

From: Strait, Kenneth A. <Kenneth.Strait@pseg.com>
Sent: Thursday, February 23, 2023 1:44 PM
To: incidental.take@noaa.gov
Cc: EndangeredSpecies Resource; Susan.Rosenwinkel@dep.nj.gov; Neilan, Brian; Dave Golden (david.golden@dep.nj.gov)
Subject: [External_Sender] SALEM & HOPE CREEK GENERATING STATIONS-ANNUAL INCIDENTAL TAKE REPORT-STATION & REMP
Attachments: LR-E23-0018 annual incidental take report station remp.pdf

ATTN: Section 7 Coordinator

SALEM AND HOPE CREEK GENERATING STATIONS
BIOLOGICAL OPINION NER-2010-6581
2022 ANNUAL INCIDENTAL TAKE REPORT-STATION & REMP

In accordance with NER-2010-6581 and the Incidental Take Statement Terms and Conditions, PSEG hereby submits the attached 2022 Annual Incidental Take Report. This report summarizes the interactions with T&E listed species at Salem and Hope Creek Generating Stations for the 2022 calendar year.

If you have any questions or concerns please do not hesitate to contact me. Thank you

Ken

Kenneth A. Strait
Manager-Biological Programs
PSEG Nuclear Environmental Affairs
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Hancocks Bridge, NJ 08302 kenneth.strait@pseg.com
www.pseg.com/environment/estuary

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Received Date: 2/23/2023 1:45:14 PM
From: Strait, Kenneth A.

Created By: Kenneth.Strait@pseg.com

Recipients:

"EndangeredSpecies Resource" <EndangeredSpecies.Resource@nrc.gov>
Tracking Status: None
"Susan.Rosenwinkel@dep.nj.gov" <Susan.Rosenwinkel@dep.nj.gov>
Tracking Status: None
"Neilan, Brian" <Brian.Neilan@dep.nj.gov>
Tracking Status: None
"Dave Golden (david.golden@dep.nj.gov)" <david.golden@dep.nj.gov>
Tracking Status: None
"incidental.take@noaa.gov" <incidental.take@noaa.gov>
Tracking Status: None

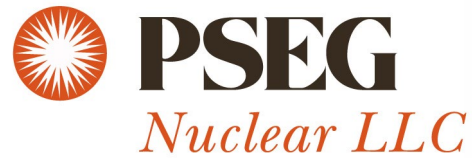
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LR-E23-0018 annual incidental take report station remp.pdf		284622

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February 22, 2023
LR-E23-0018

National Marine Fisheries Service
Greater Atlantic Regional Fisheries Office
ATTN: Section 7 Coordinator
55 Great Republic Drive
Gloucester, MA 01930
Incidental.Take@NOAA.gov

SALEM AND HOPE CREEK GENERATING STATIONS
BIOLOGICAL OPINION NER-2010-6581
2022 ANNUAL INCIDENTAL TAKE REPORT-STATION & REMP

The U.S. Nuclear Regulatory Commission (USNRC) and the National Marine Fisheries Service (NMFS) concluded formal consultation under Section 7 of the Endangered Species Act of 1973, as amended, (ESA) on July 17, 2014, with NMFS's issuance of a final biological opinion and incidental take statement (ITS) for Salem Nuclear Generating Station, Units 1 and 2 (Salem), and Hope Creek Generating Station, Unit 1 (Hope Creek). USNRC Amendment Nos. 308 and 290 to Renewed Facility Operating Licenses DPR-70 and DPR-75 for the Salem Nuclear Generating Station, Unit Nos. 1 and 2, and USNRC Amendment No. 198 to Renewed Facility Operating License NPF-57 for the Hope Creek Generating Station incorporating provisions of the incidental take statement became effective at the Salem and Hope Creek Generating Stations (Station) on the date of issuance, June 17, 2015. Pursuant to Terms and Conditions (T&C) Nos. 9 and 23 of the ITS, this report is being provided to detail interactions with ESA listed species at the Salem and Hope Creek Generating Stations for the 2022 reporting year.

In accordance with T&C #9 of the ITS, Table 1 summarizes the listed species interactions at the Station for the previous reporting year. There were no shortnose sturgeon collected at the Station during 2022. Tables 2 and 3 provide information regarding the collection under each category specified in the ITS. No sturgeon were collected during impingement sampling of the traveling screen wash water. There were no additional sightings of sturgeon or sea turtles in the vicinity of the Station that require reporting under the ITS.

During the 2022 reporting year, there were no interactions with a listed ESA species during Radiological Effluent Monitoring Program (REMP) sampling. Table 4 is submitted in satisfaction of T&C #23 of the ITS.

Table 5 of this report contains records of trash rack inspection dates and times for the seven days (168 hours) prior to each take listed in Table 1. As demonstrated by these records, PSEG routinely inspects the trash bars at least once per shift. No observations of threatened and endangered species were noted during these inspections of the trash bars. The one sturgeon listed in Table 1 that was recovered from the river had entered the south fish counting pool through the discharge pipe before being recovered by technicians, was not impinged, and was not noted during trash bar inspections.

PSEG submitted incident reports and sturgeon data reporting forms for each collection as specified in the ITS. The previously submitted reports contain additional detail and photographs for all collected specimens.

PSEG again requests direction from the NMFS on disposition of the additional sturgeon fin clips that have been collected since April 2020 pursuant to the ITS T&C #7 and #28. PSEG directly shipped the last batch of fin clips to the U.S. Geological Survey Leetown Science Center, but has not received any results from that genetic testing. PSEG can ship another batch of fin clips to the USGS lab if so directed by NMFS.

PSEG confirms that we have renewed our arrangement with the Marine Mammal Stranding Center (MMSC) in Brigantine, New Jersey for 2023. PSEG will continue to rely upon the MMSC to provide any necessary assistance with the transport, evaluation, veterinary care, tagging and release of any future sea turtles recovered at the Station.

If you have any questions or require additional information, please do not hesitate to contact Ken Strait @ kenneth.strait@pseg.com.

Sincerely,

David Sharbaugh

Digitally signed by David
Sharbaugh
Date: 2023.02.10 15:52:16 -05'00'

David Sharbaugh
Vice President - Salem

**Table 1. Salem Generating Station
Summary of Collections during 2022 - Station and REMP**

Collection Date	Time	Species	Mortality	Condition	Pit Tag	Unit/Bay	Disposition	Collection Location
3/22/2022	17:25	Atlantic Sturgeon	Deceased	Moderately Decomposed	N/A	Unit 2 - 22A	Frozen	Trash Bars
3/29/2022	12:45	Atlantic Sturgeon	Alive	Minor Injuries	#965000000358538	Unit 1 - 12B	Released	Trash Bars
4/11/2022	13:20	Atlantic Sturgeon	Deceased	Fresh Dead	N/A	N/A	Frozen	River
6/28/2022	9:15	Kemp's Ridley Sea Turtle	Deceased	Dead	N/A	Unit 2 - 22B	Frozen	Trash Bars
7/6/2022	10:35	Kemp's Ridley Sea Turtle	Deceased	Dead	N/A	Unit 1 - 12B	Frozen	Trash Bars
7/21/2022	15:45	Kemp's Ridley Sea Turtle	Deceased	Moderately Decomposed	N/A	Unit 2 - 23B	Discarded	Trash Bars
8/31/2022	14:00	Kemp's Ridley Sea Turtle	Deceased	Moderately Decomposed	N/A	Unit 1 - 12A	Frozen	Trash Bars
9/13/2022	9:30	Kemp's Ridley Sea Turtle	Deceased	Moderately Decomposed	N/A	Unit 1 - 12A	Frozen	Trash Bars
9/22/2022	13:10	Kemp's Ridley Sea Turtle	Deceased	Moderately Decomposed	N/A	Unit 1	Frozen	Trash Bars
9/23/2022	8:30	Kemp's Ridley Sea Turtle	Alive	Healthy	N/A	Unit 1 - 13A	MMSC	Trash Bars
12/19/2022	13:30	Atlantic Sturgeon	Deceased	Moderately Decomposed	N/A	Unit 1 - 11B	Frozen	Trash Bars
12/19/2022	14:30	Atlantic Sturgeon	Deceased	Severely Decomposed	N/A	Unit 1 - 13B	Frozen	Trash Bars
12/20/2022	8:50	Atlantic Sturgeon	Deceased	Fresh Dead	N/A	Unit 1 - 12A	Frozen	Trash Bars

**Table 2. Salem Generating Station
Sturgeon Collections During 2022**

Atlantic Sturgeon Collection (Trash Bars)	
Category	2022
Unit 1 - Dead	3
Unit 1 -Dead (Due to Impingement)	1
Unit 1 (Live)	1
Unit 1 - Total	4
Unit 2 - Dead	1
Unit 2 -Dead (Due to Impingement)	0
Unit 2 (Live)	0
Unit 2 - Total	1
Total Collection - Dead	4
Total Collection Dead Due to Impingement	1
Total Collection (Live)	1
Total Collection	5

**Table 3. Salem Generating Station
Sea Turtle Collections During 2022**

Kemp's Ridley Sea Turtle Collection (Trash Bars)	
Category	2022
Unit 1 Kemp's Ridley (Dead)	4
Unit 1 Kemp's Ridley (Live)	1
Unit 1 - Total	5
Unit 2 Kemp's Ridley (Dead)	2
Unit 2 Kemp's Ridley (Live)	0
Unit 2 - Total	2

**Table 4. Salem & Hope Creek Generating Stations
Radiological Effluent Monitoring Program Collections During 2022**

REMP Sampling Collection (non-lethal)	
Category	2022
Shortnose Sturgeon	0
Atlantic Sturgeon	0

**Table 5. Salem Generating Station
Intake Trash Bar Inspection Records from Operator Log**

INSPECTION STATION	TIME OF INSPECTION	Trash Rack Inspection [TS-App. B] (sta # 225)	6/25/2022 10:44
Trash Rack Inspection [TS-App. B] (sta # 225)	3/15/2022 22:03	Trash Rack Inspection [TS-App. B] (sta # 225)	6/25/2022 21:12
Trash Rack Inspection [TS-App. B] (sta # 225)	3/16/2022 7:15	Trash Rack Inspection [TS-App. B] (sta # 225)	6/26/2022 11:34
Trash Rack Inspection [TS-App. B] (sta # 225)	3/17/2022 0:11	Trash Rack Inspection [TS-App. B] (sta # 225)	6/26/2022 21:16
Trash Rack Inspection [TS-App. B] (sta # 225)	3/17/2022 8:00	Trash Rack Inspection [TS-App. B] (sta # 225)	6/27/2022 10:27
Trash Rack Inspection [TS-App. B] (sta # 225)	3/17/2022 20:12	Trash Rack Inspection [TS-App. B] (sta # 225)	6/27/2022 19:35
Trash Rack Inspection [TS-App. B] (sta # 225)	3/18/2022 9:50	Trash Rack Inspection [TS-App. B] (sta # 225)	6/29/2022 22:10
Trash Rack Inspection [TS-App. B] (sta # 225)	3/18/2022 20:29	Trash Rack Inspection [TS-App. B] (sta # 225)	6/30/2022 9:29
Trash Rack Inspection [TS-App. B] (sta # 225)	3/19/2022 9:58	Trash Rack Inspection [TS-App. B] (sta # 225)	6/30/2022 22:07
Trash Rack Inspection [TS-App. B] (sta # 225)	3/19/2022 20:54	Trash Rack Inspection [TS-App. B] (sta # 225)	7/1/2022 7:40
Trash Rack Inspection [TS-App. B] (sta # 225)	3/20/2022 10:31	Trash Rack Inspection [TS-App. B] (sta # 225)	7/1/2022 22:44
Trash Rack Inspection [TS-App. B] (sta # 225)	3/20/2022 22:32	Trash Rack Inspection [TS-App. B] (sta # 225)	7/2/2022 10:03
Trash Rack Inspection [TS-App. B] (sta # 225)	3/21/2022 8:35	Trash Rack Inspection [TS-App. B] (sta # 225)	7/2/2022 20:55
Trash Rack Inspection [TS-App. B] (sta # 225)	3/21/2022 21:11	Trash Rack Inspection [TS-App. B] (sta # 225)	7/3/2022 7:42
Trash Rack Inspection [TS-App. B] (sta # 225)	3/22/2022 8:12	Trash Rack Inspection [TS-App. B] (sta # 225)	7/3/2022 22:46
Trash Rack Inspection [TS-App. B] (sta # 225)	3/22/2022 21:38	Trash Rack Inspection [TS-App. B] (sta # 225)	7/4/2022 8:09
Trash Rack Inspection [TS-App. B] (sta # 225)	3/23/2022 7:34	Trash Rack Inspection [TS-App. B] (sta # 225)	7/5/2022 2:18
Trash Rack Inspection [TS-App. B] (sta # 225)	3/24/2022 3:50	Trash Rack Inspection [TS-App. B] (sta # 225)	7/5/2022 8:37
Trash Rack Inspection [TS-App. B] (sta # 225)	3/24/2022 10:18	Trash Rack Inspection [TS-App. B] (sta # 225)	7/5/2022 23:19
Trash Rack Inspection [TS-App. B] (sta # 225)	3/24/2022 22:03	Trash Rack Inspection [TS-App. B] (sta # 225)	7/6/2022 7:41
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Trash Rack Inspection [TS-App. B] (sta # 225)	3/27/2022 20:56	Trash Rack Inspection [TS-App. B] (sta # 225)	7/17/2022 10:27
Trash Rack Inspection [TS-App. B] (sta # 225)	3/28/2022 12:49	Trash Rack Inspection [TS-App. B] (sta # 225)	7/17/2022 21:04
Trash Rack Inspection [TS-App. B] (sta # 225)	3/28/2022 21:28	Trash Rack Inspection [TS-App. B] (sta # 225)	7/18/2022 10:00
Trash Rack Inspection [TS-App. B] (sta # 225)	3/29/2022 10:16	Trash Rack Inspection [TS-App. B] (sta # 225)	7/18/2022 21:09
Trash Rack Inspection [TS-App. B] (sta # 225)	4/4/2022 23:39	Trash Rack Inspection [TS-App. B] (sta # 225)	7/19/2022 15:20
Trash Rack Inspection [TS-App. B] (sta # 225)	4/5/2022 11:56	Trash Rack Inspection [TS-App. B] (sta # 225)	7/19/2022 21:13
Trash Rack Inspection [TS-App. B] (sta # 225)	4/5/2022 21:23	Trash Rack Inspection [TS-App. B] (sta # 225)	7/20/2022 9:49
Trash Rack Inspection [TS-App. B] (sta # 225)	4/6/2022 12:08	Trash Rack Inspection [TS-App. B] (sta # 225)	7/20/2022 21:09
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Trash Rack Inspection [TS-App. B] (sta # 225)	4/7/2022 7:34	Trash Rack Inspection [TS-App. B] (sta # 225)	8/24/2022 21:39
Trash Rack Inspection [TS-App. B] (sta # 225)	4/7/2022 22:53	Trash Rack Inspection [TS-App. B] (sta # 225)	8/25/2022 11:06
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Trash Rack Inspection [TS-App. B] (sta # 225)	12/19/2022 21:18

CC United States Nuclear Regulatory Commission
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