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10 CFR 50.36a

Serial: RA-25-0183 July 17, 2025

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

Oconee Nuclear Station, Unit Nos. 1, 2 and 3 Renewed Facility Operating License Nos. DPR-38, DPR-47 and DPR-55 Docket Nos. 50-269, 50-270 and 50-287

SUBJECT: Oconee Nuclear Station Annual Radioactive Effluent Release Report 2022/ 2023 Errata - Special Submittal

Duke Energy Carolinas, LLC (referred to as Duke Energy), in accordance with 10 CFR 50.36a and Technical Specification 5.6.3 and Selected Licensing Commitment 16.11.9 for Oconee Nuclear Station Units 1, 2, and 3 (ONS), is submitting errata via special submittal for the 2022 and 2023 Annual Radioactive Effluent Release Reports (ARERRs), accession numbers ML23114A239 and ML24120A120, respectively. The errata are provided in Attachments 1 and 2 for the 2022 and 2023 ARERRs, respectively.

These corrections are being provided as a special submittal as the inaccuracy of reporting of curies impacts greater than 10 percent of the curie total for the noted dry radioactive waste shipments. It is noted that the corrections result in a total activity decrease of 12% and 40.5% for the 2022 and 2023 reporting periods, respectively. See Attachments 1 and 2 for further information.

No regulatory commitments are contained in this submittal.

Please refer any questions concerning this letter and its enclosures to Ryan Treadway, Director, Nuclear Fleet Licensing, at (980) 373-5873.

Sincerely.

Kevin Ellis

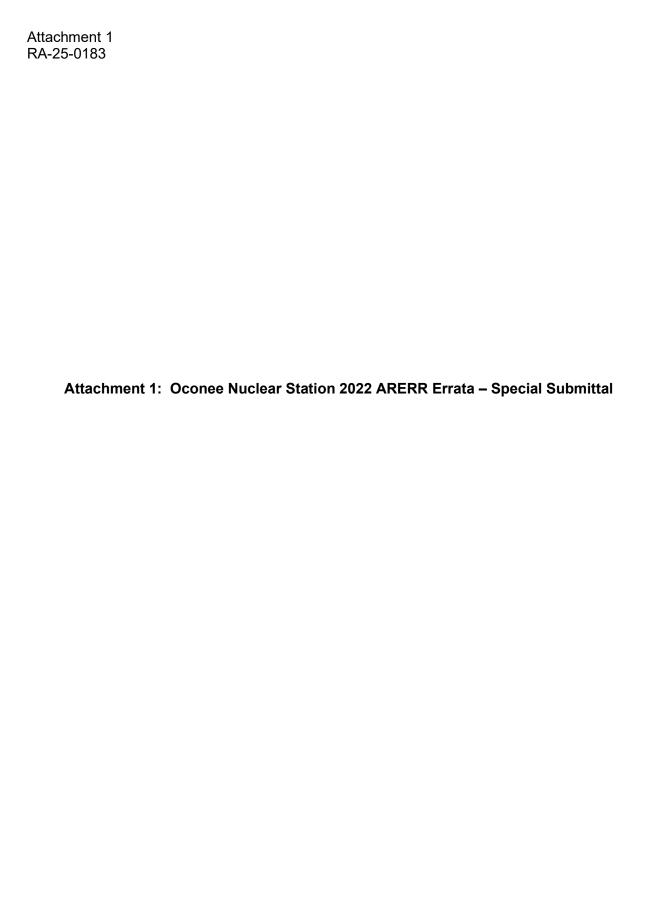
General Manager, Nuclear Regulatory Affairs, Policy & Emergency Preparedness

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Attachment 1: Oconee Nuclear Station 2022 ARERR Errata – Special Submittal Attachment 2: Oconee Nuclear Station 2023 ARERR Errata – Special Submittal

CC:

USNRC, Region II Regional Administrator USNRC NRR Project Manager for ONS USNRC Senior Resident Inspector for ONS



2022 ARERR Errata – Special Submittal

This attachment includes any additional amended pages from the 2022 ONS ARERR. References provided in Attachment 1 apply to Enclosure 5 of the 2022 ARERR for ONS.

The following contains amended pages to the Oconee Nuclear Station 2022 ARERR. Amended pages in their entirety are identified with "Amendment 2" on bottom of page. Specific changes are identified with change bars in the right margin.

Errors identified in 10 CFR Part 61 2022-2023 DAW Waste Stream Distribution (NCR 02550584) caused a "large error" in the 2022 ARERR ("inaccurate reporting of curies (or release rate, volume, etc.) that equates to >10 percent of the affected curie total (or release rate, volume, etc.), after correction." (RG 1.21, Section 7.3) For Dry Active Waste, this correction led to a 12% decrease in Total Activity in 2022. This error affected no other types of waste shipments.

The Oconee Nuclear Station 2022 ARERR Amendment #2 requires the following changes to Attachment 3.

Oconee Nuclear Station 2022 ARERR Attachment 3 Page 3-2 as submitted:

Type of Waste Shipped	Number of Shipments	Container Type	Solidification Agent	Burial Volume (m³)	Total Activity (curies)
Dry radioactive waste (e.g., trash, paper, discarded protective clothing, etc.)	13	GDP	None	648	1.75E-01

Oconee Nuclear Station 2022 ARERR Attachment 3 Page 3-2 as revised:

Type of Waste Shipped	Number of Shipments	Container Type	Solidification Agent	Burial Volume (m³)	Total Activity (curies)
Dry radioactive waste (e.g., trash, paper, discarded protective clothing, etc.)	13	GDP	None	648	1.54E-01

Oconee Nuclear Station 2022 ARERR Attachment 3 Page 3-3 as submitted:

Type of Waste Shipped	Radionuclide	% Abundance
	H-3	29.97
	C-14	1.19
	MN-54	2.65
	Co-58	11.2
2. Dw. Badia activa Wests	Co-60	6.1
2. Dry Radioactive Waste	Ni-63	16.57
	Zr-95	4.86
	Nb-95	6.24
	Cs-137	18.08
	Ce-144	3.01

Oconee Nuclear Station 2022 ARERR Attachment 3 Page 3-3 as revised:

T	1	
Type of Waste Shipped	Radionuclide	% Abundance
	H-3	34.19
	C-14	1.35
	MN-54	1.33
	Co-58	18.64
2. Dry Radioactive Wests	Co-60	7.83
Dry Radioactive Waste	Ni-63	18.9
	Zr-95	3.71
	Nb-95	8.08
	Cs-137	4.66
	Ce-144	1.16

Oconee Nuclear Station Units 1, 2, & 3 Period 1/1/2022 - 12/31/2022

Type of Waste Shipped	Number of Shipments	Container Type	Solidification Agent	Burial Volume (m³)	Total Activity (curies)
Wet radioactive waste (e.g., spent resins, filters, sludges, etc.)	5	Туре А	None	9	7.55E+01
Dry radioactive waste (e.g., trash, paper, discarded protective clothing, etc.)	13	GDP	None	648	1.54E-01
Activated or contaminated metal or equipment, etc.	2	GDP	None	64	4.18E-02
Other radioactive waste (e.g., bulk waste, soil, rubble, etc.)	None	NA	NA	0	0.00E+00

Oconee Nuclear Station Units 1, 2, & 3 Period 1/1/2022 - 12/31/2022

Type of Waste Shipped	Radionuclide	% Abundance
	H-3	54.84
	C-14	6.24
	Fe-55	9.22
1. Wet Radioactive Waste	Co-58	3.72
	Co-60	7.88
	Ni-63	12.15
	Cs-137	2.71
	H-3	34.19
	C-14	1.35
	MN-54	1.33
2. Dry Radioactive Wests	Co-58	18.64
	Co-60	7.83
2. Dry Radioactive Waste	Ni-63	18.9
	Zr-95	3.71
	Nb-95	8.08
	Cs-137	4.66
	Ce-144	1.16
	H-3	54.29
	C-14	2.2
	Co-58	3.01
Activated or Contaminated Metal or Equipment	Co-60	4.54
	Ni-63	30.57
	Cs-137	3.74
4. Other Radioactive Waste	NA	NA



Attachment 2 - ONS 2023 ARERR Errat	а
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2023 ARERR Errata - Special Submittal

This attachment includes any amended pages for the 2023 ONS ARERR. References provided in Attachment 2 apply to Enclosure 5 of the 2023 ARERR for ONS.

The following contains amended pages to the Oconee Nuclear Station 2023 ARERR. Amended pages in their entirety are identified with "Amendment 1" on bottom of page. Specific changes are identified with change bars in the right margin.

Errors identified in the 10 CFR Part 61 2022-2023 DAW Waste Stream Distribution (NCR 02550584) caused a "large error" in the 2023 ARERR ("inaccurate reporting of curies (or release rate, volume, etc.) that equates to >10 percent of the affected curie total (or release rate, volume, etc.), after correction." (RG 1.21, Section 7.3) For Dry Active Waste, this correction led to a 40.5% decrease in Total Activity in 2023, and a 12% decrease in 2022. This error affected no other types of waste shipments.

The Oconee Nuclear Station 2023 ARERR Amendment #1 requires the following changes to Attachment 3.

Oconee Nuclear Station 2023 ARERR Attachment 3 Page 3-2 as submitted:

Type of Waste Shipped	Number of Shipments	Container Type	Solidification Agent	Burial Volume (m³)	Total Activity (curies)
Dry radioactive waste (e.g., trash, paper, discarded protective clothing, etc.)	24	GDP	None	830	2.20E-01

Oconee Nuclear Station 2023 ARERR Attachment 3 Page 3-2 as revised:

Type of Waste Shipped	Number of Shipments	Container Type	Solidification Agent	Burial Volume (m³)	Total Activity (curies)
Dry radioactive waste (e.g., trash, paper, discarded protective clothing, etc.)	24	GDP	None	830	1.31E-01

Oconee Nuclear Station 2023 ARERR Attachment 3 Page 3-3 as submitted:

Type of Waste Shipped	Radionuclide	% Abundance
	Mn-54	5.03
	Co-58	10.45
	Co-60	8.36
O. Dona Dadia antina Manta	Zr-95	9.09
Dry Radioactive Waste	Nb-95	10.47
	Cs-137	38.26
	Ce-144	18.35

Oconee Nuclear Station 2023 ARERR Attachment 3 Page 3-2 as revised:

Type of Waste Shipped	Radionuclide	% Abundance
	Mn-54	2.75
	Co-58	36.9
	Co-60	17.48
O. D. D. Frankinski	Zr-95	9.6
Dry Radioactive Waste	Nb-95	20.9
	Cs-137	8.37
	Ce-144	4.01

Oconee Nuclear Station Units 1, 2, & 3 Period 1/1/2023 - 12/31/2023

Type of Waste Shipped	Number of Shipments	Container Type	Solidification Agent	Burial Volume (m³)	Total Activity (curies)
Wet radioactive waste (e.g., spent resins, filters, sludges, etc.)	9	Type A	None	32.03	1.06E+02
Dry radioactive waste (e.g., trash, paper, discarded protective clothing, etc.)	24	GDP	None	830	1.31E-01
Activated or contaminated metal or equipment, etc.	None	NA	NA	0	0.00E+00
Other radioactive waste (e.g., bulk waste, soil, rubble, etc.)	None	NA	NA	0	0.00E+00

Oconee Nuclear Station Units 1, 2, & 3 Period 1/1/2023 - 12/31/2023

Type of Waste Shipped	Radionuclide	% Abundance
1. Wet Radioactive Waste	H-3	1.87
	C-14	1.47
	Mn-54	4.61
	Fe-55	34.20
	Co-58	5.33
	Co-60	25.73
	Ni-63	20.74
	Zn-65	1.54
	Cs-137	2.59
2. Dry Radioactive Waste	Mn-54 Co-58	2.75 36.9
	Co-60	17.48
	Zr-95	9.6
	Nb-95	20.9
	Cs-137	8.37
	Ce-144	4.01
3. Activated or Contaminated Metal or Equipment	NA	NA
4. Other Radioactive Waste	NA	NA