

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Wednesday, July 21, 2021 10:25 AM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: Neilan, Brian
Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Atlantic Sturgeon 7/20/2021
Attachments: Sturgeon Incidental Take Report for 07-20-2021.pdf

Attached are the Incidental Take Report and Data Collection Form for a deceased Atlantic sturgeon collected on 07/20/2021 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

The information contained in this e-mail, including any attachment(s), is intended solely for use by the named addressee(s). If you are not the intended recipient, or a person designated as responsible for delivering such messages to the intended recipient, you are not authorized to disclose, copy, distribute or retain this message, in whole or in part, without written authorization from PSEG. This e-mail may contain proprietary, confidential or privileged information. If you have received this message in error, please notify the sender immediately. This notice is included in all e-mail messages leaving PSEG. Thank you for your cooperation.

Hearing Identifier: NRR_DRMA
Email Number: 1291

Mail Envelope Properties (7f8b3042b3fa4043b712bc9c35c14161)

Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Atlantic Sturgeon 7/20/2021
Sent Date: 7/21/2021 10:24:49 AM
Received Date: 7/21/2021 10:25:09 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	1261	7/21/2021 10:25:09 AM
Sturgeon Incidental Take Report for 07-20-2021.pdf		534851

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: Dalton Stevens (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Dalton Stevens

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 2, intake 22A

Date animal observed: 07/20/2021 Time animal observed: 11:15 AM

Date animal collected: 07/20/2021 Time animal collected: 11:00 AM

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

Air temp. – 27.5 °C; Sal. – 6.0 ppt; Wind –NNE; sky – clear; Wave – slight; tide- E2 (90.3ft)

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

Date and time of last inspection of screen: 07/20/2021; at 09:34 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: 6 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 Dalton Last Stevens
Agency Affiliation PSEG subcontractor Email Dalton.Stevens@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 20 Year 2021
DATE EXAMINED:
Month 07 Day 20 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 22A, 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>71.1 cm</u>
Total length	<u>78.7 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>5.1 cm</u>
Interorbital width (see reverse side)	<u>6.4 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>2.8 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
<u>No tag found</u>		

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:

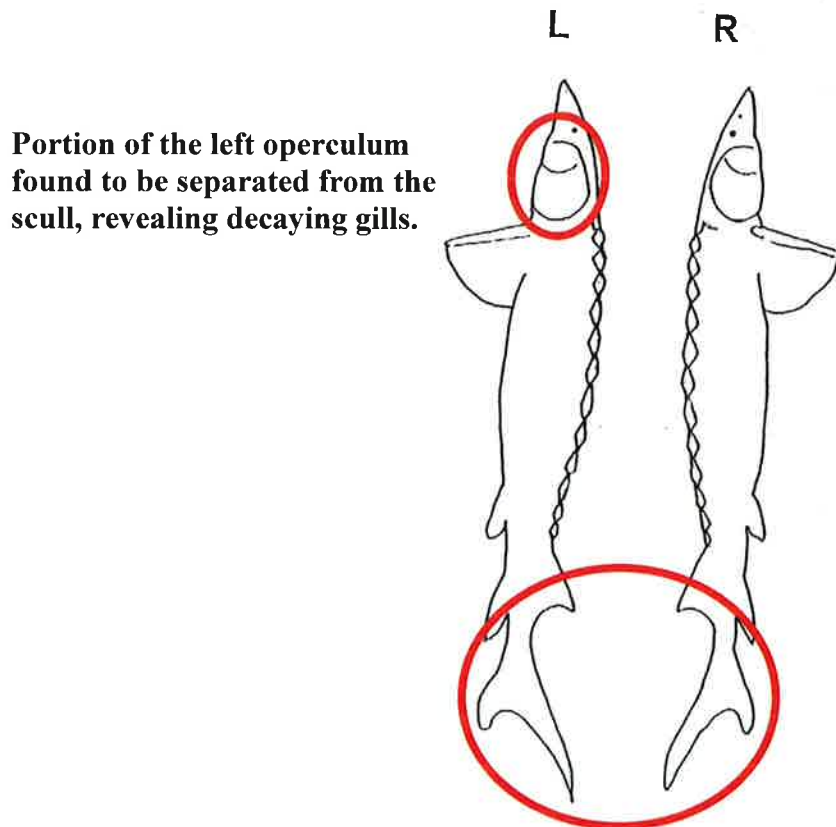
Photos/video taken? Yes No
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

Sample	How preserved	Disposition (person, affiliation, use)
<u>Pelvic fin clip</u>	<u>stored in non-denatured ethanol and refrigerated.</u>	<u>Held at the office of ECSI for aggregated shipment to designated laboratory.</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Comments: A deceased and moderately decomposed Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 07/20/2021, at 11:00 AM. 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, and no existing PIT tags were indicated. 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

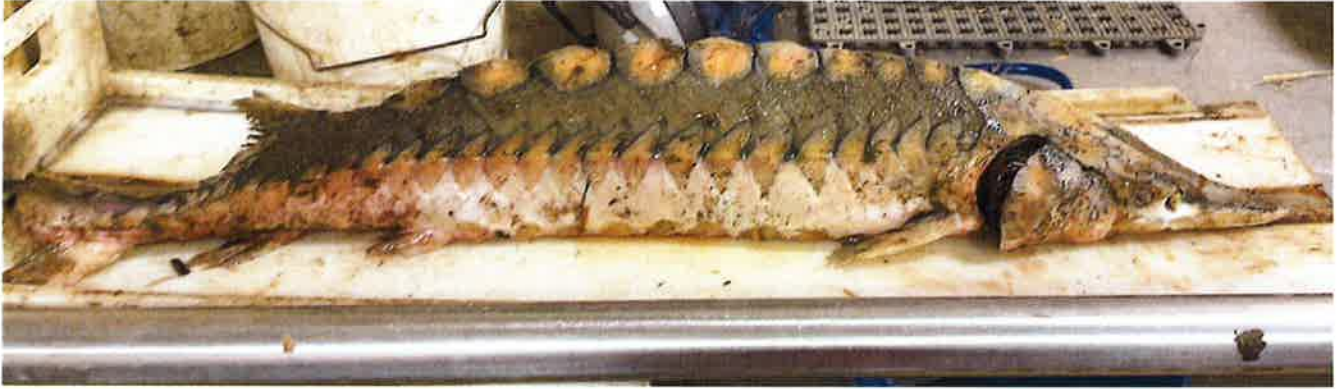


Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Specimen was deceased and in a moderately decomposed condition at the time of collection, as indicated by broken and eroded fin rays on the dorsal, caudal and anal fins, portions of the skull with exposed bone, and rotting skin in the area of the vent. The left operculum was also found to be partially separated from the head (refer to diagram above).**

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

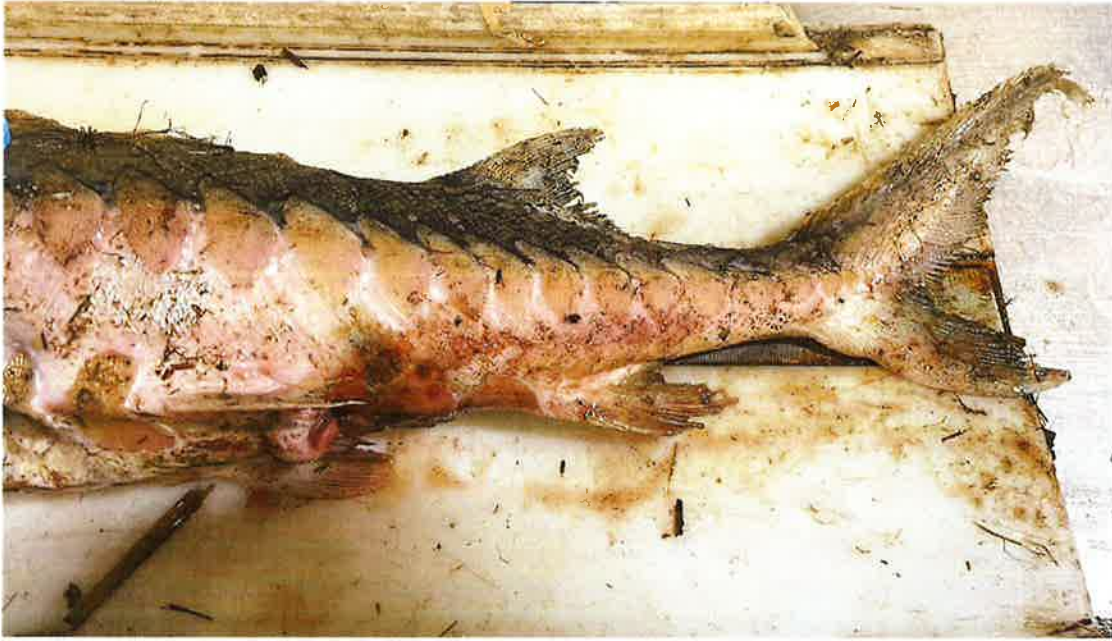


A right, dorsolateral view showing the size and condition of a damaged and moderately decomposed Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 11:00 AM on 07/20/2021 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (07/20/2021).



A left, dorsolateral view of the specimen, showing evidence of decayed fin rays on the dorsal fin, as well as the partial separation of the operculum from the gill opening. Fin rays on the anal and caudal fins were also found to be eroded and decayed, and portions of the skull appeared to be exposed due to decayed surface skin (07/20/2021).

Photographs



A dorsolateral view of the posterior, left side of the torso, showing the decay of fin rays on the dorsal, caudal, and anal fins. Bruised and decaying skin is also evident posterior to the vent (07/20/2021).

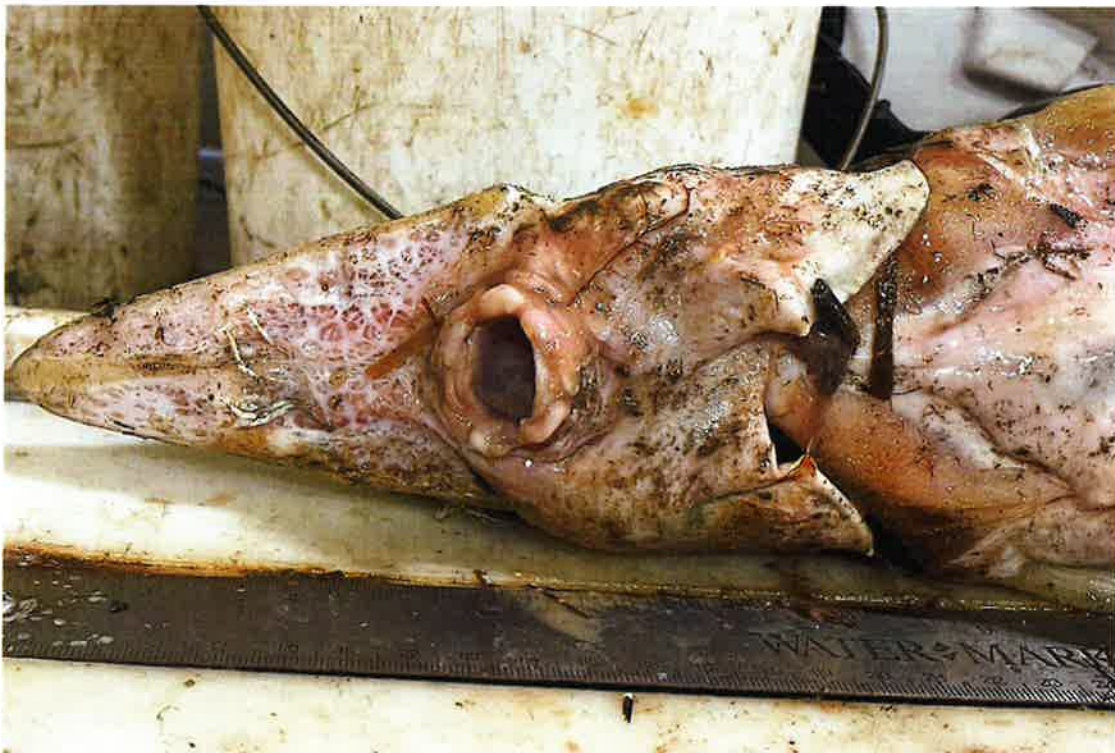


A close-up view of the left side of the head, showing separation of the operculum from the gill opening (07/20/2021).

Photographs



A dorsal view of the head, showing the characteristic elongated rostrum. The top of the head appears to have exposed bone, as the separation between individual plates are discernable (07/20/2021).



A ventral view of the head, showing the characteristic small mouth and elongated rostrum (07/20/2021).