From: Strait, Kenneth A. <Kenneth.Strait@pseg.com>

**Sent:** Friday, April 3, 2020 8:36 PM

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 reports for 04022020.pdf

Attached are the Incidental Take Reports and Data Collection Forms for the Atlantic sturgeon collected on 04/02/2020 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 <a href="mailto:kenneth.strait@pseg.com">kenneth.strait@pseg.com</a>

www.pseg.com/environment/estuary

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**Mail Envelope Properties** (9ed2a8751a504c1c82377c695f6f387f)

Subject: [External Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF

ATLANTIC STURGEON

 Sent Date:
 4/3/2020 8:36:21 PM

 Received Date:
 4/3/2020 8:37:31 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 1349 4/3/2020 8:37:31 PM Sturgeon incidental take reports for 04022020.pdf 6705411

**Options** 

Priority:NormalReturn Notification:YesReply Requested:NoSensitivity:Normal

**Expiration Date:** 

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 12:50 pm

Date animal collected: 04/2/2020 Time animal collected: 13:00 pm

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

Air temp. - 12.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- Ebb Slk(88.0ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.0 °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: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

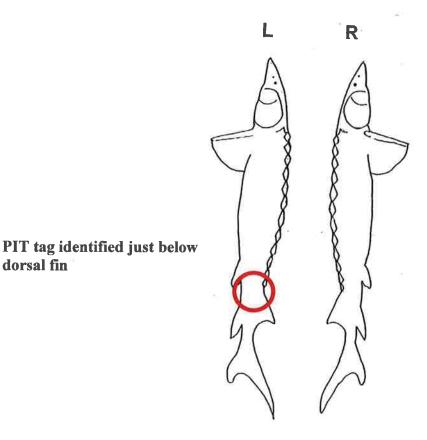
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFO Name: First <u>Beth</u> Last <u>G</u> Agency Affiliation <u>PSEG subcor</u> Address <u>100 South Cass Street</u> Area code/Phone number (302)	raham htractor Email Bet et, Middletown, DE		m D.M.	EC 7 UNIQUE IDENTIFIED o. Assigned by NMFS)  ATE REPORTED: onth 04 Day 2 Year 202  ATE EXAMINED: onth 04 Day 2 Year 202	20
SPECIES: (check one)  shortnose sturgeon Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of Wa Descriptive locati intake during rou	ater Delaware Rive on (be specific) Re tine trash rack clea	tlantic or Gulf bear City Lo moved from C ning at the Sa	ach) Inshore (bay, river, some Alloways Creek States States Instituted I	und, inlet, etc) te <u>NJ</u> ructure (CWIS)
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 determ ☐ Necropsy ☐ Eggs/milt presen ☐ Borescope		t when pressed	MEASUREMENTS: Fork length Total length Length		Circle unit 70.0cm 81.0cm 4.4 cm 6.6 cm 2.6 kg
TAGS PRESENT? Examined fo Tag # No tag found	r external tags includ Tag Type	ding fin clips? 🔀		Scanned for PIT tags? of tag on carcass	⊠ Yes □ No
CARCASS DISPOSITION: (cher 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe. Specimen was condition. After processing, and a period stress, it was released back to the Dela	healthy and in excellent	Carcass Necrop  ☐Yes ☑No  Date Necropsied  Necropsy Lead:	sied?	PHOTODOCUMENT Photos/vide taken? Disposition of Photos/Vide Environmental Affairs	☑ Yes ☐ No
SAMPLES COLLECTED? Yes No Sample How preserved Pelvic fin clip stored in non-dena and refrigerated.		atured ethanol	Held at the	on (person, affiliation, us e office of ECSI for aggr to designated laborator	egated

Comments: A live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 12:50. 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 #933000220017830. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was released back to the Delaware River. 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



dorsal fin

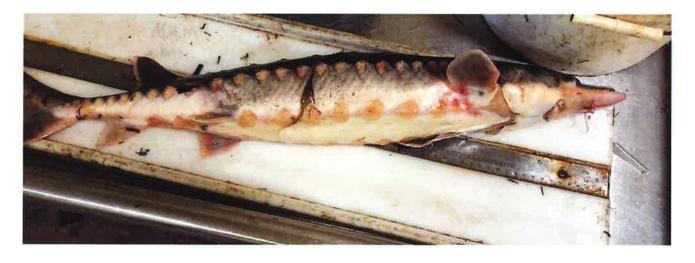
Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found. Specimen was live at the time of collection, and had no obvious signs of damage. A PIT was identified, located below the dorsal fin, on the left side (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.



A dorsolateral view showing the size and condition of the live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 12:50am on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen. No obvious wounds were observed (04/2/2020).



Dorsal view of the head, showing the characteristic elongated rostrum and small mouth (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])
Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 13:15 pm

Date animal collected: 04/2/2020 Time animal collected: 13:40 pm

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

Air temp. – 12.0 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide- Ebb Slk(88.0ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.0 °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: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

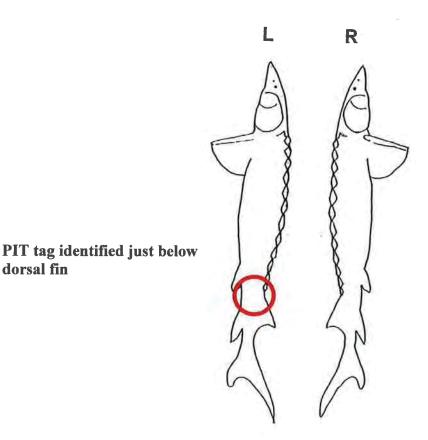
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFORMATION Name: First Beth Last Graham Agency Affiliation PSEG subcontractor Email Beth.Graham@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 2 Year 2020 DATE EXAMINED: Month 04 Day 2 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.	River/Body of Wa Descriptive location intake during rout	ater <u>Delaware Rive</u> on (be specific) <u>Re</u> tine trash rack clea	er City <u>Low</u> moved from Coning at the Sal	ach) Inshore (bay, river, sou wer Alloways Creek State irculating Water Intake Strulem Generating Station, PS 75.536133° (Dec. Degrees)	e <u>NJ</u> ucture (CWIS)	
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage	me examined: (check one)  1 = Fresh dead  2 = Moderately decomposed  3 = Severely decomposed  4 = Dried carcass  Undetermined  How was sex determ  Necropsy  Eggs/milt presen		MEASUREMENTS: Fork length Total length Length		Circle unit 73.0cm 82.6cm  4.4 cm 6.1 cm 3.1kg	
TAGS PRESENT? Examined for Tag # No tag found	external tags includ Tag Type	ding fin clips? 🖂 ՝		Scanned for PIT tags? [ of tag on carcass	⊠ Yes ☐ No	
CARCASS DISPOSITION: (checon 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe. Specimen was a condition. After processing, and a period stress, it was released back to the Delay	nealthy and in excellent d of holding to reduce	Carcass Necrop  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENTA Photos/vide taken?  Disposition of Photos/Videocumental Affairs	Yes No	
SAMPLES COLLECTED? Yes No Sample How preserved Stored in non-denate and refrigerated.		atured ethanol	Held at the	on (person, affiliation, use e office of ECSI for aggre to designated laborator	gated	

Comments: A second live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 13:40. 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 #933000220017825. 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 13:45. 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



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 live at the time of collection, and had no obvious signs of damage, except for a minor laceration on the left pelvic fin and some minor bruising on the right side of the torso. A PIT was identified, located below the dorsal fin, on the left side (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.

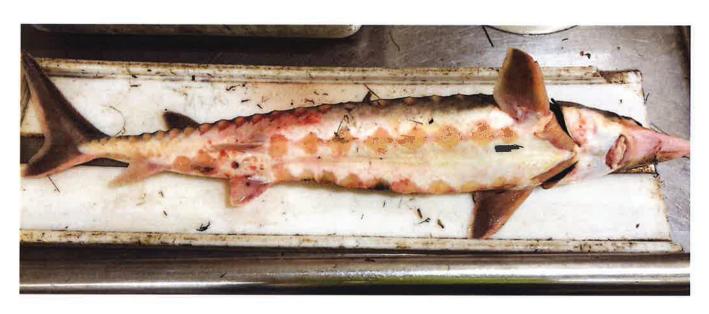
Data Access Policy: Upon written request, information submitted to National Marine Fisheries Service (NOAA Fisheries) on this form will be released to the requestor provided that the requestor credit the collector of the information and NOAA Fisheries. NOAA Fisheries will notify the collector that these data have been requested and the intent of their use.



A dorsolateral view showing the size and condition of a second, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 13:40pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A dorsal view of the specimen. No obvious wounds, except for a minor laceration on the left pelvic fin and some bruising on the right side of the torso, were observed (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 13:30 pm

Date animal collected: 04/2/2020 Time animal collected: 13:47 pm

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

Air temp. – 12.0 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide- Ebb Slk(88.0ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.0 °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: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

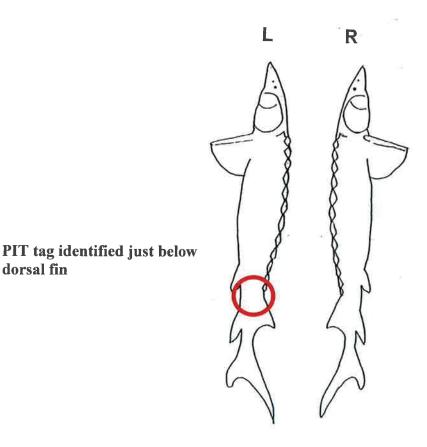
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFORMATION Name: First <u>Beth</u> Last <u>Graham</u> Agency Affiliation <u>PSEG subcontractor</u> Email <u>Beth.Graham@pseg.com</u> Address <u>100 South Cass Street, Middletown, DE 19709</u> Area code/Phone number <u>(302) 378-9881</u> (Environmental Consulting Services, Inc.)				SEC 7 UNIQUE IDENTIFIER (PCTS No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 2020 DATE EXAMINED: Month 04 Day 2 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 Gu River/Body of Water <u>Delaware River</u> City Descriptive location (be specific) <u>Removed frointake during routine trash rack cleaning at the Latitude 39.460603° (Dec. Degrees) Longitude</u>			ower Alloways Creek State Circulating Water Intake Strate alem Generating Station, Posts alem Generating Station, Posts Allow Station   Posts   Po	te <u>NJ</u> ructure (CWIS)	
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 ☐ Mall How was sex detern ☐ Necropsy ☐ Eggs/milt presen ☐ Borescope		t when pressed	MEASUREMENTS: Fork length Total length  Length		Circle unit 73.6cm 82.5cm  4.6 cm 7.0 cm 3.6kg	
Tag # No tag found	Tag Type			of tag on carcass		
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 good 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:		PHOTODOCUMENT, Photos/vide taken?  Disposition of Photos/Vide Environmental Affairs	⊠ Yes □ No	
SAMPLES COLLECTED? Yes No Sample How preserved stored in non-den and refrigerated.		atured ethanol	Held at t	ion (person, affiliation, us he office of ECSI for aggr nt to designated laborator	egated	

Comments: A third, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 13:47. 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 #933000220017828. 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 13:51. 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



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 live at the time of collection, and had no serious signs of damage. PIT was implanted, located below the dorsal fin, on the left side (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.



A dorsal view showing the size and condition of a third, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 13:47pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A dorsolateral view of the specimen. No obvious wounds, except for minor bruising on the left side of the torso, was observed (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 13:30 pm

Date animal collected: 04/2/2020 Time animal collected: 13:53 pm

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

Air temp. - 13.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- Ebb Slk(88.0ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.0 °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: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

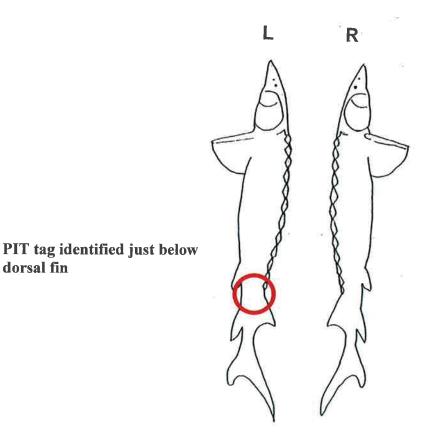
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFO Name: First Beth Last G Agency Affiliation PSEG subcon Address 100 South Cass Stree Area code/Phone number (302)  SPECIES: (check one) Shortnose sturgeon Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	tractor Email Beet, Middletown, DE 378-9881 (Environment LOCATION FOU River/Body of Wall Descriptive location intake during rou	ental Consulting Servine (Alacer Delaware Riverion (be specific) Retine trash rack cleans	ices, Inc.)  lantic or Gulf bear City Lomoved from Coning at the Sa	EC 7 UNIQUE IDENTIFIER Io.Assigned by NMFS)  DATE REPORTED:  Month 04 Day 2 Year 202  DATE EXAMINED:  Month 04 Day 2 Year 202  Deach) Inshore (bay, river, sour bower Alloways Creek State Circulating Water Intake Structure Generating Station, PS-75.536133° (Dec. Degrees)	0  nd, inlet, etc)  NJ  ucture (CWIS)
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage  TAGS PRESENT? Examined fo Tag # No tag found	SEX:  Undetermined  Female Male  How was sex determ  Necropsy  Eggs/milt presen  Borescope  r external tags inclu  Tag Type	nined? It when pressed	MEASUREMENTS:  Fork length Total length Length		
CARCASS DISPOSITION: (checonomic of the control of	healthy and in good of holding to reduce ware River.	Carcass Necrop  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:		PHOTODOCUMENTA Photos/vide taken?  Disposition of Photos/Vide Environmental Affairs	Yes No
Sample Pelvic fin clip  and refrigerated.		atured ethanol	Held at the	on (person, affiliation, us ne office of ECSI for aggre t to designated laborator	egated

Comments: A fourth, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 13:53. 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 #933000220017819. 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 13:59. 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



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 live at the time of collection, and had no serious signs of damage. PIT was implanted, located below the dorsal fin, on the left side (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.

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A dorsolateral view, showing the size and condition of a fourth, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 13:53pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth. Specimen had some minor bruising on the ventral portion of the torso (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 13:45 pm

Date animal collected: 04/2/2020 Time animal collected: 14:00 pm

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

Air temp. – 13.0 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide-FL1(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

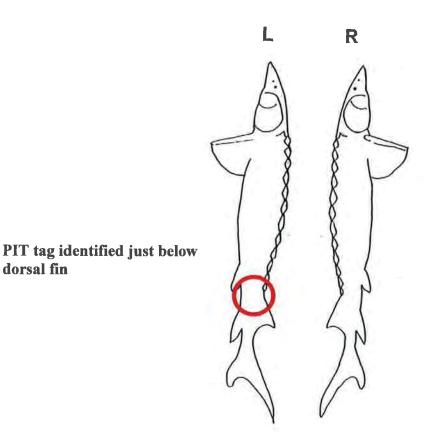
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFORMATION  Name: First <u>Beth</u> Last <u>Graham</u> Agency Affiliation <u>PSEG subcontractor</u> Email <u>Beth.Graham@pseg.com</u> Address <u>100 South Cass Street, Middletown, DE 19709</u> Area code/Phone number <u>(302) 378-9881</u> (Environmental Consulting Services, Inc.)				SEC 7 UNIQUE IDENTIFIER (PCTS No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 2020 DATE EXAMINED: Month 04 Day 2 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.	River/Body of Wa Descriptive location intake during rout	iter <u>Delaware Rive</u> on (be specific) <u>Re</u> tine trash rack clea	er City   moved from ning at the	beach) Sinshore (bay, river, so Lower Alloways Creek State Circulating Water Intake State Generating Station, Feb75.536133° (Dec. Degrees)	ate <u>NJ</u> tructure (CWIS) PSEG Nuclear LLC.	
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage	me examined: (check one)  ☐ 1 = Fresh dead ☐ 2 = Moderately decomposed ☐ 3 = Severely decomposed ☐ 4 = Dried carcass ☐ Undetermined ☐ Female ☐ Male How was sex determ ☐ Necropsy ☐ Eggs/milt presen		Fork length  Length  Mouth w Interorbi	•	Circle unit 58.0 cm 67.0 cm 3.0 cm 5.3 cm 1.3 kg	
TAGS PRESENT? Examined fo Tag # No tag found	r external tags includ Tag Type	ding fin clips? 🛚 ՝		Scanned for PIT tags? on of tag on carcass	⊠ Yes □ No	
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:		PHOTODOCUMENT Photos/vide taken? Disposition of Photos/vide Environmental Affairs	⊠ Yes ☐ No	
SAMPLES COLLECTED? Yes No Sample How preserved Pelvic fin clip stored in non-dena and refrigerated.		atured ethanol	Held at	ition (person, affiliation, u the office of ECSI for agg ent to designated laborate	regated	

Comments: A fifth, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:00 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 #933000220017817. 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 14:06. 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



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 live at the time of collection, and had no serious signs of damage. PIT was implanted, located below the dorsal fin, on the left side (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.



A dorsal view, showing the size and condition of a fifth, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:00pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth. Specimen appeared to be in very good condition (04/2/2020).

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"

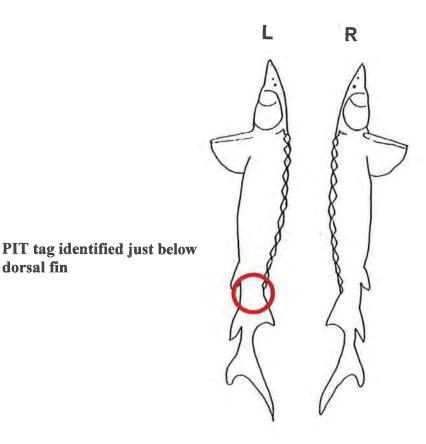
Observer's full name: Beth Graham (Environmental Consulting Services, Inc. [ECSI])
Reporter's full name: Beth Graham
Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)
Site of Collection: PSEG Salem Generating Station; Circulating Water Intake
Date animal observed: 04/2/2020 Time animal observed: 13:55 pm
Date animal collected: 04/2/2020 Time animal collected: 14:07 pm
Environmental conditions at time of observation (i.e., tidal stage, weather):  Air temp. – 13.0 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide- FL1(88.5ft)
If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 04/2/2020; at 12:01am
Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%
Average percent of power generating capacity achieved per unit over the 48 hours previous to
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

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OBSERVER'S CONTACT INFORMATION Name: First Beth Last Graham Agency Affiliation PSEG subcontractor Email Beth.Graham@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 2 Year 2020 DATE EXAMINED: Month 04 Day 2 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.	River/Body of Wa Descriptive location intake during rout	iter <u>Delaware Rive</u> on (be specific) <u>Re</u> tine trash rack clea	er City <u>L</u> moved from ning at the S	each) Sinshore (bay, river, so ower Alloways Creek Sta Circulating Water Intake Stalem Generating Station, Pt-75.536133° (Dec. Degrees)	te <u>NJ</u> ructure (CWIS)	
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage	How was sex determ  Necropsy	Undetermined Fork leading Female Male Total le www.gray Necropsy Eggs/milt present when pressed Borescope Fork leading Total le Length Mouth v Interort				
TAGS PRESENT? Examined for Tag # No tag found	or external tags includ Tag Type	ding fin clips? 🛚 `		Scanned for PIT tags? of tag on carcass	⊠ Yes □ No	
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?		
SAMPLES COLLECTED? Yes No Sample How preserved Stored in non-dena and refrigerated.		atured ethanol	Held at the	ion (person, affiliation, us he office of ECSI for aggr at to designated laborator	egated	

Comments: A sixth, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:07. 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 #933000220017811. 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 14:12. 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

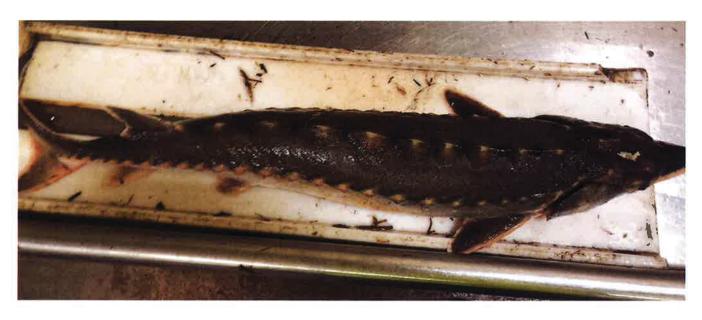


dorsal fin

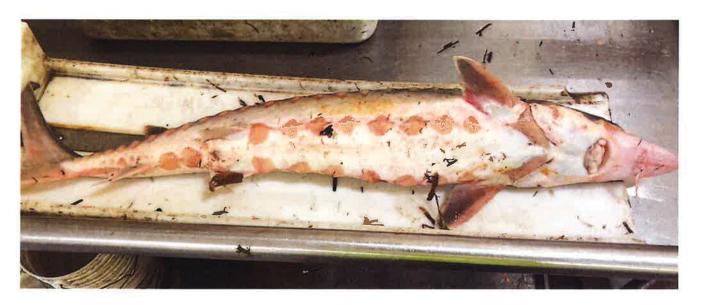
Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found. Specimen was live at the time of collection, and had no serious signs of damage. PIT was implanted, located below the dorsal fin, on the left side (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.

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A dorsal view, showing the size and condition of a sixth, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:07pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth. Specimen appeared to be in very good condition (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 14:00 pm

Date animal collected: 04/2/2020 Time animal collected: 14:15 pm

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

Air temp. - 13.5 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide-FL1(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

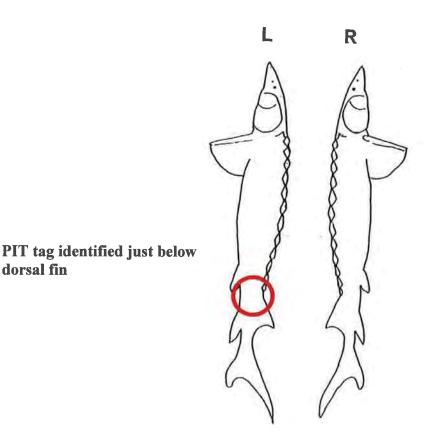
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

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OBSERVER'S CONTACT INFORMATION Name: First Beth Last Graham				SEC 7 UNIQUE IDENTIFIER (PCTS No.Assigned by NMFS)		
Agency Affiliation PSEG subcontractor Email_Beth.Graham@pseg.com				DATE REPORTED:		
Address 100 South Cass Stree			I M	onth 04 Day 2 Year 202	0	
Area code/Phone number (302) 3	(Environme	ental Consulting Serv	ILOOO INO II	ATE EXAMINED:		
			M	onth 04 Day 2 Year 202	0	
SPECIES: (check one)  shortnose sturgeon Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of Wa Descriptive locati intake during rout	ater <u>Delaware Rive</u> on (be specific) <u>Re</u> tine trash rack clea	er City <u>Lo</u> moved from C ning at the Sa	wer Alloways Creek State irculating Water Intake Structure Generating Station, PS 75.536133° (Dec. Degrees)	e <u>NJ</u> ucture (CWIS)	
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage  TAGS PRESENT? Examined for Tag # No tag found	SEX:  Undetermined  Female Male How was sex determ Necropsy Eggs/milt present Borescope  external tags include	ined? t when pressed	Fork length Total length Length Mouth widtl Interorbital Weight Yes No	MEASUREMENTS: Fork length Total length Length		
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 good 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:		PHOTODOCUMENTA Photos/vide taken?  Disposition of Photos/Video Environmental Affairs	Yes No	
SAMPLES COLLECTED? Yes No Sample How preserved Pelvic fin clip stored in non-dendand refrigerated.		atured ethanol	Held at the	on (person, affiliation, use e office of ECSI for aggre to designated laboratory	gated	

Comments: A sixth, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:15. 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 #933000220017814. 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 14:19. 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



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 live at the time of collection, and had no serious signs of damage. PIT was implanted, located below the dorsal fin, on the left side (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.

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A dorsolateral view, showing the size and condition of a sixth, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:15pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A dorsal view of the specimen. Specimen appeared to be in very good condition (04/2/2020).



A ventral view of the specimen, showing the characteristic small mouth and elongated rostrum (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 14:00 pm

Date animal collected: 04/2/2020 Time animal collected: 14:20 pm

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

Air temp. - 13.5 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide-FL1(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.5 °C

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

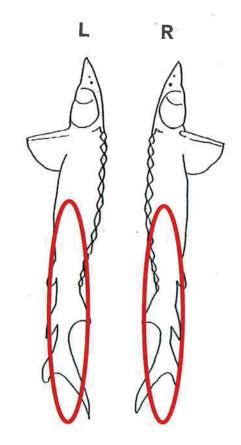
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFORMATION  Name: First <u>Beth</u> Last <u>Graham</u> Agency Affiliation <u>PSEG subcontractor</u> Email <u>Beth.Graham@pseg.com</u> Address <u>100 South Cass Street, Middletown, DE 19709</u> Area code/Phone number <u>(302) 378-9881</u> (Environmental Consulting Services, Inc.)				SEC 7 UNIQUE IDENTIFIER (PCTS No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 2020 DATE EXAMINED: Month 04 Day 2 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.	River/Body of W Descriptive loca intake during rou	ater <u>Delaware River</u> tion (be specific) <u>Remo</u> utine trash rack cleanin	City <u>Lo</u> oved from C og at the Sa	ulf beach) ⊠Inshore (bay, river, sound, inlet, etc) y Lower Alloways Creek State NJ om Circulating Water Intake Structure (CWIS) te Salem Generating Station, PSEG Nuclear LLC. de -75.536133° (Dec. Degrees)		
CARCASS CONDITION at time examined: (check one)	ne examined: (check one)  1 = Fresh dead  2 = Moderately decomposed  3 = Severely decomposed  4 = Dried carcass  Undetermined  Female  Mathematical				Circle unit UNM UNM  4.6 cm 6.6cm 1.2 kg	
TAGS PRESENT? Examined for Tag # No tag found	external tags inclu Tag Type	uding fin clips? Xes		Scanned for PIT tags? [ of tag on carcass	⊠ Yes ☐ No	
CARCASS DISPOSITION: (checon 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe).	ck one or more)	Carcass Necropsie  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	d?	PHOTODOCUMENTA Photos/vide taken?  Disposition of Photos/Vide Environmental Affairs	Yes No	
	es  No How preserved		Disposition	on (person, affiliation, us	e)	

Comments: An eighth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:20. 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. Due to the severe damage, (posterior torso missing) a fin clip was not collected. 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.



Specimen was missing the lower half of the 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 severely damaged and deceased at the time of collection. Specimen was missing the lower half of its torso (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.



A dorsal view, showing the size and condition of an eighth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:20pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic small mouth and elongated rostrum, as well as the severe damage observed at the time of collection (04/2/2020).

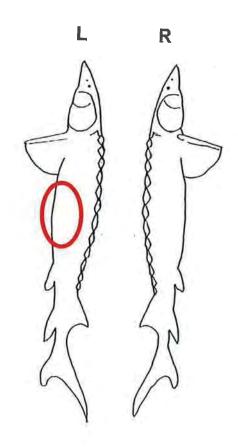
Photographs should be taken and the following information should be collected from all sturgeon (alive and dead). Please submit all necropsy results (including sex and stomach contents) to NMFS upon receipt. You must also complete and submit the "Sturgeon Data Collection Form"

Observer's full name: Beth Graham (Environmental Consulting Services, Inc. [ECSI])
Reporter's full name: Beth Graham
Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)
Site of Collection: PSEG Salem Generating Station; Circulating Water Intake
Date animal observed: 04/2/2020 Time animal observed: 14:15 pm
Date animal collected: 04/2/2020 Time animal collected: 14:24 pm
Environmental conditions at time of observation (i.e., tidal stage, weather):  Air temp. – 13.5 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide- FL1(88.5ft)
If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 04/2/2020; at 12:01am
Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%
Average percent of power generating capacity achieved per unit over the 48 hours previous to
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFORMATION  Name: First <u>Beth</u> Last <u>Graham</u> Agency Affiliation <u>PSEG subcontractor</u> Email <u>Beth.Graham@pseg.com</u> Address <u>100 South Cass Street, Middletown, DE 19709</u> Area code/Phone number <u>(302) 378-9881</u> (Environmental Consulting Services, Inc.)				SEC 7 UNIQUE IDENTIFIER (PCTS No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 2020 DATE EXAMINED: Month 04 Day 2 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.	River/Body of W Descriptive loca intake during rou	ater <b>Delaware Rive</b> tion (be specific) Re utine trash rack clea	r City I moved from ning at the	ulf beach)  Inshore (bay, river, sound, inlet, etc) by Lower Alloways Creek State  NJ com Circulating Water Intake Structure (CWIS) be Salem Generating Station, PSEG Nuclear LLC lde -75.536133° (Dec. Degrees)		
5 = Skeletal, scutes & cartilage  Borescope  FAGS PRESENT? Examined for external tags inclu		mined? nt when pressed	Fork leng Total length Mouth w Interorbit Weight			
No tag found	Tag Type			n of tag on carcass		
CARCASS DISPOSITION: (che 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe).	eck one or more)	Carcass Necrops  ☐ Yes ☑ No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENT Photos/vide taken? Disposition of Photos/Vid Environmental Affairs	∑ Yes ☐ No	
SAMPLES COLLECTED? Yes No Sample How preserved Pelvic fin clip stored in non-den and refrigerated.		natured ethanol	Held at	tion (person, affiliation, us the office of ECSI for aggi nt to designated laborato	regated	

Comments: A nineth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:24. 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.



A large ventral laceration was observed 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 damaged and deceased at the time of collection. A large laceration was observed along the belly, mid torso (refer to diagram above).

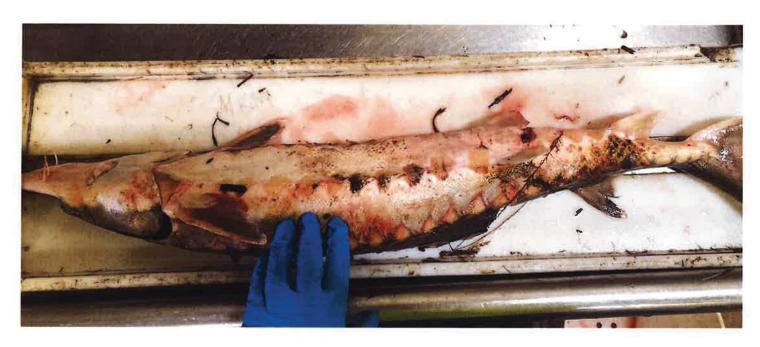
Submit completed forms (within 24 hours of observation of fish): by e-mail to Incidental Take@noaa.gov or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.



A dorsolateral view, showing the size and condition of a nineth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:24pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A dorsal view of the specimen, showing a large laceration along the lower torso (04/2/2020).



A ventral view of the specimen. In addition to the laceration, bruising and contusions were observed ventrally along the torso (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 14:15 pm

Date animal collected: 04/2/2020 Time animal collected: 14:28 pm

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

Air temp. - 13.5 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- FL1(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.5 °C

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

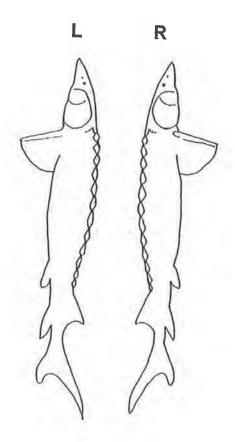
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /Unit 2: 95.5%

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

SAMPLES COLLECTED? Yes No Sample Pelvic fin clip stored in non-de and refrigerated.		natured ethanol	Held at th	on (person, affiliation, use) ne office of ECSI for aggregate t to designated laboratory.	<u>ed</u>	
CARCASS DISPOSITION: (checond) 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe).	ck one or more)	Carcass Necrops  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENTATION Photos/vide taken? Yes Disposition of Photos/Video PSE Environmental Affairs	s No	
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage  TAGS PRESENT? Examined fo Tag # No tag found	☐ Undetermined		Fork lengt Total leng Length [ Mouth wid Interorbita Weight [	otal length ength		
Agency Affiliation PSEG subcon Address 100 South Cass Street Area code/Phone number (302)  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 FOR River/Body of W Descriptive loca	UND: Offshore (At ater Delaware Rivertion (be specific) Reutine trash rack clea	lantic or Gulf be C City Lomoved from oning at the S	OATE REPORTED:  Month 04 Day 2 Year 2020  OATE EXAMINED:  Month 04 Day 2 Year 2020  each) ⊠Inshore (bay, river, sound, in ower Alloways Creek State NJ Circulating Water Intake Structuralem Generating Station, PSEG No. 75.536133° (Dec. Degrees)	e (CWIS)	
OBSERVER'S CONTACT INFORMATION Name: First Beth Last Graham				SEC 7 UNIQUE IDENTIFIER (PCTS No.Assigned by NMFS)		

Comments: A tenth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:28. 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.



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 but revealed no severe damage and only minor abrasions on the 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.



A dorsal view, showing the size and condition of a tenth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:28pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen. Except for some minor, bruising no severe damage was observed (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 14:15 pm

Date animal collected: 04/2/2020 Time animal collected: 14:32 pm

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

Air temp. – 13.5 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide-FL1(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

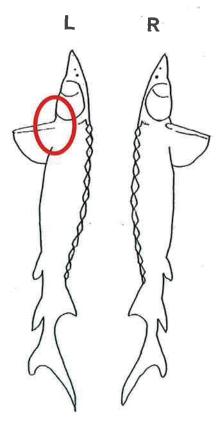
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFORMATION Name: First Beth				Month 04 Day 2 Year 2020  ulf beach) ⊠Inshore (bay, river, sound, inlet, etc)		
Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	Descriptive local	tion (be specific) Re	moved from C ning at the Sa	wer Alloways Creek State Circulating Water Intake Stru- Iem Generating Station, PS 75.536133° (Dec. Degrees)	ucture (CWIS)	
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage	(check one)		MEASUREMENTS:  Fork length  Total length  Length			
	Tag Type			of tag on carcass		
CARCASS DISPOSITION: (checon)  1 = Left where found  2 = Buried  3 = Collected for necropsy/salvage  4 = Frozen for later examination  5 = Other (describe).	ck one or more)	Carcass Necrope  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENTA Photos/vide taken?  Disposition of Photos/Video Environmental Affairs	Yes No	
SAMPLES COLLECTED? Yes No Sample How preserved stored in non-c and refrigerate		atured ethanol	Held at the	on (person, affiliation, use e office of ECSI for aggre to designated laboratory	gated	

Comments: An eleventh, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:32. 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.

Large laceration observed near the gills, between the pectoral fins

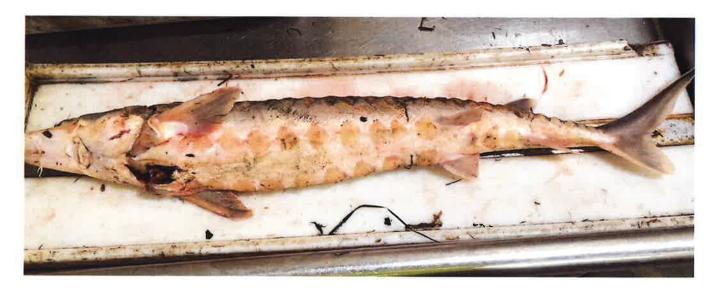


Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found. Specimen was deceased at the time of collection and revealed a laceration located near the gills, just between the pectoral fins.

Submit completed forms (within 24 hours of observation of fish): by e-mail to <a href="mailto:lncidentalTake@noaa.gov">lncidentalTake@noaa.gov</a> or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.



A dorsal view, showing the size and condition of an eleventh, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:32pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing damage in the form of a laceration near the gills, just between the pectoral fins (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 14:15 pm

Date animal collected: 04/2/2020 Time animal collected: 14:37 pm

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

Air temp. - 13.5 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- FL1(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

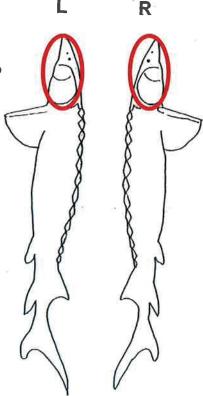
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFO Name: First Beth Last G Agency Affiliation PSEG subcor Address 100 South Cass Stree Area code/Phone number (302)  SPECIES: (check one)	raham itractor Email Be et, Middletown, DE 378-9881 (Environm	ental Consulting Serv	ices, Inc.)	SEC 7 UNIQUE IDENTIFIE No.Assigned by NMFS)  DATE REPORTED:  Month 04 Day 2 Year 20  DATE EXAMINED:  Month 04 Day 2 Year 20  beach)  VInshore (bay river so	20	
shortnose sturgeon Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	70 4000000 70 6004000 -					
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 ☐ Mal How was sex detern ☐ Necropsy ☐ Eggs/milt preser ☐ Borescope		mined?	Fork len Total ler <b>Length</b> Mouth w Interorbi	MEASUREMENTS:  Fork length  Total length  Length		
TAGS PRESENT? Examined fo Tag # No tag found	r external tags inclu Tag Type	uding fin clips? 🔀 `		Scanned for PIT tags? on of tag on carcass	⊠ Yes □ No	
CARCASS DISPOSITION: (checond) 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe).	ck one or more)	Carcass Necrop  ☐ Yes ☑ No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENT Photos/vide taken? Disposition of Photos/Videnter Environmental Affairs	∑ Yes ☐ No	
SAMPLES COLLECTED? Yes No Sample How preserved Stored in non-control and refrigerate		natured ethanol	Held at	ition (person, affiliation, us the office of ECSI for agg ent to designated laborato	regated	
			-			

Comments: A twelth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:37. 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.

Severe damage to the head, in which the skull appears to have been crushed.



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 damaged and deceased at the time of collection. The specimen's skull appears to have been crushed, and evidence of early stages of decomposition were observed (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.



A dorsal view, showing the size and condition of a twelfth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:37pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing damage in the form of damage to the skull and evidence of early stages of decomposition on the ventral portion of the torso (04/2/2020).

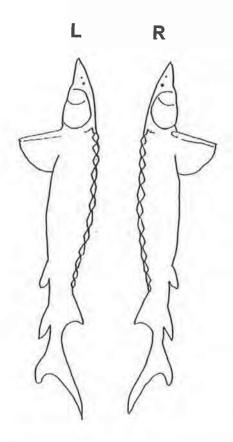
Photographs should be taken and the following information should be collected from all sturgeon (alive and dead). Please submit all necropsy results (including sex and stomach contents) to NMFS upon receipt. You must also complete and submit the "Sturgeon Data Collection Form"

Observer's full name: Beth Graham (Environmental Consulting Services, Inc. [ECSI])								
Reporter's full name: Beth Graham								
Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)								
Site of Collection: PSEG Salem Generating Station; Circulating Water Intake								
Date animal observed: 04/2/2020 Time animal observed: 14:15 pm								
Date animal collected: 04/2/2020 Time animal collected: 14:42 pm								
Environmental conditions at time of observation (i.e., tidal stage, weather):  Air temp. – 13.5 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide- FL1(88.5ft)								
If removed from intakes (trash racks or traveling screens):								
Date and time of last inspection of screen: 04/2/2020; at 12:01am								
Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%								
Average percent of power generating capacity achieved per unit over the 48 hours previous to								
observation: Unit 1: 100.1% /Unit 2: 95.5%								

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

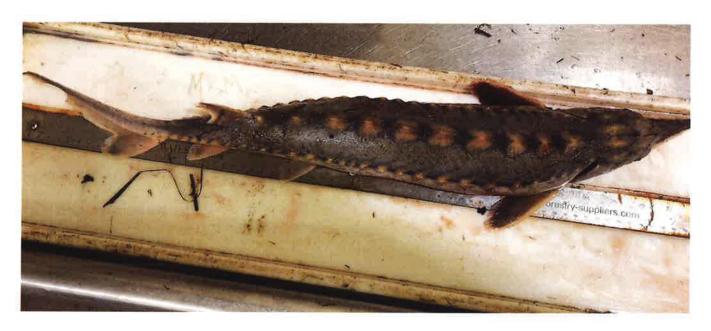
OBSERVER'S CONTACT INFORMATION  Name: First Beth Last Graham  Agency Affiliation PSEG subcontractor Email Beth.Graham@pseg.com  Address 100 South Cass Street, Middletown, DE 19709  Area code/Phone number (302) 378-9881 (Environmental Consulting Services, Inc.)				SEC 7 UNIQUE IDENTIFIER (PCTS No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 2020 DATE EXAMINED: Month 04 Day 2 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.	River/Body of W Descriptive local intake during rou	ater <b>Delaware Rive</b> tion (be specific) Re utine trash rack clea	er City <u>L</u> moved from ning at the S	each) ⊠Inshore (bay, river, so ower Alloways Creek Sta Circulating Water Intake St alem Generating Station, P -75.536133° (Dec. Degrees)	ite <u>NJ</u> ructure (CWIS) SEG Nuclear LLC.	
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage	Borescope	mined? nt when pressed	MEASUREMENTS: Fork length Total length Length		Circle unit 57.7 cm 68.0 cm 4.1 cm 5.3 cm 0.4 kg	
TAGS PRESENT? Examined for Tag # No tag found	or external tags inclu Tag Type	uding fin clips? 🖂 ՝		Scanned for PIT tags? of tag on carcass		
CARCASS DISPOSITION: (che 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe).	ck one or more)	Carcass Necrop  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENT Photos/vide taken? Disposition of Photos/Vid Environmental Affairs	∑ Yes ☐ No	
SAMPLES COLLECTED? Yes No Sample How preserve Stored in non and refrigerat		natured ethanol	Held at t	on (person, affiliation, un the office of ECSI for agg at to designated laborato	regated	

Comments: A thirteenth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:42. 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.

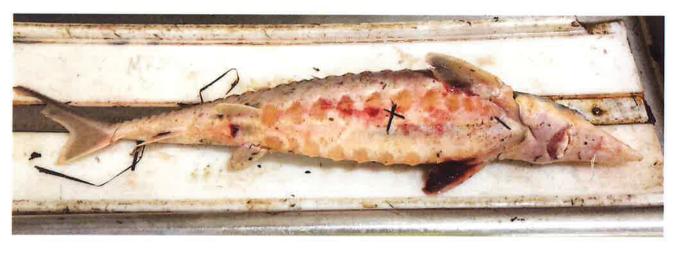


Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found. Specimen was deceased at the time of collection, and shown no evidence of damage.

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.



A dorsal view, showing the size and condition of a thirteenth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:42pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing existence of minor abrasions on the ventral aspect of the torso (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 14:30 pm

Date animal collected: 04/2/2020 Time animal collected: 14:50 pm

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

Air temp. – 13.5 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide-FL1(89.0ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%

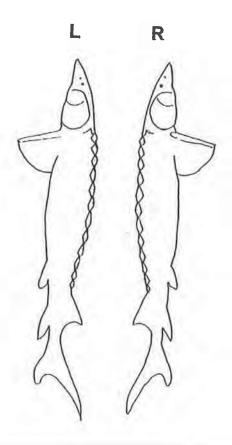
Average percent of power generating capacity achieved per unit over the 48 hours previous to

observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFO Name: First Beth Last G Agency Affiliation PSEG subcor Address 100 South Cass Stree Area code/Phone number (302)  SPECIES: (check one)	raham htractor Email Beet, Middletown, DE 378-9881 (Environm LOCATION FOU	JND: Offshore (Alater Delaware River)	nices, Inc.)	SEC 7 UNIQUE IDENTIFIE No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 20 DATE EXAMINED: Month 04 Day 2 Year 20 Deach) Seach Sta	20 20 und, inlet, etc) te <b>NJ</b>	
Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	intake during rou	utine trash rack clea	ning at the S	om Circulating Water Intake Structure (CWIS) e Salem Generating Station, PSEG Nuclear LLC de -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  TAGS PRESENT? Examined fo Tag # No tag found	Borescope	mined? nt when pressed	MEASUREMENTS: Fork length Total length Length		Circle unit 65.0 cm 74.4 cm  3.8 cm 5.6 cm 2.1 kg	
CARCASS DISPOSITION: (checonomic of the content of	ck one or more)	Carcass Necropout   ☐Yes   ☐No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENT Photos/vide taken? [ Disposition of Photos/Vide Environmental Affairs	⊠ Yes □ No	
SAMPLES COLLECTED? Yes No Sample How preserved Stored in non-d and refrigerated		natured ethanol	Held at t	ion (person, affiliation, us he office of ECSI for aggi nt to designated laborator	egated	

Comments: A fourteenth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:50. 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.



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 shown no evidence of damage.

Submit completed forms (within 24 hours of observation of fish): by e-mail to <a href="mailto:tneidentalTake@noaa.gov">tneidentalTake@noaa.gov</a> or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.



A dorsal view, showing the size and condition of a fourteenth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:50pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing no observable damage (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 14:30 pm

Date animal collected: 04/2/2020 Time animal collected: 14:52 pm

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

Air temp. – 13.5 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide-FL1(89.0ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.5 °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: 100.0% /Unit 2: 95.2%

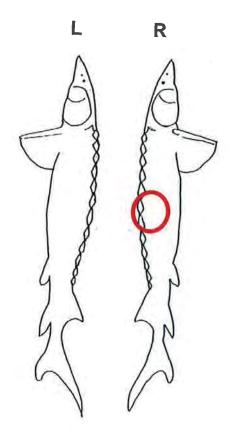
Average percent of power generating capacity achieved per unit over the 48 hours previous to

observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFORMATION Name: First Beth				Month 04 Day 2 Year 2020  If beach) ⊠Inshore (bay, river, sound, inlet, etc)		
Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	Descriptive loca intake during ro	tion (be specific) Re utine trash rack clea	moved from ning at the S	ower Alloways Creek State NJ Circulating Water Intake Structure (CWIS) alem Generating Station, PSEG Nuclear LLC75.536133° (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  TAGS PRESENT? Examined for Tag # No tag found	Borescope	mined? nt when pressed	Fork length Total leng Length Mouth wid Interorbita Weight  Yes No			
CARCASS DISPOSITION: (che 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe).	ck one or more)	Carcass Necrop  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENTATION: Photos/vide taken? Yes No Disposition of Photos/Video PSEG Nuclear Environmental Affairs		
SAMPLES COLLECTED? Yes No Sample How preserved stored in non-der and refrigerated.		natured ethanol	Held at t	ion (person, affiliation, use) he office of ECSI for aggregated at to designated laboratory.		

Comments: A fifteenth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 14:52. 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.



Large laceration observed on the across the dorsal aspect of the 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 damaged and deceased at the time of collection, and shown evidence of are large laceration across the dorsal aspect of the torso (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.



A dorsal view, showing the size and condition of a fifteenth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 14:52pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the laceration observed to the upper torso has not penetrated the ventral region. Minor abrasions were also found on the ventral region of the specimen (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 10:30 am

Date animal collected: 04/2/2020 Time animal collected: 10:45 am

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

Air temp. - 12.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- Ebb2(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.0 °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: 100.0% /Unit 2: 95.2%

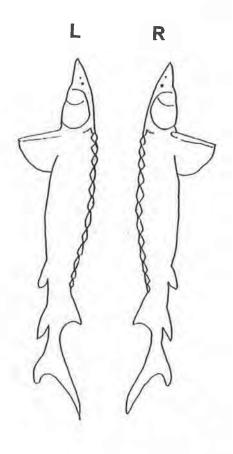
Average percent of power generating capacity achieved per unit over the 48 hours previous to

observation: Unit 1: 100.1% /Unit 2: 95.5%

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

OBSERVER'S CONTACT INFO Name: First <u>Beth</u> Last <u>G</u> Agency Affiliation <u>PSEG subcor</u> Address <u>100 South Cass Stre</u> Area code/Phone number <u>(302)</u>	raham htractor Email Book et, Middletown, DI 378-9881 (Environm	nental Consulting Serv	ices, Inc.)	SEC 7 UNIQUE IDENTIFIE No. Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 20 DATE EXAMINED: Month 04 Day 2 Year 20	020	
SPECIES: (check one)  ☐ shortnose sturgeon ☐ Atlantic sturgeon ☐ Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of W Descriptive loca intake during rou	ater Delaware Rivertion (be specific) Resultine trash rack clean	er City moved from ning at the	Sulf beach) Inshore (bay, river, sound, inlet, etc) ity Lower Alloways Creek State NJ rom Circulating Water Intake Structure (CWIS) he Salem Generating Station, PSEG Nuclear Lude -75.536133° (Dec. Degrees)		
CARCASS CONDITION at time examined: (check one)		Fork Total Fork Total Fermined?  Sent when pressed Inter		ASUREMENTS:  k length al length  gth  actual estimate  uth width (inside lips, see reverse side)  rorbital width (see reverse side)  ight actual estimate  2.4 kg		
TAGS PRESENT? Examined fo Tag # 989001007225066	r external tags inclu Tag Type	uding fin clips? 🔀	Locatio	Scanned for PIT tags? on of tag on carcass e, below dorsalfin	⊠ Yes □ No	
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:		PHOTODOCUMENT Photos/vide taken? Disposition of Photos/vide Environmental Affairs	⊠ Yes ☐ No	
SAMPLES COLLECTED? Yes No Sample How preserved stored in non-der and refrigerated.		natured ethanol	Held at	ition (person, affiliation, u the office of ECSI for agg ent to designated laborato	regated	

Comments: A sixteenth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 10:45am. 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, however an existing PIT tag was indicated, identified as #989001007225066. 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.



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 minor bruising, there was no evidence of damage.

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.



A dorsolateral view, showing the size and condition of a sixteenth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 10:45am on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A dorsal view of the specimen. Minor abrasions were found on the head and rostrum, but no severe damage was observed (04/2/2020).



A ventral view of the head showing the characteristic small mouth and elongated rostrum (04/02/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 10:30 am

Date animal collected: 04/2/2020 Time animal collected: 10:45 am

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

Air temp. - 12.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- Ebb2(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.0 °C

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

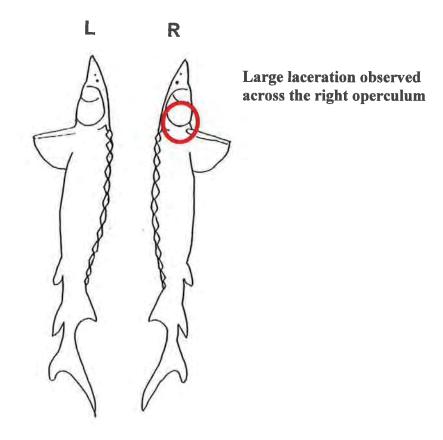
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

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

OBSERVER'S CONTACT INFO Name: First Beth Last Gr Agency Affiliation PSEG subcon Address 100 South Cass Street Area code/Phone number (302)	raham Itractor Email Be et, Middletown, DI	E 19709	n []	SEC 7 UNIQUE IDENTIFIE No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 20  DATE EXAMINED: Month 04 Day 2 Year 20	20
SPECIES: (check one) shortnose sturgeon Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of W Descriptive loca intake during ro	ater Delaware Rivertion (be specific) Resultine trash rack clean	er City L moved from ning at the S	each) Inshore (bay, river, so ower Alloways Creek Sta Circulating Water Intake Stalem Generating Station, P-75.536133° (Dec. Degrees)	te <u>NJ</u> ructure (CWIS)
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage	examined: (check one) = Fresh dead = Moderately decomposed = Severely decomposed = Dried carcass  Undetermined  Female  Male How was sex determined?  Necropsy Eggs/milt present when pres		Fork length Total length  Length actual estimate  Mouth width (inside lips, see reverse side)  Interorbital width (see reverse side)  4.7		Circle unit 73.0 cm 84.0 cm 4.7 cm 5.7 cm 2.6 kg
TAGS PRESENT? Examined fo Tag # No tag found	r external tags inclu Tag Type	uding fin clips? 🖂		Scanned for PIT tags? of tag on carcass	⊠ Yes □ No
CARCASS DISPOSITION: (checons)  1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe).	ck one or more)	Carcass Necrop  ☐Yes ☐No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENT Photos/vide taken? [ Disposition of Photos/Vid Environmental Affairs	∑ Yes ☐ No
SAMPLES COLLECTED? Yes No Sample How preserved Stored in non-del and refrigerated.		natured ethanol	Held at the	ion (person, affiliation, us he office of ECSI for aggi nt to designated laborato	regated

Comments: A seventeenth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 10:45am. 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.



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 damaged and deceased at the time of collection, and shown evidence of are large laceration across the right operculum (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.



A dorsolateral view, showing the size and condition of a seventeenth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 10:45am on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A dorsal view of the specimen. Minor abrasions were found across the torso, in addition to a large laceration on the right side, in the area of the operculum (04/2/2020).



A ventral view of the head showing a close up of the damage to the operculum (04/02/2020).



Ventral view of the head, showing the characteristic elongated rostrum and small mouth (04/02/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 10:30 am

Date animal collected: 04/2/2020 Time animal collected: 10:45 am

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

Air temp. - 12.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- Ebb2(88.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 10.0 °C

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

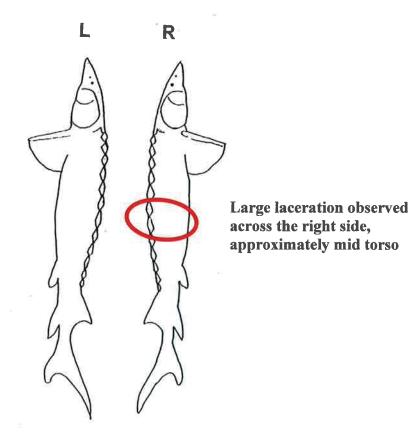
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

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

OBSERVER'S CONTACT INFO Name: First Beth Last Gr Agency Affiliation PSEG subcon Address 100 South Cass Street Area code/Phone number (302)	tractor Email Bet, Middletown, DE 378-9881 (Environm	ental Consulting Serv	n rices, Inc.)	SEC 7 UNIQUE IDENTIFIER (PCTS No.Assigned by NMFS)  DATE REPORTED:  Month 04 Day 2 Year 2020  DATE EXAMINED:  Month 04 Day 2 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.	River/Body of W Descriptive local intake during rou	ater <u>Delaware River</u> tion (be specific) Resultine trash rack clean	er City L moved from ning at the S	each) ⊠Inshore (bay, river, sound, inlet, et ower Alloways Creek State NJ Circulating Water Intake Structure (C) Salem Generating Station, PSEG Nucle -75.536133° (Dec. Degrees)	WIS)
CARCASS CONDITION at time examined: (check one)		nined?  Length \( \sum \) a  Mouth width (ii) Interorbital wid		th <u>59.5</u>	<u>:m</u>
TAGS PRESENT? Examined for Tag # No tag found	external tags inclu Tag Type	uding fin clips? 🔀 ՝		Scanned for PIT tags?	No
CARCASS DISPOSITION: (checon)  1 = Left where found  2 = Buried  3 = Collected for necropsy/salvage  4 = Frozen for later examination  5 = Other (describe).	ck one or more)	Carcass Necrop  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENTATION: Photos/vide taken? Yes Disposition of Photos/Video PSEG Nu Environmental Affairs	
SAMPLES COLLECTED? Yes No Sample How preserved stored in non-der and refrigerated.		natured ethanol	Held at t	ion (person, affiliation, use) he office of ECSI for aggregated nt to designated laboratory.	

Comments: An eighteenth, deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 10:45am. 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.



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 damaged and deceased at the time of collection, and shown evidence of are large laceration across the right torso (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.



A close up view of the sever laceration located mid-torso on the specimen (04/02/2020).



Ventral view of the head, showing the characteristic elongated rostrum and small mouth (04/02/2020).



A dorsolateral view, showing the size and condition of an eighteenth, deceased Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 10:45am on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A dorsal view of the specimen. Minor abrasions were found across the torso, in addition to a large laceration on the right side, mid-torso (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed; 04/2/2020 Time animal observed: 15:00 pm

Date animal collected: 04/2/2020 Time animal collected: 1550 pm

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

Air temp. – 14.0 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide- Ebb Slk(88.0ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 11.5 °C

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

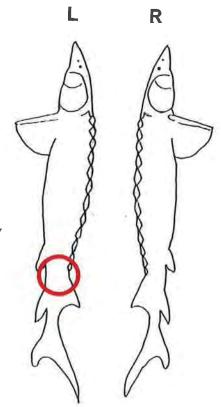
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

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

OBSERVER'S CONTACT INFO Name: First <u>Beth</u> Last <u>G</u> Agency Affiliation <u>PSEG subcor</u> Address <u>100 South Cass Stre</u> Area code/Phone number <u>(302)</u>	raham ntractor Email Bet et, Middletown, DE		m rices, Inc.)	SEC 7 UNIQUE IDENTIFIER No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 202  DATE EXAMINED: Month 04 Day 2 Year 202	20
SPECIES: (check one)  ☐ shortnose sturgeon  ☐ Atlantic sturgeon ☐ Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of Wa Descriptive location intake during rout	ater_Delaware Rive on (be specific) Re tine trash rack clea	er City L moved from ning at the S	beach) Inshore (bay, river, sou Lower Alloways Creek State Circulating Water Intake Street Calem Generating Station, PS -75.536133° (Dec. Degrees)	e <u>NJ</u> ucture (CWIS)
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage  TAGS PRESENT? Examined for Tag # No tag found	SEX:  Undetermined Female Male How was sex determ Necropsy Eggs/milt present Borescope  r external tags includ Tag Type	Fork leng Total leng Length Mouth wi Interorbit Weight		ength  th  actual estimate  width (inside lips, see reverse side)  rbital width (see reverse side)  actual estimate  3.1kg	
CARCASS DISPOSITION: (che  1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe. Specimen was condition. After processing, and a peristress, it was released back to the Dela	healthy and in excellent	Carcass Necrop  ☐Yes ☐No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENTA Photos/vide taken?  Disposition of Photos/Vide Environmental Affairs	Yes No
SAMPLES COLLECTED? No Sample Pelvic fin clip	fes No How preserved stored in non-dena and refrigerated.	atured ethanol	Held at t	ion (person, affiliation, us the office of ECSI for aggre nt to designated laborator	egated

Comments: A nineteenth, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 15:50. 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 #933000320184020. 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 15:55pm. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.



PIT tag identified just below 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 live at the time of collection, and had no obvious signs of damage. A PIT was identified, located below the dorsal fin, on the left side (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.



A dorsolateral view showing the size and condition of a nineteenth, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 15:50 pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 15:00 pm

Date animal collected: 04/2/2020 Time animal collected: 1557 pm

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

Air temp. - 14.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide-FL1(90.5ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 11.5 °C

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

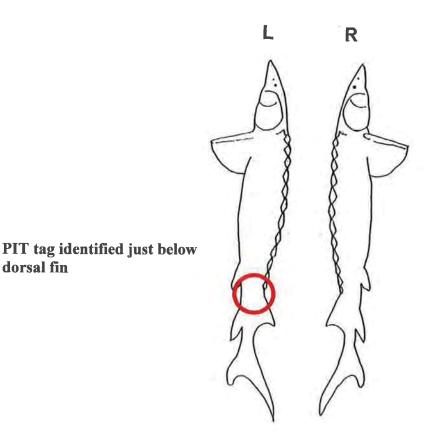
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

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

OBSERVER'S CONTACT INFO Name: First <u>Beth</u> Last <u>G</u> Agency Affiliation <u>PSEG subcor</u> Address <u>100 South Cass Street</u> Area code/Phone number <u>(302)</u>	raham Itractor Email <u>Bet</u> et, Middletown, DE	19709	m rices, Inc.)	SEC 7 UNIQUE IDENTIFIER No. Assigned by NMFS)  DATE REPORTED:  Month 04 Day 2 Year 202  DATE EXAMINED:  Month 04 Day 2 Year 2020	00
SPECIES: (check one)  shortnose sturgeon Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of Wa Descriptive location intake during rout	ter Delaware Rive on (be specific) Re ine trash rack clea	er City L moved from ning at the S	beach) Inshore (bay, river, sou Lower Alloways Creek State Circulating Water Intake Street Balem Generating Station, PS 1-75.536133° (Dec. Degrees)	e <u>NJ</u> ucture (CWIS)
CARCASS CONDITION at time examined: (check one)  ☐ 1 = Fresh dead ☐ 2 = Moderately decomposed ☐ 3 = Severely decomposed ☐ 4 = Dried carcass ☐ 5 = Skeletal, scutes & cartilage  TAGS PRESENT? Examined for external tags including #  Tag Type		Fork le Total le Lengtl t when pressed  ding fin clips? Yes N		gth  actual estimate dth (inside lips, see reverse side) al width (see reverse side) actual estimate	Circle unit 77.0cm 85.3cm  4.3cm 6.9 cm 3.4 kg  Yes No
No tag found				To tag on carcass	
CARCASS DISPOSITION: (checonomic of the control of	healthy and in excellent	Carcass Necrop  Yes ⊠No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENTA Photos/vide taken? Disposition of Photos/Vide Environmental Affairs	☑ Yes ☐ No
SAMPLES COLLECTED? Yes No Sample How preserved Stored in non-den and refrigerated.		itured ethanol	Held at	tion (person, affiliation, us the office of ECSI for aggre nt to designated laborator	egated

Comments: A twentieth, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 15:57. 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 #933000320184019. 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 16:05pm. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.



dorsal fin

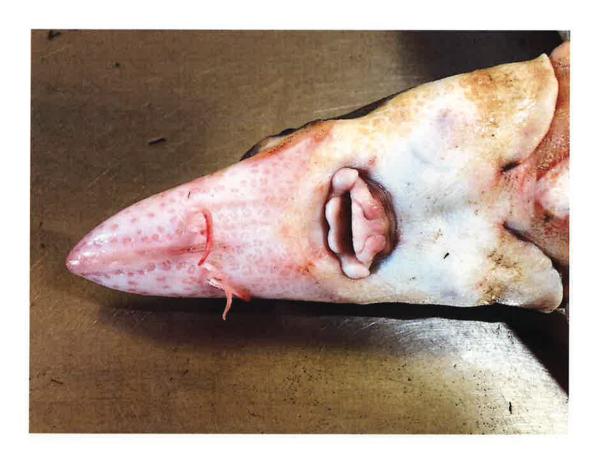
Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found. Specimen was live at the time of collection, and had no obvious signs of damage. A PIT was identified, located below the dorsal fin, on the left side (refer to diagram above).

Submit completed forms (within 24 hours of observation of fish): by e-mail to Incidental Take@neaa.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.



A ventral view showing the size and condition of a twentieth, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 15:57 pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 15:00 pm

Date animal collected: 04/2/2020 Time animal collected: 16:07 pm

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

Air temp. - 14.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- FL1(91.0 ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 11.5 °C

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

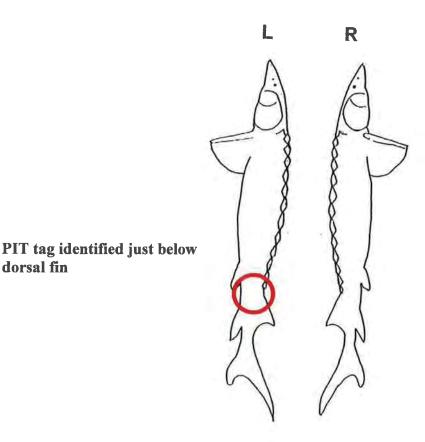
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

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

OBSERVER'S CONTACT INFO Name: First <u>Beth</u> Last <u>G</u> Agency Affiliation <u>PSEG subcor</u> Address <u>100 South Cass Stre</u> Area code/Phone number <u>(302)</u>	raham ntractor Email Bet et, Middletown, DE			SEC 7 UNIQUE IDENTIFIED No. Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 20 DATE EXAMINED: Month 04 Day 2 Year 20	020
SPECIES: (check one)  ☐ shortnose sturgeon  ☐ Atlantic sturgeon  ☐ Unidentified Acipenser species  Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of Wa Descriptive location intake during rout	ater <b>Delaware Rive</b> on (be specific) Retine trash rack clea	er City   emoved from uning at the	beach)  Inshore (bay, river, s Lower Alloways Creek St Circulating Water Intake S Salem Generating Station, 1 2 -75.536133° (Dec. Degrees	ate <u>NJ</u> Structure (CWIS) PSEG Nuclear LLC.
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage  TAGS PRESENT? Examined for Tag # 989001007251920	SEX:  Undetermined Female Male How was sex determ Necropsy Eggs/milt present Borescope  r external tags includ Tag Type	ined? t when pressed	MEASUREMENTS: Fork length Total length Length		Circle unit 71.0 cm 82.0 cm  4.3 cm 5.8 cm 2.0 kg
CARCASS DISPOSITION: (che  1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe. Specimen was condition. After processing, and a periestress, it was released back to the Dela	healthy and in excellent	Carcass Necrop  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMEN' Photos/vide taken? Disposition of Photos/vi	Yes □ No
SAMPLES COLLECTED? No Name of the Sample Pelvic fin clip	es No How preserved stored in non-dena and refrigerated.	atured ethanol	Held at	tion (person, affiliation, united the office of ECSI for agginated laborated to designated laborated to designated laborated the control of t	gregated

Comments: A twenty-first, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 16:07. 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, however a PIT was indicated, identified as #989001007251920. 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 16:10pm. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.



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 live at the time of collection, and had no obvious signs of damage, except for minor abrasions. A PIT was identified, located below the dorsal fin, on the left side (refer to diagram above).

Submit completed forms (within 24 hours of observation of fish): by e-mail to Incidental Take@nosa.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.



A ventral view showing the size and condition of a twentyfirst, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 16:07 pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed; 04/2/2020 Time animal observed; 15:00 pm

Date animal collected: 04/2/2020 Time animal collected: 16:12 pm

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

Air temp. - 14.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- FL1(91.0 ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 11.5 °C

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

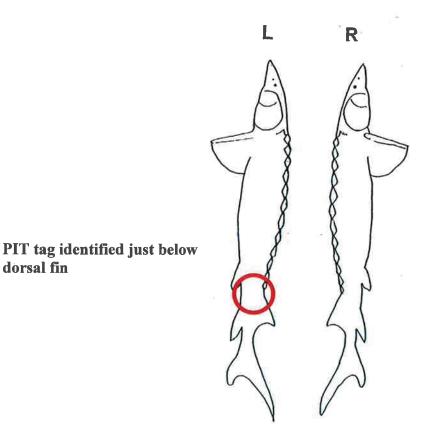
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

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

OBSERVER'S CONTACT INFO Name: First Beth Last Gi Agency Affiliation PSEG subcon Address 100 South Cass Street Area code/Phone number (302)	raham htractor Email Be et, Middletown, DE			SEC 7 UNIQUE IDENTIFIED No. Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 20 DATE EXAMINED: Month 04 Day 2 Year 20	020
SPECIES: (check one)  shortnose sturgeon  Atlantic sturgeon  Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of Wa Descriptive locati intake during rou	ater <b>Delaware Rive</b> on (be specific) Retine trash rack clean	er City moved from ning at the	f beach) Sinshore (bay, river, so Lower Alloways Creek St m Circulating Water Intake Se Salem Generating Station, le -75.536133° (Dec. Degrees)	ound, inlet, etc) ate <u>NJ</u> Structure (CWIS) PSEG Nuclear LLC.
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 determ ☐ Necropsy ☐ Eggs/milt presen ☐ Borescope		Fork length Total length Length Mouth width Interorbital w		•	Circle unit 74.0 cm 86.0 cm  4.6 cm 6.6 cm 2.7 kg
TAGS PRESENT? Examined fo Tag # 989001007251908	r external tags includ Tag Type	ding fin clips? 🛚 ՝	Locati	Scanned for PIT tags? on of tag on carcass le, below dorsalfin	⊠ Yes ☐ No
CARCASS DISPOSITION: (checond)  1 = Left where found  2 = Buried  3 = Collected for necropsy/salvage  4 = Frozen for later examination  5 = Other (describe. Specimen was condition. After processing, and a period stress, it was released back to the Delay	healthy and in excellent	Carcass Necrop  ☐Yes ☑No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMEN Photos/vide taken? Disposition of Photos/Vi Environmental Affairs	⊠ Yes ☐ No
SAMPLES COLLECTED? Yes No Sample How preserved Pelvic fin clip stored in non-denat and refrigerated.		atured ethanol	Held a	sition (person, affiliation, u t the office of ECSI for agg ent to designated laborate	gregated

Comments: A twenty-second, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/02/20, at 16:12. 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, however a PIT was indicated, identified as #989001007251920. 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 16:17pm. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.



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 live at the time of collection, and had no obvious signs of damage. A PIT was identified, located below the dorsal fin, on the left side (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.

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A ventral view showing the size and condition of a twenty-second, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 16:12 pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

04/2/2020 Time animal observed: 15:00 pm Date animal observed:

Date animal collected: Time animal collected: 16:17 pm 04/2/2020

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

Air temp. - 14.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide-FL1(91.0 ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 11.5 °C

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

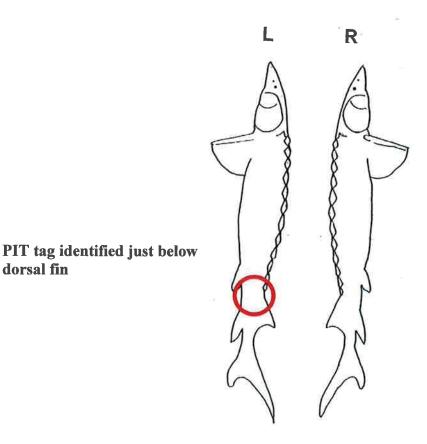
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

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

OBSERVER'S CONTACT INFO Name: First Beth Last G Agency Affiliation PSEG subcon Address 100 South Cass Street Area code/Phone number (302)	raham htractor Email_Bet et, Middletown, DE		m Cices, Inc.)	DATE REPORTED:  Month 04 Day 2 Year 2020  Month 04 Day 2 Year 2020  Month 04 Day 2 Year 2020	0
SPECIES: (check one)  ☐ shortnose sturgeon  ☐ Atlantic sturgeon  ☐ Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of Wa Descriptive location intake during rout	iter <u>Delaware Rive</u> on (be specific) <u>Re</u> tine trash rack clea	er City Le moved from onling at the Sa	each) Inshore (bay, river, sour ower Alloways Creek State Circulating Water Intake Struatem Generating Station, PS -75.536133° (Dec. Degrees)	NJ octure (CWIS)
CARCASS CONDITION at time examined: (check one)  1 = Fresh dead 2 = Moderately decomposed 3 = Severely decomposed 4 = Dried carcass 5 = Skeletal, scutes & cartilage  TAGS PRESENT? Examined fo Tag # 989001007251032	SEX:  Undetermined Female Male How was sex determ Recropsy Eggs/milt present Borescope  r external tags includ Tag Type	ined? t when pressed	Fork lengt Total leng Length Mouth wid Interorbita Weight  Yes No Location		
CARCASS DISPOSITION: (checonomic of the control of	nealthy and in excellent od of holding to reduce ware River.	Carcass Necrop  ☐ Yes ☑ No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENTA Photos/vide taken?  Disposition of Photos/Video Environmental Affairs	Yes No
Pelvic fin clip	es  No How preserved stored in non-dena and refrigerated.	atured ethanol	Held at the	on (person, affiliation, use ne office of ECSI for aggre t to designated laboratory	gated

Comments: A twenty-third, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/02/20, at 16:17. 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, however a PIT was indicated, identified as #989001007251032. 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 16:20pm. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

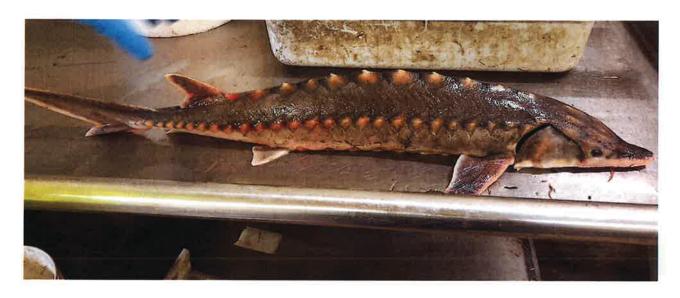


dorsal fin

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 live at the time of collection, and had no obvious signs of damage. A PIT was identified, located below the dorsal fin, on the left side (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.

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A dorsal view showing the size and condition of a twenty-third, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 16:17 pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; Circulating Water Intake

Date animal observed: 04/2/2020 Time animal observed: 15:00 pm

Date animal collected: 04/2/2020 Time animal collected: 16:20 pm

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

Air temp. - 14.0 °C; Sal. - 5.0 ppt; Wind - NW; sky - clear; Wave - rough; tide- Ebb Slk(88.0ft)

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

Date and time of last inspection of screen: 04/2/2020; at 12:01am

Water temperature (°C) at site and time of observation: 11.5 °C

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

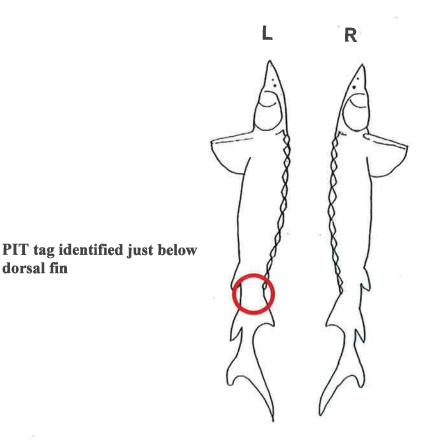
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 100.0% /Unit 2: 95.2%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

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

OBSERVER'S CONTACT INFO Name: First <u>Beth</u> Last <u>G</u> Agency Affiliation <u>PSEG subcor</u> Address <u>100 South Cass Stre</u> Area code/Phone number <u>(302)</u>	raham ntractor Email_Bet et, Middletown, DE		n ices, Inc.)	SEC 7 UNIQUE IDENTIFIED No.Assigned by NMFS)  DATE REPORTED: Month 04 Day 2 Year 202  DATE EXAMINED: Month 04 Day 2 Year 202	20
SPECIES: (check one) shortnose sturgeon Atlantic sturgeon Unidentified Acipenser species Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.	River/Body of Wa Descriptive location intake during rout	ter Delaware Rive on (be specific) Re ine trash rack clea	r City L moved from ning at the S	Deach) ⊠Inshore (bay, river, so Lower Alloways Creek State Circulating Water Intake State Calem Generating Station, Paragraphics (Dec. Degrees)	te <u>NJ</u> ructure (CWIS)
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 determ ☐ Necropsy ☐ Eggs/milt presen ☐ Borescope		Fork length Total length Length Mouth width Interorbital Weight			
TAGS PRESENT? Examined fo Tag # No tag found	r external tags includ	ling fin clips? 🖂 `		Scanned for PIT tags? n of tag on carcass	⊠ Yes
CARCASS DISPOSITION: (che 1 = Left where found 2 = Buried 3 = Collected for necropsy/salvage 4 = Frozen for later examination 5 = Other (describe. Specimen was condition. After processing, and a period stress, it was released back to the Dela	healthy and in excellent	Carcass Necrop  ☐ Yes ☑ No  Date Necropsied:  Necropsy Lead:	sied?	PHOTODOCUMENT, Photos/vide taken? [ Disposition of Photos/Vide Environmental Affairs	∑ Yes ☐ No
SAMPLES COLLECTED? No Sample Pelvic fin clip	es No How preserved stored in non-dena and refrigerated.	itured ethanol	Held at t	tion (person, affiliation, us the office of ECSI for aggr nt to designated laborator	egated

Comments: A twenty-fourth, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 16:20. 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 #933000320184005. 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 16:26pm. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.



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 live at the time of collection, and had no obvious signs of damage. A PIT was identified, located below the dorsal fin, on the left side (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.

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A dorsolateral view showing the size and condition of a twenty-fourth, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 16:20 pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).

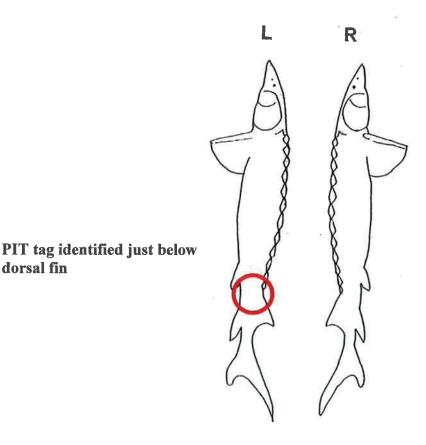
Photographs should be taken and the following information should be collected from all sturgeon (alive and dead). Please submit all necropsy results (including sex and stomach contents) to NMFS upon receipt. You must also complete and submit the "Sturgeon Data Collection Form"

Observer's full name: Beth Graham (Environmental Consulting Services, Inc. [ECSI]) Reporter's full name: Beth Graham
Species Identification: Atlantic sturgeon (Acipenser oxyrinchus)
Site of Collection: PSEG Salem Generating Station; Circulating Water Intake
Date animal observed: 04/2/2020 Time animal observed: 15:00 pm
Date animal collected: 04/2/2020 Time animal collected: 16:28 pm
Environmental conditions at time of observation (i.e., tidal stage, weather):  Air temp. – 14.0 °C; Sal. – 5.0 ppt; Wind – NW; sky – clear; Wave – rough; tide- FL2(91.5 ft)
If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 04/2/2020; at 12:01am
Water temperature (°C) at site and time of observation: 11.5 °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: 100.0% /Unit 2: 95.2%
Average percent of power generating capacity achieved per unit over the 48 hours previous to
observation: Unit 1: 100.1% /Unit 2: 95.5%

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

3 = Severely decomposed   4 = Dried carcass   Eggs/milt present when pressed   Interorbital width (inside lips, see Interorbital width (see reverse Weight   actual   esteroised   Eggs/milt present when pressed   Interorbital width (see reverse Weight   actual   esteroised   esteroised   Eggs/milt present when pressed   Interorbital width (see reverse Weight   actual   esteroised   esterois	<b>ED:</b> 2 Year 2020 E <b>D:</b> 2 Year 2020	
time examined: (check one)  □ 1 = Fresh dead □ 2 = Moderately decomposed □ 3 = Severely decomposed □ 4 = Dried carcass □ 5 = Skeletal, scutes & cartilage  TAGS PRESENT? Examined for external tags including fin clips? ☑ Yes ☑ No Scanned for Location of tag on care No tag found  CARCASS DISPOSITION: (check one or more) □ 1 = Left where found □ 2 = Buried  ☐ Undetermined □ Male How was sex determined? □ Necropsy □ Eggs/milt present when pressed □ Borescope ☐ How was sex determined? □ Necropsy □ Eggs/milt present when pressed □ Rotal Interorbital width (inside lips, see Interorbital width (see reversive Weight ☑ actual ☑ extends on care No tag found ☐ Carcass Necropsied? □ Yes ☑ No Photos/vi	Creek State NJ er Intake Structure (CWIS) g Station, PSEG Nuclear LLC.	
CARCASS DISPOSITION: (check one or more)  1 = Left where found 2 = Buried  PHOTOD Photos/vi	length 82.0cm length 92.4cm    th	
	OCUMENTATION: le taken? ⊠ Yes □ No of Photos/Video PSEG Nuclear otal Affairs	
SAMPLES COLLECTED? Yes No Sample How preserved pelvic fin clip stored in non-denatured ethanol and refrigerated.  Disposition (person, a Held at the office of EC shipment to designate shipment to de	SI for aggregated	

Comments: A twenty-fifth, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/2/20, at 16:28. 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 #933000320184010. 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 16:32pm. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.



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 live at the time of collection, and had no obvious signs of damage. A PIT was identified, located below the dorsal fin, on the left side (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.

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A dorsolateral view showing the size and condition of a twenty-fifth, live Atlantic sturgeon (Acipenser oxyrinchus), retrieved at approximately 16:28 pm on 04/2/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/2/2020).



A ventral view of the specimen, showing the characteristic elongated rostrum and small mouth (04/2/2020).