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Sent: Tuesday, December 31, 2019 9:52 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 12-30-2019.pdf

Attached are the Incidental Take Report and Data Collection Form for the Atlantic sturgeon collected on 12/30/2019 at the Salem Generating Station cooling water intake. The deceased specimen was processed and is being held under refrigeration pending further direction from NMFS GARFO. 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

Kenneth A. Strait

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Subject: [External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF ATLANTIC STURGEON
Sent Date: 12/31/2019 9:51:32 AM
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From: Strait, Kenneth A.

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"jeanette.bowers@dep.nj.gov" <jeanette.bowers@dep.nj.gov>

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

Tracking Status: None

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

Tracking Status: None

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MESSAGE	1464	12/31/2019 9:51:42 AM
Sturgeon Incidental Take Report for 12-30-2019.pdf		427694

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: 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 11B

Date animal observed: 12/30/2019 Time animal observed: 10:18am

Date animal collected: 12/30/2019 Time animal collected: 10:18 am

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

Air temp. – 9.5 °C; Sal. – 4.0 ppt; Wind – ENE; sky – overcast; wave – slight; tide – F2 (92.0ft)

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

Date and time of last inspection of screen: Could not be verified by Salem Unit Control

Water temperature (°C) at site and time of observation: 6.5 °C

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

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 99.9% /Unit 2: 99.7%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /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 **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 12 Day 30 Year 2019

DATE EXAMINED:

Month 12 Day 30 Year 2019

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 11B, 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 **63.2 cm**

Total length **72.0 cm**

Length ☒ actual ☐ estimate

Mouth width (inside lips, see reverse side) **3.17 cm**

Interorbital width (see reverse side) **5.08 cm**

Weight ☒ actual ☐ estimate **2.0 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/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

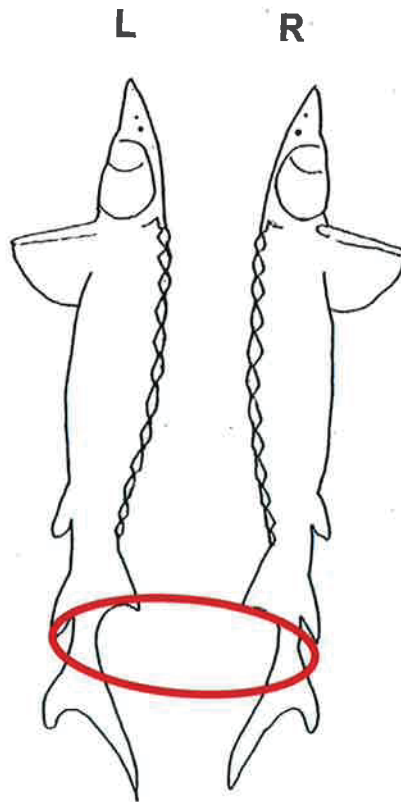
stored in non-denatured ethanol and refrigerated.

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 (11B intake) during routine trash rack cleaning on 12/30/19, at 10:18am. Positive identification was made by Environmental Consulting Services personnel at 10:30am, and PSEG Nuclear Environmental Affairs personnel were contacted shortly after. During processing, 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 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

Minor bruising on the dorsal surface of the head and torso and on the edges of the pectoral fins.



Existence of minor skin laceration to the caudal peduncle, immediately posterior to the dorsal 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 and was observed to have a minor laceration to the skin on the caudal peduncle, as well as some minor bruising of the skin on the edges of the pectoral fins, on the dorsal surface of the head and torso, and to the ventral portion of the tail (refer to diagram above).**

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



Dorsal view showing the size and condition of the recently deceased Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at 10:18am on 12/30/19 from 11B circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (12/30/2019).



A ventral view of the specimen, showing existing minor bruising at the edges of the pectoral fins and on the ventral portion of the tail (12/30/2019).

Photographs



A left, dorsolateral view of the head, showing minor bruising on the operculum. Similar bruising was evident over the dorsal surface of the torso (12/30/2019).



A ventral view of the head, showing a close-up of the characteristic elongated rostrum and small mouth (12/30/2019).

Photographs



A close-up of the caudal peduncle, showing a minor laceration to the skin, immediately posterior to the dorsal fin (12/30/2019).