



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

September 11, 2025

Mr. Steven M. Snider
Site Vice President, Oconee Nuclear Station
Duke Energy Carolinas, LLC
7800 Rochester Highway
Seneca, SC 29672-0752

SUBJECT: OCONEE NUCLEAR STATION, UNIT NOS. 1, 2, AND 3 – STAFF
ASSESSMENT OF UPDATED SEISMIC HAZARDS FOLLOWING THE NRC
PROCESS FOR THE ONGOING ASSESSMENT OF NATURAL HAZARDS
INFORMATION

Dear Mr. Snider:

The purpose of this letter is to document the U.S. Nuclear Regulatory Commission (NRC) staff's assessment of seismic hazards at Oconee Nuclear Station (Oconee), Units 1, 2, and 3, following its Process for the Ongoing Assessment of Natural Hazards Information (POANHI) which was initiated in response to a new seismic ground motion model for the central and eastern North America hazards.¹

In response to this new information, the NRC staff developed an initial set of thirteen sites for which a more detailed evaluation of seismic hazards and plant response would be performed. This initial list included Oconee. The NRC staff evaluated the selected sites in order of those most likely to warrant further evaluation or regulatory action. To date, ten site evaluations have been performed, and in all ten cases, the NRC staff determined that no additional regulatory action was warranted. Considering the reduced likelihood of regulatory actions resulting from further reviews, the NRC staff has concluded that no further regulatory evaluation or action is warranted for Oconee under the POANHI process.

Although the NRC staff is taking no further action at this time, new hazard information may be considered in the context of potential future evaluations of the site by the NRC staff (e.g., future license amendment requests) consistent with agency policy procedures (e.g., NRC Management Directive 8.4, "Management of Backfitting, Forward Fitting, Issue Finality, and Information Requests").

¹ Additional information regarding this review is available at: <https://www.nrc.gov/reactors/operating/ops-experience/poanhi/seismic-activities.html>

If you have any questions, please contact me at (301) 415-2481 or via email at ed.miller@nrc.gov.

Sincerely,

/RA/

G. Edward Miller, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-269, 50-270, and 50-287

SUBJECT: OCONEE NUCLEAR STATION, UNIT NOS. 1, 2, AND 3 – STAFF
 ASSESSMENT OF UPDATED SEISMIC HAZARDS FOLLOWING THE NRC
 PROCESS FOR THE ONGOING ASSESSMENT OF NATURAL HAZARDS
 INFORMATION DATED SEPTEMBER 11, 2025

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