



**PSEG**

*Nuclear LLC*

EPP 5.4.2 Appendix B

LR-E14-0032

**FEB 20 2014**

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
ARTICLE NUMBER: 7011 3500 0000 5084 9841

**SUBJECT: REPORT OF IMPINGEMENT OF ATLANTIC STURGEON  
SALEM GENERATING STATION  
DOCKET NO. 50-272**

The Nuclear Environmental Event Report, "Report of Impingement of Atlantic Sturgeon" is being submitted pursuant to the requirements of Section 5.4.2 of Appendix B, Environmental Protection Plan, to the Operating License for the Salem Generating Station, PSEG Nuclear LLC (PSEG).

Please find enclosed a letter and 2 attachments with further information regarding this impingement event. This report reflects two Atlantic Sturgeon observed and released alive on January 27<sup>th</sup>, 2014.

If you have any questions or require additional information, please do not hesitate to contact Kenneth Strait, Manager – Biological Programs at (856) 339-3929.

Sincerely,

Lawrence M. Wagner  
Plant Manager - Salem  
PSEG Nuclear LLC

Attachments (2)

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## **REPORT OF IMPINGEMENT OF ATLANTIC STURGEON**

In accordance with Section 5.4.2 of Appendix B, Environmental Protection Plan, to the Operating License for the Salem Generating Station, PSEG Nuclear LLC (PSEG) hereby transmits notification of a nonroutine event, and documents the occurrence and removal of an Atlantic sturgeon (*Acipenser oxyrinchus*) from the Salem Generating Station circulating water intake structure trash bars.

Consultation pursuant to Section 7 of the Endangered Species Act of 1973 (ESA) between NRC and the National Marine Fisheries Service (NMFS) on the effects of the operation of Salem Station on threatened and endangered species has been ongoing since 1979. The most recent revision to the Biological Opinion and Incidental Take Statement issued in January 1999 exempts the specified annual take of shortnose sturgeon and sea turtles. In advance of relicensing for Salem Station, consultation pursuant to Section 7 of the ESA between NRC and NMFS was reinitiated in 2009. On April 6, 2012, the NMFS listed five Distinct Population Segments of Atlantic sturgeon as threatened or endangered under the ESA. In May 2012, NRC requested consultation on the effects of the continued operation of Salem Station on Atlantic sturgeon. The NMFS issued a draft Biological Opinion and Incidental Take Statement (ITS) in July 2012 that, when finalized, will authorize a specified incidental take of both Atlantic sturgeon and shortnose sturgeon associated with operation of the Salem Station circulating water intake system.

Pursuant to Section 5.4.2 of the Environmental Protection Plan for Salem Station, nonroutine events which require reporting to other federal agencies shall be reported in accordance with the other agencies' reporting requirements. Accordingly, enclosed please find two (2) attachments. Attachment 1 provides the information requested by the NMFS in Appendix II to the current ITS and in Appendix B, Part 2, to the revised draft ITS. Attachment 2 is a copy of a Sturgeon Salvage Form verbally requested by the NMFS.

There are no commitments contained in this letter.

LR-E14-0032  
Document Control Desk

cc: Mr. William Dean, Administrator - Region I  
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bc: Salem Site Vice President  
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Records Management

## ATTACHMENT 1 (Sturgeon)

Observer's full name: Tanya Timberman  
 Reporter's full name: Tanya Timberman

Species Identification (Key attached): Atlantic Sturgeon (Acipenser oxyrinchus)

Site of Impingement (Unit 1 or 2, CWS or DWS, Bay #, etc.): SGS Unit 2; CWI I22A

Date animal observed: 01/27/2014 Time animal observed: 09:14am  
 Date animal collected: 01/27/2014 Time animal collected: 09:14am  
 Date rehab facility contacted: \_\_\_\_\_ Time rehab facility contacted: \_\_\_\_\_  
 Date animal picked up: \_\_\_\_\_ Time animal picked up: \_\_\_\_\_

Environmental conditions at time of observation (i.e., tidal stage, weather):  
Air temp. - (-4.7°C); Wind - NW; Sky - partly cloudy; Tide - Ebb1(91.5ft.); Sal. - between 8 and 10ppt

Date and time of last inspection of screen: 01/27/2014 at 02:03am  
 Water temperature (°C) at site and time of observation: 0.2°C

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

Average percent of power generating capacity achieved per unit at time of observation:

Unit 1 100 Unit 2 100

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

Unit 1 100 Unit 2 100

**Sturgeon Information:**

Species Atlantic Sturgeon (Acipenser oxyrinchus)

Fork length (or total length) 647.7mm (TL) Weight Not measured

**Condition of specimen/description of animal**

Live specimen retrieved by Salem Yard Crew during routine trash rack cleaning at Salem CWIB. Data collection was completed by PSEG Nuclear Environmental Affairs personnel. Specimen was not damaged, and no tags were indicated. After processing, specimen was released back to the River via the DDP at 09:37am.

Fish Decomposed:  NO SLIGHTLY MODERATELY SEVERELY

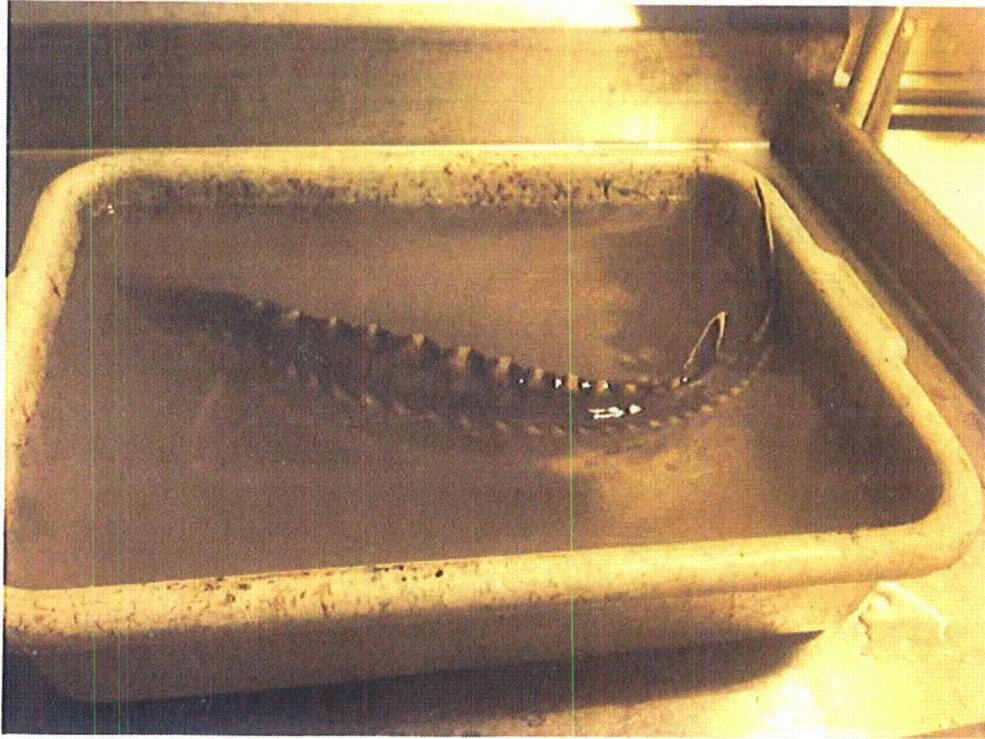
Fish tagged: YES /  NO Please record all tag numbers. Tag # \_\_\_\_\_

Photograph attached:  YES / NO

(please label species, date, geographic site and vessel name on back of photograph)

**ATTACHMENT 1 (Sturgeon) continued**

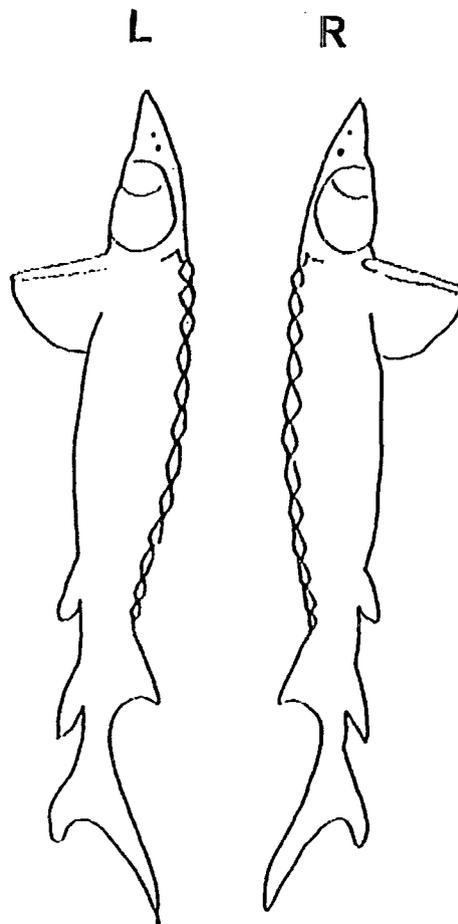
**Photographs**



View showing size and condition of the live Atlantic Sturgeon (*Acipenser oxyrinchus*), collected on 01/27/14, at 09:14, by Salem Yard Crew personnel during routine trash rack cleaning at the Salem CWIB. No damage was observed to the specimen, and after processing it was released back to the Delaware River (01/27/14).

**ATTACHMENT 1 (Sturgeon) continued**

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



**Description of fish condition:**

Specimen was alive at the time of the initial observation and collection by Salem Yard Crew. PSEG Environmental Affairs personnel conducted the required processing and checked for exterior tags and PIT tags, but none were found. No damage to the specimen was observed. After processing, specimen was released back to the Delaware River via the DDP at 09:37am. National Marine Fisheries was notified at 09:52am and NJDEP was notified at 09:54am.

## ATTACHMENT 1 (Sturgeon)

Observer's full name: Tanya Timberman  
 Reporter's full name: Tanya Timberman

Species Identification (Key attached): Atlantic Sturgeon (Acipenser oxyrinchus)

Site of Impingement (Unit 1 or 2, CWS or DWS, Bay #, etc.): SGS Unit 1; CWI I12A

Date animal observed: 01/27/2014 Time animal observed: 10:33am  
 Date animal collected: 01/27/2014 Time animal collected: 10:33am  
 Date rehab facility contacted: \_\_\_\_\_ Time rehab facility contacted: \_\_\_\_\_  
 Date animal picked up: \_\_\_\_\_ Time animal picked up: \_\_\_\_\_

Environmental conditions at time of observation (i.e., tidal stage, weather):  
Air temp. - (-4.7°C); Wind - NW; Sky - partly cloudy; Tide - Ebb2(90.0ft.); Sal. - between 8 and 10ppt

Date and time of last inspection of screen: 01/27/2014 at 09:16am  
 Water temperature (°C) at site and time of observation: 0.2°C

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

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

Average percent of power generating capacity achieved per unit over the 48 hours previous to  
 observation: Unit 1 100 Unit 2 100

**Sturgeon Information:**

Species Atlantic Sturgeon (Acipenser oxyrinchus)

Fork length (or total length) 660.4mm (TL) Weight Not measured

**Condition of specimen/description of animal**

Live specimen retrieved by Salem Yard Crew during routine trash rack cleaning at Salem CWIB. Data collection was completed by PSEG Nuclear Environmental Affairs personnel. A minor flesh wound was observed to the right side of the body. No external tags were observed and no PIT tags were indicated. After processing, specimen was released back to the River via the DDP at 10:50am.

Fish Decomposed:  NO SLIGHTLY MODERATELY SEVERELY

Fish tagged: YES /  NO Please record all tag numbers. Tag # \_\_\_\_\_

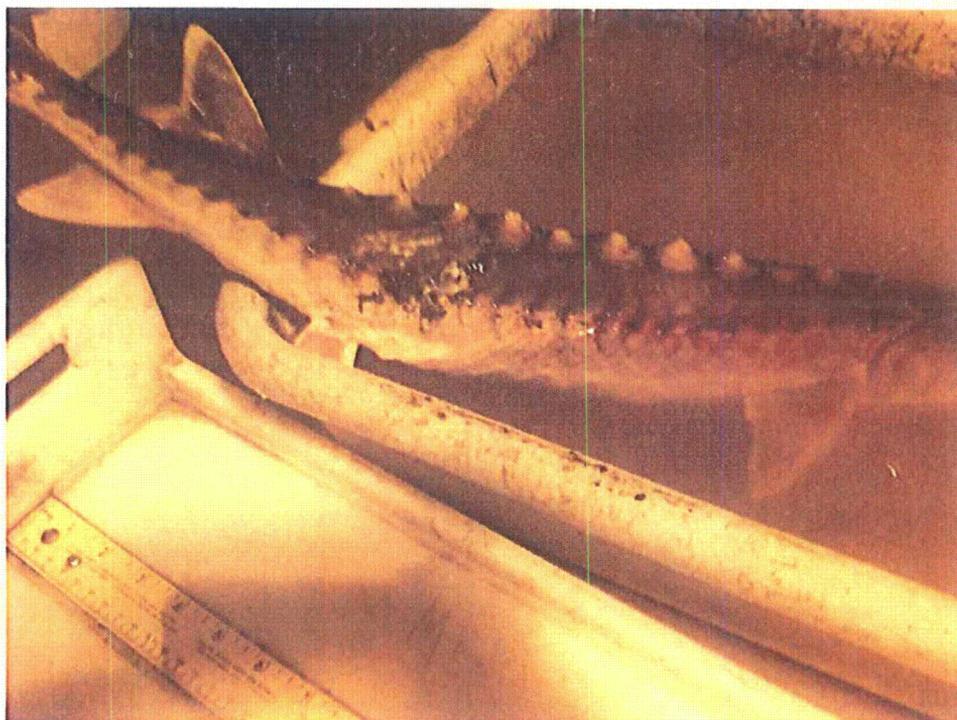
Photograph attached:  YES / NO

(please label species, date, geographic site and vessel name on back of photograph)

Photographs



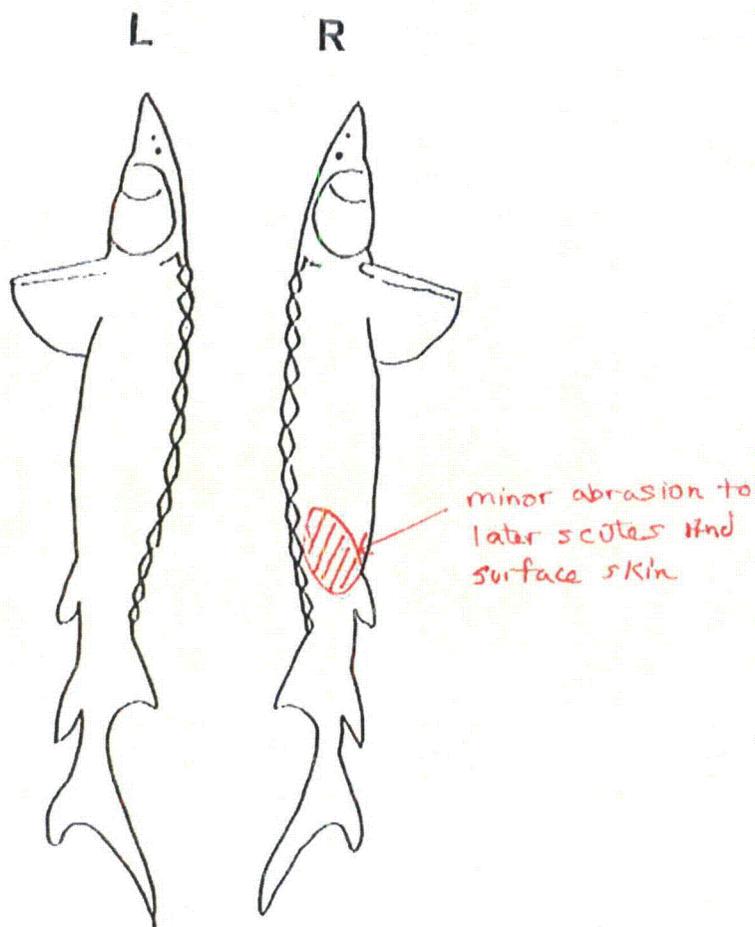
View showing size and condition of the live Atlantic Sturgeon (*Acipenser oxyrinchus*), collected on 01/27/14, at 10:33am, by Salem Yard Crew personnel during routine trash rack cleaning at the Salem CWIB (01/27/14).



View showing the slight damage to the specimen, observed at the time of collection, located along the lateral scutes on the right side of the torso between the dorsal scutes and the pelvic fin (01/27/14). Specimen was released back to the Delaware River after processing.

ATTACHMENT 1 (Sturgeon) continued

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



Description of fish condition:

Specimen was alive at the time of collection by Salem Yard Crew. PSEG Environmental Affairs personnel conducted the required processing and checked for exterior tags and PIT tags, but none were found. Slight damage to the lateral scutes on the right side of the torso, between the dorsal scutes and the pelvic fin was observed. After processing, specimen was released back to the Delaware River via the DDP at 10:50am. National Marine Fisheries was notified at 11:09am and NJDEP was notified at 11:08am.