



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

September 1, 2009

Rafael Flores, Senior Vice President  
and Chief Nuclear Officer  
Luminant Generation Company LLC  
Comanche Peak Steam Electric Station  
P.O. Box 1002  
Glen Rose, TX 76043

**SUBJECT: MIDCYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
COMANCHE PEAK STEAM ELECTRIC STATION**

Dear Mr. Flores:

On August 4, 2009, the NRC staff completed its performance review of the Comanche Peak Steam Electric 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.

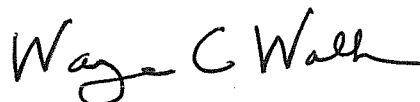
Plant performance for the most recent quarter at Comanche Peak Unit 1 and Unit 2 was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all performance indicators indicating performance at 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: 50-445, 50-446  
Licenses: NPF-87, NPF-89

Enclosure:  
Comanche Peak Inspection/Activity Plan

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Comanche Peak Steam Electric Station - 3 -

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

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|------------------|---|---------------|---|---------------------|-----|
| SUNSI Rev Compl. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | ADAMS         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Reviewer Initials   | WCW |
| Publicly Avail   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Sensitive     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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       |   |                     |     |

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Comanche Peak  
 Inspection / Activity Plan  
 09/01/2009 - 12/31/2010

| Unit Number | Planned Dates Start End | Inspection Activity                                    | Title   | No. of Staff on Site |
|-------------|-------------------------|--|---|----------------------|
| 2           | 10/13/2009 10/23/2009   | <b>EB1-08 - U2 INSERVICE INSPECTION</b>                | Reactor Coolant System Dissimilar Metal Butt Welds  | 2                    |
| 2           | 10/13/2009 10/23/2009   | IP 2515/172<br>IP 7111/108P                            | Inservice Inspection Activities - PWR   |                      |
| 1, 2        | 10/05/2009 10/09/2009   | <b>RP-ORS4 - OCCUPATIONAL RADIATION SAFETY</b>         | Access Control to Radiologically Significant Areas  | 1                    |
| 1, 2        | 10/05/2009 10/09/2009   | IP 7112/101<br>IP 7112/102                             | ALARA Planning and Controls   |                      |
| 1, 2        | 10/05/2009 10/09/2009   | IP 71151   | Performance Indicator Verification  |                      |
| 1, 2        | 11/16/2009 11/20/2009   | <b>RP-ORS5 - OCCUPATIONAL RADIATION SAFETY - ALARA</b> | Access Control to Radiologically Significant Areas  | 1                    |
| 1, 2        | 11/16/2009 11/20/2009   | IP 7112/101<br>IP 7112/102                             | ALARA Planning and Controls   |                      |
| 1, 2        | 11/16/2009 11/20/2009   | IP 71151   | Performance Indicator Verification  |                      |
| 1, 2        | 03/01/2010 03/05/2010   | <b>EP-1 - BIENNIAL EP PROGRAM INSPECTION</b>           | Alert and Notification System Testing   | 1                    |
| 1, 2        | 03/01/2010 03/05/2010   | IP 7111/402<br>IP 7111/403                             | Emergency Response Organization Augmentation Testing  |                      |
| 1, 2        | 03/01/2010 03/05/2010   | IP 7111/404  | Emergency Action Level and Emergency Plan Changes   |                      |
| 1, 2        | 03/01/2010 03/05/2010   | IP 7111/405  | Correction of Emergency Preparedness Weaknesses and Deficiencies                              |                      |
| 1, 2        | 03/01/2010 03/05/2010   | IP 71151-EP01  | Drill/Exercise Performance  |                      |
| 1, 2        | 03/01/2010 03/05/2010   | IP 71151-EP02  | ERO Drill Participation   |                      |
| 1, 2        | 03/01/2010 03/05/2010   | IP 71151-EP03  | Alert & Notification System   |                      |
| 1, 2        | 02/22/2010 02/26/2010   | <b>RP TEAM - RADIATION SAFETY TEAM INSPECTION</b>      | Radiation Monitoring Instrumentation and Protective Equipment                                 | 5                    |
| 1, 2        | 02/22/2010 02/26/2010   | IP 7112/103<br>IP 7112/201                             | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems                      |                      |
| 1, 2        | 02/22/2010 02/26/2010   | IP 7112/202  | Radioactive Material Processing and Transportation  |                      |
| 1, 2        | 02/22/2010 02/26/2010   | IP 7112/203  | Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program |                      |
| 1, 2        | 02/22/2010 02/26/2010   | IP 7113/011  | Material Control and Accounting (MC&A)  |                      |
| 1           | 02/22/2010 02/26/2010   | <b>EXAM - INITIAL EXAM</b>                             | INITIAL EXAM UNIT 1-CP  | 3                    |
| 2           | 02/22/2010 02/26/2010   | X02437<br>X02438                                       | INITIAL EXAM UNIT 2- CP   |                      |
| 1           | 03/29/2010 04/02/2010   | X02437   | INITIAL EXAM UNIT 1-CP  |                      |
| 2           | 03/29/2010 04/02/2010   | X02438   | INITIAL EXAM UNIT 2- CP   |                      |
| 1, 2        | 03/29/2010 04/02/2010   | <b>RP-ORS1 - OCCUPATIONAL RADIATION SAFETY - ALARA</b> | Access Control to Radiologically Significant Areas  | 1                    |
| 1, 2        | 03/29/2010 04/02/2010   | IP 7112/101<br>IP 7112/102                             | 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   |                      |

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

Comanche Peak  
 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 |
|-------------|---------------------|-------------------|---------------------|--|----------------------|
| 1           | 04/05/2010          | 04/16/2010        | <b>EB1-08</b>       | <b>- U1 INSERVICE INSPECTION</b>                   | 3                    |
|             |                     |                   | IP 2515/172         | Reactor Coolant System Dissimilar Metal Butt Welds |                      |
| 1           | 04/05/2010          | 04/16/2010        | IP 7111108P         | Inservice Inspection Activities - PWR              |                      |
| 1,2         | 04/05/2010          | 04/09/2010        | <b>RP-ORS2</b>      | <b>- OCCUPATIONAL RADIATION SAFETY - ACCESS</b>    | 1                    |
| 1,2         | 04/05/2010          | 04/09/2010        | IP 7112101          | Access Control to Radiologically Significant Areas |                      |
| 2           | 04/05/2010          | 04/09/2010        | IP 7112102          | ALARA Planning and Controls                        |                      |
| 1           | 04/05/2010          | 04/09/2010        | IP 71151-OR01       | Occupational Exposure Control Effectiveness        |                      |
| 1,2         | 04/05/2010          | 04/09/2010        | IP 71151-PR01       | RETS/ODCM Radiological Effluent                    |                      |
| 1,2         | 05/24/2010          | 06/18/2010        | <b>EB1-21</b>       | <b>- COMPONENT DESIGN BASES INSPECTION</b>         | 6                    |
|             |                     |                   | IP 7111121          | Component Design Bases Inspection                  |                      |
| 1,2         | 11/15/2010          | 11/19/2010        | <b>RP-ORS2</b>      | <b>- OCCUPATIONAL RADIATION SAFETY</b>             | 1                    |
| 1,2         | 11/15/2010          | 11/19/2010        | IP 7112101          | Access Control to Radiologically Significant Areas |                      |
| 1,2         | 11/15/2010          | 11/19/2010        | IP 7112102          | ALARA Planning and Controls                        |                      |
| 1,2         | 11/15/2010          | 11/19/2010        | IP 71151-OR01       | Occupational Exposure Control Effectiveness        |                      |
| 1,2         | 11/15/2010          | 11/19/2010        | IP 71151-PR01       | RETS/ODCM Radiological Effluent                    |                      |
| 1,2         | 11/29/2010          | 12/03/2010        | <b>BRQ</b>          | <b>- OPERATOR REQUAL INSPECTION</b>                | 3                    |
|             |                     |                   | IP 7111111B         | Licensed Operator Requalification Program          |                      |

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 This report shows only on-site and announced inspection procedures.