



Brunswick Nuclear Plant
8470 River Road SE
Southport, NC 28461

JAN 07 2025

COPY

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NMFS Southeast Regional Office
Protection Resources Division
Section 7 Consultation Number SER-2012-01057
263 13th Avenue South
St. Petersburg, Florida 33701

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Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2
2024 Sea Turtle Annual Report

Dear Sir or Madam:

The purpose of this letter is for Duke Energy Progress, LLC to provide an annual report of sea turtle takings at the Brunswick Steam Electric Plant (BSEP). Submittal of this annual report is specified in the terms and conditions of the Incidental Take Statement issued as part of the January 20, 2000, Biological Opinion. This report lists data for all sea turtle takings at BSEP during the 2024 calendar year.

It should be noted that in 2024 the Brunswick Steam Electric Plant exceeded the allowable annual incidental take limit for Green sea turtles (*Chelonia mydas*) listed in the current Biological Opinion. The site is currently working with the U.S. Nuclear Regulatory Commission to prepare a biological assessment under Section 7 of the Endangered Species Act of 1973, as amended (ESA), for Brunswick Steam Electric Plant, Unit Nos. 1 and 2.

Please Contact Mr. Eric Caison at (910) 832-2267, if there are any questions concerning this submittal.

Sincerely,

Jay Ratliff
Plant Manager
Brunswick Steam Electric Plant

JE77
NRR

Enclosures:

- 1) Brunswick Steam Electric Plant 2024 Annual Sea Turtle Report

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

NMFS Southeast Regional Office
takereport.nmfsser@noaa.gov
(electronic copy only)

Mr. Lucas Haeg, Project Manager
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2738
lucas.haeg@nrc.gov
(electronic copy only)

Ms. Laura Dudes, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
245 Peachtree Center Ave, Suite 1200
Atlanta, GA 30303-1257
Laura.Dudes@nrc.gov
(electronic copy only)

Mr. Galen Smith, Senior Resident Inspector
U.S. Nuclear Regulatory Commission
8470 River Road
Southport, NC 28461-8869
Galen.Smith@nrc.gov
(electronic copy only)

Dr. Matthew Godfrey, Sea Turtle Biologist
North Carolina Wildlife Resources Commission
1507 Ann Street
Beaufort, NC 28516
Matt.Godfrey@ncwildlife.org
(electronic copy only)

Enclosure 1

Brunswick Steam Electric Plant 2024 Annual Sea Turtle Report

**BRUNSWICK STEAM ELECTRIC PLANT
2024 SEA TURTLE ANNUAL REPORT**

No.	Date	Species	Straight Length (cm)	Straight Width (cm)	Weight (lbs)	Condition	Existing Tag(s)	Tag(s) Applied	Disposition/Comments
1	01/03/24	CM	30.5	24.5	6.97	0	None	PIT Tag # Decimal: 989.001000421678 Hexadecimal: 3DD.003BA1392E	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
2	04/06/24	CM	49.5	39.0	30	0	None	PIT Tag # Decimal: 989.001000421674 Hexadecimal: 3DD.003BA1392A Fin Tag # EEJ415 - Left Rear EEJ416 - Right Rear	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
3	04/15/24	CM	35.5	27.1	11.5	0	None	PIT Tag # Decimal: 989.001000421630 Hexadecimal: 3DD.003BA138FE	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
4	04/15/24	CM	30.0	25.0	8.0	0	None	PIT Tag # Decimal: 989.001000421692 Hexadecimal: 3DD.003BA1393C	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
5	04/15/24	CM	34.0	27.1	9.0	1	None	N/A - deceased	Necropsy performed by NCWRC.
6	04/15/24	CM	33.1	27.3	10.0	1	None	N/A - deceased	Necropsy performed by NCWRC.
7	04/15/24	CM	38.0	30.3	13.5	1	None	N/A - deceased	Necropsy performed by NCWRC.
8	04/15/24	CM	36.5	28.4	12.0	1	None	N/A - deceased	Necropsy performed by NCWRC.
9	04/15/24	CM	34.9	28.1	12.5	1	None	N/A - deceased	Necropsy performed by NCWRC.
10	04/15/24	CM	33.5	27.4	8.5	1	None	N/A - deceased	Necropsy performed by NCWRC.
11	04/16/24	CM	27.0	21.8	4.0	0	None	PIT Tag # Decimal: 989.001000421624 Hexadecimal: 3DD.003BA138F8	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
12	04/16/24	CM	33.9	28.1	10.0	0	None	PIT Tag # Decimal: 989.001000421667 Hexadecimal: 3DD.003BA13923	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
13	04/16/24	CM	29.8	24.1	7.5	0	None	PIT Tag # Decimal: 989.001000421701 Hexadecimal: 3DD.003BA13945	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
14	04/16/24	CM	32.5	26.8	8.0	1	None	N/A - deceased	Necropsy performed by NCWRC.
15	04/16/24	LK	41.6	40.5	21.0	0	None	PIT Tag # Decimal: 989.001000421707 Hexadecimal: 3DD.003BA1394B	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"

16	04/17/24	CM	33.6	27.6	9.5	0	None	PIT Tag # Decimal: 989.001000421696 Hexadecimal: 3DD.003BA13940	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
17	04/17/24	LK	42.4	41.5	21.5	0	None	PIT Tag # Decimal: 989.001000421698 Hexadecimal: 3DD.003BA13942 Fin Tag # EEJ418 - Left Rear EEJ426 - Right Rear	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
18	04/18/24	CM	33.0	26.0	8.5	0	None	PIT Tag # Decimal: 989.001000421718 Hexadecimal: 3DD.003BA13956	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
19	04/19/24	CM	33.5	27.3	9.4	0	None	PIT Tag # Decimal: 989.001000421709 Hexadecimal: 3DD.003BA1394D	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
20	04/19/24	CM	32.2	26.6	8.6	1	None	N/A - deceased	Necropsy performed by NCWRC.
21	04/19/24	CM	38.9	33.1	16.0	1	None	N/A - deceased	Necropsy performed by NCWRC. Necropsy concluded that likely cause of death was alligator attack.
22	04/20/24	CM	33.7	26.9	9.5	0	None	PIT Tag # Decimal: 989.001000421651 Hexadecimal: 3DD.003BA13913	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
23	04/21/24	CM	35.1	28.0	11.0	0	PIT# 985.113005909578	None – existing PIT Tag found. Turtle was previously tagged in January 2023 at Cape Lookout, NC. Turtle was tagged after cold stunning.	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
24	04/22/24	CM	32.5	27.3	10.6	0	None	PIT Tag # Decimal: 989.001000421663 Hexadecimal: 3DD.003BA1391F	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
25	04/23/24	CM	31.4	25.8	8.0	1	None	N/A - deceased	Necropsy performed by NCWRC.
26	04/24/24	CM	35.1	28.0	11.8	0	None	PIT Tag # Decimal: 989.001000421626 Hexadecimal: 3DD.003BA138FA	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
27	04/24/24	CM	30.0	25.0	8.50	0	None	PIT Tag # Decimal: 989.001000421629 Hexadecimal: 3DD.003BA138FD	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
28	04/24/24	CM	27.4	21.5	5.0	1	None	N/A - deceased	Necropsy performed by NCWRC.

29	04/25/24	CM	30.0	24.2	7.4	0	None	PIT Tag # Decimal: 989.001000421702 Hexadecimal: 3DD.003BA13946	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"
30	04/25/24	CM	34.6	27.5	11.0	1	None	N/A - deceased	Necropsy performed by NCWRC.
31	04/25/24	LK	25.1	23.1	5.2	2	None	N/A - deceased	Necropsy performed by NCWRC.
32	04/25/24	CM	28.7	25.9	7.4	0	None	None	Turtle was injured. Transferred to NCWRC technician for transportation to Karen Beasley Sea Turtle Rescue & Rehabilitation Center in Surf City, NC.
33	04/28/24	CM	33.8	26.9	9.5	2	PIT# 982.000407622648	N/A - deceased	Necropsy performed by NCWRC. Turtle was tagged in December 2022 at Cape Lookout, NC. Turtle was tagged after cold stunning. Turtle was rehabilitated and released in March 2023.
34	05/19/24	LK	24.8	22.1	4.4	2	None	N/A - deceased	Necropsy performed by NCWRC.
35	08/05/24	LK	21.3	19.3	3.1	0	None	PIT Tag # Decimal: 989.001000421690 Hexadecimal: 3DD.003BA1393A	Released off beach at Oak Island, NC. N33° 54' 10.0" W78° 04' 31.5"

- Species

- CC – Loggerhead
- CM – Green
- DC – Leatherback
- EI – Hawksbill
- LK – Kemp’s Ridley

- Condition

- 0 – Alive
- 1 – Fresh dead
- 2 – Moderately decomposed
- 3 – Severely decomposed
- 4 – Dried carcass
- 5 – Skeleton, bones only