From:	Strait, Kenneth A. <Kenneth.Strait@pseg.com>
Sent:	Friday, April 24, 2020 7:59 PM
To:	incidental.take@noaa.gov; EndangeredSpecies Resource
Cc:	jeanette.bowers@dep.nj.gov
Subject:	[External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF ATLANTIC & SHORTNOSE STURGEON
Attachments:	#1 Sturgeon Incidental Take Report for 04-24-2020.pdf; #2 Sturgeon Incidental Take Report for 04-24-2020.pdf; #3 Sturgeon Incidental Take Report for 04-24-2020 (Revised).pdf; #4 Sturgeon Incidental Take Report for 04-24-2020.pdf

Attached are the Incidental Take Reports and Data Collection Forms for four sturgeon collected on 04/24/2020 at the Salem Generating Station cooling water intake. 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
Manager-Biological Programs Phone: 856.339.3929
PSEG Nuclear Environmental Affairs Fax: 856.339.3905
P.O. Box 236, N33
Hancocks Bridge, NJ 08302 kenneth.strait@pseg.com
www.pseg.com/environment/estuary

Hearing Identifier: NRR_DRMA
Email Number: 552

Mail Envelope Properties (d175ee3cd6614c83ac80a44630cdc128)

Subject: [External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF ATLANTIC & SHORTNOSE STURGEON
Sent Date: 4/24/2020 7:58:47 PM
Received Date: 4/24/2020 7:59:13 PM
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	1353	4/24/2020 7:59:13 PM
#1 Sturgeon Incidental Take Report for 04-24-2020.pdf	422325	
#2 Sturgeon Incidental Take Report for 04-24-2020.pdf	356165	
#3 Sturgeon Incidental Take Report for 04-24-2020 (Revised).pdf	354823	
#4 Sturgeon Incidental Take Report for 04-24-2020.pdf	390007	

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: 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 11A

Date animal observed: 04/24/2020 Time animal observed: 08:50 am
Date animal collected: 04/24/2020 Time animal collected: 09:00 am

Environmental conditions at time of observation (i.e., tidal stage, weather):
Air temp. – 9.5 °C; Sal. – 6.0 ppt; Wind – NE; sky – overcast; Wave – slight; tide- Flood 1 (90.5 ft).

If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 04/24/2020; 12:54 am
Water temperature (°C) at site and time of observation: 12.5 °C
Number of pumps operating at time of observation: Unit 1: 5 circulators / Unit 2: 0 circulators
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.2% /Unit 2: 0.0%
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /Unit 2: 0.0%

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 04 Day 24 Year 2020
DATE EXAMINED:
Month 04 Day 24 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 11A 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	**62.2 cm**
Total length	**69.9 cm**
Length ☒ actual ☐ estimate	
Mouth width (inside lips, see reverse side)	**3.8 cm**
Interorbital width (see reverse side)	**5.1 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
None 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:

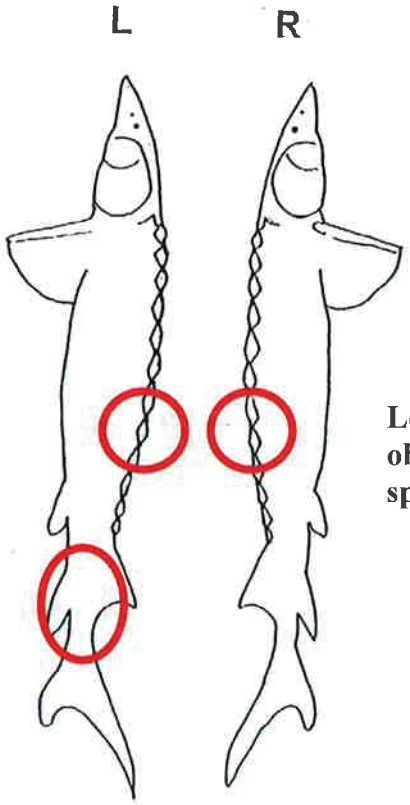
PHOTODOCUMENTATION:
Photos/vide taken? ☒ Yes ☐ No
Disposition of Photos/Video **PSEG Nuclear Environmental Affairs**

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 deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/24/20, at 09:00am. 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. 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



Location of small laceration observed mid-torso, along the spine

Location of small laceration or puncture wound observed on the left side of the torso, adjacent 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 small laceration on the dorsal aspect of the torso, prior to the dorsal fin, as well as a small laceration or puncture wound on the left side of the torso, immediately adjacent to the dorsal fin (refer to diagram above). Specimen exhibited no evidence of decomposition.**

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 a deceased, Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 09:00am on 04/24/2020 from the Salem Circulating Water Intake Structure by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/24/2020).

View of the lower torso, showing a small laceration located along the spinal scutes, just prior to the dorsal fin. Some bruising was also evident on the head, rostrum, and the edges of the larger fins (04/24/2020).

Photographs

View of the upper caudal peduncle, showing the location of a small laceration or puncture wound immediately adjacent to the dorsal fin. Also shown in the photo is evidence of missing fin-rays on the dorsal fin, in what appears to be the location of a prior fin clip collection (04/24/2020).

Dorsal view of the head, showing the characteristic elongated rostrum (04/24/2020).

Photographs

A ventral view of the head, showing the characteristic small mouth (04/24/2020).

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: 04/24/2020 Time animal observed: 09:40 am
Date animal collected: 04/24/2020 Time animal collected: 09:50 am

Environmental conditions at time of observation (i.e., tidal stage, weather):
Air temp. – 9.5 °C; Sal. – 6.0 ppt; Wind – NE; sky – light rain; Wave – slight; tide- Flood 1 (91.5 ft).

If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 04/24/2020; 12:54 am
Water temperature (°C) at site and time of observation: 12.5 °C
Number of pumps operating at time of observation: Unit 1: 5 circulators / Unit 2: 0 circulators
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.2% /Unit 2: 0.0%
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /Unit 2: 0.0%

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 04 Day 24 Year 2020
DATE EXAMINED:
Month 04 Day 24 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 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	**59.1 cm**
Total length	**69.9 cm**
Length ☒ actual ☐ estimate	
Mouth width (inside lips, see reverse side)	**3.2 cm**
Interorbital width (see reverse side)	**5.1 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
None 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

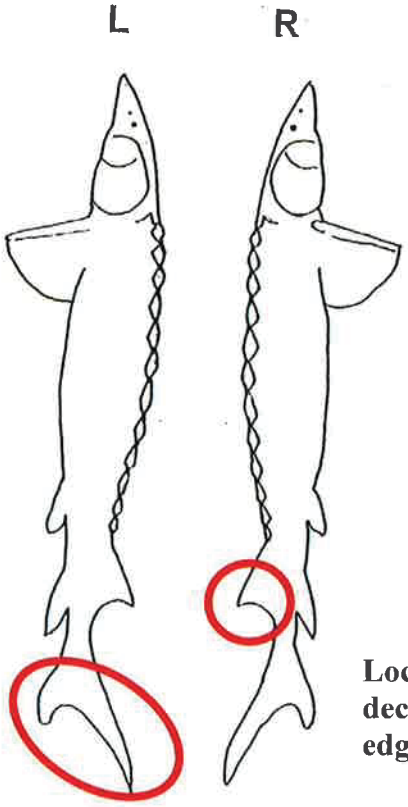
Disposition of Photos/Video **PSEG Nuclear Environmental Affairs**

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 second, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/24/20, at 09:50am. 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. 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



Location of moderate decomposition along caudal fin edge

Location of moderate decomposition along dorsal fin edge

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. Except for some moderate decomposition, particularly along the dorsal and caudal fin edges, no evidence of severe damage to the specimen was observed.**

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 a second, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 09:50am on 04/24/2020 from the Salem Circulating Water Intake Structure by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/24/2020).

Dorsal view of the head, showing the characteristic elongated rostrum (04/24/2020).

Photographs

A ventral view of the head, showing the characteristic small mouth (04/24/2020).

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: 04/24/2020 Time animal observed: 10:00 am
Date animal collected: 04/24/2020 Time animal collected: 10:15 am

Environmental conditions at time of observation (i.e., tidal stage, weather):
Air temp. – 9.5 °C; Sal. – 6.0 ppt; Wind – NE; sky – light rain; Wave – slight; tide- Flood 1 (92.0 ft).

If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 04/24/2020; 12:54 am
Water temperature (°C) at site and time of observation: 12.5 °C
Number of pumps operating at time of observation: Unit 1: 5 circulators / Unit 2: 0 circulators
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.2% /Unit 2: 0.0%
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /Unit 2: 0.0%

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 04 Day 24 Year 2020
DATE EXAMINED:
Month 04 Day 24 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 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	**55.2 cm**
Total length	**61.0 cm**
Length ☒ actual ☐ estimate	
Mouth width (inside lips, see reverse side)	**3.1 cm**
Interorbital width (see reverse side)	**5.1 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
None 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**

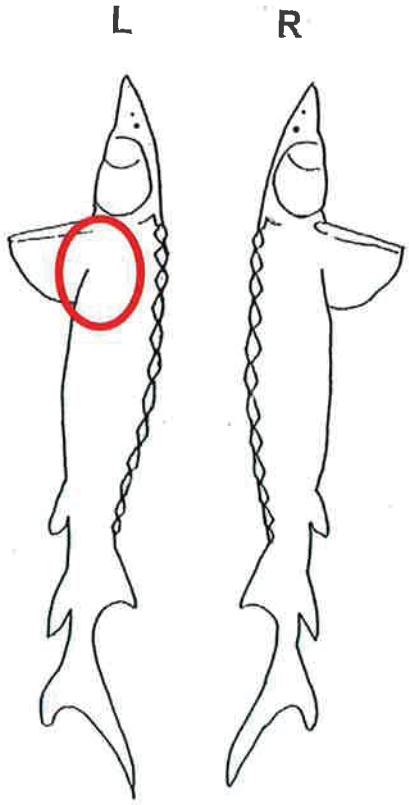
SAMPLES COLLECTED? ☐ **Yes** ☒ **No**

Sample	How preserved	Disposition (person, affiliation, use)

Comments: A third, deceased and severly decomposed, Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/24/20, at 10:15am. 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. A pelvic fin clip was not collected due to the severe nature of decomposition. 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.

Draw wounds, abnormalities, tag locations on diagram and briefly describe below

Location of large opening in the upper torso



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. Severe decomposed, indicated by pale body color and rotting flesh, was immediately observed at the time of processing. A large opening in the upper left torso, immediately posterior to the gills and exposing internal tissue, was also observed (refer to diagram above). It remains undetermined if the opening is a prior wound or a result of decomposition.**

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 a third deceased, Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 10:15am on 04/24/2020 from the Salem Circulating Water Intake Structure by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/24/2020).

Dorsal view of the head, showing the characteristic elongated rostrum (04/24/2020).

Photographs

A ventral view of the head, showing the characteristic small mouth (04/24/2020).

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 : Shortnose sturgeon (Acipenser brevirostrum)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, intake 11B

Date animal observed: 04/24/2020 Time animal observed: 10:00 am
Date animal collected: 04/24/2020 Time animal collected: 10:15 am

Environmental conditions at time of observation (i.e., tidal stage, weather):
Air temp. – 9.5 °C; Sal. – 6.0 ppt; Wind – NE; sky – light rain; Wave – slight; tide- Flood 1 (92.0 ft).

If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 04/24/2020; 12:54 am
Water temperature (°C) at site and time of observation: 12.5 °C
Number of pumps operating at time of observation: Unit 1: 5 circulators / Unit 2: 0 circulators
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.2% /Unit 2: 0.0%
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /Unit 2: 0.0%

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 04 Day 24 Year 2020
DATE EXAMINED:
Month 04 Day 24 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 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	**82.6 cm**
Total length	**92.7 cm**
Length ☒ actual ☐ estimate	
Mouth width (inside lips, see reverse side)	**5.4 cm**
Interorbital width (see reverse side)	**6.3 cm**
Weight ☒ actual ☐ estimate	**6.6 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
None 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:

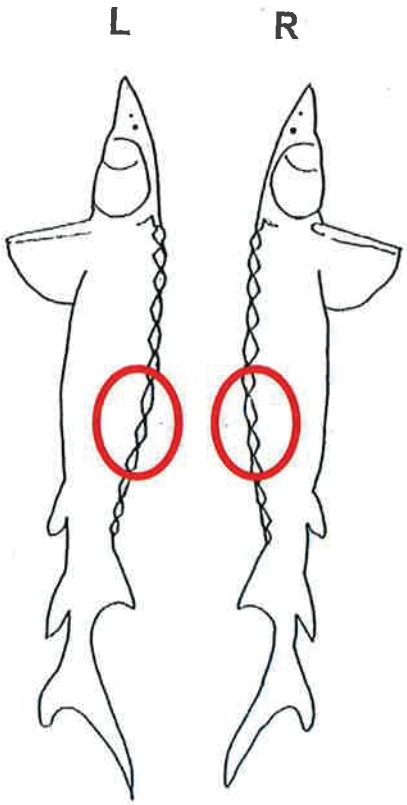
PHOTODOCUMENTATION:
Photos/vide taken? ☒ Yes ☐ No
Disposition of Photos/Video **PSEG Nuclear Environmental Affairs**

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 severly damaged Shortnose sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/24/20, at 10:15am. 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. A pelvic fin clip was collected for future DNA analysis. Although initially alive, the specimen did not survive due to its injuries. 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 large laceration located across the back at approximately mid-torso

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 it did not survive due to severe injury, which included a large laceration across the back, approximately at mid-torso.**

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.

Photographs

A dorsolateral view showing the size and condition of a deceased shortnose sturgeon (Acipenser brevirostrum), retrieved from the Salem Circulating Water Intake Structure on (04/24/2020) at approximately 10:15am by Salem Yard Crew personnel, during routine trash rack cleaning (04/24/2020).

A dorsal view of the specimen, showing the extent of damage caused by a large laceration extending across the specimen's back, at approximately mid-torso. The existence of a quantity of blood indicated the wound was likely fresh (04/24/2020).

Photographs

A dorsolateral view of the head, showing the characteristic short and blunt shaped rostrum (04/24/2020).

A ventral view of the head, showing the characteristic large mouth (04/24/2020).