RA/	***/RA/***	***/RA/***		
8/18/09	8/18/09	8/19/09		

OFFICIAL RECORD COPY T=Telephone E=E-mail F=Fax

South Texas Project
Inspection / Activity Plan
09/01/2009 - 12/31/2010

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			EB1-08	**- U1 INSERVICE INSPECTION**	3
1	10/04/2009	11/08/2009	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
1	10/04/2009	11/08/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			RP-ORS5	**- OCCUPATIONAL RADIATION SAFETY - ACCESS**	1
1, 2	10/05/2009	10/09/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1, 2	10/05/2009	10/09/2009	IP 7112102	ALARA Planning and Controls	
2	10/05/2009	10/09/2009	IP 71151	Performance Indicator Verification	
			EP1	**- BIENNIAL EP PROGRAM INSPECTION**	1
1, 2	12/07/2009	12/11/2009	IP 7111402	Alert and Notification System Testing	
1, 2	12/07/2009	12/11/2009	IP 7111403	Emergency Response Organization Augmentation Testing	
1, 2	12/07/2009	12/11/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	12/07/2009	12/11/2009	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	12/07/2009	12/11/2009	IP 71151	Performance Indicator Verification	
			EXAM	**- INITIAL EXAM**	4
1	11/16/2009	11/20/2009	X02429	INITIAL EXAM UNIT 1-STP	
2	11/16/2009	11/20/2009	X02430	INITIAL EXAM UNIT 2-STP	
1	12/07/2009	12/11/2009	X02429	INITIAL EXAM UNIT 1-STP	
2	12/07/2009	12/11/2009	X02430	INITIAL EXAM UNIT 2-STP	
			RP TEAM	**- RADIATION SAFETY TEAM INSPECTION**	5
1, 2	01/25/2010	01/29/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
1, 2	01/25/2010	01/29/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1, 2	01/25/2010	01/29/2010	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
1, 2	01/25/2010	01/29/2010	IP 7112202	Radioactive Material Processing and Transportation	
1, 2	01/25/2010	01/29/2010	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
1, 2	01/25/2010	01/29/2010	IP 7113011	Material Control and Accounting (MC&A)	
			RP-ORS1	**- OCCUPATIONAL RADIATION SAFETY - ACCESS**	1
1, 2	03/29/2010	04/02/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1, 2	03/29/2010	04/02/2010	IP 7112102	ALARA Planning and Controls	
1	03/29/2010	04/02/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2	03/29/2010	04/02/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			EB1-08P	**- INSERVICE INSPECTION - U2**	3
2	04/05/2010	04/23/2010	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
2	04/05/2010	04/23/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			RP-ORS2	**- OCCUPATIONAL RADIATION SAFETY - ALARA**	1
1, 2	06/21/2010	06/25/2010	IP 7112101	Access Control to Radiologically Significant Areas	

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
09/01/2009 - 12/31/2010

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			RP-ORS2	**- OCCUPATIONAL RADIATION SAFETY - ALARA**	**1**
1, 2	06/21/2010	06/25/2010	IP 7112102	ALARA Planning and Controls	
2	06/21/2010	06/25/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	06/21/2010	06/25/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			EB1-21	**- COMPONENT DESIGN BASIS INSPECTION**	**6**
1, 2	07/19/2010	07/23/2010	IP 7111121	Component Design Bases Inspection	
1, 2	08/02/2010	08/13/2010	IP 7111121	Component Design Bases Inspection	
			PSB2-52B	**- BIENNIAL PI&R**	**4**
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	
			EP-1	**- BIENNIAL EP EXERCISE INSPECTION**	**3**
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	