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Sent: Wednesday, July 22, 2020 1:31 PM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: jeanette.bowers@dep.nj.gov
Subject: [External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKES
Attachments: Sea Turtle Incidental Take Report 7-21-20.pdf; Sturgeon Incidental Take Report for 07-21-2020.pdf

Attached are the Incidental Take Reports and Data Collection Form for a Kemp's Ridley sea turtle and an Atlantic sturgeon collected on 07/21/2020 at the Salem Generating Station cooling water intake. Both specimens were deceased and exhibiting some decomposition at time of collection. This incidental take is authorized under Biological Opinion NER-2010-6581.

Please let me know if you have any questions or need additional information. Thanks.

Ken

Kenneth A. Strait

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MESSAGE	1476	7/22/2020 1:30:56 PM
Sea Turtle Incidental Take Report 7-21-20.pdf		305159
Sturgeon Incidental Take Report for 07-21-2020.pdf		357153

Options

Priority: Normal

Return Notification: Yes

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Incident Report Sea Turtle Take – PSEG Salem Generating Station

Photographs should be taken and the following information should be collected from all turtles and sturgeon (alive and dead) found in association with Salem. Please submit all turtle necropsy results (including sex and stomach contents) to NMFS upon receipt.

Observer's full name: Douglas Potts (ECSI)

Reporter's full name: Douglas Potts (ECSI)

Species Identification (Key attached): Kemp's ridley (*Lepidochelys kempii*)

Site of Impingement (Unit 1 or 2, CWS or DWS, Bay #, etc.): CWIS, Unit 1, 11A intake bay

Date animal observed: 7-21-20

Time animal observed: 09:05 a.m.

Date animal collected: 7-21-20

Time animal collected: 09:05 a.m.

Date rehab facility contacted: 07-21-20 Time rehab facility contacted: 12:45p.m.

Date animal picked up/ delivered to facility: NA Time animal picked up/delivered to facility: NA

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

Salinity: 12.0ppt

Sky condition: clear

Tide: Flood 2

Air temp. 31.0°C

Wave height: calm

Wind - NE

Date and time of last inspection of screen: 7/21/20 @ 08:23am

Water temperature (°C) at site and time of observation: 26.0°C

Number of pumps operating at time of observation: 12 Circulators in operation

Average percent of power generating capacity achieved per unit at time of observation: Unit 1-99.9 % / Unit 2-99.4%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1-100.2 % / Unit 2-99.5%

Sea Turtle Information: (please designate cm/m or inches)

Fate of animal (circle one): dead alive

Condition of animal (include comments on injuries, whether the turtle is healthy or emaciated, general behavior while at Salem. At approximately 09:05 a.m., during routine trash rack cleaning, Salem Yard Crew personnel observed a deceased Kemp's ridley sea turtle in the intake trash basket. Salem Unit Control and PSEG Nuclear Environmental Affairs personnel were immediately notified. After contacting PSEG Nuclear Environmental Affairs (NEA) personnel, Environmental Consulting Services Inc. (ECSI) personnel arrived on-site to verify species identification and began processing of the specimen. At 12:45pm, an additional phone call was made to the NJ Marine Mammal Stranding Center (MMSC) to determine if they would like to take possession of the specimen. Based on the specimen's poor condition, MMSC declined to take possession, and directed that the specimen be disposed of after completion of the required processing.

Carapace length - Curved: 21.6 cm Straight: 20.5 cm

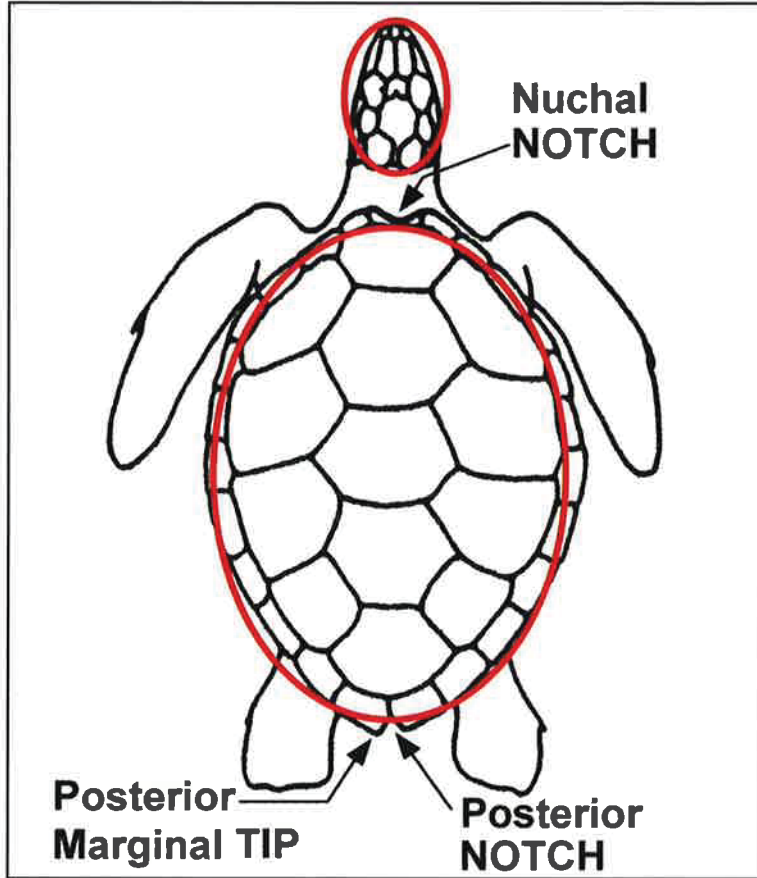
Carapace width - Curved: 23.0 cm Straight: 19.0 cm

Existing tags?: YES / NO Please record all tag numbers. Tag # _____

Photograph attached: YES / NO

APPENDIX B, continued (Incident Report of Sea Turtle Take)

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



Description of animal:

At the time of observation and collection at 09:05am, the specimen was deceased, and in a state of early decomposition, indicated by foul odor and fluids draining from the mouth and eyes. The thin brown covering on the carapace scutes were also coming off, exposing the base layer (refer to illustration). There was no evidence of external injury to indicate a cause of death. Based on the poor condition of the specimen, it appears that death occurred at a much earlier date. No external tags were observed and no internal PIT tags or wire coded tags were identified.

All information should be sent to the following address:

National Marine Fisheries Service, Northeast Region
Protected Resources Division
Attention: Section 7 Coordinator
55 Great Republic Drive
Gloucester, MA 01930
Phone: (978) 281-9328
FAX: (978) 281-9394

**Salem SGS Incidental Take Report - Sea Turtle
Photos**



Dorsal view of the deceased Kemp's ridley sea turtle as it appeared after retrieval from Salem CWIS intake trash basket by Salem Yard crew personnel, during routine trash rack cleaning on the morning of (07-21-2020).

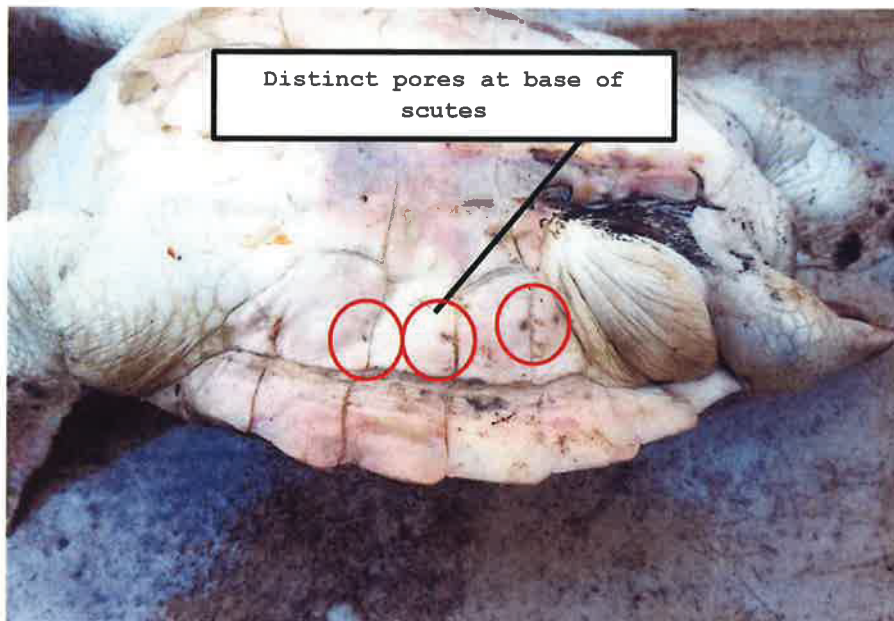


Ventral view of the turtle showing the condition of the plastron. Except for early effects of decomposition, no obvious injuries were observed that would indicate a cause of death. There was no indication of tags, either internal or external (07-21-2020).

**Incidental Report Sea Turtle Take –Salem
Photos**



Dorsolateral view of the head. Fluids were observed to be draining from the right eye and from the mouth (07-21-2020).



A close-up view of the plastron. Distinct characteristics of the species, which helped with taxonomic verification, included the almost circular carapace shape, five pairs of costal scutes on the carapace, and observation of 4-5 existing pores on the inframarginal scutes on the plastron (identified by the red circles in the photo) (07-21-2020).

Appendix C, Part 2A (Sturgeon)

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

Observer's full name: Doug Potts (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Doug Potts

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1 trash basket

Date animal observed: 07/21/2020 Time animal observed: 12:50 pm

Date animal collected: 07/21/2020 Time animal collected: 12:50 pm

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

Air temp. – 33.0 °C; Sal. – 7.0 ppt; Wind – NE; sky – clear; Wave – calm; tide- Ebb 1.

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

Date and time of last inspection of screen: 07/21/2020; 08:23 am

Water temperature (°C) at site and time of observation: 26.0 °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: 99.9% /Unit 2: 99.4%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.2% /Unit 2: 99.5%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Doug Last Potts
 Agency Affiliation PSEG subcontractor Email DPotts@ecsi-del.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 07 Day 21 Year 2020
 DATE EXAMINED:
 Month 07 Day 21 Year 2020

SPECIES: (check one)

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

LOCATION FOUND: Offshore (Atlantic or Gulf beach) Inshore (bay, river, sound, inlet, etc)
 River/Body of Water Delaware River City Lower Alloways Creek State NJ
 Descriptive location (be specific) Removed from Circulating Water Intake Structure (CWIS) intake trash collection basket, during routine trash rack cleaning at the Salem Generating Station, PSEG Nuclear LLC.

Latitude 39.460603° (Dec. Degrees) Longitude -75.536133° (Dec. Degrees)

CARCASS CONDITION at time examined: (check one)

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

SEX:

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

MEASUREMENTS:

	Circle unit
Fork length	<u>60.9 cm</u>
Total length	<u>69.9 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>1.6 cm</u>
Interorbital width (see reverse side)	<u>4.4 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>1.1 kg</u>

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

Tag #	Tag Type	Location of tag on carcass
No Tags found		
_____	_____	_____
_____	_____	_____

CARCASS DISPOSITION: (check one or more)

- 1 = Left where found
 2 = Buried
 3 = Collected for necropsy/salvage
 4 = Frozen for later examination
 5 = Other (describe).

Carcass Necropsied?

Yes No
 Date Necropsied: _____
 Necropsy Lead: _____

PHOTODOCUMENTATION:

Photos/video taken? Yes No
 Disposition of Photos/Video PSEG Nuclear Environmental Affairs

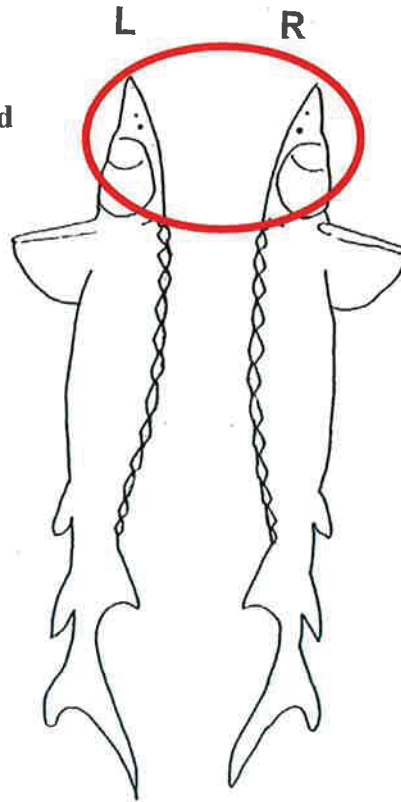
SAMPLES COLLECTED? Yes No

Sample	How preserved	Disposition (person, affiliation, use)
Pelvic fin clip	stored in non-denatured ethanol and refrigerated.	Held at the office of ECSI for aggregated shipment to designated laboratory.
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Comments: A deceased, and moderately damaged Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 07/21/20, at 12:50pm. After positive identification was made by Environmental Consulting Services personnel, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was placed on ice and prepared for transport back to the ECSI main office, where it will be stored under refrigeration, awaiting direction on further disposition. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

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

Damage to the rostrum and front portion of the skull



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 and was found to have moderate damage to the rostrum and front portion of the skull at the time of collection.**

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

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

Photographs



A dorsolateral view showing the size and condition of a deceased and moderately damaged Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 12:50pm on 07/21/2020 from the Unit 1 intake trash basket by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (07/21/2020).

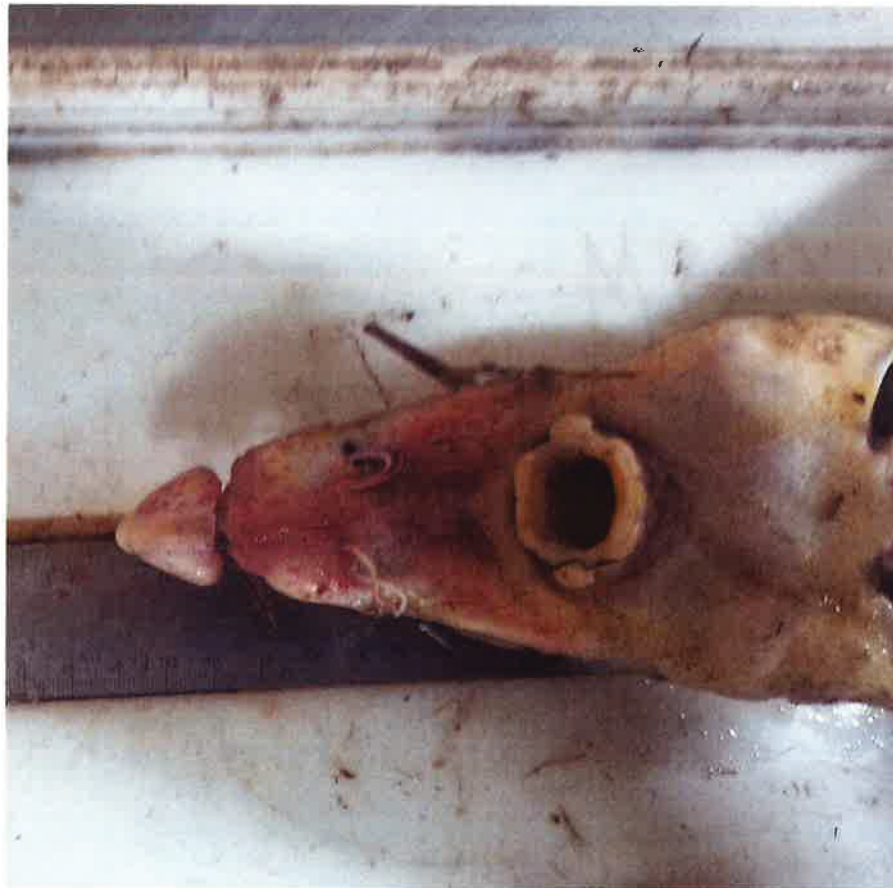


A dorsal view showing the overall condition of the specimen at the time of collection. Except for a large laceration to the front portion of the skull and a laceration to the rostrum, no other damage was observed (07/21/2020).

Photographs



A dorsolateral view of the left side of the head, showing the damage to the front portion of the skull and to the rostrum (07/21/2020).



A ventral view of the head, showing the characteristic small mouth, as well as the existing damage to the rostrum (07/21/2020).