

MAR 06 2013



LR-E13-0026

EPP 5.4.2 Appendix B

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
ARTICLE NUMBER: 7012 1640 0000 4257 4241

SUBJECT: **REPORT OF IMPINGEMENT OF ATLANTIC STURGEON
SALEM GENERATING STATION UNIT NO. 1
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 two attachments with further information regarding this impingement event.

If you have any questions or require additional information, please do not hesitate to contact Jeffrey Pantazes, Manager – Nuclear Environmental Affairs at (856) 339-7900.

Sincerely,

A handwritten signature in black ink, appearing to read "L M Wagner".

Lawrence M. Wagner
Plant Manager - Salem
PSEG Nuclear LLC

Attachments (2)

IE23
NRR

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.

cc: Mr. William Dean, Administrator - Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. R. Ennis, Licensing Project Manager - Salem
U. S. Nuclear Regulatory Commission
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11555 Rockville Pike
Mail Stop 0-4D-3
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USNRC Senior Resident Inspector - Salem
Mail Code X24

Mr. P. Mulligan, Manager
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New Jersey Department of Environmental Protection
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Ms. Lynn Lankshear
National Marine Fisheries Service
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Mr. Michael Ludwig
National Marine Fisheries Service
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Mr. Dave Jenkins
Endangered and Nongame Species Program
New Jersey Department of Environmental Protection
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Salem Commitment Coordinator
Mail Code X25

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Document Control Desk

bc: Salem Site Vice President
Salem Plant Manager
Director – Regulatory Affairs
Manager – Nuclear Environmental Affairs
Regulatory Assurance Manager – Salem
Records Management

STURGEON SALVAGE FORM

For use in documenting dead sturgeon in the wild under ESA permit no. 1614 (version 07-20-2009)

INVESTIGATORS'S CONTACT INFORMATION

Name: First **Matthew** Last **Parris**
 Agency Affiliation **Environmental Consulting Services, Inc. (ECSI)**
 Email **Matthew.Parris@pseg.com**
 Address **P.O. Box 236 M/C H18 Hancocks Bridge NJ, 08038**
 Area code/Phone number **(302) 378-9881 ext. 205**

UNIQUE IDENTIFIER (Assigned by NMFS)
 Abr090012011NJ

DATE REPORTED:
 Month **02** Day **11** Year **2013**
 DATE EXAMINED:
 Month **02** Day **11** Year **2013**

SPECIES: (check one)

- shortnose sturgeon
 Atlantic sturgeon
 Unidentified *Acipenser* species
 Check "Unidentified" if uncertain.
 See reverse side of this form for aid in identification.

LOCATION FOUND:

Offshore (Atlantic or Gulf beach) Inshore (bay, river, sound, inlet, etc)
 River/Body of Water **Delaware River** City **Hancocks Bridge** State **NJ**
 Descriptive location (be specific) **Removed from Circulating Water Intake Structure (CWIS) Intake trash racks during routine trash rack cleaning at the Salem Generating Station, PSEG Nuclear LLC.**
 Latitude **39° 27'38.17** N (Dec. Degrees) Longitude **75° 32'10.08** W (Dec. Degrees)

CARCASS CONDITION at time examined: (check one)

- 1 = Fresh dead
 2 = Moderately decomposed
 3 = Severely decomposed
 4 = Dried carcass
 5 = Skeletal, scutes & cartilage

SEX:

- Undetermined
 Female Male
 How was sex determined?
 Necropsy
 Eggs/milt present when pressed
 Borescope

MEASUREMENTS:

	Circle unit
Fork length	<u>542</u> mm
Total length	<u>643</u> mm
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>not measured</u> cm / in
Interorbital width (see reverse side)	<u>not measured</u> cm / in
Weight <input type="checkbox"/> actual <input type="checkbox"/> estimate	<u>not weighed</u> kg

TAGS PRESENT? Examined for external tags including fin clips? Yes No Scanned for PIT tags? Yes No

Tag #	Tag Type	Location of tag on carcass
_____	_____	_____
_____	_____	_____

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 collected alive, released back to the Delaware River at an off-site location, upstream of the SGS Circulating Water Intake Structure**

Carcass Necropsied?

Yes No
 Date Necropsied: _____
 Necropsy Lead: _____

PHOTODOCUMENTATION:

Photos/video taken? Yes No
 Disposition of Photos/Video: **Attached**

SAMPLES COLLECTED? Yes No

Sample	How preserved	Disposition (person, affiliation, use)

Comments: The live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure, during routine trash rack cleaning, at 13:20 on February 11, 2013. Photos, length measurements, and an inspection for external tags was made. No external tags were found. The fish was released back to the Delaware River at 15:00.

ATTACHMENT 1 (Sturgeon)

Observer's full name: Matthew Parris
Reporter's full name: Matthew Parris

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

Site of Impingement (Unit 1 or 2, CWS or DWS, Bay #, etc.): CWIS Bay 22B

Date animal observed: 2/11/13 Time animal observed: 13:20
Date animal collected: 2/11/13 Time animal collected: 13:20
Date rehab facility contacted: N/A Time rehab facility contacted: N/A
Date animal picked up: N/A Time animal picked up: N/A

Environmental conditions at time of observation (i.e., tidal stage, weather):
Ebb Stage 1 (92.5 ft)

Date and time of last inspection of screen: 2/8/13 @ 08:30
Water temperature (°C) at site and time of observation: 3 degrees Celsius

Number of pumps operating at time of observation: Unit 1 5 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

Fork length (or total length) 542 mm (fork length) Weight not weighed

Condition of specimen/description of animal

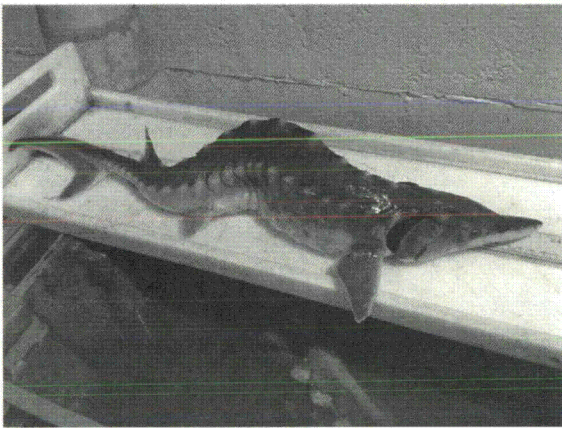
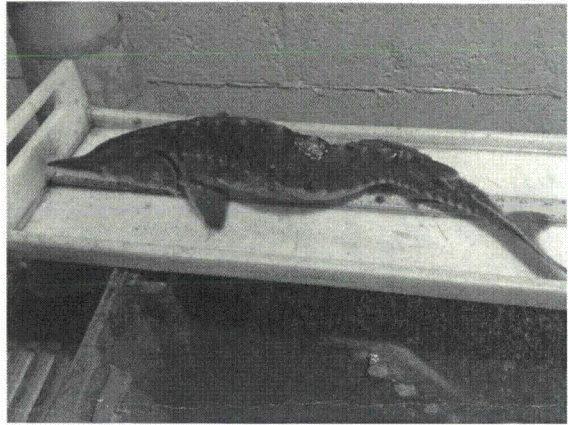
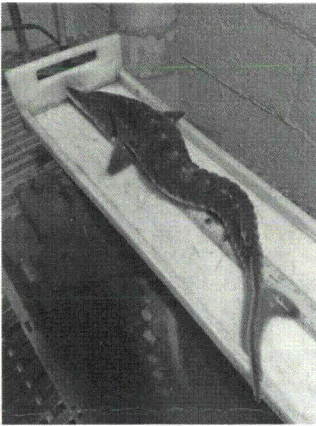
The Atlantic sturgeon was recovered alive from the Salem Circulating Water Intake Structure, during routine trash rack cleaning. The sturgeon was observed to have minor abrasions to its mid-dorsal region. These injuries were not recent and were therefore determined not to be the result of an interaction with the site.

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)

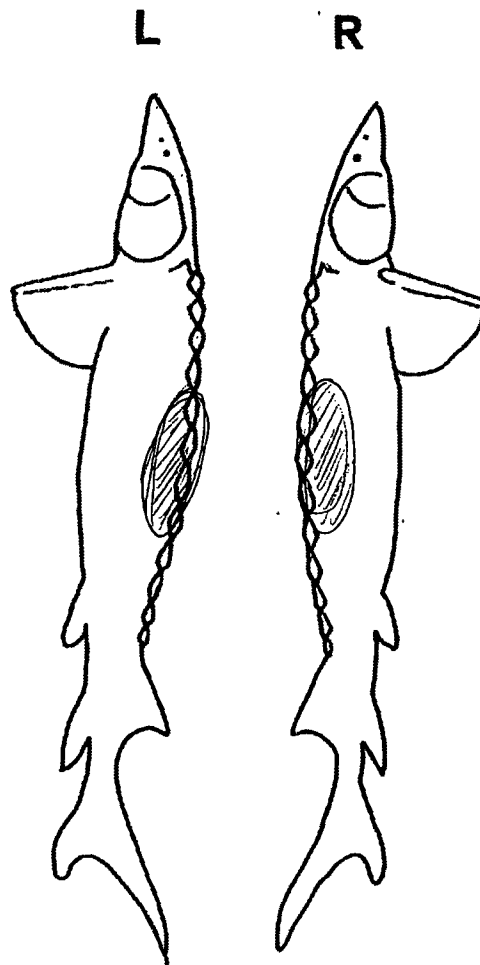
ATTACHMENT 1 (Sturgeon) continued

Photographs (if available)



ATTACHMENT 1 (Sturgeon) continued

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



Description of fish condition:

The Atlantic sturgeon was alive when found. Minor abrasions were observed to the mid-dorsal region of the specimen. Based on the physical appearance of the wounds it was determined that they were not recent injuries and as such did not occur due to an interaction with the site.