



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
WASHINGTON, D.C. 20555-0001

February 2, 2017

Mr. Ken J. Peters  
Senior Vice President and Chief  
Nuclear Officer  
Attention: Regulatory Affairs  
TEX Operations Company LLC  
P.O. Box 1002  
Glen Rose, TX 76043

**SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 1 AND 2– STAFF  
REVIEW OF MITIGATION STRATEGIES ASSESSMENT REPORT OF THE  
IMPACT OF THE REEVALUATED SEISMIC HAZARD DEVELOPED IN  
RESPONSE TO THE MARCH 12, 2012, 50.54(f) LETTER (CAC NOS. MF7817  
AND MF7818)**

Dear Mr. Peters:

The purpose of this letter is to provide the U.S. Nuclear Regulatory Commission's (NRC's) assessment of the seismic hazard mitigation strategies assessment (MSA), as described in a January 26, 2017, letter (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17030A044) submitted by TEX Operations Company LLC (the licensee), doing business as Luminant Power, for Comanche Peak Nuclear Power Plant, Units 1 and 2 (Comanche Peak). The MSA confirms that the licensee has adequately addressed the reevaluated seismic hazard within its mitigating strategies for beyond-design-basis external events.

**BACKGROUND**

By letter dated March 12, 2012 (ADAMS Accession No. ML12053A340), the NRC issued a request for information pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.54(f) (hereafter referred to as the 50.54(f) letter). The 50.54(f) letter was issued as part of implementing lessons learned from the accident at the Fukushima Dai-ichi nuclear power plant. Enclosure 1 to the 50.54(f) letter requested licensees reevaluate the seismic hazard using present-day methodologies and guidance. Concurrent with the reevaluation of seismic hazards, the NRC issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" (ADAMS Accession No. ML12054A736). The order requires holders of operating power reactor licenses and construction permits issued under 10 CFR Part 50 to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling following a beyond-design-basis external event.

By letter dated March 27, 2014 (ADAMS Accession No. ML14099A197), the licensee provided its reevaluated seismic hazard for Comanche Peak in response to the 50.54(f) letter.

On December 10, 2015 (ADAMS Accession No. ML16005A621), the Nuclear Energy Institute (NEI) submitted Revision 2 to NEI 12-06, including guidance for MSAs regarding reevaluated hazard information. The NRC subsequently endorsed NEI 12-06, Revision 2, with exceptions, clarifications, and additions, in Japan Lessons-Learned Division (JLD) interim staff guidance (ISG) JLD-ISG-2012-01, Revision 1, "Compliance with Order EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" (ADAMS Accession No. ML15357A163).

### MITIGATION STRATEGIES ASSESSMENT

By letter dated January 22, 2016 (ADAMS Accession No. ML16014A125), the NRC staff documented its review of the licensee's reevaluated seismic hazard, also referred to as the mitigating strategies seismic hazard information. The staff confirmed the licensee's conclusion that its reevaluated seismic hazard is bounded by the current design basis at all frequencies above 1 Hertz (Hz). In addition, the staff concluded that the ground motion response spectrum determined by the licensee adequately characterizes the reevaluated seismic hazard for the Comanche Peak site.

Appendix H of NEI 12-06, Revision 2, describes acceptable methods for demonstrating that the reevaluated seismic hazard is addressed within the Comanche Peak mitigating strategies for beyond-design-basis external events. The licensee stated that the Comanche Peak MSA was performed consistent with NEI 12-06, Revision 2. The NRC staff confirmed that the licensee's seismic hazard MSA is consistent with the guidance in Appendix H.4.1 of NEI 12-06, Revision 2, as endorsed by JLD-ISG-2012-01, Revision 1. Therefore, the methodology used by the licensee is appropriate to perform an assessment of the mitigation strategies that addresses the reevaluated seismic hazard.

The NRC staff has reviewed the seismic hazard MSA for Comanche Peak. The NRC staff concludes that sufficient information has been provided to demonstrate that the licensee's plans for the development and implementation of guidance and strategies under Order EA-12-049 appropriately address the reevaluated seismic hazard information stemming from the 50.54(f) letter.

K. Peters

- 3 -

If you have any questions, please contact me at (301) 415-1617 or via e-mail at Frankie.Vega@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frankie Vega', with a stylized flourish at the end.

Frankie Vega, Project Manager  
Hazards Management Branch  
Japan Lessons-Learned Division  
Office of Nuclear Reactor Regulation

Docket Nos. 50-445 and 50-446

cc: Distribution via Listserv

COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 1 AND 2- STAFF REVIEW OF  
MITIGATION STRATEGIES ASSESSMENT REPORT OF THE IMPACT OF THE  
REEVALUATED SEISMIC HAZARD DEVELOPED IN RESPONSE TO THE MARCH 12, 2012,  
50.54(f) LETTER DATED February 2, 2017

**DISTRIBUTION:**

PUBLIC

JHMB R/F

RidsNrrDorLPL4 Resource

RidsNrrPMComanchePeak Resource

RidsNrrLASLent Resource

RidsAcrsAcnw\_MailCTR Resource

FVega, NRR

BTitus, NRR

EBowman, NRR

GBowman, NRR

**ADAMS Accession No. : ML17031A005****\* via e-mail**

<b>OFFICE</b>	NRR/JLD/JHMB/PM	NRR/JLD/LA	NRR/JLD/JHMB/BC(A)	NRR/JLD/JHMB/PM
<b>NAME</b>	FVega	SLent	GBowman	FVega
<b>DATE</b>	02/01/2017	01/31/2017	02/02/2017	02/02/2017

**OFFICIAL RECORD COPY**