From: Strait, Kenneth A. <Kenneth.Strait@pseg.com>
Sent: Tuesday, January 21, 2020 8:22 AM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: jeanette.bowers@dep.nj.gov
Subject: [External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF ATLANTIC STURGEON
Attachments: Sturgeon Incidental Take Report for 01-17-2020.pdf

Attached are the Incidental Take Report and Data Collection Form for the Atlantic sturgeon collected on 01/17/2020 at the Salem Generating Station cooling water intake. The live specimen was processed and released back to the Delaware River. This incidental take is authorized under Biological Opinion NER-2010-6581.

Please let me know if you have any questions or need additional information. Thanks.

Ken

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Kenneth A. Strait
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PSEG Nuclear Environmental Affairs Fax: 856.339.3905
P.O. Box 236, N33
Hancocks Bridge, NJ 08302 kenneth.strait@pseg.com
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Hearing Identifier: NRR_DRMA
Email Number: 402

Mail Envelope Properties (21ade40260ee48baa56c4abd5eda8acb)

Subject: [External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF ATLANTIC STURGEON
Sent Date: 1/21/2020 8:21:38 AM
Received Date: 1/21/2020 8:22:00 AM
From: Strait, Kenneth A.

Created By: Kenneth.Strait@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	1420	1/21/2020 8:22:00 AM
Sturgeon Incidental Take Report for 01-17-2020.pdf	399937	

Options
Priority: Normal
Return Notification: Yes
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: Alex Riehle (Environmental Consulting Services, Inc. [ECSI])
Reporter's full name: Alex Riehle

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station, SGS Unit 2, intake 21A

Date animal observed: 01/17/2020 Time animal observed: 10:15am
Date animal collected: 01/17/2020 Time animal collected: 10:20 am

Environmental conditions at time of observation (i.e., tidal stage, weather):
Air temp. – 1.5 °C; Sal. – 4.0 ppt; Wind – NW; sky – clear; wave – moderate; tide – Ebb 2 (86.0ft)

If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 01/16/20; 07:43pm
Water temperature (°C) at site and time of observation: 5.0 °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: 100.2% /Unit 2: 100.2%
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 99.9% /Unit 2: 100.0%

PIT tag ID #

Microchip ID Systems ™
933000220017827

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION
Name: First **Alex** Last **Riehle**
Agency Affiliation **PSEG subcontractor** Email **Alexander. Riehle@ 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 01 Day 17 Year 2020
DATE EXAMINED:
Month 01 Day 17 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 21A, 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	**58.0 cm**
Total length	**66.0 cm**
Length ☒ actual ☐ estimate	
Mouth width (inside lips, see reverse side)	**2.8 cm**
Interorbital width (see reverse side)	**5.0 cm**
Weight ☒ actual ☐ estimate	**1.20 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. Specimen was healthy and in excellent condition. After processing and a period of holding to reduce stress, it was released back to the Delaware River.

Carcass Necropsied?
☐Yes ☒No

Date Necropsied:

Necropsy Lead:

PHOTODOCUMENTATION:
Photos/vide taken? ☒ Yes ☐ No

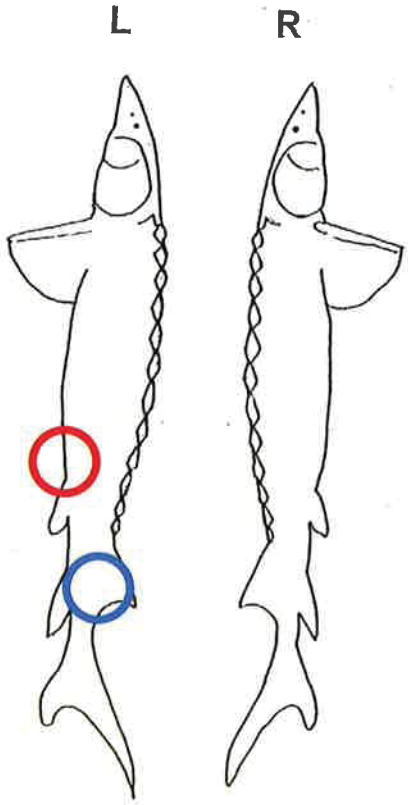
Disposition of Photos/Video **PSEG Nuclear Environmental Affairs**

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, Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 01/17/20, at 10:15am. PSEG Nuclear Environmental Affairs personnel were contacted after positive identification was made by Environmental Consulting Services personnel. The specimen was measured, photograhed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. Therefore, PIT tagging procedures for placement of a tag were implemented. Specimen has been identified with tag #933000220017827. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was released back to the Delaware River at 10:35am.

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 alive at the time of collection and was found to be in overall good condition, except for a small puncture wound through the last ventral scute, located just prior to the origin of the left pelvic fin. No internal or external tags were indicated during processing; therefore PIT tagging was conducted, with placement of the tag on the left side, near the base of the dorsal fin (refer to illustration above). After processing, the specimen was released back to the Delaware River.**

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 dorsal view showing the size and condition of the live, Atlantic sturgeon (Acipenser oxyrinchus), retrieved at 10:15am on 01/17/20 from 21A circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (01/17/2020).

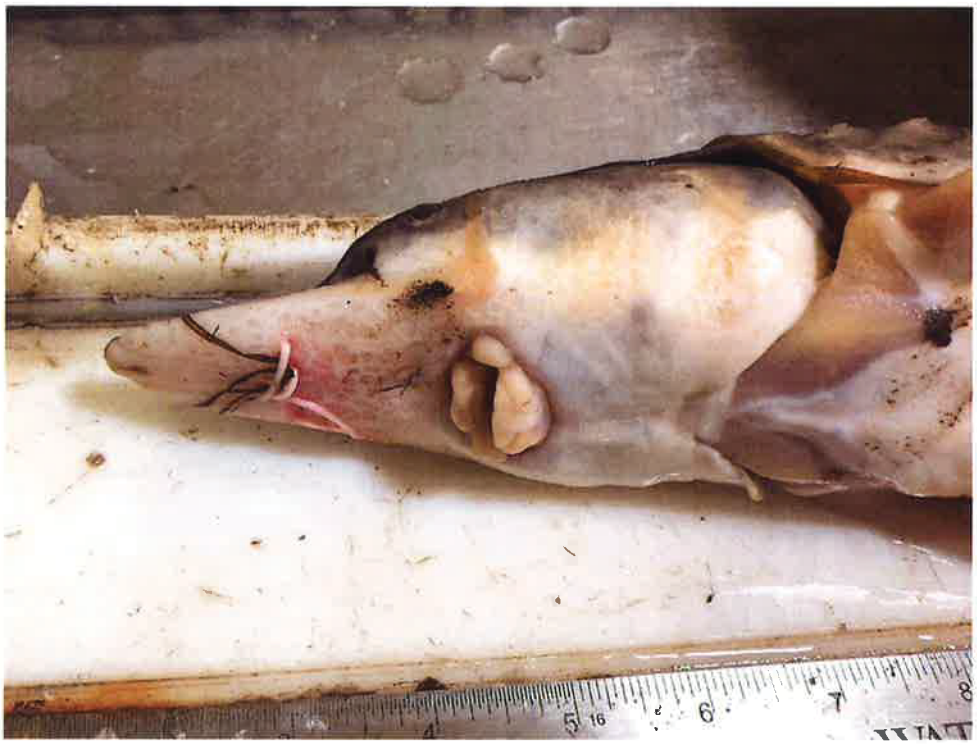
A ventral view of the specimen. A small puncture wound was observed on the last ventral scute, just prior to the origin of the left pelvic fin (01/17/2020).

Photographs

Ventral view of the specimen, showing a close-up of the puncture wound to the last ventral scute, located near the origin of the left pelvic fin (01/17/2020).

Dorsal view of the head, showing the characteristic elongated rostrum (01/17/2020).

Photographs



A ventral view of the head, showing the characteristic small mouth (01/17/2020)