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ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission (NRC)  
Washington, DC 20555

10 CFR 50.54(f)

Duke Energy Carolinas, LLC (Duke Energy)  
Oconee Nuclear Station, Units 1, 2 and 3  
Docket Numbers 50-269, 50-270, 50-287  
Renewed License Numbers DPR-38, DPR-47, and DPR-55

**Subject:** Revised Flood Hazard Reevaluation Report per NRC's Request for Additional Information.

**References:**

1. NRC Letter, *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 No. ML12053A340)
2. Duke Energy Letter, *Flood Hazard Reevaluation Report in response to NRC letter, "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, 2013
3. NRC Letter, Oconee Nuclear Station, Units 1, 2, and 3, Request for Additional Information Regarding Fukushima Lessons Learned Flood Hazard Reevaluation Report (TAC Nos. MF1012, MF1013, AND MF1014), dated March 20, 2014, (ADAMS Accession No. ML14064A591)
4. NRC E-Mail, Request for Additional Information - Oconee Flooding Hazard Reevaluation Report (TAC NOS. MF1012, MF1013, AND MF1014), dated September 15, 2014, (ADAMS Accession No. ML14258B222)
5. Duke Energy Letter, *Schedule to Respond to a Request for Additional Information Regarding the Reanalysis of an Upstream Dam Flood*, dated October 15, 2014, (ADAMS Accession No. ML14293A043)
6. NRC Letter; CAL 2-10-003: *Confirmatory Action Letter - Oconee Nuclear Station, Units 1, 2, and 3 Commitments to address external Flooding Concerns*, dated June 22, 2010, (ADAMS Accession No. ML101730329)

ADJO  
NRR

Enclosure 1 contains ~~Security Sensitive Information~~, withhold from public per 10 CFR 2.390(d)(1)  
**Upon removal of Enclosure 1, this letter is uncontrolled.**

Ladies and Gentlemen,

Duke Energy submitted the Flood Hazard Reevaluation Report (FHRR) for Oconee Nuclear Station (ONS) on March 12, 2013 (Reference 2) pursuant to the NRC's 10 CFR 50.54(f) request dated March 12, 2012 (Reference 1).

By E-mail dated September 15, 2014 (Reference 4), the NRC transmitted a Request for Additional Information (RAI) regarding Oconee's flood analysis of a postulated upstream dam failure. That RAI requested the dam failure be re-analyzed by applying alternate breach methodologies.

Because the new analysis would impact the information in the original FHRR, and affect several responses to a previous RAI (Reference 3), ONS submitted an RAI response on October 15, 2014 (Reference 5) that provided an action plan to revise the FHRR and to address any previous RAI responses affected by that revision. This letter submits the deliverables of that action plan.

Enclosure 1 to this letter is the revised "*Flood Hazard Reevaluation Report*" for Oconee Nuclear Station. It incorporates the results of a revised flood analysis which utilizes alternate breach methodologies, as requested by the September 15, 2014 RAI. It also incorporates a recently completed seismic analysis specific to the Jocassee Dam, which satisfies the request framed by RAI1 of the March 20, 2014 RAI.

When preparing Duke Energy's October 15, 2014 response, it was recognized that the FHRR revision would impact the previous response to RAIs 11 through 15 of the March 20, 2014 RAI. The updated answers to RAIs-11 and 12, are now contained in the appropriate sections of the enclosed report. RAI-13 requested electronic input and output files for the dam breach computer model applicable to the FHRR. This letter transmits the new model files implemented in the revised FHRR as attachments (the files will be on electronic media). The new responses to RAIs 14 and 15 are provided in Section 5 of the revised FHRR.

Enclosure 1 contains Security Sensitive information and is requested to be withheld from public disclosure in accordance with 10 CFR 2.390(d).

This letter does not create nor revise any Regulatory Commitments.

Should you have any questions concerning this letter, or require additional information, please contact Bryan McCabe at (919) 812-8324.

I declare under penalty of perjury that the foregoing is true and correct. Executed on March 6, 2015.

Sincerely,



Scott L. Batson  
Vice President  
Oconee Nuclear Station

Enclosures:

1. Revision 1 to Flood Hazard Reevaluation Report - Oconee Nuclear Station

Attachments:

1. Computer support Files on CD:  
Oconee Nuclear Station, Upstream Dam Failure 1-D Hydraulic Modeling -  
HECRAS Ver. 4.1 Input/Output Files, January 28, 2015
2. Computer support Files on CD:  
Oconee Nuclear Station, Upstream Dam Failure 2-D Hydraulic Modeling -  
TUFLOW FV Ver. 2014.01.007, January 28, 2015

*Note: The Attached electronic media are computer files being transmitted to the Japan Lessons Learned Division for input to their software.  
The files are not documents and are incompatible with printing.*

**cc: (with Enclosure only)**

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Mr. Eddy Crowe  
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Oconee Nuclear Station

**cc (with Enclosure and 2 copies of Attachment):**

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**cc (with Enclosure and 3 copies of Attachment):**

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