

CATEGORY 1

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 50-302 Crystal River Nuclear Plant, Unit 3, Florida Power Co 05000302
 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389

AUTH. NAME AUTHOR AFFILIATION
 BROWN, J. Commerce, Dept. of, National Oceanic & Atmospheric Administ
 RECIP. NAME RECIPIENT AFFILIATION
 NEWBERRY, S.F.

SUBJECT: Responds to request for info on species protected by
 Endangered Species Act that may occur in vicinity of
 plants. Revised species lists for areas adjacent to plant
 sites encl.

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UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE

Southeast Regional Office
9721 Executive Center Drive N.
St. Petersburg, FL 33702

May 15, 1996

F/SEO13:JEB

Mr. Scott F. Newberry
Director, License Renewal and
Environmental Review Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

50-1302
50-335/389
50-250/251

Dear Mr. Newberry:

This responds to a request by your office for information on species protected by the Endangered Species Act that may occur in the vicinity of the Brunswick Nuclear Project in Southport, North Carolina, the Crystal River Plant, Crystal River, Florida, the St. Lucie Nuclear Plant, Hutchinson Island, Florida, and the Turkey Point Plant, Florida City, Florida. Enclosed are three species lists for the areas adjacent to the plant sites. Species that are highlighted in yellow are the species most likely to be affected by the operation of the plants.

The possible adverse impacts to the listed species under our jurisdiction from the operation of power plants are associated with the entrainment of individual animals in cooling water intakes and with the outflow of warmer-than-ambient temperature waters. The concern over warm water discharge is greatest for the Brunswick Plant near the Cape Fear River. Shortnose sturgeons may be thermally stressed in summer months and additional warming of the waters may be limiting usable habitats for this species.

Currently the National Marine Fisheries Service is consulting with the Nuclear Regulatory Commission (NRC) on the operation of the St. Lucie Power Plant. The NRC completed a biological assessment of the operation of the plant in November 1995 and provided a copy to our office in February 1996.

If you require additional threatened/endangered species information please call me at (813) 570-5312.

Sincerely,

Jeffrey Brown

Jeffrey Brown
Fishery Biologist
Protected Species Management Branch

enclosures

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**Endangered and Threatened Species and Critical Habitats
Under the Jurisdiction of the National Marine Fisheries Service**

Florida - Atlantic Coast

Listed Species	Scientific Name	Status	Date Listed
Marine Mammals			
finback whale	<i>Balaenoptera physalus</i>	Endangered	12/02/70
humpback whale	<i>Megaptera novaeangliae</i>	Endangered	12/02/70
right whale	<i>Eubalaena glacialis</i>	Endangered	12/02/70
sei whale	<i>Balaenoptera borealis</i>	Endangered	12/02/70
sperm whale	<i>Physeter macrocephalus</i>	Endangered	12/02/70
Turtles			
* green sea turtle	<i>Chelonia mydas</i>	Endangered ¹	07/28/78
* hawksbill sea turtle	<i>Eretmochelys imbricata</i>	Endangered	06/02/70
* Kemp's ridley sea turtle (Atlantic)	<i>Lepidochelys kemp</i>	Endangered	12/02/70
leatherback sea turtle	<i>Dermochelys coriacea</i>	Endangered	06/02/70
* loggerhead sea turtle	<i>Caretta caretta</i>	Threatened	07/28/78
Fish			
shortnose sturgeon	<i>Acipenser brevirostrum</i>	Endangered	03/11/67

Species Proposed for Listing

Seagrass			
Johnson's seagrass	<i>Halophila johnsonii</i>	Threatened	

Proposed Critical Habitat

None

Designated Critical Habitat

right whale: Between 31°15'N (approximately the mouth of the Altamaha River, Georgia) and 30°15'N (approximately Jacksonville, Florida) from the coast out to 15 nautical miles offshore; the coastal waters between 30°15'N and 28°00'N (approximately Sebastian Inlet, Florida) from the coast out to 5 nautical miles.

¹ Green turtles are listed as threatened, except for breeding populations of green turtles in Florida and on the Pacific Coast of Mexico, which are listed as endangered.

**Endangered and Threatened Species and Critical Habitats
Under the Jurisdiction of the National Marine Fisheries Service**

Florida - Gulf Coast

Listed Species	Scientific Name	Status	Date Listed
Marine Mammals			
finback whale	<i>Balaenoptera physalus</i>	Endangered	12/02/70
humpback whale	<i>Megaptera novaeangliae</i>	Endangered	12/02/70
right whale	<i>Eubalaena glacialis</i>	Endangered	12/02/70
sei whale	<i>Balaenoptera borealis</i>	Endangered	12/02/70
sperm whale	<i>Physeter macrocephalus</i>	Endangered	12/02/70
Turtles			
* green sea turtle	<i>Chelonia mydas</i>	Endangered ¹	07/28/78
hawksbill sea turtle	<i>Eretmochelys imbricata</i>	Endangered	06/02/70
* Kemp's ridley sea turtle (Atlantic)	<i>Lepidochelys kemp</i>	Endangered	12/02/70
leatherback sea turtle	<i>Dermochelys coriacea</i>	Endangered	06/02/70
* loggerhead sea turtle	<i>Caretta caretta</i>	Threatened	07/28/78
Fish			
gulf sturgeon	<i>Acipenser oxyrhynchus desotoi</i>	Threatened	09/30/91

Species Proposed for Listing

None

Proposed Critical Habitat

None

Designated Critical Habitat

None

¹ Green turtles are listed as threatened, except for breeding populations of green turtles in Florida and on the Pacific Coast of Mexico, which are listed as endangered.

**Endangered and Threatened Species and Critical Habitats
Under the Jurisdiction of the National Marine Fisheries Service**

North Carolina

Listed Species	Scientific Name	Status	Date Listed
Marine Mammals			
finback whale	<i>Balaenoptera physalus</i>	Endangered	12/02/70
humpback whale	<i>Megaptera novaeangliae</i>	Endangered	12/02/70
right whale	<i>Eubalaena glacialis</i>	Endangered	12/02/70
sei whale	<i>Balaenoptera borealis</i>	Endangered	12/02/70
sperm whale	<i>Physeter macrocephalus</i>	Endangered	12/02/70
Turtles			
* green sea turtle	<i>Chelonia mydas</i>	Endangered ¹	07/28/78
hawksbill sea turtle	<i>Eretmochelys imbricata</i>	Endangered	06/02/70
* Kemp's ridley sea turtle (Atlantic)	<i>Lepidochelys kemp</i>	Endangered	12/02/70
leatherback sea turtle	<i>Dermochelys coriacea</i>	Endangered	06/02/70
* loggerhead sea turtle	<i>Caretta caretta</i>	Threatened	07/28/78
Fish			
* shortnose sturgeon	<i>Acipenser brevirostrum</i>	Endangered	03/11/67

Species Proposed for Listing

None

Proposed Critical Habitat

None

Designated Critical Habitat

None

¹ Green turtles are listed as threatened, except for breeding populations of green turtles in Florida and on the Pacific Coast of Mexico, which are listed as endangered.

