**Attachment 44 to**

**GNRO-2012/00039**

**ER Reference—GGNS 2008e (2007 Depredation Report)**

Entergy

Entergy
P.O. Box 756
Port Gibson, MS 39150
Tel 601 437 6978

**Richard Scarbrough**
Chemistry Superintendent
Grand Gulf Nuclear Station

January 25, 2008

Ms. Carmen P. Simonton
U.S. Department of the Interior
Fish and Wildlife Service
Migratory Bird Permit Office
P. O. Box 49208
Atlanta, GA 30359

SUBJECT: Grand Gulf Nuclear Station
Federal Depredation Annual Report, Permit Renewal Request, and Updated Migratory Bird Damage Project Report
Permit No. MB798276-0
LCTS A-35320

GEXO-2008/00003

Dear Ms. Simonton:

As required by your letter dated December 1, 2007, , we are including our Depredation – Annual Report Form, our permit renewal request [which includes the renewal fee of $100.00], and an Updated Migratory Bird Damage Project Report.

If you have any questions, please contact Rusty Shaw at [601] 437-7312 or by email: rshaw1@entergy.com.

Sincerely,

for

Mr. Richard A. Scarbrough
Chemistry Superintendent
Grand Gulf Nuclear Station

RDS

RDS/JML/rds

Attachments: 2007 Depredation Annual Report Form
Permit Renewal Application
$100.00 renewal Fee
Updated Migratory Bird Damage Project Report

cc:
Mr. C.A. Bottemiller w/o
Mr. R.N. Buckley (M-ECH-595) w/a
Ms. Valerie Burton [USDA] w/a
Mr. Elmo Collins [NRC] w/a
File [CHEM]
File [CENTRAL] ( 7 )

# United States Department of the Interior

FISH AND WILDLIFE SERVICE
Migratory Bird Permit Office
P. O. Box 49208
Atlanta, Georgia 30359

DPRD-788276. 03/31/2008
ENTERGY OPERATIONS, INC.
GRAND GULF NUCLEAR STATION
P.O. BOX 756
PORT GIBSON, MS 39150

December 1, 2007

Your Federal Depredation permit will expire on March 31, 2008.

Please indicate if a renewal is desired: X Yes ____No

**RENEWAL PROCEDURES:**

1. Attach a specific description of the damage or other interests harmed over the past year, an estimate of the economic loss suffered as a result, and an estimate of the number of each species involved. See Attachment I

2. Attach a description of the nonlethal control techniques you have used to alleviate or eliminate the problem over the past year, including how long and how often they have been conducted. See Attachment I

3. Enclose a check or money order in the amount of $100. If you are a homeowner requesting a permit for damage to your personal residence or property, enclose $50.00. Federal, State and Municipal government agencies are exempt from the fee requirement.

4. Attach an updated Migratory Bird Damage Report (WS Form 37). This form is completed by U.S. Department of Agriculture, Wildlife Services Program. You may contact the Wildlife Services Program at (866) 487-3297.

5. Complete and return this letter with the attachments and the enclosed Depredation Annual Report by January 31, 2008.

6. Report any changes in the information submitted with your original application including name, address, phone number or location of business.

7. Sign and date this renewal form and send it to the address above.

If this written request for renewal of your permit is **postmarked by March 1, 2008**, you may continue activities authorized by your expired permit until the Service has acted on your request for renewal. (See 50 CFR 13.22) You will be required to submit a new application if you allow your current permit to expire.

***I hereby certify that all information submitted in support of my original application remains current and correct except as changed previously or with this form. I understand any false statement may subject me to the criminal penalties of 18 USC 1001.***

Signature _____ Date 1-25-08

TAKE PRIDE IN AMERICA

## ATTACHMENT I

**Attach a specific description of the damage or other interests harmed over the past year, an estimate of the economic loss suffered as a result, and an estimate of the number of each species involved. [Item 1]:**

Damage primarily results from bird defecation on safety related and similar equipment, such as motors, emergency water reservoirs, piping, card readers, walkways, and stairways, electrical wiring, and cable trays. Also, the increased frequency of visits by employees and security personnel to various areas of this facility resulting from changes implemented since the September 11, 2001, terrorist attacks have increased exposure to bird mites and other potential health effects.

The primary species involved are:

Barn Swallows [Hirundo rustica]
Cliff Swallows [Petrochelidon pyrrhonota]

Swallow nests occur at varying locations and include colonies varying from a few nests to hundreds of nests, depending upon the particular locations.

The actual damage costs to plant equipment have not been determined at this time. The 2007 costs for implementing non-lethal control techniques were approximately $23,000. These techniques include the cleaning, painting, and periodic maintenance of equipment and facility areas subject to debris deposition, defecation, and other damage by birds.

**Attach a description on non-lethal control techniques you have used to alleviate or eliminate the problem over the past year, including how long and how often they have been conducted. [Item 2]:**

Grand Gulf Nuclear Station began implementing non-lethal control techniques in 1994. These include the removal of abandoned nests after the migration is begun and cleaning the nest sites to remove residuals that encourage nesting the following season. Many of these nest sites area also painted to discourage nest rebuilding the next year. In addition, we utilize other non-lethal control techniques such as the periodic relocation of fake predators such as owls, netting, plastic door coverings, noise makers, and wire barricades. In 2007, several areas were pressure washed and painted to control bird activities. These areas included the Standby Service Water Basins, the Radial Wells, the Radial Well Switchgear House, and the Administration Building.

## U.S. FISH & WILDLIFE SERVICE - MIGRATORY BIRD PERMIT OFFICE

P.O. Box 49208, Atlanta, Georgia 30359
404/679-7070

## DEPREDATION - ANNUAL REPORT

**PERMITTEE:** DPRD-798276. 03/31/2008
ENTERGY OPERATIONS, INC.
GRAND GULF NUCLEAR STATION

**ADDRESS:** P.O. BOX 756
PORT GIBSON, MS 39150

City

**PERMIT NUMBER:** MB798276-0

**REPORT FOR CALENDAR YEAR** 2007

**REPORT DUE DATE:** January 31, 2008

**PHONE:** 601-437-7312 **Email:** rshaw1@entergy.com

**Check here if reporting a change of name, address, or contact information**

**INSTRUCTIONS:** Type or print the information requested below for all activities conducted under your permit during the year covered by this report, and return the completed report to the above address by the due date. Use of this form is not mandatory, but the same information must be submitted. A supplemental sheet is available if needed. Filing an annual report is a condition of your permit. Failure to file a timely report can result in permit suspension. If you had no activity under your permit during the report year state "No activity" on the form. **MAKE SURE YOU SIGN & DATE THE CERTIFICATION STATEMENT BELOW BEFORE YOU SUBMIT YOUR REPORT.** (50 CFR parts 13, 21, & 22)

**Please provide a total quantity for each species reported. For instance, if 2 Canada geese were killed during each of 5 months, insert a Total of 10 in Killed column for Canada geese.**

| Species (Common Name) | Month Taken | Location (Town, county, State) | Number of Birds Killed | Number of Birds Relocated* | Numbers of Eggs Taken** | Numbers of Nests Affected | FINAL DISPOSITION (What you did with the birds, eggs, carcasses, e.g., destroyed, released, transferred to whom) |
|---|---|---|---|---|---|---|---|
| No Activity | | | | | | | |
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* Relocated in the wild. ** Taken = destroyed, addled, oiled, removed from wild.

**CERTIFICATION:** I certify that the information in this report is true and correct to the best of my knowledge. I understand that any false statement herein may subject me to the criminal penalties of 18 U.S.C. 1001.

Signature: _____ Date: 1-25-2008

OMB No. 1018-0022 Expires 7/31/2007

FWS form 3-202-9 (Rev 03/2004)

**Report take of double-crested cormorants taken under Depredation Order for Double-crested Cormorants at Aquaculture Facilities (See 50 CFR 21.47)**

U.S. DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
ANIMAL DAMAGE CONTROL

# MIGRATORY BIRD DAMAGE PROJECT REPORT

**1. COOPERATOR NAME, ADDRESS AND TELEPHONE NUMBER (Include business/agency name if appropriate)**
Entergy Operations, Inc.
Grand Gulf Nuclear Station
P.O. Box 756
Port Gibson, MS 39150
TELEPHONE : Work: (601) 437-2288 : Fax: (601) 437-2190

**2. LOCATION OF DAMAGE**
The damage is located at the Grand Gulf Nuclear Station outside of Port Gibson, MS. The Station is approximately 5 miles West of Highway 61 on Bald Hill Road.

**3. COUNTY**
Claiborne

**4. STATE**
Mississippi

**5. RESOURCE**

**A. RESOURCE CATEGORY**
: Agricultural : Natural Resources
X Property X Human Health and Safety

**B. SPECIFIC REOURCES DAMAGED**
Walk ways, door ways, and other safety related systems

**C. NATURE OF DAMAGE**
Droppings and nest debris

**6. DAMAGE ESTIMATE**

**A. QUANTITY OF LOSS AND UNIT OF MEASURE (Pounds Acres, Each, etc.)**
Five Locations are being impacted, walk ways, door ways, and safety related systems. Droppings and nesting debris are the nature of the damage.

**B. DOLLAR LOSS (If applicable)**
Per Unit
: Total $23,000 /annually

**c. LOSS CONFIRMED BY ADC**
X Yes :No

**D. DURATION/TIME PERIOD OF DAMAGE**
Annual/Seasonal

**E. DATE ASSISTANCE REQUEST RECEIVED**
January 10, 2008

**F. DATE OF INVESTIGATION**
January 10, 2008

**INVESTIGATION TYPE**
: Site Visit X Telephone
X Letter : Other

**7. MIGRATORY BIRD SPECIES**

| A. DEPREDATING SPECIES | B. NUMBER INVOLVED | C. COMMENTS |
|---|---|---|
| Cliff Swallows | 3000-5000 | Numbers involved are an estimate of possible daily averages of each species as reported by cooperator at the site and applicable habitat. Occurrence and abundance of each species can be annual and/or seasonal. The number of individuals for any species listed may be much greater than the estimate during a given time period. |
| Barn Swallows | 3000-5000 | |
| | | |
| | | |

**8. ADC ASSISTANCE PROVIDED**

**A. TYPE OF ASSISTANCE PROVIDED**
Direct Control : Equipment Loan :Other (Specify)
X Technical Assistance Supplies

**B. RECOMMENDED ACTION(S)**
X Harassment or hazing techniques Lethal trapping Trap and relocate
X Habitat alteration and/or barriers X Shooting X Other (Specify): nest destruction, suitable euthanasia of birds, and egg destruction

**C. METHODS ATTEMPTED,RESULTS,COMMENTS:**
Methods attempted include painting structures with special clear coat paint that the mud from nests will not stick to, power washing nests, installing aluminum sheet metal, and adding insulation to prevent swallows from coming into overhang. These attempts have not prevailed. $23,000 was spent in 2007 in attempt to prevent birds from nesting.

**9. DEPREDATION PERMIT**

ADC RECOMMENDS PERMIT BE ISSUED: X Yes No
If "Yes" suggested conditions of permit:

| Species | Number to be taken |
|---|---|
| Cliff Swallows / eggs.- nests | 200 / 200 |
| Barn Swallow / eggs - nests | 200 / 200 |

**10. ADC INVESTIGATOR NAME AND ADDRESS (Print)**
Valerie Burton
USDA/APHIS/Wildlife Services
P.O. Box 316
Stoneville, MS 38776
TELEPHONE: (662) 686-3157

**11. ADC INVESTIGATOR'S SIGNATURE**

**12. FOR USE BY DEPREDATION PERMIT AGENCY**

ADC FORM 37 (DEC 90)