

Oyster Creek Generating Station www.exeloncorp.com
Route 9 South
PO Box 388
Forked River, NJ 08731

10 CFR 50.2

November 9, 2009

RA-09-077

US Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

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

Subject: Sea Turtle Incidental Take Reports 2009-10 and 2009-11

The attached reports provide detailed information regarding the recent incidental takes of two live juvenile Kemp's ridley sea turtles at Oyster Creek Nuclear Generating Station (OCNGS) on October 7 and October 30, 2009, from intake bays of the plant's dilution and circulating water systems. The turtles were promptly turned over to the custody of the Brigantine Marine Mammal Stranding Center (MMSC) for examination and monitoring. The animals did not have external evidence of major injuries when initially examined by MMSC personnel.

After receipt at the MMSC personnel noticed that the animal incidentally taken on October 7, 2009, was not eating and expired three days after arrival at the MMSC. The turtle was shipped to a veterinarian in Florida specializing in sea turtle necropsies. The cause of death was determined as pneumonia and septicemia not related to station operation.

The turtle incidentally taken on October 30, 2009, was examined by MMSC personnel and transferred to Riverhead Foundation on Long Island in New York State for long term treatment prior to eventual release.

If you have any questions or require additional information, please do not hesitate to contact Malcolm Browne at (609) 971-4124.

Sincerely,



Michael J. Massaro
Vice President
Oyster Creek Nuclear Generating Station

TEAS
NRR

Enclosures:

Sea Turtle Incidental Take Report 2009-10 with photograph
MMSC Stranding Report MMSC-09-145
Sea Turtle Incidental Take Report 2009-11 with photograph
MMSC Stranding Report MMSC-09-151

cc: Julie Crocker
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Regulatory Assurance File No. 09024

OYSTER CREEK NUCLEAR GENERATING STATION

Sea Turtle Incidental Take Report 2009-10

At approximately 1100 hours on Wednesday, October 7, 2009, an Oyster Creek Nuclear Generating Station (OCNGS) operator noticed a sea turtle in Bay # 6 of the dilution water intake while removing debris from trash grates. The water temperature at the time of the incidental take was approximately 68.1 degrees F (20.1 C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were cloudy with no precipitation occurring at the time of the incidental take.

The turtle was very active and alert when retrieved from the intake bay. The turtle appeared to be healthy and had no obvious signs of physical trauma. 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 dilution water trash racks had been inspected less than four hours earlier and raked the previous morning without the turtle being observed.

USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was promptly handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ later on the same day. The turtle measured 31.6 cm carapace length straight line and weighed 10.0 lb. After receipt at the MMSC personnel noticed that the animal was not eating and the animal expired within three days of arrival at MMSC. The turtle was shipped to a veterinarian at the University of Florida specializing in sea turtle necropsies. The cause of death was determined as pneumonia and septicemia not related to station operation.

OYSTER CREEK NUCLEAR GENERATING STATION

Sea Turtle Incidental Take Report 2009-11

At approximately 1735 hours on Wednesday, October 30, 2009, an Oyster Creek Nuclear Generating Station (OCNGS) operator noticed a sea turtle in Bay # 4 of the circulating water intake while performing a regularly scheduled intake inspection tour. The water temperature at the time of the incidental take was approximately 58.9 degrees F (14.9 C) and OCNGS was in operation at 100% power with four circulating water pumps and two dilution pumps in operation. Skies were cloudy with no precipitation occurring at the time of the incidental take.

The turtle was fairly active when retrieved from the intake bay. 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 area prior to removal, the circulating water trash racks had been inspected less than four hours earlier and raked at approximately 0400 hours on the same day without the turtle being observed.

USNRC and NMFS personnel were notified of the incidental take within 24 hours.

The turtle was promptly handed over to personnel from the Marine Mammal Stranding Center (MMSC) in Brigantine, NJ later the same evening. The turtle measured 26.4 cm carapace length straight line and weighed 5.6 lb. After receipt at the MMSC personnel noticed that the animal was eating very little. The turtle was transferred to Riverhead Foundation in Riverhead, New York; a facility specializing in sea turtle rehabilitation prior to its eventual release.

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 09 Month 10 Day 07
 Turtle number by day 01
 Field ID # MMSC-09-145
 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 NPGS, impinged on intake grate
 Latitude 39.81417°N Longitude 74.20700°W

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

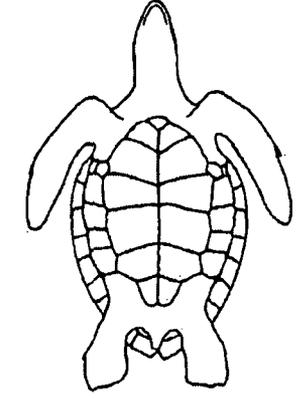
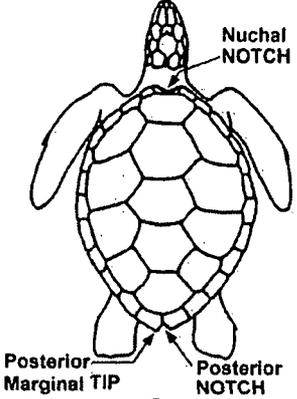
CONDITION: (check one)
 0 = Alive
 1 = Fresh dead
 2 = Moderately decomposed
 3 = Severely decomposed
 4 = Dried carcass
 5 = Skeleton, bones only

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? _____
 flipper punch-genetics; histology samples-Univ. of FL
 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 _____
 carcass sent to Univ. of FL for necropsy then disposed of
 *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)

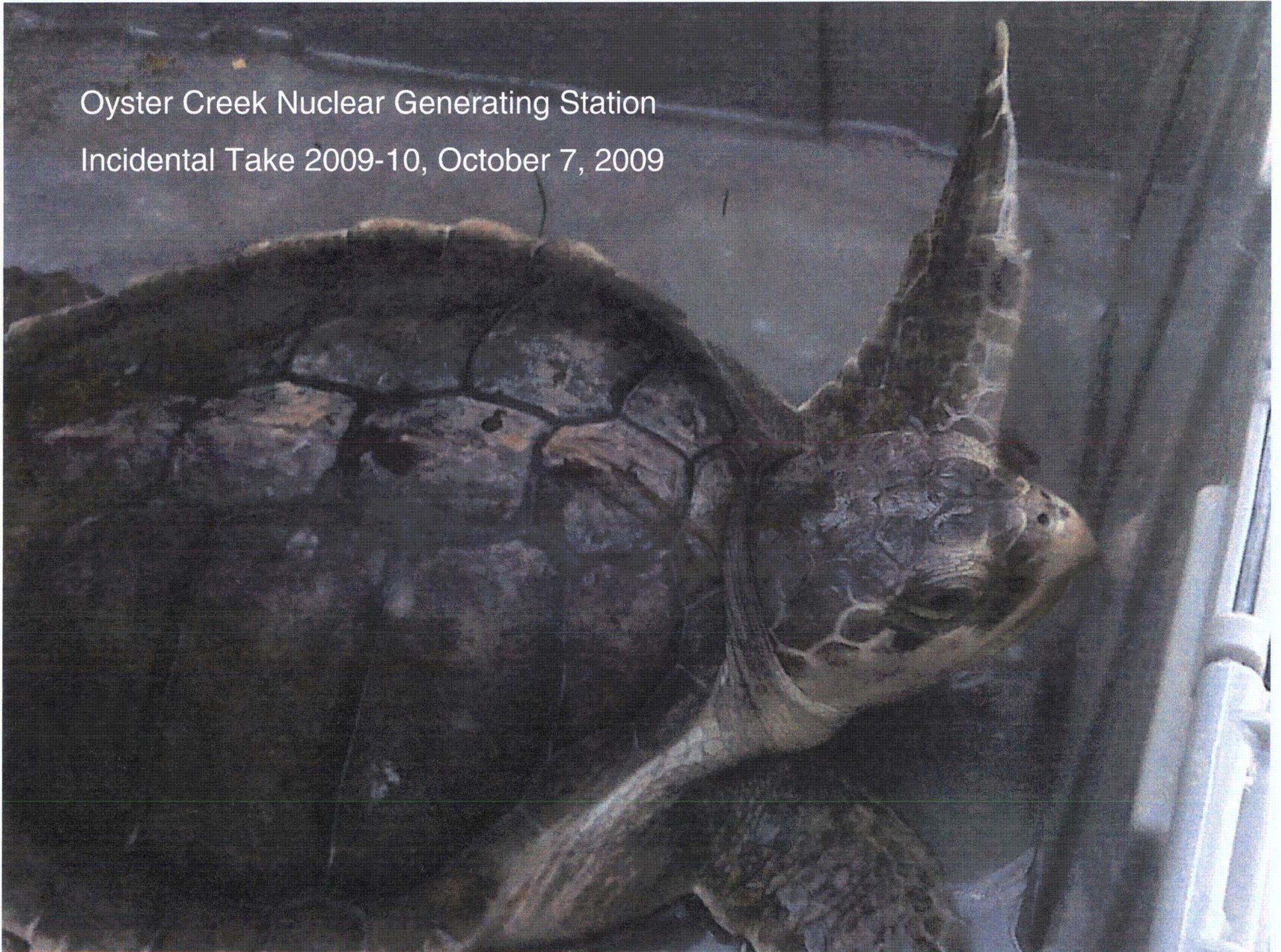
CARAPACE MEASUREMENTS: (see drawing)
Using calipers
 Straight length (NOTCH-TIP) 31.6 cm in
 Minimum length (NOTCH-NOTCH) _____ cm in
 Straight width (Widest Point) 29.6 cm in
Using non-metal measuring tape
 Curved length (NOTCH-TIP) 33 cm in
 Minimum length (NOTCH-NOTCH) _____ cm in
 Curved width (Widest Point) 33.4 cm in
 Weight actual / est. 10 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.**

Incidental capture; Impinged on water intake grate; lethargic; bruising on flippers; bloodshot eyes; Taken to MMSC for observation and treatment; the turtle was found dead in its pen on the morning of Oct. 10, 2009. Carcass was sent to Dr. Brian Stacey at the University of Florida for necropsy. Necropsy report on file at MMSC and NMFS NER.

Oyster Creek Nuclear Generating Station
Incidental Take 2009-10, October 7, 2009



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 09 Month 10 Day 30
 Turtle number by day 01
 Field ID # MMSC-09-151
 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 NPGS
 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 then transferred to Riverhead Foundation
- 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

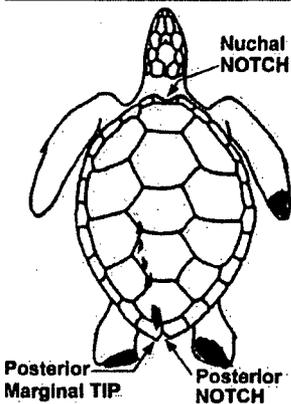
PIT tag scan? Yes No
 If found, record number / tag location

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)

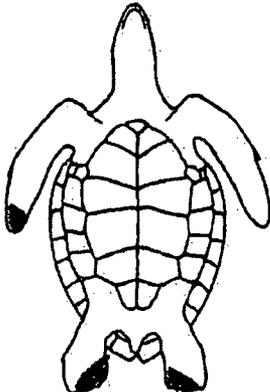
Using callipers

Straight 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
Straight width (Widest Point)	<u>24.7</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Using non-metal measuring tape		Circle unit
Curved length (NOTCH-TIP)	<u>27.7</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>29.0</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
		Circle unit
Weight	<input checked="" type="checkbox"/> actual / <input type="checkbox"/> est.	<u>5.6</u> <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.**

Incidental Capture: impinged on intake grate; animal was lethargic and cold; skin was pink; turtle was dehydrated with sunken eyes; algae covering carapace, head, and plastron; missing tips of RFF, LRF, & RRF; small chip near rear tip of carapace; several small holes in carapace on left rear side near midline; a few tiny barnacles on carapace near front of ridge; no tags;
 11/2/09 - transferred to Riverhead Foundation for longterm treatment



Incidental Take of Sea Turtle (2009-11) at Oyster Creek Nuclear Generating Station

October 30, 2009

