



**INDIANA  
MICHIGAN  
POWER**

*A unit of American Electric Power*

**Indiana Michigan Power**  
Cook Nuclear Plant  
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March 27, 2014

AEP-NRC-2014-25  
10 CFR 50.54(f)

Docket Nos.: 50-315  
50-316

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
11555 Rockville Pike,  
Rockville, MD 20852

Donald C. Cook Nuclear Plant Units 1 and 2  
Seismic Hazard and Screening Report (CEUS Sites), Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident

References:

1. Letter from E. J. Leeds and M. R. Johnson, U. S. Nuclear Regulatory Commission (NRC), to All Power Reactor Licensees and Holders of Construction Permits in Active or Deferred Status, "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," dated March 12, 2012, ADAMS Accession Number ML12053A340.
2. Letter from T. Pietrangelo, Nuclear Energy Institute (NEI), to D. L. Skeen, NRC, "Proposed Path Forward for NTTF Recommendation 2.1: Seismic Reevaluations," dated April 9, 2013, ADAMS Accession No. ML13101A379.
3. Letter from E. J. Leeds, NRC, to J. E. Pollock, NEI, "Electric Power Research Institute Final Draft Report XXXXXX, 'Seismic Evaluation Guidance: Augmented Approach For The Resolution Of Fukushima Near-Term Task Force Recommendation 2.1: Seismic,' As An Acceptable Alternative To The March 12, 2012, Information Request For Seismic Reevaluations," dated May 7, 2013, ADAMS Accession No. ML13106A331.
4. Letter from E. J. Leeds, NRC, to All Power Reactor Licensees and Holders of Construction Permits in Active or Deferred Status on the Enclosed List, "Supplemental Information Related To Request For Information Pursuant To Title 10 Of The Code Of Federal Regulations 50.54(f) Regarding Seismic Hazard Reevaluations For Recommendation 2.1 Of The Near-Term Task Force Review Of Insights From The Fukushima Dai-ichi Accident," dated February 20, 2014, ADAMS Accession No. ML14030A046.

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5. Electrical Power Research Institute (EPRI) Report 1025287, Seismic Evaluation Guidance, Screening, Prioritization and Implementation Details (SPID) for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic, ADAMS Accession No. ML12333A170.
6. Letter from D. L. Skeen, NRC, to J. E. Pollock, NEI, Endorsement of EPRI Final Draft Report 1025287, "Seismic Evaluation Guidance," dated February 15, 2013, ADAMS Accession No. ML12319A074.

On March 12, 2012, the U. S. Nuclear Regulatory Commission (NRC) issued Reference 1 to all power reactor licensees and holders of construction permits in active or deferred status. Enclosure 1 of Reference 1 requested each addressee located in the Central and Eastern United States (CEUS) to submit a Seismic Hazard Evaluation and Screening Report within 1.5 years from the date of Reference 1.

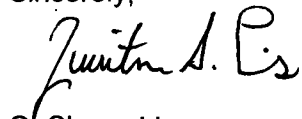
In Reference 2 the Nuclear Energy Institute (NEI) requested NRC agreement to delay submittal of the final CEUS Seismic Hazard Evaluation and Screening Reports so that an update to the Electric Power Research Institute ground motion attenuation model could be completed and used to develop that information. NEI proposed that descriptions of subsurface materials and properties and base case velocity profiles be submitted to the NRC by September 12, 2013, with the remaining seismic hazard and screening information submitted by March 31, 2014. NRC agreed with that proposed path forward in References 3 and 4.

Reference 5 contains industry guidance and detailed information to be included in the Seismic Hazard Evaluation and Screening Report submittals. NRC endorsed this industry guidance in Reference 6.

Enclosure 2 provides Indiana Michigan Power Company's, licensee for Donald C. Cook Nuclear Plant, Seismic Hazard Evaluation and Screening Report for the Cook Nuclear Plant which provides the information described in Section 4 of Reference 5 in accordance with the schedule identified in Reference 2.

There are no new or revised commitments in this letter. Should you have any questions, please contact Mr. Michael K. Scarpello, Regulatory Affairs Manager, at (269) 466-2649.

Sincerely,



Q. Shane Lies  
Engineering Vice President, Indiana Michigan Power

JJV/amp

Enclosures:

1. Affirmation
2. Seismic Hazard and Screening Report for the Cook Nuclear Plant (CNP)

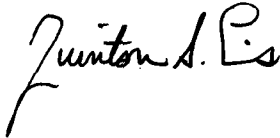
c: J. T. King, MPSC  
MDEQ – RMD/RPS  
NRC Resident Inspector  
C. D. Pederson, NRC Region III  
T. J. Wengert, NRC Washington DC  
A. J. Williamson, AEP Ft. Wayne, w/o enclosure

Enclosure 1 to AEP-NRC-2014-25

**AFFIRMATION**

I, Q. Shane Lies, being duly sworn, state that I am the Engineering Vice President of Indiana Michigan Power Company (I&M), that I am authorized to sign and file this request with the U. S. Nuclear Regulatory Commission on behalf of I&M, and that the statements made and the matters set forth herein pertaining to I&M are true and correct to the best of my knowledge, information, and belief.

Indiana Michigan Power Company



Q. Shane Lies  
Engineering Vice President, Indiana Michigan Power

SWORN TO AND SUBSCRIBED BEFORE ME

THIS 27 DAY OF March, 2014

  
Notary Public

My Commission Expires 04-04-2018

**DANIELLE BURGOYNE**  
Notary Public, State of Michigan  
County of Berrien  
My Commission Expires 04-04-2018  
Acting in the County of Berrien