

50 CFR 402.14(i)(3)

December 23, 2008

RA-08-088

National Marine Fisheries Service Northeast Region  
Protected Resources Division  
One Blackburn Drive  
Gloucester, MA 01930  
Attention: Pasquale Scida

Oyster Creek Nuclear Generating Station  
Facility Operating License No. DPR-16  
NRC Docket No. 50-219

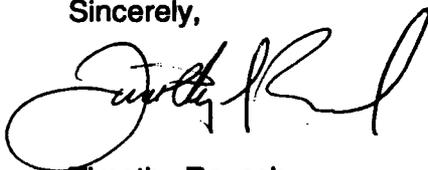
Subject: ANNUAL SEA TURTLE INCIDENTAL TAKE REPORT – 2008

Dear Mr. Scida:

Enclosed is a copy of the 2008 Annual Sea Turtle Incidental Take Report for the Oyster Creek Nuclear Generating Station. The report is submitted in accordance with Terms and Conditions No. 8 of the Incidental Take Statement of the 2006 Endangered Species Act Section 7 Consultation Biological Opinion.

If you have any questions concerning this submittal, please contact Malcolm Browne, Environmental Scientist, at (609) 971-4124.

Sincerely,



Timothy Rausch  
Vice President  
Oyster Creek Nuclear Generating Station

Enclosure

cc: NRC Document Control Desk  
Administrator, Region I  
NRC Project Manager  
Senior Resident Inspector

IE23  
NRR

**Enclosure to RA-08-088**

**Annual Report of Sea Turtle Incidental Takes - 2008**

**Oyster Creek Nuclear Generating Station**

**License No. DPR-16**

**Docket No. 50-219**

**Prepared by:**

**Malcolm Browne, Senior Environmental Scientist  
Calvin Taylor, Senior Licensing Engineer**

**Exelon Corporation**

**December 2008**

## Introduction

The Annual Report of Sea Turtle Incidental Takes provides a summary of the incidental takes of all species of sea turtles at the Oyster Creek Nuclear Generating Station (OCNGS) during the past year. The report is required by Terms and Conditions (T&C) # 8 of the Incidental Take Statement of the OCNGS Endangered Species Act Section 7 Consultation Biological Opinion. This report covers all incidental takes and sightings of sea turtles that occurred during 2008.

Incidental Take Reports documenting the circumstances of incidental takes of sea turtles were completed following six OCNGS juvenile Kemp's ridley sea turtle incidental takes during 2008 and were provided to the National Marine Fisheries Service (NMFS) and United States Nuclear Regulatory Commission (USNRC) within 30 days of each incidental take. Sea Turtle Incidental Take Reports 2008-1 through 2008-6 are summarized below and the full reports are included in Attachment 1. Photographs of the six turtles were previously supplied with the individual reports and therefore are not included in this report. Listed along with the incidental takes below is one sighting of a sea turtle on July 30, 2008, that was possibly later incidentally taken on July 31, 2008.

<u>Take</u>	<u>Date / Time (condition and species)</u>
2008-1	Friday, June 27, 2008 / 0220 (Live juvenile Kemp's ridley)
2008-2	Monday, July 7, 2008 / 0131 (Live juvenile Kemp's ridley)
2008-3	Sunday, July 27, 2008 / 0101 (Live juvenile Kemp's ridley)
2008-4	Sunday, July 27, 2008 / 0119 (Live juvenile Kemp's ridley)
<i>Sighting</i>	<i>Wednesday, July 30, 2008 / 1025 (Live sea turtle, species undetermined)</i>
2008-5	Thursday, July 31, 2008 / 1652 (Live juvenile Kemp's ridley)
2008-6	Friday, September 12, 2008 / 2112 (Partially decomposed juvenile Kemp's ridley)

## Sea Turtle Incidental Take Report 2008-1

At approximately 02:20 on Friday, June 27, 2008, an OCNGS operator noticed a live sea turtle with its head above water in Bay # 1 of the circulating water intake. The water temperature at the time of the incidental take was approximately 78°F (25.6°C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were cloudy.

The turtle appeared to be healthy and was very active. OCNGS environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle (Lepidochelys kempi). Although it is impossible to say precisely how long the turtle had been on the trash bars prior to removal, the circulating water trash racks had been inspected and cleaned earlier the same morning. The turtle was not observed during that trash rack inspection and cleaning.

The turtle measured only 21.7 cm carapace length straight line and weighed 3.4 lb. No tags were present on the turtle when captured. USNRC and NMFS personnel were notified of the incidental take within 24 hours. The turtle was handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ at approximately 05:15 on June 27, 2008.

The animal began eating immediately upon arrival at MMSC. At the MMSC, the turtle was examined, measured, fed, and tagged (right front flipper with SS tag #SSL120; left front flipper with PIT tag #43101A6518). MMSC personnel reported that the animal was very active and suffered no major injuries. Only minor bruising was present on plastron and ventral surfaces of its flippers. The turtle was subsequently released off the Maryland coast along with the sea turtle incidentally taken on July 7, 2008 (Incidental Take Report 2008-2) off the northern tip of Taylor island in Oxford, Maryland (Chesapeake Bay) due to warmer water temperatures.

#### Sea Turtle Incidental Take Report 2008-2

At approximately 01:31 on Monday, July 7, 2008, an OCNGS operator noticed a live sea turtle during trash removal activities in Bay #3 of the circulating water intake. The water temperature at the time of the incidental take was approximately 77.1 °F (25.0 °C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were cloudy. USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle appeared to be healthy and was active. OCNGS Environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle. The turtle was not observed when the circulating water trash racks had been inspected at 21:19 the previous evening, four hours prior to the take. The trash racks had last been cleaned approximately 24 hours prior to the take.

The turtle measured only 25.9 cm carapace length, straight line, and weighed 5.9 lb. No tags were present on the turtle when captured. The turtle was handed over to personnel from the MMSC in Brigantine, NJ at approximately 04:25 on July 7, 2008. At the MMSC, the turtle was examined and measured. The turtle was tagged on its right front flipper with SS tag #SSL121 and on its left front flipper with PIT tag #436050307B. MMSC personnel reported that the animal was active during transport to MMSC but had numerous small barnacles present on its flippers, head, carapace, and plastron. Only minor bruising was present on plastron and ventral surfaces of its flippers. The turtle was subsequently released along with the sea turtle incidentally taken on June 27, 2008 (Incidental Take Report 2008-1), off the northern tip of Taylor island in Oxford, Maryland (Chesapeake Bay) due to warmer water temperatures.

#### Sea Turtle Incidental Take Reports 2008-3 and 2008-4

During the early morning hours of Sunday, July 27, 2008, two live juvenile Kemp's ridley turtles were incidentally taken within twenty minutes of each other in Bay #1 of the circulating water intake structure. At 01:01 that morning, a Field Supervisor conducting a routine tour noticed a live sea turtle in that intake bay and obtained assistance in gently recovering the turtle. The water temperature at the time of the incidental take was approximately 81.6 °F (27.6 °C) and OCNGS was operating at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were clear.

The first turtle appeared to be healthy and was active. After retrieval of the turtle was completed, the turtle was placed into a container while awaiting the OCNGS Environmental Department representative. At this time the Intake Operator began trash-raking operations in Bay #1 of the circulating water intake structure. Raking operations were immediately stopped when the Operator noticed a second live sea turtle in Bay #1 at approximately 01:19. The OCNGS Environmental personnel representative who took custody of them confirmed both turtles to be juvenile Kemp's ridley sea turtles. Neither turtle was spotted when the circulating water trash racks had been inspected three hours prior to the takes at 22:05 the previous evening. The trash racks had been cleaned approximately 24 hours prior to the incidental takes.

The first turtle incidentally taken that morning measured 20.7 cm carapace length straight line and weighed 3.2 lb. The second turtle incidentally taken measured 25.5 cm carapace length straight line and weighed 5.4 lb. No external tags were present on either turtle, and both turtles appeared to be very active and in good health. USNRC and NMFS personnel were notified of the incidental takes within 24 hours.

Custody of the turtles was relinquished to a representative of the MMSC in Brigantine, NJ at approximately 03:20 on July 27, 2008. At the MMSC, both turtles were examined, fed, measured, and tagged. MMSC personnel reported that both animals were very active and suffered no major injuries.

The first turtle was reported by MMSC to have a 3 cm laceration that was healing on its left rear flipper, a one centimeter cut on the dorsal surface of left front flipper near shoulder, several 0.5 cm chips on the posterior edge of its carapace, and minor bruising on the plastron. MMSC personnel also reported that it began eating immediately upon arrival at MMSC. The first turtle was tagged on its right front flipper (SS tag #SSL122) and on its left front flipper (PIT tag #431343424B).

Upon examination by MMSC personnel, the second turtle was found very active and to have a one centimeter laceration on the dorsal surface of the left rear flipper, a missing portion of the rear right flipper tip, and minor bruising and scrapes on its plastron. The first turtle was tagged on its right front flipper with SS tag #SSL123 and on its left front flipper with PIT tag #4313375300.

Both turtles were subsequently transferred to the Virginia Aquarium and Marine Science Center in Virginia Beach, Virginia for additional treatment and rehabilitation prior to their release to the nearby Atlantic Ocean.

#### Sighting on July 30, 2008

At approximately 10:25 on Wednesday, July 30, 2008, an Intake Operator conducting a routine inspection of the circulating water intake structure noticed a live sea turtle in Bay #3. When the Intake Operator went to recover the turtle, it swam away back into the intake channel. The sea turtle was unable to be closely examined to identify its species or sex, but it was estimated by

the Intake Operator to measure roughly 1 foot (30 cm) in diameter. The intake temperature was 79°F (26.1°C) with clear skies and light grassing conditions. The Intake Structure had last been inspected for sea turtles at 04:20 on July 30, 2008 and last raked at 01:37 the same morning. OCNGS was operating at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were clear.

Although it is impossible to say precisely how long the turtle may have been in the vicinity of the trash bars prior to being observed, the circulating water trash racks had been inspected approximately six hours earlier and the trash racks had been cleaned less than nine hours prior to the observation of the sea turtle. USNRC and NMFS personnel were notified of the observation within 24 hours of the sighting.

Note that a live juvenile Kemp's ridley sea turtle (Sea Turtle Incidental Take Report 2008-5) was incidentally taken at the OCNGS on the day following this sea turtle observation. It is unknown whether the same turtle was involved in both cases or not, although the possibility exists that the turtle observed on July 30, 2008, was subsequently incidentally taken on July 31, 2008.

#### Sea Turtle Incidental Take Report 2008-5

At 16:52 on Thursday, July 31, 2008, an Intake Operator noticed a live sea turtle in Bay # 6 of the dilution water intake structure. The turtle was retrieved in accordance with the station's sea turtle handling procedure. The water temperature at the time of the incidental take was approximately 80.8°F (27.1°C) and the OCNGS was operating at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were cloudy.

The turtle appeared to be healthy and was active. The OCNGS Environmental personnel and MMSC representatives who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle. The dilution water trash racks had been inspected and raked two hours prior to the incidental take.

The turtle measured only 22.5 cm carapace length straight line and weighed 3.4 lb. No external tags were present on the turtle and the turtle appeared to be in good health. USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was turned over to the custody of the MMSC in Brigantine, NJ at approximately 19:15 on July 31, 2008. At the MMSC, the turtle was examined, fed, and measured. MMSC personnel reported that the animal was somewhat lethargic with minor abrasions on its skin, several small barnacles present on its carapace and under its right eye, and a large barnacle under its left front flipper. Minor bruising was noted on the plastron. The turtle was treated with antibiotics for an extended time at MMSC due to its pre-existing barnacle infestation and lethargy. The turtle was transferred to the Virginia Aquarium and Marine Science Center in Virginia Beach, Virginia for continuation of its rehabilitation. Upon completion of rehabilitation, the turtle was released in the nearby Atlantic Ocean.

### Sea Turtle Incidental Take Report 2008-6

At approximately 21:12 on Friday, September 12, 2008, an OCNGS Intake Operator who was manually removing materials from the upstream face of the trash rack in Bay # 6 of the dilution water intake noticed a sea turtle upside-down among the debris he was removing from the trash rack. The operator promptly recovered the turtle in accordance with station safe turtle handling instructions. The water temperature at the time of the incidental take was approximately 79.6°F (26.4°C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Rain was occurring at the time and there were light grassing conditions. USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was obviously dead having a partially crushed carapace and a deep, narrow slice wound typical of boat propeller wounds. The turtle was severely decomposed, its skull was skeletonized and it was missing one eye. It had many of its scutes missing. OCNGS Environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle. The turtle was not observed when the dilution water trash racks had been inspected less than four hours prior to the take at 17:20 the same evening. The trash racks had last been cleaned approximately 24 hours prior to the take.

The turtle was handed over to personnel from the MMSC in Brigantine at approximately 09:45 on September 13, 2008. At the MMSC, the turtle was examined and measured. A stranding/necropsy report was completed in which MMSC personnel reported that the animal had suffered severe trauma to its carapace and head, including a "large prop cut" indicative of a boating accident. The turtle of undetermined sex measured only 24.5 cm carapace length straight line and weighed an estimated 5 pounds. No flipper tags were present on the turtle when inspected. Due to the severe decomposition of the turtle, MMSC personnel were unable to perform a detailed necropsy, but did perform a cursory necropsy that was documented on Sea Turtle Stranding and Salvage Network Stranding Report Field ID # MMSC-08-127. Following completion of the necropsy, MMSC personnel buried the turtle at the north end of Brigantine Island, New Jersey.

### Comparison of Annual Sea Turtle Incidental Takes With Prior Years

Regarding trends in the number of incidental sea turtle takes at the OCNGS, a total of six sea turtle incidental takes occurred during 2008. Also, one sea turtle was observed at OCNGS which was not immediately incidentally taken. All but one of the sea turtles incidentally taken at OCNGS during 2008 were alive and in good condition and were subsequently released after they were confirmed to be feeding well and moving about normally. The only sea turtle that was not alive when incidentally taken at the OCNGS appeared to have been involved in a boat collision and was severely decomposed when it was taken. Thus, it apparently died some time before it was incidentally taken and its death appears unrelated to operation of OCNGS.

The six OCNGS incidental takes during 2008 is greater than the long-term average of between two and three incidental takes per year recorded over the last sixteen years; however, the annual abundance of sea turtles in this vicinity appears to be highly variable, unpredictable, and unrelated to the operation of OCNGS. There are several factors that may influence the number

of sea turtle incidental takes that occur at the OCNGS. Barnegat Inlet, the only tidal inlet in the vicinity of OCNGS, which provides access to Barnegat Bay from the Atlantic Ocean, was deepened during dredging operations in the early 1990s. Completion of the Barnegat Inlet dredging operation resulted in an increase in the tidal prism, or volume of water entering and exiting the inlet on a single tidal cycle, as well as a slightly greater tidal range at OCNGS. The deepening of Barnegat Inlet and associated waterway channels was completed immediately prior to 1992, when incidental takes of sea turtles began to occur at OCNGS, and may partially explain the occurrence of the turtles.

Physical factors, such as an oceanic front or an oceanic eddy occurring unusually close to Barnegat Inlet, may also play a part in the prevalence of sea turtles near OCNGS because oceanic fronts have been shown to be used as a migratory and forage habitat by sea turtles (Polovina et al, 2000). Experience has also shown that the passage of a severe storm or pressure system near Barnegat Inlet can cause major increases in winds, waves, tides and tidal prism in shallow estuarine waters such as Barnegat Bay. These events could increase the likelihood of slowly swimming organisms such as sea turtles occurring in the estuary. Although it is likely that the local variability of sea turtle abundance is also related to biological factors including the abundance of organisms on which sea turtles prefer to feed, such as blue crabs, horseshoe crabs, and calico crabs; blue crabs were not as relatively abundant in Barnegat Bay in 2008 compared to recent years, as was the case in most other coastal bays along the Atlantic coast such as Chesapeake Bay. Therefore the relatively higher number of incidental takes in 2008 was an anomaly or the number of incidental takes could have been more had the abundance of their food source been higher under the same weather patterns and other influencing factors during 2008.

Many years of environmental sampling conducted near OCNGS have repeatedly demonstrated that the abundance of various marine organisms can vary considerably from year to year, often by orders of magnitude. This is particularly true for seasonal migrants, whose abundance in Barnegat Bay is highly dependent upon physical and biological factors along the migratory route. Therefore, the observed annual variation in sea turtle incidental takes at OCNGS from a minimum of zero to a maximum of eight per year is not considered particularly significant. The ultimate goal of the considerable effort being put forward at OCNGS for the protection of sea turtles is to protect the turtles that do arrive at the plant, and to release as many turtles as possible to safety. The OCNGS program for the protection of threatened and endangered sea turtles can be considered to be quite successful because most of the sea turtles incidentally captured at OCNGS since 1992 (with some in distress prior to being taken) have subsequently been rehabilitated and released alive and well, to the Atlantic Ocean in locations free from potential cold-shock; due to the efforts of OCNGS and MMSC personnel.

The six incidental takes of Kemp's ridley turtles during 2008 at the OCNGS did not exceed the Incidental Take Statement limit, which is currently a maximum of eight Kemp's ridleys per year. There was only one lethal incidental take of sea turtle at the OCNGS during 2008, and its advanced state of decomposition would indicate that the death was unrelated to the operation of OCNGS. All five incidental live takes occurred prior to August.

OCNGS expects on-going support from the Marine Mammal Stranding Center in Brigantine, New Jersey for both transfers of live sea turtles for rehabilitation and as the primary facility for necropsies. OCNGS has noted the exceptional efforts by the MMSC staff in the care and rehabilitation of sea turtles transferred to the Brigantine facility. In recognition of this effort, OCNGS contributed \$10,000.00 to the MMSC in 2008. Also during 2008, OCNGS arranged for Dr. Wurst (D.V.S.) of Barnegat, New Jersey as a backup to perform necropsies as required by T&C # 11 of the 2006 Biological Opinion.

### References

Polovina, J.J., D.R. Kobayashi, D.M. Ellis, M.P. Seki, and G.H. Balazs. 2000. Turtles on the edge: Movement of loggerhead turtles (*Caretta caretta*) along oceanic fronts in the central North Pacific, 1997-1998. *Fish. Oceanogr.*, 9: 71-82.

Enclosure to RA-08-088

**ATTACHMENT 1**

**Incidental Take Reports**

**Take**

**Date / Time (condition and species)**

2008-1	Friday, June 27, 2008 / 0220 (Live juvenile Kemp's ridley)
2008-2	Monday, July 7, 2008 / 0131 (Live juvenile Kemp's ridley)
2008-3	Sunday, July 27, 2008 / 0101 (Live juvenile Kemp's ridley)
2008-4	Sunday, July 27, 2008 / 0119 (Live juvenile Kemp's ridley)
2008-5	Thursday, July 31, 2008 / 1652 (Live juvenile Kemp's ridley)
2008-6	Friday, September 12, 2008 / 2112 (Partially decomposed juvenile Kemp's ridley)

## OYSTER CREEK NUCLEAR GENERATING STATION

### Sea Turtle Incidental Take Report 2008-1

At approximately 0220 hours on Friday, June 27, 2008, an Oyster Creek Nuclear Generating Station (OCNGS) operator noticed a live sea turtle with its head above water in Bay #1 of the circulating water intake. The water temperature at the time of the incidental take was approximately 78 degrees F (25.6 C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were cloudy.

The turtle appeared to be healthy and was very active. OCNGS Environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle (Lepidochelys kempfi). Although it is impossible to say precisely how long the turtle had been on the trash bars prior to removal, the circulating water trash racks had been inspected and cleaned earlier the same morning. The turtle was not observed during that trash rack inspection and cleaning.

The turtle measured only 21.7 cm carapace length straight line and weighed 3.4 lb. No tags were present on the turtle when captured. USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ at approximately 0515 hours on June 27, 2008. At the MMSC, the turtle was examined, measured, fed, and tagged. MMSC personnel reported that the animal was very active and suffered no major injuries. Only minor bruising was present on plastron and ventral surfaces of its flippers. The animal began eating immediately upon arrival at MMSC. At the time of this report, the turtle is still being held at the MMSC until arrangements for its release are finalized.

# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

**OBSERVER'S NAME / ADDRESS / PHONE:**

First Brandi M.I.  Last Biehl  
 Affiliation Marine Mammal Stranding Center  
 Address PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203  
 Area code/Phone number (609) 266-0538

**STRANDING DATE:**

Year 20 08 Month 06 Day 27  
 Turtle number by day 01  
 Field ID # MMSC-093  
 Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538  
 email  fax

**SPECIES: (check one)**

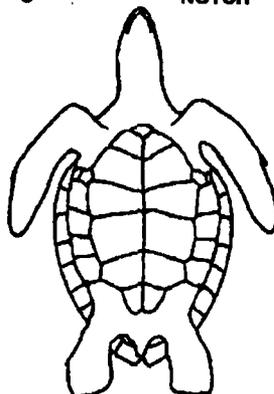
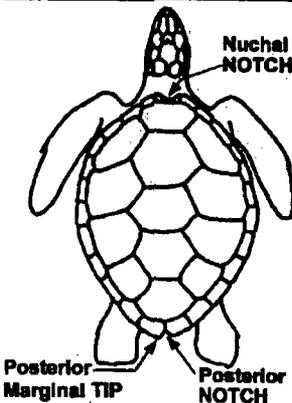
- CC = Loggerhead
- CM = Green
- DC = Leatherback
- EI = Hawksbill
- LK = Kemp's Ridley
- LO = Olive Ridley
- UN = Unidentified

Check Unidentified if not positive. Do Not Guess.

Carcass necropsied?  Yes  No  
 Photos taken?  Yes  No  
 Species verified by coordinator?  
 Yes  No

**SEX:**

Undetermined  
 Female  Male  
 Does tail extend beyond carapace?  
 Yes; how far?          cm / in  
 No  
 How was sex determined?  
 Necropsy  
 Tail-length (adult only)



**STRANDING LOCATION:**

Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)  
 State New Jersey County Ocean  
 Descriptive location (be specific) Forked River, Oyster Creek Nuclear Generating Station.  
 Latitude 39.81417°N Longitude 74.20700°W

**CONDITION: (check one)**

- 0 = Alive
- 1 = Fresh dead
- 2 = Moderately decomposed
- 3 = Severely decomposed
- 4 = Dried carcass
- 5 = Skeleton, bones only

**TAGS: Contact coordinator before disposing of any tagged animal!**

Checked for flipper tags?  Yes  No  
 Check all 4 flippers. If found, record tag number(s) / tag location / return address

PIT tag scan?  Yes  No  
 If found, record number / tag location

Coded wire tag scan?  Yes  No  
 If positive response, record location (flipper)  
Unable to check for:  
 Checked for living tag?  Yes  No  
 If found, record location (scute number & side)

**FINAL DISPOSITION: (check)**

- 1 = Left on beach where found; painted?  Yes\*  No(5)
- 2 = Buried:  on beach /  off beach;  
 carcass painted before buried?  Yes\*  No
- 3 = Salvaged:  all /  part(s), what/why?
- 4 = Pulled up on beach/dune; painted?  Yes\*  No
- 6 = Alive, released
- 7 = Alive, taken to rehab. facility, where?           
 MMSC
- 8 = Left floating, not recovered; painted?  Yes\*  No
- 9 = Disposition unknown, explain

\*If painted, what color?         

**CARAPACE MEASUREMENTS: (see drawing)**

**Using callipers**

Straight length (NOTCH-TIP)	21.7	<input checked="" type="checkbox"/> cm	<input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm	<input type="checkbox"/> in
Straight width (Widest Point)	20.5	<input checked="" type="checkbox"/> cm	<input type="checkbox"/> in

Using non-metal measuring tape

Curved length (NOTCH-TIP)		<input type="checkbox"/> cm	<input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm	<input type="checkbox"/> in
Curved width (Widest Point)		<input type="checkbox"/> cm	<input type="checkbox"/> in

Weight  actual /  est.      3.4  kg  lb

Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiota, papillomas, emaciation, etc.). Please note if no wounds / abnormalities are found.

Turtle was impinged on cooling intake. Animal was very active and suffered no major injuries. Only minor bruising present on plastron and ventral surfaces of flippers. Animal began eating immediately upon arrival at MMSC. Tagged right front flipper stainless steel tag #SSL120 and PIT tagged on left front flipper #43101A6518.

## Sea Turtle Incidental Take Report 2008-2

At approximately 0131 hours on Monday, July 7, 2008, an Oyster Creek Nuclear Generating Station (OCNGS) operator noticed a live sea turtle during trash removal activities in Bay #3 of the circulating water intake. The water temperature at the time of the incidental take was approximately 77.1 degrees F (25.0 C) and OCNGS was in operation at 100 % power with four circulating water pumps and two dilution pumps in operation. Skies were cloudy.

The turtle appeared to be healthy and was active. OCNGS Environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle (Lepidochelys kempii). Although it is impossible to say precisely how long the turtle had been in the intake bay prior to removal, the circulating water trash racks had been inspected four hours prior to the take at 21:19 hours the previous evening. The trash racks had last been cleaned approximately 24 hours prior to the take.

The turtle measured only 25.9 cm carapace length straight line and weighed 5.9 lb. No tags were present on the turtle when captured. USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ at approximately 0425 hours on July 7, 2008. At the MMSC, the turtle was examined and measured. MMSC personnel reported that the animal was active during transport to MMSC but had numerous small barnacles present on its flippers, head, carapace, and plastron. Only minor bruising was present on plastron and ventral surfaces of its flippers. At the time of this report, the turtle is still being held at the MMSC due to their concern regarding pre-existing heavy barnacle infestation and abnormal blood work. The turtle is presently being treated with antibiotics and will be held at MMSC until such time as they determine release is appropriate.

# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

**OBSERVER'S NAME / ADDRESS / PHONE:**

First Jay M.I. \_\_\_\_\_ Last Page  
 Affiliation Marine Mammal Stranding Center  
 Address PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203  
 Area code/Phone number (609) 266-0538

**STRANDING DATE:**

Year 20 08 Month 07 Day 07  
 Turtle number by day 01  
 Field ID # MMSC-097  
 Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538  
 email  fax

**SPECIES: (check one)**

- CC = Loggerhead
- CM = Green
- DC = Leatherback
- EI = Hawksbill
- LK = Kemp's Ridley
- LO = Olive Ridley
- UN = Unidentified

Check Unidentified if not positive. Do Not Guess.

Carcass necropsied?  Yes  No  
 Photos taken?  Yes  No  
 Species verified by coordinator?  
 Yes  No

**SEX:**

- Undetermined
- Female  Male
- Does tail extend beyond carapace?  
 Yes; how far? \_\_\_\_\_ cm / in  
 No
- How was sex determined?  
 Necropsy  
 Tail length (adult only)

**STRANDING LOCATION:**

Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)  
 State New Jersey County Ocean  
 Descriptive location (be specific): Forked River, Oyster Creek Nuclear Generating Station.  
 Latitude 39.81417°N Longitude 74.20700°W

**CONDITION: (check one)**

- 0 = Alive
- 1 = Fresh dead
- 2 = Moderately decomposed
- 3 = Severely decomposed
- 4 = Dried carcass
- 5 = Skeleton, bones only

**FINAL DISPOSITION: (check)**

- 1 = Left on beach where found; painted?  Yes\*  No(5)
  - 2 = Buried:  on beach /  off beach;  
 carcass painted before buried?  Yes\*  No
  - 3 = Salvaged:  all /  part(s), what/why? \_\_\_\_\_
  - 4 = Pulled up on beach/dune; painted?  Yes\*  No
  - 6 = Alive, released
  - 7 = Alive, taken to rehab. facility, where? \_\_\_\_\_  
**MMSC**
  - 8 = Left floating, not recovered; painted?  Yes\*  No
  - 9 = Disposition unknown, explain \_\_\_\_\_
- \*if painted, what color? \_\_\_\_\_

**TAGS: Contact coordinator before disposing of any tagged animal!!**

Checked for flipper tags?  Yes  No  
**Check all 4 flippers.** If found, record tag number(s) / tag location / return address

PIT tag scan?  Yes  No  
 If found, record number / tag location

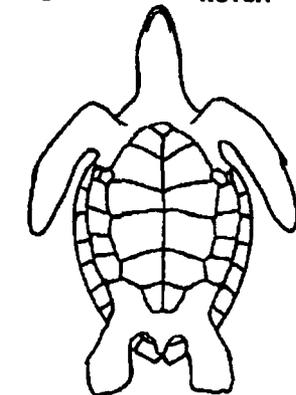
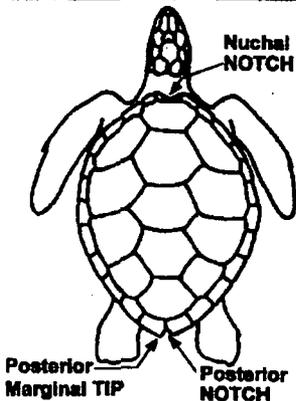
Coded wire tag scan?  Yes  No  
 If positive response, record location (flipper)  
 Unable to check for \_\_\_\_\_

Checked for living tag?  Yes  No  
 If found, record location (scute number & side)  
 \_\_\_\_\_

**CARAPACE MEASUREMENTS: (see drawing)**

**Using calipers**

Straight length (NOTCH-TIP)	25.9	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)	_____	<input type="checkbox"/> cm <input type="checkbox"/> in
Straight width (Widest Point)	23.8	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Using non-metal measuring tape		<b>Circle unit</b>
Curved length (NOTCH-TIP)	_____	<input type="checkbox"/> cm <input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)	_____	<input type="checkbox"/> cm <input type="checkbox"/> in
Curved width (Widest Point)	_____	<input type="checkbox"/> cm <input type="checkbox"/> in
		<b>Circle unit</b>
Weight	<input checked="" type="checkbox"/> actual / <input type="checkbox"/> est.	5.9 <input type="checkbox"/> kg <input checked="" type="checkbox"/> lb



Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiota, papillomas, emaciation, etc.). **Please note if no wounds / abnormalities are found.**

Turtle was impinged on cooling intake. Animal was active during transport to MMSC, but had numerous small barnacles present on its flippers, head, carapace and plastron. Only minor bruising present on plastron and ventral surfaces of flippers.

**OYSTER CREEK NUCLEAR GENERATING STATION**  
**Sea Turtle Incidental Take Report 2008-3**  
(Field #: MMSC-08-103)

At approximately 0101 hours on Sunday, July 27, 2008, an Oyster Creek Nuclear Generating Station (OCNGS) Field Supervisor on a routine tour noticed a live sea turtle in Bay #1 of the circulating water intake. An operator was dispatched and recovered the turtle in accordance with station safe turtle handling procedure at 0109 hours. The water temperature at the time of the incidental take was approximately 81.6 degrees F (27.6 C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were clear.

The turtle appeared to be healthy and was active. OCNGS Environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle (Lepidochelys kempii). Although it is impossible to say precisely how long the turtle had been in the intake bay prior to removal, the circulating water trash racks had been inspected three hours prior to the take at 2205 hours the previous evening. The trash racks had last been cleaned approximately 24 hours prior to the take.

The turtle measured only 20.7cm carapace length straight line and weighed 3.2 lb. No tags were present on the turtle when captured. USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ at approximately 0320 hours on July 27, 2008. At the MMSC, the turtle was examined, measured, fed, and tagged. MMSC personnel reported that the animal was very active and suffered no major injuries. A 3 cm laceration that was healing was observed on the left rear flipper and minor bruising on plastron and ventral surfaces of its flippers were observed. The animal began eating immediately upon arrival at MMSC. At the time of this report, the turtle is being held at the Virginia Aquarium and Marine Science Center until arrangements for its release are finalized.

# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

## OBSERVER'S NAME / ADDRESS / PHONE:

First Bill M.I.  Last Deerr

Affiliation Marine Mammal Stranding Center

Address PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203

Area code/Phone number (609) 266-0538

## STRANDING DATE:

Year 20 08 Month 07 Day 27

Turtle number by day 01

Field ID # MMSC-08-103

Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538

email  fax

### SPECIES: (check one)

- CC = Loggerhead  
 CM = Green  
 DC = Leatherback  
 EI = Hawksbill  
 LK = Kemp's Ridley  
 LO = Olive Ridley  
 UN = Unidentified

Check Unidentified if not positive. Do Not Guess.

Carcass necropsied?  Yes  No

Photos taken?  Yes  No

Species verified by coordinator?

Yes  No

### SEX:

Undetermined

Female  Male

Does tail extend beyond carapace?

Yes; how far?      cm / in

No

How was sex determined?

Necropsy

Tail length (adult only)

STRANDING LOCATION:  Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)

State New Jersey County Ocean

Descriptive location (be specific) Forked River, Oyster Creek Nuclear Generating Station

Latitude 39.81417°N Longitude 74.20700°W

### CONDITION: (check one)

- 0 = Alive  
 1 = Fresh dead  
 2 = Moderately decomposed  
 3 = Severely decomposed  
 4 = Dried carcass  
 5 = Skeleton, bones only

### FINAL DISPOSITION: (check)

1 = Left on beach where found; painted?  Yes\*  No(5)

2 = Buried:  on beach /  off beach;  
 carcass painted before buried?  Yes\*  No

3 = Salvaged:  all /  part(s), what/why?     

4 = Pulled up on beach/dune; painted?  Yes\*  No

6 = Alive, released

7 = Alive, taken to rehab. facility, where?     

MMSC & Transferred to Virginia Aquarium

8 = Left floating, not recovered; painted?  Yes\*  No

9 = Disposition unknown, explain     

\*If painted, what color?     

### TAGS: Contact coordinator before

**disposing of any tagged animal!**

Checked for flipper tags?  Yes  No

Check all 4 flippers. If found, record tag number(s) / tag location / return address

PIT tag scan?  Yes  No

If found, record number / tag location

Coded wire tag scan?  Yes  No

If positive response, record location (flipper)

Unable to check for     

Checked for living tag?  Yes  No

If found, record location (scute number & side)

### CARAPACE MEASUREMENTS: (see drawing)

#### Using calipers

Straight length (NOTCH-TIP) 20.7  cm  in

Minimum length (NOTCH-NOTCH)       cm  in

Straight width (Widest Point) 19.4  cm  in

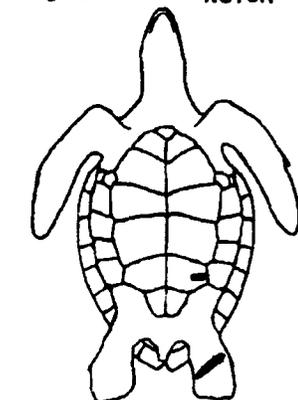
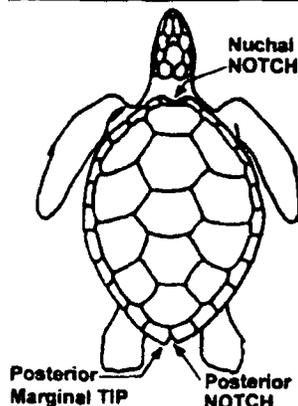
Using non-metal measuring tape

Curved length (NOTCH-TIP) 21.2  cm  in

Minimum length (NOTCH-NOTCH)       cm  in

Curved width (Widest Point) 22  cm  in

Weight  actual /  est. 3.2  kg  lb



Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiota, papillomas, emaciation, etc.). Please note if no wounds / abnormalities are found.

Very active. 3cm laceration (healing) on ventral surface of LRF. 1cm cut on dorsal surface of LFF near shoulder. Several 0.5cm chips on posterior edge of carapace. Minor bruising on the plastron. 1cm cut on left posterior of plastron near LRF. No tags

08/04/08: Transferred to VAMSC for further treatment with 08-104 and 08-105.

Tagged LFF: Metal Tag SSL122

PIT Tagged RFF #: 431343424B

**OYSTER CREEK NUCLEAR GENERATING STATION**  
**Sea Turtle Incidental Take Report 2008-4**  
(Field #: MMSC-08-104)

At approximately 0119 hours on Sunday, July 27, 2008, an Oyster Creek Nuclear Generating Station (OCNGS) Operator noticed a live sea turtle in Bay #1 of the circulating water intake while performing trash raking operations. Raking was immediately stopped and the turtle was recovered in accordance with the station's safe turtle handling procedure at 0119 hours. The water temperature at the time of the incidental take was approximately 81.6 degrees F (27.6 C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were clear.

The turtle appeared to be healthy and was active. OCNGS Environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle (Lepidochelys kempi). Although it is impossible to say precisely how long the turtle had been in the intake bay prior to removal, the circulating water trash racks had been inspected three hours prior to the incidental take at 2205 hours the previous evening. The trash racks had last been cleaned approximately 24 hours prior to the take.

The turtle measured only 25.5 cm carapace length straight line and weighed 5.4 lb. No tags were present on the turtle when captured. USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ at approximately 0320 hours on July 27, 2008. At the MMSC, the turtle was examined, measured, fed, and tagged. MMSC personnel reported that the animal was very active and suffered no major injuries. Only minor bruising was present on plastron and ventral surfaces of its flippers. At the time of this report, the turtle is being held at the Virginia Aquarium and Marine Science Center until arrangements for its release are finalized.

# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

**OBSERVER'S NAME / ADDRESS / PHONE:**

First Bill M.I.  Last Deerr  
 Affiliation Marine Mammal Stranding Center  
 Address PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203  
 Area code/Phone number (609) 266-0538

**STRANDING DATE:**

Year 20 08 Month 07 Day 27  
 Turtle number by day 02  
 Field ID # MMSC-08-104  
 Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538  
 email  fax

**SPECIES: (check one)**

- CC = Loggerhead
- CM = Green
- DC = Leatherback
- EI = Hawksbill
- LK = Kemp's Ridley
- LO = Olive Ridley
- UN = Unidentified

Check Unidentified if not positive. Do Not Guess.

Carcass necropsied?  Yes  No  
 Photos taken?  Yes  No  
 Species verified by coordinator?  
 Yes  No

**SEX:**

- Undetermined
- Female  Male
- Does tail extend beyond carapace?  
 Yes; how far? \_\_\_\_\_ cm / in  
 No
- How was sex determined?  
 Necropsy  
 Tail length (adult only)

**STRANDING LOCATION:**

Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)  
 State New Jersey County Ocean  
 Descriptive location (be specific) Forked River, Oyster Creek Nuclear Generating Station  
 Latitude 39.81417°N Longitude 74.20700°W

**CONDITION: (check one)**

- 0 = Alive
- 1 = Fresh dead
- 2 = Moderately decomposed
- 3 = Severely decomposed
- 4 = Dried carcass
- 5 = Skeleton, bones only

**TAGS: Contact coordinator before disposing of any tagged animal!!**

Checked for flipper tags?  Yes  No  
 Check all 4 flippers. If found, record tag number(s) / tag location / return address  
 PIT tag scan?  Yes  No  
 If found, record number / tag location  
 Coded wire tag scan?  Yes  No  
 If positive response, record location (flipper)  
Unable to check for  
 Checked for living tag?  Yes  No  
 If found, record location (scute number & side)

**FINAL DISPOSITION: (check )**

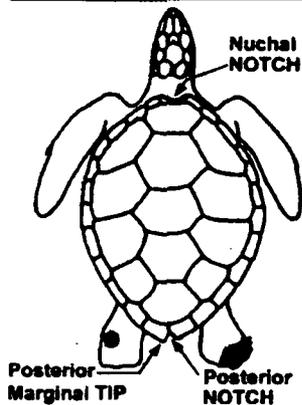
- 1 = Left on beach where found; painted?  Yes\*  No(5)
  - 2 = Buried:  on beach /  off beach; carcass painted before buried?  Yes\*  No
  - 3 = Salvaged:  all /  part(s), what/why? \_\_\_\_\_
  - 4 = Pulled up on beach/dune; painted?  Yes\*  No
  - 6 = Alive, released
  - 7 = Alive, taken to rehab. facility, where? MMSC & transferred to Virginia Aquarium
  - 8 = Left floating, not recovered; painted?  Yes\*  No
  - 9 = Disposition unknown, explain \_\_\_\_\_
- \*if painted, what color? \_\_\_\_\_

**CARAPACE MEASUREMENTS: (see drawing)**

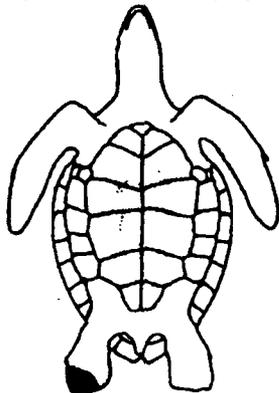
**Using calipers**

Straight length (NOTCH-TIP)	<u>25.5</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm <input type="checkbox"/> in
Straight width (Widest Point)	<u>24.4</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Using non-metal measuring tape		<input type="checkbox"/> cm <input type="checkbox"/> in
Curved length (NOTCH-TIP)	<u>26.4</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm <input type="checkbox"/> in
Curved width (Widest Point)	<u>28.5</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in

Weight  actual /  est. 5.4  kg  lb



Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiota, papillomas, emaciation, etc.). Please note if no wounds / abnormalities are found.



Very active. Minor 1cm laceration on dorsal surface of LRF. RRF missing a portion of the tip (old healed injury). Minor bruising and scrapes on plastron.  
08/04/08: Transferred to VAMSC for further treatment with 08-103 and 08-105.  
Tagged RFF: Metal Tag SSL123  
Pit Tagged LFF #: 4313375300

**OYSTER CREEK NUCLEAR GENERATING STATION**  
**Sea Turtle Incidental Take Report 2008-5**  
(Field #: MMSC-08-105)

At approximately 1652 hours on Thursday, July 31, 2008, an Oyster Creek Nuclear Generating Station (OCNGS) Operator noticed a live sea turtle in Bay #6 of the dilution water intake. The turtle was recovered in accordance with the station's safe turtle handling procedure. The water temperature at the time of the incidental take was approximately 80.8 degrees F (27.1 C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were cloudy and grass conditions were light.

The turtle appeared to be healthy and was active. OCNGS Environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle (Lepidochelys kempfi). Although it is impossible to say precisely how long the turtle had been in the intake bay prior to removal, the circulating water trash racks had been inspected and raked two hours prior to the incidental take.

The turtle measured only 22.5 cm carapace length straight line and weighed 3.4 pounds. No tags were present on the turtle when captured. USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ at approximately 1915 hours on July 31, 2008. At the MMSC, the turtle was examined, measured, fed, and tagged. MMSC personnel reported that the animal was lethargic with minor abrasions on its skin and barnacles on its carapace and under its right eye. Minor bruising was present on plastron and ventral surfaces of its flippers. The turtle was transferred on August 4, 2008, along with two other turtles from OCNGS (2008-3 and 2008-4) to the Virginia Aquarium and Marine Science Center until rehabilitation is complete and arrangements for its release are finalized.

# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

**OBSERVER'S NAME / ADDRESS / PHONE:**  
 First Brandi M.I.  Last Biehl  
 Affiliation Marine Mammal Stranding Center  
 Address PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203  
 Area code/Phone number (609) 266-0538

**STRANDING DATE:**  
 Year 20 08 Month 07 Day 31  
 Turtle number by day 01  
 Field ID # MMSC-08-105  
 Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538  
 email  fax

**SPECIES: (check one)**  
 CC = Loggerhead  
 CM = Green  
 DC = Leatherback  
 EI = Hawksbill  
 LK = Kemp's Ridley  
 LO = Olive Ridley  
 UN = Unidentified  
 Check Unidentified if not positive. Do Not Guess.

**STRANDING LOCATION:**  Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)  
 State New Jersey County Ocean  
 Descriptive location (be specific) Forked River, Oyster Creek Nuclear Generating Station  
 Latitude 39.81417°N Longitude 74.20700°W

Carcass necropsied?  Yes  No  
 Photos taken?  Yes  No  
 Species verified by coordinator?  
 Yes  No

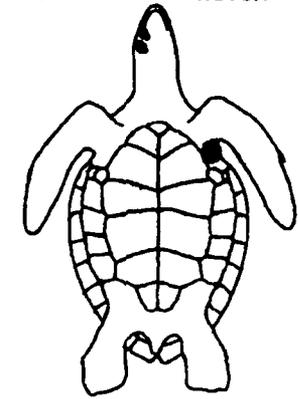
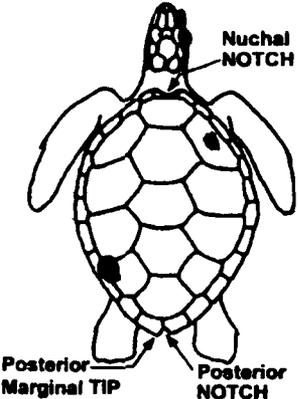
**CONDITION: (check one)**  
 0 = Alive  
 1 = Fresh dead  
 2 = Moderately decomposed  
 3 = Severely decomposed  
 4 = Dried carcass  
 5 = Skeleton, bones only

**FINAL DISPOSITION: (check)**  
 1 = Left on beach where found; painted?  Yes\*  No(5)  
 2 = Buried:  on beach /  off beach; carcass painted before buried?  Yes\*  No  
 3 = Salvaged:  all /  part(s), what/why? \_\_\_\_\_  
 4 = Pulled up on beach/dune; painted?  Yes\*  No  
 6 = Alive, released  
 7 = Alive, taken to rehab. facility, where? \_\_\_\_\_  
 MMSC & Transferred to Virginia Aquarium  
 8 = Left floating, not recovered; painted?  Yes\*  No  
 9 = Disposition unknown, explain \_\_\_\_\_  
 \*if painted, what color? \_\_\_\_\_

**SEX:**  
 Undetermined  
 Female  Male  
 Does tail extend beyond carapace?  
 Yes; how far? \_\_\_\_\_ cm / in  
 No  
 How was sex determined?  
 Necropsy  
 Tail length (adult only)

**TAGS: Contact coordinator before disposing of any tagged animal!!**  
 Checked for flipper tags?  Yes  No  
 Check all 4 flippers. If found, record tag number(s) / tag location / return address  
 PIT tag scan?  Yes  No  
 If found, record number / tag location  
 Coded wire tag scan?  Yes  No  
 If positive response, record location (flipper) \_\_\_\_\_  
 Unable to check for \_\_\_\_\_  
 Checked for living tag?  Yes  No  
 If found, record location (scute number & side) \_\_\_\_\_

**CARAPACE MEASUREMENTS: (see drawing)**  
**Using calipers**  
 Straight length (NOTCH-TIP) 22.5  cm  in  
 Minimum length (NOTCH-NOTCH) \_\_\_\_\_  cm  in  
 Straight width (Widest Point) 20.8  cm  in  
 Using non-metal measuring tape  
 Curved length (NOTCH-TIP) 23.2  cm  in  
 Minimum length (NOTCH-NOTCH) \_\_\_\_\_  cm  in  
 Curved width (Widest Point) 23.6  cm  in  
 Weight  actual /  est. 3.4  kg  lb



Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiota, papillomas, emaciation, etc.). Please note if no wounds / abnormalities are found.

Alive. Lethargic: minor abrasions on skin, large barnacle embedded under LFF, 2 barnacles under right eye, a few barnacles on carapace, minor bruising on plastron  
 08/04/08: Transferred to VAMSC for further treatment with 08-103 and 08-104.

**Enclosure 1**  
**OYSTER CREEK NUCLEAR GENERATING STATION**  
**Sea Turtle Incidental Take Report 2008-6**  
**(Field #: MMSC-08-127)**

At approximately 2112 hours on Friday, September 12, 2008, an Oyster Creek Nuclear Generating Station (OCNGS) Intake Operator who was manually removing materials from the upstream face of the trash rack in Bay # 6 of the dilution water intake noticed a sea turtle upside-down among the debris he was removing from the trash rack. The operator promptly recovered the turtle in accordance with station safe turtle handling instructions. The water temperature at the time of the incidental take was approximately 79.6 degrees F (26.4 C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Rain was occurring at the time and there were light grassing conditions.

The turtle appeared to have a partially crushed carapace and a deep, narrow slice wound typical of boat propeller wounds. The turtle was severely decomposed, its skull was skeletonized and it was missing one eye. It had many of its scutes missing. OCNGS Environmental personnel who took custody of the turtle confirmed it to be a juvenile Kemp's ridley sea turtle (Lepidochelys kempi). Although it is impossible to say precisely how long the turtle had been in the intake bay prior to removal, the dilution water trash racks had been inspected less than four hours prior to the take at 1720 hours the same evening. The trash racks had last been cleaned approximately 24 hours prior to the take.

The turtle was handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ at approximately 0945 hours on September 13, 2008. At the MMSC, the turtle was examined and measured.

A stranding/necropsy report was completed in which MMSC personnel reported that the animal had suffered severe trauma to its carapace and head, including a "large prop cut" indicative of a boating accident. The turtle of undetermined sex measured only 24.5 cm carapace length straight line and weighed an estimated 5 pounds. No flipper tags were present on the turtle when inspected. USNRC and NMFS personnel were notified of the incidental take within 24 hours. Due to the severe decomposition of the turtle, MMSC personnel were unable to perform a detailed necropsy, but did perform a cursory necropsy that was documented on Sea Turtle Stranding and Salvage Network – Stranding Report, Field ID # MMSC-08-127 (attached). Following completion of the necropsy, MMSC personnel buried the turtle at the north end of Brigantine Island, New Jersey.

# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

**OBSERVER'S NAME / ADDRESS / PHONE:**

First Brandi M.I. \_\_\_\_\_ Last Blehl  
 Affiliation Marine Mammal Stranding Center  
 Address PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203  
 Area code/Phone number (609) 266-0538

**STRANDING DATE:**

Year 20 08 Month 09 Day 13  
 Turtle number by day 01  
 Field ID # MMSC-08-127  
 Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538  
 email  fax

**SPECIES: (check one)**

- CC = Loggerhead
- CM = Green
- DC = Leatherback
- EI = Hawksbill
- LK = Kemp's Ridley
- LO = Olive Ridley
- UN = Unidentified

Check Unidentified if not positive. Do Not Guess.

Carcass necropsied?  Yes  No  
 Photos taken?  Yes  No  
 Species verified by coordinator?  
 Yes  No

**SEX:**

Undetermined  
 Female  Male  
 Does tail extend beyond carapace?  
 Yes; how far? \_\_\_\_\_ cm / in  
 No  
 How was sex determined?  
 Necropsy  
 Tail length (adult only)

**STRANDING LOCATION:**

Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)  
 State New Jersey County Ocean  
 Descriptive location (be specific) Oyster Creek Nuclear Generator Station., Forked River  
 Latitude 39.81417°N Longitude 74.20700°W

**CONDITION: (check one)**

- 0 = Alive
- 1 = Fresh dead
- 2 = Moderately decomposed
- 3 = Severely decomposed
- 4 = Dried carcass
- 5 = Skeleton, bones only

**TAGS: Contact coordinator before disposing of any tagged animals!**

Checked for flipper tags?  Yes  No  
 Check all 4 flippers. If found, record tag number(s) / tag location / return address

PFT tag scan?  Yes  No  
 If found, record number / tag location

Coded wire tag scan?  Yes  No  
 If positive response, record location (flipper)  
 Unable to check for

Checked for living tag?  Yes  No  
 If found, record location (scute number & side).

**FINAL DISPOSITION: (check )**

- 1 = Left on beach where found; painted?  Yes\*  No(5)
- 2 = Buried:  on beach /  off beach; carcass painted before buried?  Yes\*  No
- 3 = Salvaged:  all /  part(s), what/why? \_\_\_\_\_
- 4 = Pulled up on beach/dune; painted?  Yes\*  No
- 6 = Alive, released
- 7 = Alive, taken to rehab. facility, where? \_\_\_\_\_
- 8 = Left floating, not recovered; painted?  Yes\*  No
- 9 = Disposition unknown, explain \_\_\_\_\_

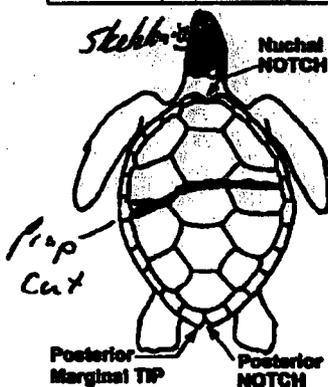
If painted, what color? \_\_\_\_\_

**CARAPACE MEASUREMENTS: (see drawing)**

**Using callipers**

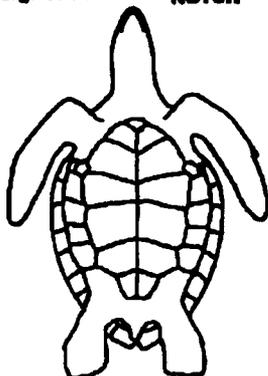
Straight length (NOTCH-TIP)	24.5	<input checked="" type="checkbox"/> cm	<input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm	<input type="checkbox"/> in
Straight width (Widest Point)	23.6	<input checked="" type="checkbox"/> cm	<input type="checkbox"/> in
Using non-metal measuring tape		<input type="checkbox"/> cm	<input checked="" type="checkbox"/> in
Curved length (NOTCH-TIP)	10	<input type="checkbox"/> cm	<input checked="" type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm	<input type="checkbox"/> in
Curved width (Widest Point)	10 1/2	<input type="checkbox"/> cm	<input checked="" type="checkbox"/> in

Weight  actual /  est.      5  kg  lb



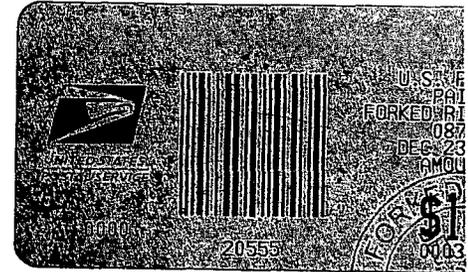
Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiota, papillomas, emaciation, etc.). Please note if no wounds / abnormalities are found.

**Dead. Severely decomposed. This turtle was found dead on the power plant's intake grate. The skull was skeletonized, and it's right eye was missing. The skutes are missing or peeling off. There was a large prop cut across the carapace. The turtle was buried on the north end of Brigantine. Photos and measurements by MMSC.**





Oyster Creek Generating Station  
Route 9 South  
P. O. Box 388  
Forked River, NJ 08731



U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555