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August 8, 2016

L-16-195

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

**SUBJECT:**

Davis-Besse Nuclear Power Station, Unit No. 1  
Docket No. 50-346, License No. NPF-3  
Steam Generator Tube Circumferential Crack Report – Spring 2016 Refueling Outage

In accordance with Davis-Besse Nuclear Power Station (DBNPS) License Condition 2.C(7), "Steam Generator Tube Circumferential Crack Report," FirstEnergy Nuclear Operating Company (FENOC) is required to submit an evaluation within 3 months following the completion of steam generator tube inservice inspection. The DBNPS SGs were replaced in 2014 with new Babcock and Wilcox Replacement Once Through Steam Generators (OTSG), and as a result, DBNPS is no longer licensed to perform repair reroll. Structural and accident induced leakage integrity are evaluated analytically based on the degradation mechanism's characteristics, including circumferential extent, axial length, and percent through-wall depth. All indications of tube degradation were evaluated against the large-break loss-of-coolant accident (LBLOCA) loading for leakage integrity. All reported indications met condition monitoring criteria, and there were no indications of circumferential cracking identified, demonstrating reasonable assurance that the performance criteria for LBLOCA loading will continue to be satisfied throughout the next operating cycle. Therefore, it is bounded by current analyses, does not result in a significant increase of radionuclide release in excess of 10 CFR 100 limits, and demonstrates that adequate margin and defense-in-depth continue to be maintained. This letter satisfies License Condition 2.C(7) for evaluating that the primary-to-secondary leakage following a LBLOCA continues to be acceptable.

There are no regulatory commitments contained in this letter. If there are any questions of if additional information is required, please contact Mr. Thomas A. Lentz, Manager – Fleet Licensing, at (330) 315-6810.

Sincerely,



Brian D. Boles

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cc: NRC Region III Administrator  
NRC Resident Inspector  
NRC Project Manager  
Utility Radiological Safety Board