

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Wednesday, July 28, 2021 11:13 AM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: Neilan, Brian
Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Atlantic Sturgeon 7/27/2021
Attachments: Sturgeon Incidental Take Report for 07-27-2021.pdf

Attached are the Incidental Take Report and Data Collection Form for a deceased Atlantic sturgeon collected on 07/27/2021 from the Salem Generating Station during routine raking of the cooling water intake trash bars. The deceased specimen is being held for study pending direction from NOAA/NMFS. This incidental take is authorized under Biological Opinion NER-2010-6581.

Thanks, and please let me know if you have any questions or need additional information.

Richard Cary
Environmental Compliance & Program Manager
PSEG Nuclear Environmental Affairs
O: 856-339-1487
C: 706-254-2584

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Hearing Identifier: NRR_DRMA
Email Number: 1292

Mail Envelope Properties (3078c17d938b4090908e2080c5c5d5a8)

Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Atlantic Sturgeon 7/27/2021
Sent Date: 7/28/2021 11:12:44 AM
Received Date: 7/28/2021 11:17:31 AM
From: Cary, Richard H.

Created By: Richard.Cary@pseg.com

Recipients:

"Neilan, Brian" <Brian.Neilan@dep.nj.gov>

Tracking Status: None

"incidental.take@noaa.gov" <incidental.take@noaa.gov>

Tracking Status: None

"EndangeredSpecies Resource" <EndangeredSpecies.Resource@nrc.gov>

Tracking Status: None

Post Office: pseg.com

Files	Size	Date & Time
MESSAGE	1249	7/28/2021 11:17:31 AM
Sturgeon Incidental Take Report for 07-27-2021.pdf		478283

Options

Priority: Normal

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Appendix C, Part 2A (Sturgeon)

Photographs should be taken and the following information should be collected from all sturgeon (alive and dead). Please submit all necropsy results (including sex and stomach contents) to NMFS upon receipt. You must also complete and submit the "Sturgeon Data Collection Form"

Observer's full name: Stephen Whitford (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Stephen Whitford

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, intake 12A

Date animal observed: 07/27/2021 Time animal observed: 1845

Date animal collected: 07/27/2021 Time animal collected: 1455

Environmental conditions at time of observation (i.e., tidal stage, weather):

Air temp. - 28.5.0 °C; Sal. - 3.0 ppt; Wind -SE; sky - clear; Wave - slight; tide- Ebb 2

If removed from intakes (trash racks or traveling screens):

Date and time of last inspection of screen: 07/27/2021; at 08:48 AM

Water temperature (°C) at site and time of observation: 28.0 °C

Number of pumps operating at time of observation: Unit 1: 6 circulators / Unit 2: 5 circulators

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 99.8% /Unit 2: 100.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 99.8% /Unit 2: 100.2%

STURGEON DATA COLLECTION FORM

For use in documenting sturgeon injury or mortality incidental to a federal action

OBSERVER'S CONTACT INFORMATION

Name: First Stephen Last Whitford
Agency Affiliation PSEG subcontractor Email Stephen.Whitford@pseg.com
Address 100 South Cass Street, Middletown, DE 19709
Area code/Phone number (302) 378-9881 (Environmental Consulting Services, Inc.)

SEC 7 UNIQUE IDENTIFIER (PCTS
No.Assigned by NMFS)

DATE REPORTED:
Month 07 Day 27 Year 2021
DATE EXAMINED:
Month 07 Day 27 Year 2021

SPECIES: (check one)

- shortnose sturgeon
 Atlantic sturgeon
 Unidentified *Acipenser* species
Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.

LOCATION FOUND: Offshore (Atlantic or Gulf beach) Inshore (bay, river, sound, inlet, etc)
River/Body of Water Delaware River City Lower Alloways Creek State NJ
Descriptive location (be specific) Removed from Circulating Water Intake Structure (CWIS) trash racks, intake bay 12A during routine trash rack cleaning at the Salem Generating Station, PSEG Nuclear LLC.
Latitude 39.460603° (Dec. Degrees) Longitude -75.536133° (Dec. Degrees)

CARCASS CONDITION at time examined: (check one)

- 1 = Fresh dead
 2 = Moderately decomposed
 3 = Severely decomposed
 4 = Dried carcass
 5 = Skeletal, scutes & cartilage

SEX:

- Undetermined
 Female Male
How was sex determined?
 Necropsy
 Eggs/milt present when pressed
 Borescope

MEASUREMENTS:

	Circle unit
Fork length	<u>49.5 cm</u>
Total length	<u>59.7 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>2.5 cm</u>
Interorbital width (see reverse side)	<u>4.1 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>0.8 kg</u>

TAGS PRESENT? Examined for external tags including fin clips? Yes No Scanned for PIT tags? Yes No

Tag #

Tag Type

Location of tag on carcass

989001038151728

CARCASS DISPOSITION: (check one or more)

- 1 = Left where found
 2 = Buried
 3 = Collected for necropsy/salvage
 4 = Frozen for later examination
 5 = Other (describe).

Carcass Necropsied?

Yes No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

Photos/video taken? Yes No
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

Sample

How preserved

Disposition (person, affiliation, use)

Pelvic fin clip

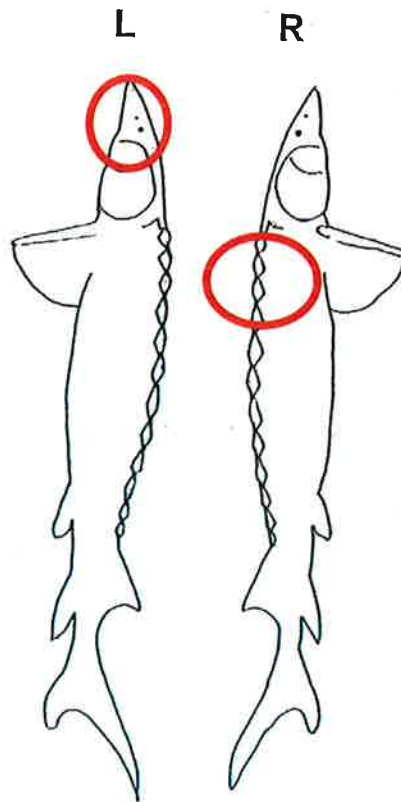
stored in non-denatured ethanol and refrigerated.

Held at the office of ECSI for aggregated shipment to designated laboratory.

Comments: A deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 07/27/21, at 1455. After positive identification was made by Environmental Consulting Services personnel, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, however a PIT was indicated, identified as #989001038151728. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was placed on ice and prepared for transport back to the ECSI main office, where it will be stored under refrigeration, awaiting direction on further disposition. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

Draw wounds, abnormalities, tag locations on diagram and briefly describe below

Evidence of bruising on the ventral aspect of the rostrum.



Location of large puncture wound on the right dorsal surface of the torso, posterior to the pectoral fin

Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Specimen was deceased at the time of collection, with some damage in the form of a large laceration or puncture wound on the right dorsal surface of the torso. There was also evidence of bruising on the ventral aspect of the rostrum (refer to illustration). The puncture wound did not appear to be fresh, and the entire carcass was darkened and in a dried out condition.**

Submit completed forms (within 24 hours of observation of fish): by e-mail to [Incidental Take@noaa.gov](mailto:IncidentalTake@noaa.gov) or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.

Data Access Policy: Upon written request, information submitted to National Marine Fisheries Service (NOAA Fisheries) on this form will be released to the requestor provided that the requestor credit the collector of the information and NOAA Fisheries. NOAA Fisheries will notify the collector that these data have been requested and the intent of their use.

Photographs



A right dorsolateral view, showing the size and condition of a deceased Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 1455 on 07/27/2021 from the Salem Circulating Water Intake trash collection basket by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (07/27/2021).



A left dorsolateral view, showing the condition of the specimen at the time of the collection. Except for a laceration or puncture wound on the right dorsal surface of the torso and some bruising on portions of the head and rostrum, no additional damage was observed (07/27/2021).

Photographs



Dorsal view of the right side of the torso, showing the location of a large laceration or puncture wound. At the time of observation, the entire specimen was in a dried-out condition. The wound did not appear to be fresh, indicating it was not likely the cause of death (07/27/2021).



A dorsal view of the head, showing the characteristic elongated rostrum. Some evidence of bruising was observed on portions of the head, particularly on the ventral aspect of the rostrum. (07/27/2021).

Photographs



A ventral view of the head, showing the characteristic elongated rostrum. Bruising of the surface tissue was evident at the time of collection and processing (07/27/2021).