



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

April 4, 2022

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, UNITS 1, 2, AND 3, SUBSEQUENT LICENSE
RENEWAL APPLICATION – SUMMARY FOR MARCH 7, 2022 PUBLIC
MEETING**

Dear Mr. Snider:

By letter dated June 7, 2021 (Agencywide Documents Access and Management System (ADAMS) Package Accession No. ML21158A193), as supplemented by letters dated October 22, 2021 (ADAMS Accession No. ML21295A035), October 28, 2021 (ADAMS Accession No. ML21302A208), November 11, 2021 (ADAMS Accession No. ML21315A012), December 2, 2021 (ADAMS Accession No. ML21336A001), December 15, 2021 (ADAMS Accession No. ML21349A005), December 17, 2021 (ADAMS Accession No. ML21351A000), January 7, 2022 (ADAMS Accession No. ML22010A129), January 21, 2022 (ADAMS Accession No. ML22021A000), February 14, 2022 (ADAMS Accession No. ML22045A021), February 21, 2022 (ADAMS Accession No. ML22052A002) and March 22, 2022 (ADAMS Accession No. ML22081A027), Duke Energy Carolinas, LLC (Duke Energy or the applicant) submitted an application for the subsequent license renewal (SLR) of Renewed Facility Operating License Nos. DPR-38, DPR-47, and DPR-55 for the Oconee Nuclear Station, Units 1, 2, and 3 (ONS) to the U.S. Nuclear Regulatory Commission (NRC). Duke Energy submitted the application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants," for SLR.

On March 7, 2022, the U.S. Nuclear Regulatory Commission (NRC, or the staff) held two public meetings with Duke Energy to discuss responses to select requests for additional information (RAIs). Duke Energy submitted RAI Response Set #2 on February 14, 2022 (ADAMS Accession No. ML22045A021) and RAI Response Set #3 on February 21, 2022 (ADAMS Accession No. ML22052A002).

Morning Session:

In the morning, an open, observation public meeting was held to discuss the following RAIs:

RAI B4.1-1 – Secondary Shield Wall Tendon Surveillance (RAI Set #2):

For RAI B4.1-1, the staff sought to understand the technical justification for revising the Secondary Shield Wall (SSW) tendon lift-off testing requirements from "*three randomly selected horizontal tendons,*" to "*common tendons on one (1) horizontal, one (1) diagonal, and one (1) vertical.*"

To support the discussion, Duke Energy made a presentation (ADAMS Accession No. ML22075A202). Following the presentation, the staff inquired the following:

- 1) Why is it appropriate to reduce the testing of the horizontal tendons from 3 tendons to 1 tendon?
- 2) Why is one tendon appropriate for each sample size (one horizontal, one vertical, and one diagonal) for lift-off testing?
- 3) Provide technical justification for going from random tendons to common tendons for lift-off testing.

At the time of the meeting, Duke did not have the information readily available and noted the items to follow up with the NRC staff. By email dated March 11, 2022 (ADAMS Accession No. ML22075A203), Duke Energy provided the information to the NRC staff.

Following review of the applicant's email, the staff identified the need for a 2nd round RAI to gain additional information on the technical justification for going from random tendons to common tendons for lift-off testing. On March 21, 2022, the staff issued 2nd round RAI B4.1-3 (ADAMS Accession No. ML22081A003).

RAI B2.1.9-2 – Bolting Integrity (RAI Set #2):

Regarding RAI B2.1.9-2, there was misalignment on the approach to how to adequately manage closure bolting in non-pressurized system.

To support the discussion, Duke Energy made a presentation (ADAMS Accession No. ML22075A201). Following additional discussion with the staff, Duke volunteered to provide a supplement to the SLRA by March 25, 2022 to 1) add a new enhancement to the Bolting Integrity program and 2) modify the language in Section A2.9, Bolting Integrity of the USFAR Supplement to clarify the alternative means by which closure bolting is inspected.

On March 23, 2022, Duke communicated to the NRC that the supplement will be delayed. On March 28, 2022, Duke stated that the supplement will be submitted no later than April 1, 2022.

RAI 4.7.4-1 – Leak Before Break (RAI Set #3):

For RAI 4.7.4-1, since the flaw stability analysis has been updated, the staff was interested in discussing whether updates are needed to the USFAR supplement following the change in the TLAA disposition (in addition to SLRA Table 4.1.4-1 and SLRA Section 4.7.4).

To this, Duke Energy agreed that the USFAR supplement should be updated. Duke will provide the revision in the supplement mentioned above, expected no later than April 1, 2022.

Public Comment Period:

During the public comment period, a member of the public inquired about Commission orders related to subsequent license renewal. Specifically, the member of the public questioned the impact of the orders on the Oconee subsequent license renewal review and asked whether the NRC would hold public meetings on the topic.

While the Commission did issue orders related to subsequent license renewal on February 24, 2022, the NRC staff could not discuss topics outside the scope of the meeting.

Afternoon Session:

In the afternoon, a closed public meeting was held to discuss the following RAIs:

PWR Vessels Internals (RAI Set #2):

- RAI B2.1.7-3
- RAI B2.1.7-4

Irradiation: Structural (RAI Set #2):

- RAI 3.5.2.2.2.2-3
- RAI 3.5.2.2.2.6-1, Request 2(b)

In support of the proprietary discussions, the staff provided discussion topics (ADAMS Accession No. ML22076A035) to Duke prior to the meeting. During the public meeting, the applicant made a presentation (ADAMS Accession No. ML22076A034) addressing the staff's discussion topics. As the discussions were held in a closed public meeting, all files are non-publicly available.

As a result of the dialogue, the NRC staff gained additional clarity to the response to RAI B2.1.7-3. For RAI B2.1.7-4, the staff identified the need to develop a 2nd round RAI to gain additional information.

Additionally, the applicant will be revising their responses to RAIs 3.5.2.2.2.2-3 and 3.5.2.2.2.6-1, Request 2(b) in the supplement expected to the NRC no later than April 1, 2022.

If you have any questions, please feel free to contact me at Angela.Wu@nrc.gov.

Sincerely,



Signed by Wu, Angela
on 04/04/22

Angela Wu, Project Manager
License Renewal Projects Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

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

Enclosure:
List of Attendees

cc w/encl: Listserv

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RENEWAL APPLICATION – SUMMARY FOR MARCH 7, 2022 PUBLIC
MEETING, DATED: April 4, 2022

DISTRIBUTION

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ELea, RII/FCO

JNadel, RII/DRP

JBaptist, RII/DRS

Paul.Guill@duke-energy.com

Reene.Gambrell@duke-energy.com

Arun.Kapur@duke-energy.com

ADAMS Accession Number: ML22075A204

Pkg: ML22075A196

OFFICE	NRR/DNRL/NLRP/PM	NRR/DNRL/NLRP/LA
NAME	AWu	YEdmonds
DATE	3/19/2022	3/21/2022
OFFICE	NRR/DNRL/NLRP/BC	NRR/DNRL/NLRP/PM
NAME	LGibson	AWu
DATE	4/4/2022	4/4/22

List of Attendees

All attendees participated remotely.

Morning Session (Open Session):

NRC	Duke Energy	Public
David Dijamco	Rounette Nader	Jeff Mitman
Lauren Gibson	Greg Robison	
Allen Hiser	Reene Gambrell	
Ata Istar	Heather Galloway	
Joel Jenkins	David Morris	
Eric Reichelt	Charles Dover	
Marieliz Johnson	Erik Wagner	
Bryce Lehman	Casey Muggleston	
Juan Lopez	Joe Terrell	
Andrew Prinari	Daniel Roberts	
George Thomas	Paul Guill	
Ed Miller		
Angela Wu		

Afternoon Session (Closed Session):

NRC	Duke Energy	Framatome
Isaac Anchondo-Lopez	Rounette Nader	Mark Rinckel
Jim Gavula	Greg Robison	Sarah Davidsaver
Lauren Gibson	Reene Gambrell	Ryan Hosler
Allen Hiser	Joe Terrell	Pascal Brocheny
Jim Medoff	Daniel Roberts	
David Rudland	Paul Guill	
Robert Tregoning		
John Tsao		
George Wang		
On Yee		
Angie Buford		
Zuhan Xi		
Andrew Prinari		
David Dijamco		

Oconee SLRA - Public Meeting on March 7, 2022 DATE April 4, 2022

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 SWilliams, NRR/DORL/LPL2-1
 MMarkley, NRR/DORL/LPL2-1
 MWoods, OGC/GCHA/AGCOR/NLO
 MWright, OGC/GCHA/AGCNRP/NLO
 JAzeizat, OGC/NLO
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 JNadel, R-II/DRP/RPB1/ORO
 JBaptist, R-II/DRS

OFFICE	NRR/DNRL/NLRP	NRR/DNRL/NLRP	NRR/DNRL/NLRP	NRR/DNRL/NLRP
NAME	AWu	YEEdmonds	LGibson	AWu
DATE	Mar 16, 2022	Mar 22, 2022	Apr 4, 2022	Apr 4, 2022

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