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U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
DOCKET NOS. 50-445/446
SUBMITTAL OF THE ANNUAL NON-RADIOLOGICAL
ENVIRONMENTAL OPERATING REPORT FOR 2007

Dear Sir or Madam:

Luminant Generation Company LLC (Luminant Power) hereby submits for Comanche Peak Steam Electric Station, herein referred to as Comanche Peak Nuclear Power Plant (CPNPP), the enclosed copy of the Annual Non-Radiological Environmental Operating Report for the CPSES Radiological Environmental Monitoring Program. This report is submitted pursuant to Appendix B of the CPSES Unit 1 and 2 Operating License Nos. NPF-87 and NPF-89. The report covers the period from January 1, 2007 through December 31, 2007 and summarizes the results of measurements and analysis of data obtained from samples collected during this interval.

If there are any questions regarding this report, contact Neil Harris at (254) 897-5449 or Bruce Turner at (254) 897-8901.

This communication contains no new licensing basis commitments regarding CPNPP Units 1 and 2.

Sincerely,

Luminant Generation Company LLC

Rafael Flores
Site Vice President

IE25
NRR

Enclosure - Annual Non-Radiological Environmental Operating Report for 2007

c - E. E. Collins, Region IV
B. K. Singal, NRR
Resident Inspectors, Comanche Peak

**TXU GENERATION COMPANY LP
(TXU POWER)**

COMANCHE PEAK NUCLEAR POWER PLANT

UNITS 1 & 2

2007

**ANNUAL ENVIRONMENTAL OPERATING REPORT
(NON-RADIOLOGICAL)**

FACILITY OPERATING LICENSE NOS. NPF-87 & 89

I. INTRODUCTION

This report describes implementation of the Environmental Protection Plan (EPP) for the calendar year 2007 as required by Appendix B to Facility Operating License Nos. NPF-87 & 89 for Comanche Peak Nuclear Power Plant (CPNPP) for Units 1 & 2.

During 2007, the CPNPP Nonradiological Environmental Monitoring Program was effective in implementing and monitoring all CPNPP environmental regulatory commitments. Program effectiveness in 2007 was substantiated by Luminant Corporate environmental audits and compliance evaluations of the CPNPP environmental program.

II. SCOPE

Section 5.4.1 of the EPP requires that CPNPP submit to the NRC an Annual Environmental Operating report that shall address the following environmental protection activities:

A. Summaries and analyses of the results of the environmental protection activities required by Section 4.2 of the EPP, including a comparison with related preoperational studies, operational controls (as appropriate), and previous nonradiological environmental monitoring reports, and an assessment of the observed impacts of plant operation on the environment. If harmful effects or evidence of trends toward irreversible damage to the environment are observed, a detailed analysis of the data and a proposed course of mitigating action is required. Section 4.2 of the EPP pertains to results from:

1. Groundwater levels and station water use monitoring.
2. Water treatment facility outages impact assessment and reporting.

B. The report shall also include:

1. A list of EPP noncompliances and the associated corrective actions.
2. A list of all changes in station design and operation, tests, and experiments made in accordance with Subsection 3.1 of the EPP which involved a potentially significant unreviewed environmental question.
3. A list of nonroutine reports submitted in accordance with Subsection 5.4.2 of the EPP.
4. A summary list of Texas Pollutant Discharge Elimination System (TPDES) permit related reports relative to matters identified in Subsection 2.1 of the EPP which were submitted to the Texas Commission on Environmental Quality (TCEQ) during the report period. Subsection 2.1 of the EPP pertains to aquatic matters that are addressed by the effluent limitations, and the monitoring requirements contained in the TCEQ TPDES station wastewater discharge permit.

III. RESULTS OF ACTIVITIES

A. As required by Subsection 4.2 of the EPP, the following are summaries and analyses of the environmental protection activities during 2007. Based on the results

of these activities, there were no observed adverse environmental impacts resulting from plant operation during 2007.

1. Groundwater Pumpage

As indicated in Table 1, groundwater pumpage during 2007 averaged 15.8 gals./min. (gpm) or 8,279,900 total gallons withdrawn for the year. This withdrawal rate represents a 8.8% decrease from the 2006 average rate of 17.3 gpm. Groundwater withdrawal was highest in February at 25.1 gpm and lowest in June and December with an average monthly withdrawal rate of 12.4 gpm.

Groundwater withdrawn during 2007 was used primarily for potable and sanitary purposes with only a very small amount used as make-up to the plant fire protection system. No groundwater was used to supplement the station's Surface Water Treatment System.

The average annual pumpage rate of 15.8 gpm for 2007 represents 12.4% of the predicted operational pumpage (127 gpm) identified in Section 3.3 of the Station's Environmental Report - Operational License Stage. This rate also represents approximately 10.0% of the actual average withdrawal rate (158 gpm) reported in the Station's Final Environmental Statement - Operating License Stage (Section 5.3.1.2) for the period 1975 to May 1979.

The combined annual rate for all recorded pre-operational groundwater pumpage averaged 68.8 gpm, while the average operational pumpage for the period 1990 through 2007 was 24.7 gpm. Therefore, the average operational rates are 64.1% less than the groundwater pumpage during the preoperational period. Figure 1 illustrates the annual fluctuation of groundwater withdrawal over the entire pre-operational and operational period.

2. Groundwater Levels

As indicated in Table 2, the groundwater level in the on-site observation well OB-3 (intersection of Highway 56 and the Plant Access Road) fluctuated during 2007 from a high level in July of 521.93 ft. Mean Sea Level (MSL) to a low level in January of 516.63 ft. MSL. Overall, the water level in OB-3 during the reporting period (January through December) decreased 3.1 ft. (0.94m).

The 2007 annual average groundwater levels in wells OB-3 and OB-4 were 519.56ft. MSL and 550.23ft. MSL, respectively. These average levels demonstrated a increase of 3.5 ft. (1.07m) for OB-3 and a increase of 6.66 ft.(2.74m) for OB-4 from the respective average 2006 levels (Figure 2).

As illustrated by Table 2, ground water levels increased during the reporting period. This increase coincided with increase rainfall of 37.7 inches during 2007 as compared to 28.9 inches in 2006.

3. Surface Water Treatment System Operation

The station's Water Treatment System processed 221,263,300 total gallons (421 gpm) of surface water during 2007 for plant process use. There were no outages during 2007 that required reporting in accordance with Section 4.2.2 of the EPP.

The following is a summary list of monthly surface water usage:

MONTH	SURFACE WATER PROCESSED (GALS.)
JANUARY	18,841,800
FEBRUARY	17,646,600
MARCH	16,079,700
APRIL	20,095,700
MAY	19,327,185
JUNE	17,978,255
JULY	16,617,260
AUGUST	17,512,400
SEPTEMBER	18,117,900
OCTOBER	19,429,000
NOVEMBER	19,092,000
DECEMBER	20,525,500
TOTAL	221,263,300

B. EPP Noncompliance and Corrective Actions - Subsection 5.4.1(1)

There were no noncompliances with the requirements of the EPP during the reporting period.

C. Changes In Station Design or Operation, Tests, and Experiments Made In Accordance With Subsection 3.1 Which Involved A Potentially Significant Unreviewed Environmental Question.

There were no changes in station design, operation, tests or experiments conducted during the reporting period that are reportable under this subsection.

D. Nonroutine Reports Submitted In Accordance With Subsection 5.4.2

Other than those nonroutine reports identified in section III.E, there were no other nonroutine reports submitted under this subsection.

E. Texas Pollutant Discharge Elimination System (TPDES) Permit-Related Reports Relative To Matters Identified In Subsections 2.1 and 5.4.1

1. Routine monthly Discharge Monitoring Reports (DMR) for all wastewater outfalls were submitted to the Texas Commission on Environmental Quality (TCEQ) for each month during 2007. The following is a summary list of correspondence pertaining to DMRs and TPDES permit related documents.

MONTH MONITORED	LOG NUMBER/DATE
JANUARY	TXE-07041-02/20/07
FEBRUARY	TXE-07062-03/20/07
MARCH	TXE-07077-04-20-07
APRIL	TXE-07093-05/22/07
MAY	TXE-07104-06/20/07
JUNE	TXE-07116-07/19/07
JULY	TXE-07125-08/16/07 TXE-07119-07/19/08
AUGUST	TXE-07135-09/20/07
SEPTEMBER	TXE-07144-10/19/07
OCTOBER	TXE-07166-11/15/07
NOVEMBER	TXE-07185-12/19/07
DECEMBER	TXE-08099-01/16/08 TXE-08010-01/16/08

2. Routine biomonitoring was conducted semi-annually in accordance with the TPDES Permit. The tests using the fathead minnow (*Pimephales promelas*) were passed in accordance with all criteria. The *Ceriodaphnia dubia* tests continued to be invalid due to insufficient survival and neonate production in the control (intake) water. On 2 May 2008, the Company submitted a request to the Texas Commission on Environmental Quality (TCEQ) for an alternate invertebrate species, *Daphnia magna*, for use in testing when the reservoir Total Dissolved Solids (TDS) concentrations are elevated. Successful testing was performed with this species with TCEQ approval during the 4th Quarter. This alternative test species is expected to be included as an option for testing at elevated TDS concentrations in the forthcoming TPDES Permit renewal.

3. There were no TPDES wastewater discharge permit noncompliances in 2007.
4. There were also no reportable spills during 2007.

TABLE 1
SUMMARY OF GROUNDWATER PUMPAGE
For 2007

MONTH	PLANT WELL 1		PLANT WELL 2		NOSF WELL 1		NOSF WELL 2		REC/TRAINING		TOTALS		NO. OF DAYS BETWEEN READINGS
	Total Gals.	Avg. Gal. Per Min.	Total Gals.	Avg. Gal. Per Min.	Total Gals.	Avg. Gal. Per Min.	Total Gals.	Avg. Gal. Per Min.	Total Gals.	Avg. Gal. Per Min.	Total Gals.	Avg. Gal. Per Min.	
January	396,200	8.9	339,600	7.6	57,900	1.3	64,400	1.4	2,200	0.0	860,300	19.3	31
February	623,500	15.5	256,500	6.4	65,000	1.6	65,000	1.6	1,300	0.0	1,011,300	25.1	28
March	650,000	14.6	239,200	5.4	58,900	1.3	61,000	1.4	1,200	0.3	1,010,300	22.6	31
April	440,000	10.2	348,900	8.1	39,000	0.9	32,100	0.7	1,200	0.1	861,200	19.9	30
May	499,900	11.2	0	0.0	52,200	1.2	56,500	1.3	1,500	0.1	610,100	13.7	31
June	181,600	4.2	245,100	5.7	52,600	1.2	55,700	1.3	1,500	0.1	536,500	12.4	30
July	71,400	1.6	593,800	13.3	39,500	0.9	48,800	1.1	1,400	<0.1	754,900	16.9	31
August	324,600	7.3	0	0.0	101,300	2.3	59,400	1.3	1,800	0.1	487,100	10.9	31
September	62,100	1.4	308,800	7.1	40,800	0.9	38,400	0.9	1,700	<0.1	451,800	10.5	30
October	345,500	7.7	155,600	3.5	40,700	0.9	40,200	0.9	1,200	<0.1	583,200	13.1	31
November	395,200	9.1	78,900	1.8	42,700	1.0	40,400	0.9	1,700	<0.1	558,900	12.9	30
December	14,800	0.3	461,300	10.3	41,200	0.9	35,200	0.8	1,800	<0.1	554,300	12.4	31
TOTAL	4,004,800	7.7	3,027,700	5.8	631,800	1.2	597,100	1.1	18,500	0.1	8,279,900	15.8	365

TABLE 2**2007 SUMMARY OF GROUNDWATER
LEVELS IN OBSERVATION WELLS**

MONTH	WELL OB-3 (G-3)		WELL OB-4 (G-4)	
	DEPTH (1)	MSL (2)	DEPTH (1)	MSL (2)
January	277.2	516.63	302.01	545.87
February	276.8	517.03	300.97	546.91
March	276.1	517.73	299.94	547.94
April	274.82	519.01	298.13	549.75
May	273.7	520.13	296.3	551.58
June	272.45	521.38	294.98	552.90
July	271.9	521.93	294.11	553.77
August	272.55	521.28	296.32	551.56
September	274.2	519.63	297.57	550.31
October	273.75	520.08	298.54	549.34
November	273.67	520.16	297.56	550.32
December	274.10	519.73	295.35	552.53

ANNUAL GROUNDWATER LEVEL CHANGE FOR 2005:

Well OB-3: 277.2 ft. - 274.1 ft = 3.1ft. = 0.94 m (increase)

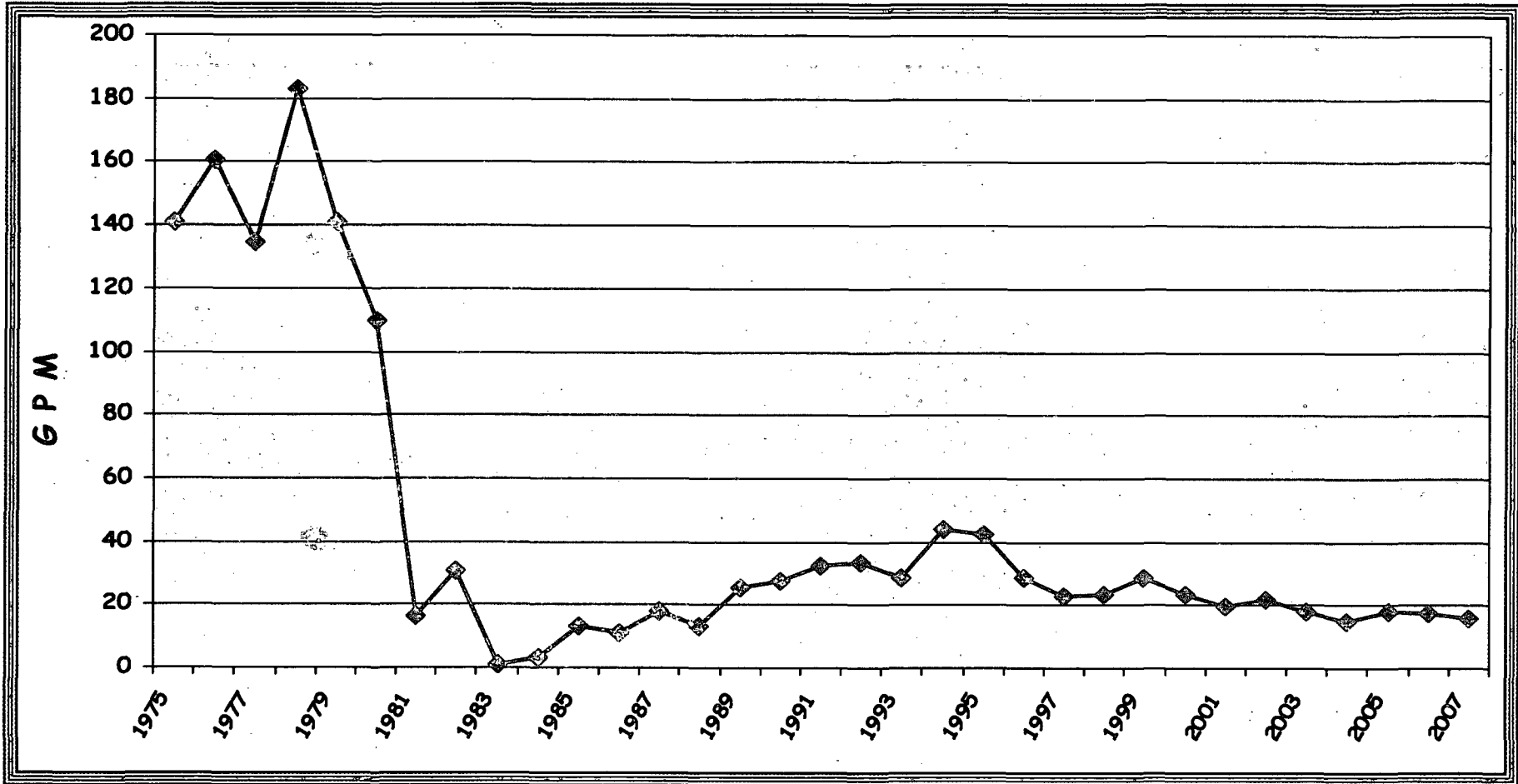
Well OB-4: 302.01 ft. - 295.35 ft = 6.66 ft. = 2.03 m (increase)

NOTES:

- (1) Depth to water table (ft.)
(2) Water table elevation (ft.) Mean Sea Level (MSL)

FIGURE 1
SUMMARY OF GROUNDWATER PUMPAGE
1975 THROUGH 2007 (GPM)

Annual Groundwater Pumpage



1. 2/8/90 - Unit #1 Operational. Discontinued using treated surface water for potable use.
2. 2/2/93 - Unit #2 Operational

FIGURE 2
ANNUAL AVERAGE GROUNDWATER LEVEL
1980 through 2007

