

**From:** Cary, Richard H. <Richard.Cary@pseg.com>  
**Sent:** Tuesday, April 12, 2022 9:38 AM  
**To:** incidental.take@noaa.gov; EndangeredSpecies Resource  
**Cc:** Neilan, Brian  
**Subject:** [External\_Sender] Salem Generating Station Incidental Take Report: Atlantic Sturgeon 4/11/22  
**Attachments:** Sturgeon Incidental Take Report for 04-11-2022.pdf

Attached are the Incidental Take Report and Data Collection Form for a deceased Atlantic sturgeon collected on 4/11/2022 from the Salem Generating Station. The 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

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**Hearing Identifier:** NRR\_DRMA  
**Email Number:** 1593

**Mail Envelope Properties** (657ae87d222e4f31a579c5434b7fdd9d)

**Subject:** [External\_Sender] Salem Generating Station Incidental Take Report: Atlantic Sturgeon 4/11/22  
**Sent Date:** 4/12/2022 9:37:39 AM  
**Received Date:** 4/12/2022 9:38:18 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

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1166	4/12/2022 9:38:18 AM
Sturgeon Incidental Take Report for 04-11-2022.pdf		449971

**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; South Fish Counting Pool

Date animal observed: 04/11/2022 Time animal observed: 13:20

Date animal collected: 04/11/2022 Time animal collected: 13:15

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

Air temp. – 14.5°C; Sal. – 8.0 ppt; Wind –SE; sky – clear; Wave – slight; tide- Ebb2(88.0 ft.)

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

Date and time of last inspection of screen: 04/11/2022; at 02:13AM

Water temperature (°C) at site and time of observation: 9.5 °C

Number of pumps operating at time of observation: Unit 1: 0 circulators / Unit 2: 6 circulators

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 0% /Unit 2: 100%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 0% /Unit 2: 99.8%

# 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 Doug.Potts@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 04 Day 11 Year 2022  
DATE EXAMINED:  
Month 04 Day 11 Year 2022

## 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 the south fish counting pool, located at the south end of Salem Circulating Water Intake at 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>79.4 cm</u>
Total length	<u>93.3 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>2.9 cm</u>
Interorbital width (see reverse side)	<u>5.7 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>2.5 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>None 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

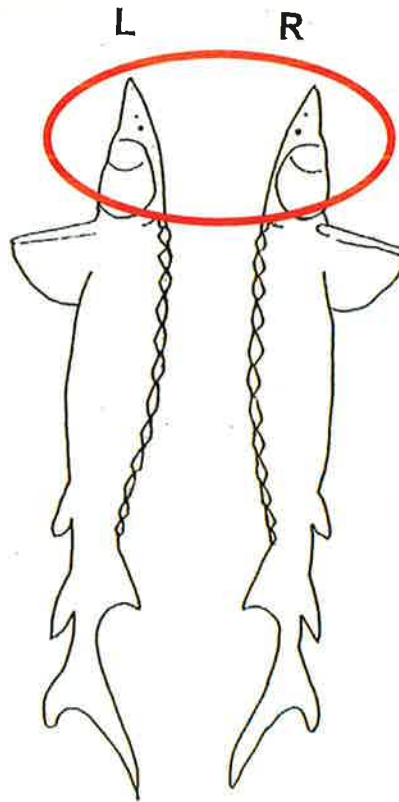
SAMPLES COLLECTED?  Yes  No

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: On 04/11/2022, at approximately 13:15, a deceased Atlantic sturgeon was collected from the south fish counting pool, located at the south end of Salem Circulating Water Intake, during cleaning and maintenance of the pool for the collection of permit required impingement samples. After positive identification was made by Environmental Consulting Services personnel, the specimen was photographed and inspected for tags. No evidence of external tags was found, and no existing PIT tag was 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

Location of rubber band stretched over the head, and a portion of the band extending through the flesh on both sides of the mouth

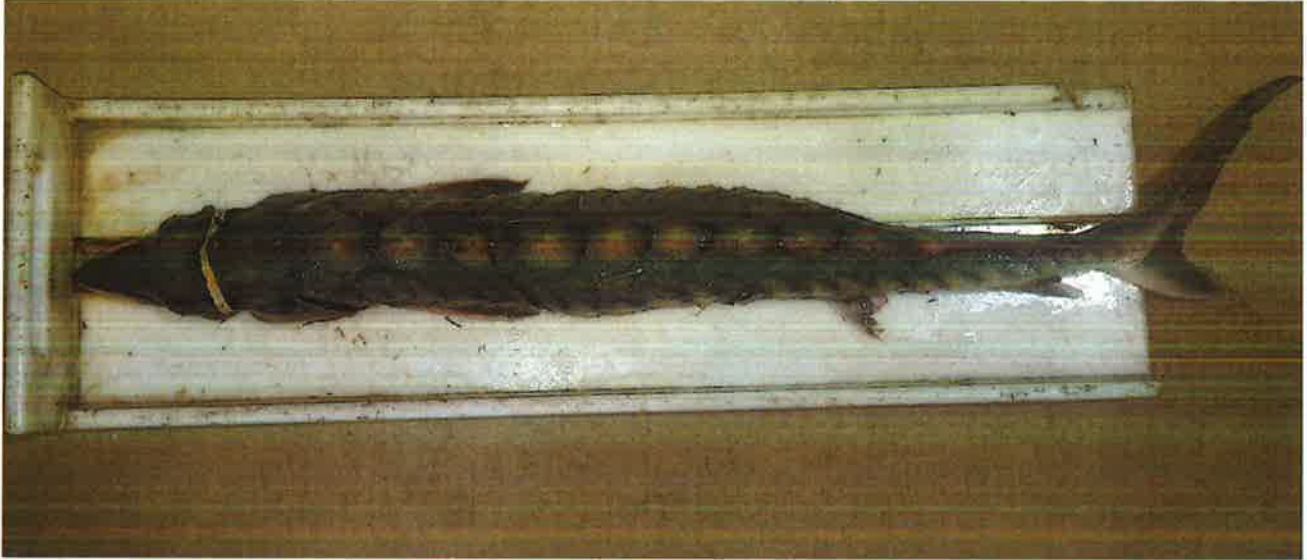


Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Specimen was deceased at the time of collection. Upon examination, a rubber band was observed stretched over its head, with a portion of the band piercing through the tissue of the outer edges of the mouth (refer to illustration). Some additional bruising was observed on the anterior portion of the rostrum.**

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

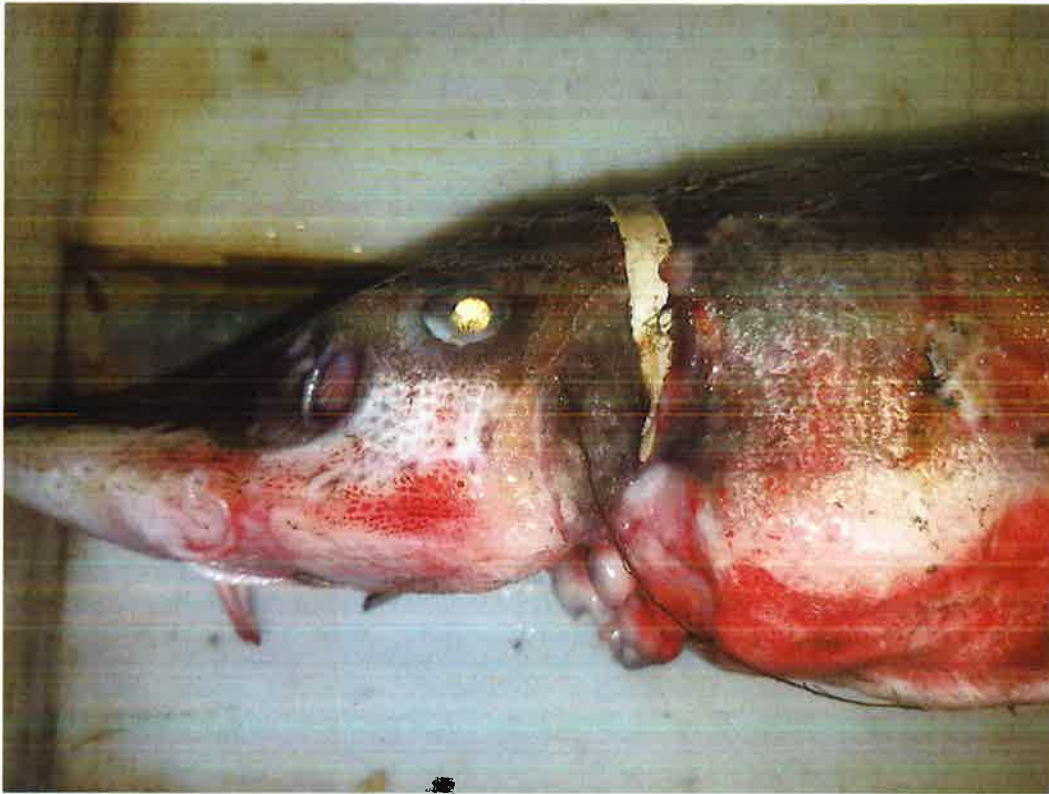


A dorsal view, showing the size and condition of a deceased Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 13:15 on 04/11/2022 from the south fish counting pool located at the south end of the circulating water intake at Salem Nuclear Generating Station (04/11/2022).



A dorsolateral view of the specimen, showing a heavy rubber band stretched over the head and extending through the mouth. Evidence of bruising was also observed on the ventral portion of the rostrum and below the operculum. No other damage was observed. Based on the condition of the rubber band, which was still elastic, and the lack of evidence of decomposition, it appears that the death of the specimen was a recent occurrence (04/11/2022).

## Photographs

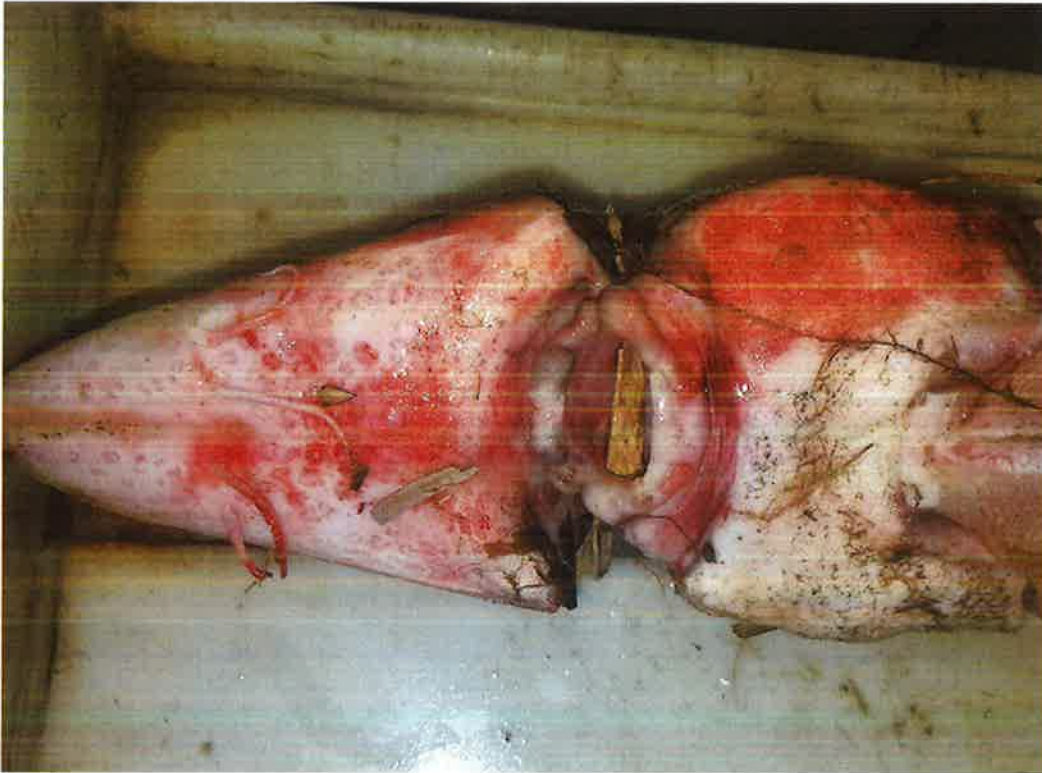


A dorsolateral view of the left side of the head, showing a closer view of the rubber band that is shown stretched over the head, and which passes through the mouth of the specimen (04/11/2022).



A dorsolateral view of the right side of the head, showing the rubber band and the point at which the band pierces the mouth (04/11/2022).

## Photographs



A ventral view of the head and rostrum, showing severe bruising, and the portion of the rubber band which passes through the mouth tissue at the outer edges (04/11/2022).



A ventral view, taken at a different angle, showing a close up of the Bruising, and the portion of the rubber band that passes through the mouth at the outer edges and continues over the head (04/11/2022).