From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Monday, February 3, 2020 10:41 AM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: jeanette.bowers@dep.nj.gov
Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Atlantic Sturgeon 01/31/2020
Attachments: Sturgeon Incidental Take Report for 01-31-2020.pdf

Attached is the Incidental Take Report and Data Collection Form for a deceased Atlantic sturgeon collected on 01/31/2020 from the Salem Generating Station during routine raking of the cooling water intake trash bars. The specimen and fin clip are 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
856-339-1487

Hearing Identifier: NRR_DRMA
Email Number: 427

Mail Envelope Properties (640a1d5fd88a4879a5513e4b98d4531e)

Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Atlantic Sturgeon 01/31/2020
Sent Date: 2/3/2020 10:41:02 AM
Received Date: 2/3/2020 10:41:17 AM
From: Cary, Richard H.

Created By: Richard.Cary@pseg.com

Recipients:
"jeanette.bowers@dep.nj.gov" <jeanette.bowers@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	1232	2/3/2020 10:41:17 AM
Sturgeon Incidental Take Report for 01-31-2020.pdf	634566	

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: Doug Potts (Environmental Consulting Services, Inc. [ECSI])
Reporter's full name: Doug Potts

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, intake 13B

Date animal observed: 01/31/2020 Time animal observed: 11:00 am
Date animal collected: 01/31/2020 Time animal collected: 11:15 am

Environmental conditions at time of observation (i.e., tidal stage, weather):
Air temp. – 7.0 °C; Sal. – 5.0 ppt; Wind – ENE; sky – overcast; Wave – slight; tide- flood 1

If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 01/30/2020; 08:12 pm
Water temperature (°C) at site and time of observation: 5.1 °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: 100.1% /Unit 2: 100.2%
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.0% /Unit 2: 99.9%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION
Name: First **Doug** Last **Potts**
Agency Affiliation **PSEG subcontractor** Email **dpotts@ecsi-del.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 01 Day 31 Year 2020
DATE EXAMINED:
Month 01 Day 31 Year 2020

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) intake trash racks, intake bay 13B, 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	**104.8 cm**
Total length	**118.8 cm**
Length ☒ actual ☐ estimate	
Mouth width (inside lips, see reverse side)	**3.18 cm**
Interorbital width (see reverse side)	**8.25 cm**
Weight ☒ actual ☐ estimate	**5.1 kg**

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
No Tags found		

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/vide taken? ☒ Yes ☐ No

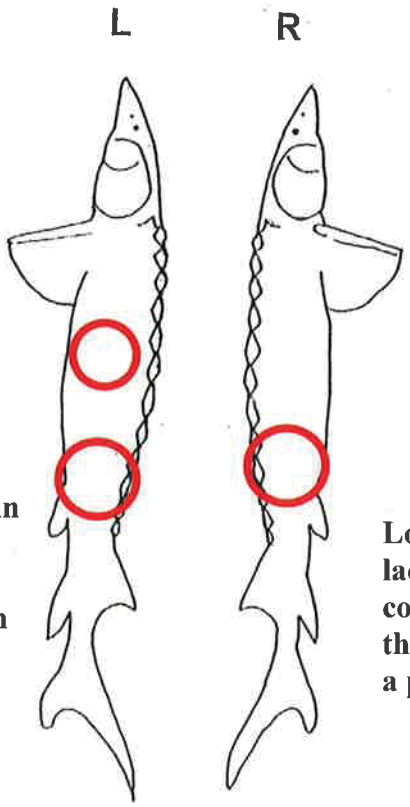
Disposition of Photos/Video **PSEG Nuclear Environmental Affairs**

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 live, but severely damaged, Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure (13B intake) during routine trash rack cleaning on 01/31/20, at 11:15am. PSEG Nuclear Environmental Affairs personnel were contacted upon collection, and NEA staff requested assistance from ECSI personnel to provide positive identification and process the specimen. During processing, the specimen was measured, photograhed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. A pelvic fin clip was 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



Observed small laceration, located on the left side, mid torso and above the pectoral fin

Location of a very large skin laceration on the left side, extending dorsally across the torso and exposing flesh and tissue.

Location of the large skin laceration on the right side, continuing dorsally across the torso and terminating at a point near the belly.

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 initially alive at the time of collection, but was heavily damaged. The specimen was placed in water for an extended period after collection, but was found to be deceased just prior to processing. A small laceration on the left torso, just above the pectoral fin was observed during processing, as well as a very large dorsal, skin laceration covering both sides of the body, located mid-torso and anterior to the dorsal fin (refer to diagram above). Numerous scutes on the torso, in the area of the lacerations, were also observed missing. Further inspection revealed that a prior fin clip may have been taken from the left pelvic fin.**

Submit completed forms (within 24 hours of observation of fish): by e-mail to Incidental Take@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.

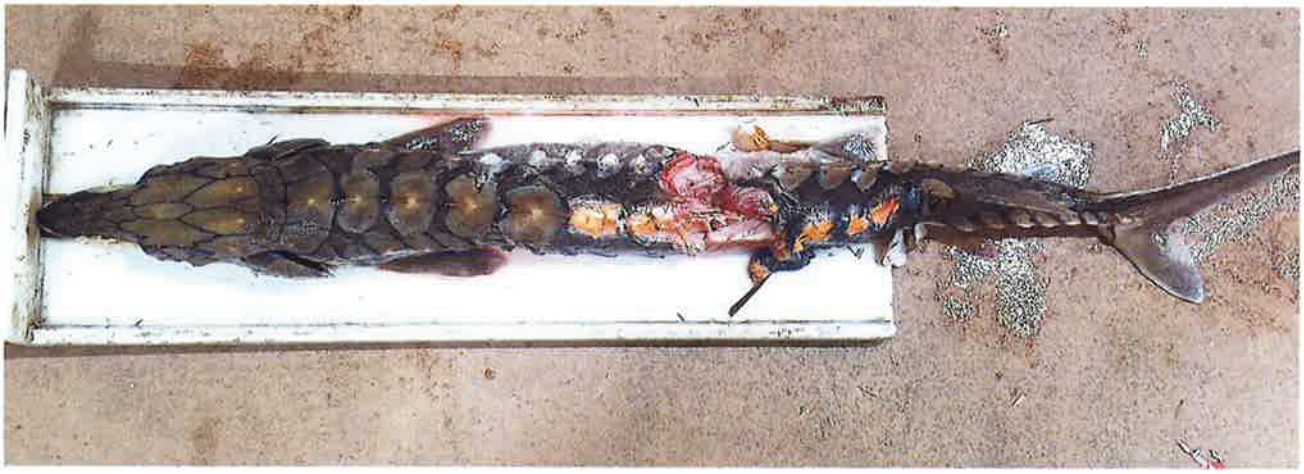
Photographs

A dorsolateral view, showing the size and condition of the deceased, Atlantic sturgeon (Acipenser oxyrinchus), retrieved at 11:15am on 01/31/2020 from 13B circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (01/31/2020).

A dorsolateral view of the specimen showing a close-up of a large laceration, located mid-torso on the left side, extending from a point near the belly to the dorsal surface and anterior to the dorsal fin. The wound has exposed the underlying flesh and tissue (01/31/2020).

Photographs

Another dorsolateral view, showing a close-up of a second, smaller laceration located on the left side, just above the pectoral fin (01/31/2020).



A dorsal view of the specimen, showing the extent of damage related to the large laceration shown in the previous photos (01/31/2020).

Photographs

A ventral view of the specimen, showing the large laceration, located mid-torso and extending from the left side of the body, across the back, and terminating at a point near the belly on the right side (01/31/2020).

Dorsolateral view of the head, showing the characteristic elongated rostrum (01/31/2020).

Photographs

A ventral view of the head, showing the characteristic small mouth (01/31/2020).

View of the left pelvic fin, showing where a prior fin clip may have been collected (01/31/2020).