



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

November 25, 2014

Mr. Kelvin Henderson
Site Vice President
Duke Energy Carolinas, LLC
Catawba Nuclear Station
4800 Concord Road
York, SC 29745

**SUBJECT: CATAWBA NUCLEAR STATION, UNITS 1 AND 2 - REQUEST FOR
ADDITIONAL INFORMATION ASSOCIATED WITH NEAR-TERM TASK
FORCE RECOMMENDATION 2.1, SEISMIC HAZARD AND SCREENING
REPORT (TAC NOS. MF3965 AND MF3966)**

Dear Mr. Henderson:

By letter dated March 31, 2014¹, to the U.S. Nuclear Regulatory Commission (NRC), Duke Energy Carolinas, LLC (Duke) the licensee for Catawba Nuclear Station, Units 1 and 2 (Catawba), submitted for NRC review the Seismic Hazard and Screening Report, Pursuant to Title 10 of the *Code of Federal Regulations* Part 50, Section 50.54(f), Response for Information Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident.

The NRC staff has reviewed the information provided for Catawba's seismic hazard reevaluation and has determined that additional information is required to complete its review. Enclosed is a request for additional information (RAI) related to Section 2.3.2 "Development of Base Case Profiles and Nonlinear Material Properties" of the seismic hazard reevaluation report for the Catawba Nuclear Station. As discussed with your staff on November 13, 2014, it was agreed that a response would be provided no later than January 9, 2015.

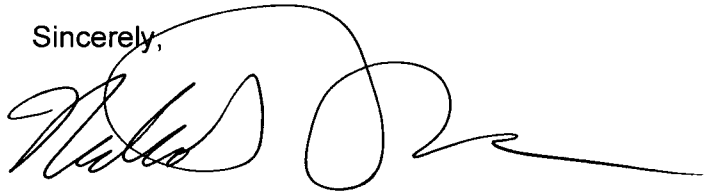
¹ Catawba Seismic Hazard Evaluation Report dated March 31, 2014, can be found under Agencywide Documents Access and Management System (ADAMS) Accession No. ML14093A052.

K. Henderson

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If you have any questions related to the enclosed RAIs or response date, please contact me at 301-415-1115 or via e-mail at Nicholas.DiFrancesco@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick DiFrancesco', with a large, stylized flourish extending to the right.

Nicholas J. DiFrancesco, Senior Project Manager
Hazards Management Branch
Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION
NEAR-TERM TASK FORCE RECOMMENDATION 2.1
SEISMIC HAZARD AND SCREENING REPORT
CATAWBA NUCLEAR STATION UNITS 1 AND 2
DOCKET NOS. 50-413 & 50-414

By letter dated March 31, 2014¹, to the U.S. Nuclear Regulatory Commission (NRC), Duke Energy Carolinas, LCC (Duke) the licensee for Catawba Nuclear Station, Units 1 and 2 (Catawba), submitted for NRC review the Seismic Hazard and Screening Report, Pursuant to Title 10 of the *Code of Federal Regulations* Part 50, Section 50.54(f) (hereafter referred to as the 50.54(f) letter), Response for Information Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident.

Review of the location of the SSE control point used in the site response profile

According to the Catawba, Units 1 and 2 Final Safety Analysis Report (FSAR), the acceleration value for the Safe Shutdown Earthquake (SSE), chosen for foundations on closely jointed rock and slightly weathered rock, is 0.15 g. Section 2.3.2 of the Catawba Nuclear Station, Units 1 and 2 Seismic Hazard and Screening Report states that the SSE control point considered the inclusion of fill concrete in the site response profile.

The NRC Staff has reviewed the information submitted and has determined that the following request for additional information (RAI) below is needed to complete its review.

RAI # 1

Consistent with the 50.54(f) letter and the SPID guidance², and since the FSAR specifies the SSE control point for rock, please justify the inclusion of fill concrete in your site response profile as described in Section 2.3.2 of the Catawba Nuclear Station, Units 1 and 2 Seismic Hazard and Screening Report.

¹ Catawba Seismic Hazard Evaluation Report dated March 31, 2014, can be found under Agencywide Documents Access and Management System (ADAMS) Accession No. ML14093A052.

² The screening, prioritization, and implementation details (SPID) can be found under ADAMS Accession No. ML12333A170.

Enclosure

K. Henderson

- 2 -

If you have any questions related to the enclosed RAI or response date, please contact me at 301-415-1115 or via e-mail at Nicholas.DiFrancesco@nrc.gov.

Sincerely,

/RA/

Nicholas J. DiFrancesco, Senior Project Manager
Hazards Management Branch
Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

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