



John R. Dreyfuss  
Plant Manager  
Luminant  
P.O. Box 1002  
6322 North FM 56  
Glen Rose, TX 76043  
o 254.897.5200

CP-201900018  
TXX-19003

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Ref 10 CFR 50.73

1/16/2019

SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT  
DOCKET NO. 50-446  
AUTOMATIC ACTUATION OF AUXILIARY FEEDWATER SYSTEM  
LICENSEE EVENT REPORT 446/18-002-00

Dear Sir or Madam:

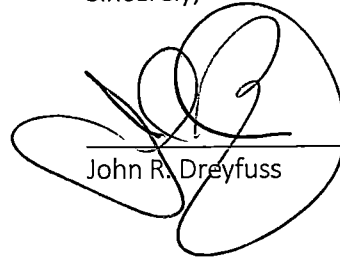
Pursuant to 10CFR50.73, Vistra Operations Company LLC (Vistra OpCo), hereby submits the enclosed Licensee Event Report 446/18-002-00, "Automatic Actuation Of Auxiliary Feedwater System" for Comanche Peak Nuclear Power Plant (CPNPP) Unit 2.

This communication contains no new licensing basis commitments regarding CPNPP Unit 2.

IEZZ  
NRR

If you have any questions regarding this submittal, please contact Gary L. Merka at 254-897-6613.

Sincerely,



John R. Dreyfuss

Enclosure

c - Scott A. Morris, Region IV  
Margaret Watford O'Banion, NRR  
Resident Inspectors, Comanche Peak

**LICENSEE EVENT REPORT (LER)**

(See Page 2 for required number of digits/characters for each block)

(See NUREG-1022, R.3 for instruction and guidance for completing this form  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/>)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**1. FACILITY NAME**

Comanche Peak Nuclear Power Plant

**2. DOCKET NUMBER**

05000 446

**3. PAGE**

1 OF 3

**4. TITLE**

Automatic Actuation Of Auxiliary Feedwater System

**5. EVENT DATE**

MONTH	DAY	YEAR
12	03	2018

**6. LER NUMBER**

YEAR	SEQUENTIAL NUMBER	REV NO.
2018	002	00

**7. REPORT DATE**

MONTH	DAY	YEAR
01	16	2019

**8. OTHER FACILITIES INVOLVED**

FACILITY NAME	DOCKET NUMBER
	05000

**9. OPERATING MODE****11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)**

1

<input type="checkbox"/> 20.2201(b)
<input type="checkbox"/> 20.2201(d)
<input type="checkbox"/> 20.2203(a)(1)
<input type="checkbox"/> 20.2203(a)(2)(i)

<input type="checkbox"/> 20.2203(a)(3)(i)
<input type="checkbox"/> 20.2203(a)(3)(ii)
<input type="checkbox"/> 20.2203(a)(4)
<input type="checkbox"/> 50.36(c)(1)(i)(A)

<input type="checkbox"/> 50.73(a)(2)(ii)(A)
<input type="checkbox"/> 50.73(a)(2)(ii)(B)
<input type="checkbox"/> 50.73(a)(2)(iii)
<input checked="" type="checkbox"/> 50.73(a)(2)(iv)(A)

<input type="checkbox"/> 50.73(a)(2)(viii)(A)
<input type="checkbox"/> 50.73(a)(2)(viii)(B)
<input type="checkbox"/> 50.73(a)(2)(ix)(A)
<input type="checkbox"/> 50.73(a)(2)(x)

**10. POWER LEVEL**

100

<input type="checkbox"/> 20.2203(a)(2)(ii)
<input type="checkbox"/> 20.2203(a)(2)(iii)
<input type="checkbox"/> 20.2203(a)(2)(iv)
<input type="checkbox"/> 20.2203(a)(2)(v)
<input type="checkbox"/> 20.2203(a)(2)(vi)

<input type="checkbox"/> 50.36(c)(1)(ii)(A)
<input type="checkbox"/> 50.36(c)(2)
<input type="checkbox"/> 50.46(a)(3)(ii)
<input type="checkbox"/> 50.73(a)(2)(i)(A)
<input type="checkbox"/> 50.73(a)(2)(i)(B)

<input type="checkbox"/> 50.73(a)(2)(v)(A)
<input type="checkbox"/> 50.73(a)(2)(v)(B)
<input type="checkbox"/> 50.73(a)(2)(v)(C)
<input type="checkbox"/> 50.73(a)(2)(v)(D)
<input type="checkbox"/> 50.73(a)(2)(vii)

<input type="checkbox"/> 73.71(a)(4)
<input type="checkbox"/> 73.71(a)(5)
<input type="checkbox"/> 73.77(a)(1)
<input type="checkbox"/> 73.77(a)(2)(i)
<input type="checkbox"/> 73.77(a)(2)(ii)

<input type="checkbox"/> 50.73(a)(2)(i)(C)
--

<input type="checkbox"/> OTHER Specify in Abstract below or in NRC Form 366A
--

**12. LICENSEE CONTACT FOR THIS LER****LICENSEE CONTACT**

Timothy A. Hope, Manager, Regulatory Affairs

**TELEPHONE NUMBER (Include Area Code)**

6370

**13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT**

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

**14. SUPPLEMENTAL REPORT EXPECTED**☐ YES (If yes, complete 15. EXPECTED SUBMISSION DATE) ☒ NO**15. EXPECTED SUBMISSION DATE**

MONTH	DAY	YEAR

**ABSTRACT** (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

At 0315 on December 3, 2018, Comanche Peak Nuclear Power Plant (CPNPP) experienced a loss of the 138 kV West Bus. Since the 138 kV East Bus was out of service for transmission line maintenance, this resulted in a transfer of the Unit 2 safety buses to the alternate off site power source and an actuation of both Unit 2 blackout sequencers and an automatic start of both Unit 2 Motor Driven Auxiliary Feedwater pumps (MDAFWPs) and the Unit 2 Turbine Driven Auxiliary Feedwater pump (TDAFWP). The Emergency Diesel Generators did not start since they were not required to start due to a successful bus transfer. There was no impact on Unit 1.

The cause of this event was a power fault on off site equipment not owned by CPNPP. The Unit 2 MDAFWPs and the TDAFWP were stopped and returned to automatic. The off site source was recovered at 0416 on December 3, 2018. All times in this report are approximate and Central Standard Time unless noted otherwise.

**LICENSEE EVENT REPORT (LER)  
CONTINUATION SHEET**

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1. FACILITY NAME		2. DOCKET NUMBER		3. LER NUMBER		
Comanche Peak Nuclear Power Plant		05000-	446	YEAR 18	SEQUENTIAL NUMBER 002	REV NO. 00

**NARRATIVE****I. DESCRIPTION OF THE REPORTABLE EVENT****A. REPORTABLE EVENT CLASSIFICATION**

This event is reportable under 10CFR50.73(a)(2)(iv)(A), "Any event or condition that resulted in manual or automatic actuation of any of the systems listed in paragraph (a)(2)(iv)(B) of this section." The system that actuated was the Unit 2 Auxiliary Feedwater System.

**B. PLANT CONDITION PRIOR TO EVENT**

At 0315 on December 3, 2018, Comanche Peak Nuclear Power Plant (CPNPP) Unit 2 was in MODE 1 operating at 100% power.

**C. STATUS OF STRUCTURES, SYSTEMS, OR COMPONENTS THAT WERE INOPERABLE AT THE START OF THE EVENT AND THAT CONTRIBUTED TO THE EVENT**

At the start of this event, the 138 kV East Bus was out of service for transmission line maintenance.

**D. NARRATIVE SUMMARY OF THE EVENT, INCLUDING DATES AND APPROXIMATE TIMES**

At 0315 on December 3, 2018, CPNPP experienced a loss of the 138 kV West Bus [EIS: (FK)(JX)]. Since the 138 kV East Bus was out of service for transmission line maintenance, this resulted in a transfer of the Unit 2 safety buses to the alternate off site power source and an actuation of both Unit 2 blackout sequencers and an automatic start of both Unit 2 Motor Driven Auxiliary Feedwater pumps (MDAFWPs) [EIS: (BA)(P)] and the Unit 2 Turbine Driven Auxiliary Feedwater pump (TDAFWP) [EIS: (BA)(P)]. The Emergency Diesel Generators did not start since they were not required to start due to a successful bus transfer. The MDAFWPs and the TDAFWP were returned to automatic. The off site source was recovered at 0416 on December 3, 2018. There was no impact on Unit 1.

**E. THE METHOD OF DISCOVERY OF EACH COMPONENT OR SYSTEM FAILURE, OR PROCEDURAL PERSONNEL ERROR**

Operators (Utility, Licensed) in the Unit 2 Control Room received alarms related to "Loss Of Startup/Station Service Transformers."

**II. COMPONENT OR SYSTEM FAILURES****A. CAUSE OF EACH COMPONENT OR SYSTEM FAILURE**

Not applicable - There were no component or system failures with any CPNPP components during this event. The loss of the 138 kV West Bus was caused by a fault on off site metering equipment owned by another electric company.

**B. FAILURE MODE, MECHANISM, AND EFFECTS OF EACH FAILED COMPONENT**

Not applicable - No CPNPP component or system failures were identified during this event.

**C. SYSTEMS OR SECONDARY FUNCTIONS THAT WERE AFFECTED BY FAILURE OF COMPONENTS WITH MULTIPLE FUNCTIONS**

Not applicable - No CPNPP component or system failures were identified during this event.



## LICENSEE EVENT REPORT (LER) CONTINUATION SHEET

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Comanche Peak Nuclear Power Plant	05000-446	YEAR 18	SEQUENTIAL NUMBER 002	REV NO. 00

### NARRATIVE

#### D. FAILED COMPONENT INFORMATION

Not applicable - No CPNPP component or system failures were identified during this event.

#### III. ANALYSIS OF THE EVENT

##### A. SAFETY SYSTEM RESPONSES THAT OCCURRED

The Unit 2 safety buses transferred to the alternate off site power source, both Unit 2 blackout sequencers actuated, and both Unit 2 MDAFWPs and the Unit 2 TDAFWP automatically started as designed.

##### B. DURATION OF SAFETY SYSTEM TRAIN INOPERABILITY

This event did not involve the inoperability of any safety systems. Off site power is not credited in Chapter 15 of the CPNPP Final Safety Analysis Report, therefore, offsite power is not considered a safety system.

##### C. SAFETY CONSEQUENCES AND IMPLICATIONS OF THE EVENT

During this event, the 345kV switchyard was available and stable. Unit 2 remained at 100 percent power and Unit 1 was not affected by this event. All plant safety systems responded as designed during this event. This event had no impact on nuclear safety, reactor safety, radiological safety, environmental safety or the safety of the public. This event has been evaluated to not meet the definition of a safety system functional failure per 10 CFR 50.73(a)(2)(v).

#### IV. CAUSE OF THE EVENT

The loss of the 138 KV West Bus was caused by a fault on off site metering equipment that is owned by another electric company.

#### V. CORRECTIVE ACTIONS

The MDAFWPs and the TDAFWP were returned to automatic. The off site source was recovered at 0416 on December 3, 2018. There were no component or system failures with any CPNPP components during this event.

#### VI. PREVIOUS SIMILAR EVENTS

There have been no previous similar reportable events at CPNPP in the last three years.