OPERATION, MAINTENANCE, AND REHABILITATION
PLAN FOR POINT AU FER ISLAND HYDROLOGIC
RESTORATION PROJECT
TE-22

April 24, 2002

Prepared by:
Louisiana Department of Natural Resources
Coastal Restoration Division
Baton Rouge, Louisiana

and

Pyburn & Odom, Inc.
8178 GSRI Avenue
Baton Rouge, Louisiana 70820
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Attachment III. Project Features
Attachment IV. Final Report
Attachment V. Construction Drawings
Attachment VI. Project Permits and Permit Amendments
Attachment VII. Maintenance and Rehabilitation Budget
Attachment VIII. Annual Inspections
History of Revisions

02/01/2001  Pyburn & Odom submit draft plan to LDNR.

02/28/2003  O&M Plan finalized

09/2005     Amendment to Attachment IV to include the 2003 Breach Repair Project-Completion Report

10/04/2005  Amendment to Attachment V to include the 2003 Breach Repair Project - Asbuilt Drawings
OPERATIONS, MAINTENANCE, AND REHABILITATION PLAN FOR THE
POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT
(TE-22)

The Louisiana Department of Natural Resources (LDNR) and the United States Department of Commerce National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS) agree to carry out the terms of this plan for the Operation, Maintenance, Repair and Rehabilitation Plan (hereinafter referred to as the “Plan”) of the accepted completed project features in accordance with the U.S. Department of Commerce NOAA Cooperative Agreement No. NA 47FZ0099 with LDNR awarded January 1, 1994, with amendments effective January 1, 1996 (Amendment No.1), July 1, 1996 (Amendment No.2), January 1, 1997 (Amendment No.3) and February 1, 1997 (Amendment No.4). The Cooperative Agreement No. NA47FZ0099 initiating Phase I and II of the Point Au Fer Project is shown in Attachment I. Phase III of the Point Au Fer Island Hydrologic Restoration Project was funded under Cooperative Agreement No. NA97FZ0485. This agreement is also included in Attachment I. The Memorandum of Agreement between LDNR, NOAA and the U.S. Corps of Engineers fully executed February 10, 1999 specifies the arrangement between parties to execute and fund long-term project activities, i.e. operation and maintenance, and monitoring is shown in Attachment II.

Construction of Point Au Fer Island Hydrologic Restoration Project was authorized by Section 303(a) of Title III Public Law 101-646, the Coastal Wetlands Planning Protection and Restoration Act (CWPPRA) enacted on November 29, 1990 as amended. The Point Au Fer Project was approved on the second (2nd) Priority Project List.

The project features covered by this plan are inclusive of and are identified as the Point Au Fer Island Hydrologic Restoration Project (TE-22). The intention of the provisions of this Plan is to maintain this project in a condition that will generally provide the anticipated benefits that the project was based on. There is no requirement that this project function to any standard beyond the 20-year economic life; except that it is not left as a hazard to navigation or a detriment to the environment.

The property associated with the Point Au Fer Project is owned by the Terrebonne Parish School Board, Point Au Fer L.L.C., and the Roman Catholic Church of the Arch Diocese of New Orleans.
1. **PROJECT DESCRIPTION, PURPOSE, AND LOCATION**

The Point Au Fer Hydrologic Restoration Project encompasses 5,230 acres of intermediate and brackish marsh and open water on Point Au Fer Island approximately 30 miles south of Morgan City, Louisiana, in Terrebonne Parish. Point Au Fer Island lies approximately six(6) miles southeast of the mouth of the Atchafalaya River. The island is bordered by the Gulf of Mexico to the south, Atchafalaya Bay to the west, Four League Bay to the north and northeast and Oyster Bayou tidal pass to the east. The marsh habitat on the island is predominantly brackish marsh with intermediate marsh in the interior of the island. Certain areas of Point Au Fer had become weakened and avenues for saltwater intrusion from the Gulf of Mexico are threatening. The Mobil Canal levee (Area 2) was breached during Hurricane Andrew and the Transco Canal (Area 1) was almost breached into the Gulf of Mexico. This project was constructed to reduce the potential for storm surges and high tides penetrating the canal in Area 1, thereby decreasing the salinities in the surrounding marsh and to prevent the repeat breaching of the shoreline between the Gulf of Mexico and Mobile Canal. A project map showing the project features is included in Attachment III.

The Point Au Fer Island Hydrologic Restoration Project was constructed in three (3) phases. Phase I consisted of seven(7) plugs, five (5) of these plugs were of timber construction and two(2) of the plugs were reef shell construction.

Phase II consisted of rock shoreline protection of Areas 1 and 2 along the Gulf of Mexico adjacent to Mobil Canal and near the end of Locust Bayou.

Phase III consisted of adding an additional lift of rock to the shoreline protection placed in Phase II, extending the rock approximately 3,000 linear feet to the east and 600 linear feet to the west, and reconstruction of Plug #4 using the reef shell remaining in the canal and armoring Plug#4 with prefabricated articulated concrete mats.

The project has a twenty-year (20-year) economic life which began in May 1999.

The principal project features include:

**Phase I:** Construction of timber and shell plugs in the Hester and Transco pipeline canal.
- Plug No.1.- Timber pile construction located at the west end of Hester Canal near Mosquito Bay.
- Plug No. 2.-Timber pile construction located in Hester Canal just west of Transco Canal.
- Plug No. 3.- Reef shell construction located in the Transco Canal north of the Hester Canal.
- Plug No. 4.- Reef shell construction located in Transco Canal at the Gulf of Mexico end.
- Plug No. 6.-Timber pile construction located in Transco Canal just south of Hester Canal.
• Plug No. 7.- Timber pile construction located in Hester Canal just east of Transco Canal.
• Plug No. 8.- Timber pile construction located at the east end of Hester Canal Near Bay Castagnier.

(Note: During construction, modifications were made to drawings for the installation of additional piles to plugs No. 1, 2 and 7.)

Phase II: 3,500 LF. of rock shoreline protection of the beach separating the Gulf Of Mexico from the Mobil Canal and Locust Bayou.

• Area 1 - 1,800 LF of rock dike protecting the beach long the Gulf of Mexico separating Mobil Canal and the Gulf.
• Area 2 - 400 LF of rock dike protecting the beach along the Gulf of Mexico near the end of Locust Bayou.
• Between Area 1 and Area 2 - 1,300 LF of rock dike along the shoreline of the Gulf between Area 1 and Area 2 which was constructed with funds provided by Mobil paid directly to the contractor.

Phase III: Modifications/additions to the rock shoreline protection of the beach separating the Gulf of Mexico from the Mobil Canal, including extending the existing rock structure 600 LF on the west end, 3,000 LF on the east end, and adding an additional 16" lift to the existing rock structure placed in Phase II.

Modification/reconstructing shell Plug 4 and armoring the plug with 125 prefabricated, articulated concrete mats.

2. CONSTRUCTION COMPLETION

Project completion reports for the Point Au Fer Island Hydrologic Restoration Project were never completed. However, upon completion of construction, LDNR had prepared a Final Report for the project which is included in Attachment IV. As-built drawings updated with all field changes and modifications that occurred during construction are included in Attachment V.

3. PROJECT PERMITS

Project permit applications were completed and submitted to appropriate agencies and permits were received prior to construction. These permits and permit amendments are included within Attachment VI.
4. ITEMS REQUIRING MAINTENANCE AND REHABILITATION

The following completed structural components project features jointly accepted by LDNR and NMFS will require maintenance, repair, and/or rehabilitation throughout the twenty (20) year life of the project.

**Phase I:** Timber and shell plugs located in the Hester and Transco Pipeline Canals.

A. Site/Canal Plug No. 1 - 200 LF timber plug across the Hester Canal, consisting of timber piles, timber batter piles, wood walers, and 2" x 8" wood sheet pile, metal bolted components, creosote treated galvanized pile caps, shell backfill, and warning signs.

B. Site/Canal Plug No. 2 - 270 LF timber plug across the Hester Canal, consisting of timber piles, timber batter piles, wood walers, and 2" x 8" wood sheet piles, metal bolted components, creosote treated galvanized pile caps, shell backfill, and warning signs.

C. Site/Canal Plug No.3A - 240.5 LF shell plug across the Transco Canal consisting of reef shell construction and warning signs.

D. Site/Canal Plug No.4 - 136 LF shell plug across the Transco Canal consisting of reef shell construction core armored with 125 prefabricated, articulated concrete mats and warning signs.

E. Site/Canal Plug No.6 - 180 LF timber plug, across the Transco Canal consisting of timber piles, wood walers and 2"x 8" wood sheet piles, metal bolted components, creosote treated galvanized pile caps, shell backfill, and warning signs.

F. Site/Canal Plug No.7 - 200 LF timber plug, across the Hester Canal consisting of timber piles, timber batter piles, wood walers and 2"x 8" wood sheet piles, metal components, creosote treated galvanized pile caps, shell backfill, and warning signs.

G. Site/Canal Plug No.8 - 180 LF timber plugs, across the Hester Canal, consisting of timber piles, wood walers and 2"x 8" wood sheet piles, metal bolted components, creosote treated galvanized pile caps, shell backfill, and warning signs.

**Phase II and Phase III:** Shoreline Protection consisting of 7,500 LF of rock structure, 32 inches of 250 lb rip-rap. Armament stone underlain by a woven geotextile fabric approximately 25 feet wide.
Navigational Aids:
Where applicable, project navigation aids and warning signs shall be inspected and maintained for the twenty year (20) project life.

5. OPERATION AND MAINTENANCE BUDGET

Phase I and II - cost associated with the Operation and Maintenance of project features outlined in Section 4 for the twenty year (20) project life were provided for in Cooperative Agreement No. NA47FZ0099 and are shown in Attachment VII.

Phase III - Cooperative Agreement No. NA97FZ0485 initiated for Phase III of the Point Au Fer Island Project does not provide funds for operation and maintenance.

6. RESPONSIBILITIES-MAINTENANCE AND REHABILITATION

A. LDNR will:

1. In accordance with the Cooperative Agreement Nos. NA47FZ0099 and NA97FZ0485, assume all responsibilities for maintenance and rehabilitation of the accepted completed project features identified in Section 4.

2. Conduct joint site inspections with NMFS of the project site at least annually and after major storm events if determined to be necessary by LDNR and/or NMFS. LDNR will submit to NMFS, a report detailing the condition of the project features and recommendations for any corrective action. If LDNR recommends that corrective actions are needed, the report will include the entire estimated cost for engineering and design, supervision and inspection, construction, contingencies, and the urgency of such action.

3. Perform or have performed any corrective actions needed, if such corrective actions have been approved by LDNR or NMFS. NMFS will participate with LDNR, or its appointed representative, in the engineering and design phases of the corrective actions for the project. Oversight engineering and construction of the corrective actions for the project will be the responsibility of LDNR or its appointed representative. At least thirty (30) calendar days prior to the date of formal request for construction bids, LDNR or its appointed representative shall provide NMFS with final copies of all project corrective action designs and specifications for review and concurrence by NMFS. LDNR or its appointed representative shall approve the final designs and specifications prior to proceeding with bid solicitations on all project corrective action construction contracts in coordination with NMFS. Any plan and/or
specification changes both before and after award of construction contracts, shall be approved by LDNR in coordination with NMFS.

4. The DNR and NMFS representatives shall meet as necessary during the periods of construction to address any corrective actions needed and shall make such recommendations as they deem necessary.

5. Facilitate the Federal contribution towards operation and maintenance activities as specified in the Memorandum of Agreement between LDNR, NMFS and the U.S. Corps of Engineers.

B. NMFS will:

1. Conduct joint site inspections with LDNR of the project site at least annually and after major storm events if determined to be necessary by LDNR or NMFS.

2. Provide guidance for the development of plans and implementation of the project, review final copies of any maintenance and rehabilitation project designs and specifications and provide review and approval of all planning and construction details, prior to formal request for construction bids or any corrective actions for the project.

3. Provide a total contribution equal to the amount outlined in the Cooperative Agreement (Cost Sharing Agreement) for the maintenance and rehabilitation cost needed for the twenty (20) year life of the project.

4. Facilitate the Federal contribution towards operation and maintenance activities as specified in the Memorandum of Agreement between LDNR, NMFS and the U.S. Corps of Engineers.
The undersigned parties, acting on behalf of their respective agencies, agree to operate, maintain, and rehabilitate the Point Au Fer Island Hydrologic Restoration Project (TE-22) according to this document, referenced Cooperative Agreement, plans, and all applicable permits and laws.

UNITED STATES DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE

By: [Signature] Date: 2/13/03
Title: Program Manager

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

By: [Signature] Date: 2/28/03
Title: Deputy Assistant Secretary
ATTACHMENT I

POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

COOPERATIVE AGREEMENT
March 10, 1997

Rimas T. Liogys, Team Leader
Grants Management Division
U.S. Department of Commerce, NOAA
1325 East-West Highway
SSMC2 - OFA521 - Fifth Floor
Silver Spring, Maryland 20910-3283

RE: NOAA Award No. NA47FZ0099

Dear Mr. Liogys:

Enclosed are two signed originals of Amendment No. 4 to the above referenced agreement, as requested in your letter dated February 28, 1997.

If you have any questions or need additional information, please contact Karen Lewis at (504) 342-4539.

We appreciate NOAA staff assistance in obtaining approval of this amendment.

Sincerely,

Cheryl Y. Bennett
Contracts & Grants Administrator

CYB/KYL/kfh

Enclosures

C: Brian Kendrick, Coastal Restoration Division
   Verlie Wims, Fiscal Officer
AMENDMENT TO
FINANCIAL ASSISTANCE AWARD

RECIPIENT NAME
LOUISIANA DEPT OF NATURAL RESOURCES

STREET ADDRESS
P.O. BOX 94396
STATE LAND AND NATURAL RESOURCES BUILDING
CITY, STATE, ZIP CODE
BATON ROUGE, LOUISIANA  70804-9396

DEPARTMENT OF COMMERCE OPERATING UNIT
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

COSTS ARE REVISED AS FOLLOWS:

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1. To provide supplemental funds in the amount of $140,000, for the project entitled 'Point Au Fer Island Hydrologic Restoration Project (PTE-22/24)', as requested in the Recipient's application dated December 12, 1996, and revision by letter dated February 13, 1997, incorporated by reference.

2. To revise and add NOAA Administrative Special Award Conditions.

3. To revise the Statutory Authority to 16 USC 3951 et seq. and P.L. 104-303.

This Amendment approved by the Grants Officer is issued in triplicate and constitutes an obligation of Federal funding. By signing the three documents, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. Upon acceptance by the Recipient, two signed Amendment documents shall be returned to the Grants Officer and the third document shall be retained by the Recipient. If not signed and returned by the Recipient within 15 days of receipt, the Grants Officer may declare this Amendment null and void.

☑ Special Award Conditions    (ATTACHMENT B [X] ADMINISTRATIVE [ ] PROGRAMMATIC)
☑ Line Item Budget    (ATTACHMENT A)
☐ Other(s):

SIGNATURE OF DEPARTMENT OF COMMERCE GRANTS OFFICER
[Signature]

TYPOED NAME AND SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL
[Typewritten Name]

TITLE
NOAA GRANTS OFFICER
DATE
2/8/97

TITLE
DNR Secretary
DATE
3/10/97
## BUDGET INFORMATION — Construction Programs

**NOTE:** Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case you will be notified.

### COST CLASSIFICATION

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<td>15. Project (program) income</td>
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<td>16. TOTAL PROJECT COSTS (subtract #15 from #14)</td>
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### FEDERAL FUNDING

17. Assistance requested, calculate as follows:

   Enter eligible costs from line 16c

   Multiply $195,000 \times \frac{71.7949}{100} = \text{Federal share}

   Phase I = $0

   Phase II = $195,000

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*OMB Approved No. 0348-0041*
ATTACHMENT B
AWARD NO. NA47FZ0099
AMENDMENT NO. 4

NOAA ADMINISTRATIVE
SPECIAL AWARD CONDITIONS

(Revise) 3. The Budget Period for this amendment is February 1, 1997, through June 30, 1997.

(Revise) 4. Since this award requires the Recipient to provide $389,250 (27%) in project-related matching costs from non-Federal sources, the Recipient must maintain in its official accounting records an accounting for $1,441,540.

(Add) 25. When issuing statements, press releases, requests for proposals, bid solicitations and other documents describing projects or programs funded in whole or in part with Federal money, all grantees receiving Federal funds, including but not limited to State and local governments and Recipients of Federal research grants, shall clearly state (1) the percentage of the total costs of the project or program which will be financed with Federal money, (2) the dollar amount of Federal funds for the project or program, and (3) percentage and dollar amount of the total costs of the project or program that will be financed by nongovernmental sources.

(Add) 26. Notwithstanding Department of Commerce Financial Assistance Standard Terms and Conditions A.04c and A.05.b, the Recipient may transfer funds between direct costs and indirect costs if all of the following conditions apply:

(a) If a transfer of funds among direct cost categories in accordance with Department of Commerce Financial Assistance Standard Term and Condition A.04b would result in a revision to the amount of indirect costs approved in the line item budget;

(b) If the authorized transfer of funds and the adjustment of the amount of indirect costs do not exceed the approved total project costs;

(c) If the indirect cost rate does not change; and

(d) If the adjustment of the amount of indirect costs does not result in a change to the approved scope of work of the award.

[10/95]
AMENDMENT TO
FINANCIAL ASSISTANCE AWARD

RECIPIENT NAME
LOUISIANA DEPT OF NATURAL RESOURCES

STREET ADDRESS
P.O. BOX 94396
STATE LAND AND NATURAL RESOURCES BUILDING
Baton Rouge, Louisiana 70804-9396

DEPARTMENT OF COMMERCE OPERATING UNIT
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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REASON(S) FOR AMENDMENT

1. To extend the award completion date for six months through June 30, 1997, for the project entitled, 'Point Au Fer Island Plugs (PTE-22/24)', as requested in the Recipient's letters dated August 30, September 19, and November 1, 1996, which are incorporated by reference and the Program Officer's recommendations dated September 10, and October 4, 1996.

2. To revise NOAA Administrative Special Award Conditions.

This Amendment approved by the Grants Officer is issued in triplicate and constitutes an obligation of Federal funding. By signing the three documents, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. Upon acceptance by the Recipient, two signed Amendment documents shall be returned to the Grants Officer and the third document shall be retained by the Recipient. If not signed and returned by the Recipient within 15 days of receipt, the Grants Officer may declare this Amendment null and void.

☐ Special Award Conditions (ATTACHMENT B) [X] ADMINISTRATIVE [ ] PROGRAMMATIC

☐ Line item Budget (ATTACHMENT A)

☐ Other(s):

SIGNATURE OF DEPARTMENT OF COMMERCE GRANTS OFFICER

NOAA GRANTS OFFICER

DATE

NOV 6 1996

TYPE NAME AND SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL

SECRETARY

DATE

11/18/96
# AMENDMENT TO FINANCIAL ASSISTANCE AWARD

**RECIPIENT NAME**
LOUISIANA DEPT OF NATURAL RESOURCES

**STREET ADDRESS**
P.O. BOX 94396
STATE LAND AND NATURAL RESOURCES BUILDING
Baton Rouge, Louisiana 70804-9396

**DEPARTMENT OF COMMERCE OPERATING UNIT**
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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- Special Award Conditions (ATTACHMENT B [X] ADMINISTRATIVE [ ] PROGRAMMATIC)
- Line Item Budget (ATTACHMENT A)
- Other(s):

**SIGNATURE OF DEPARTMENT OF COMMERCE GRANTS OFFICER**
Kris Johnson

**TITLE**
NOAA GRANTS OFFICER

**DATE**
NOV 6 1996

**TYPOGRAPHIC NAME AND SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL**

**TITLE**

**DATE**
## BUDGET INFORMATION — Construction Programs

**NOTE:** Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case you will be notified.

### COST CLASSIFICATION

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<th>c. Total Allowable Costs (Column a-b)</th>
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<td>1. Administrative and legal expenses</td>
<td>$5,000</td>
<td>$0.00</td>
<td>$5,000</td>
</tr>
<tr>
<td>2. Land, structures, rights-of-way, appraisals, etc.</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>3. Relocation expenses and payments</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>4. Architectural and engineering fees</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>5. Other architectural and engineering fees</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>6. Project Inspection fees</td>
<td>$10,000</td>
<td>$0.00</td>
<td>$10,000</td>
</tr>
<tr>
<td>7. Site work</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>8. Demolition and removal</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>9. Construction</td>
<td>$285,658</td>
<td>$0.00</td>
<td>$285,658</td>
</tr>
<tr>
<td>10. Equipment</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>11. Miscellaneous (Phase III Monitoring)</td>
<td>$49,430</td>
<td>$0.00</td>
<td>$49,430</td>
</tr>
<tr>
<td>12. SUBTOTAL</td>
<td>$350,088</td>
<td>$0.00</td>
<td>$350,088</td>
</tr>
<tr>
<td>13. Contingencies (sum of lines 1-11)</td>
<td>$0.00</td>
<td>$0.00</td>
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<tr>
<td>14. SUBTOTAL</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>15. Project (program) income</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>16. TOTAL PROJECT COSTS (subtract #15 from #14)</td>
<td>$350,088</td>
<td>$0.00</td>
<td>$350,088</td>
</tr>
</tbody>
</table>

### FEDERAL FUNDING

17. Federal assistance requested, calculate as follows: Enter eligible costs from line 16c Multiply X 74.0% (Consult Federal agency for Federal percentage share). Enter the resulting Federal share.

$$ 257,387.00 $$

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Standard Form 444-C (4-88)  
Precribed by OMB Circular A-110
(Revise) 2. The Project Period for this award is January 1, 1994, through June 30, 1997.

(Revise) 3. The Budget Period for this amendment is January 1, 1997, through June 30, 1997.
August 19, 1996

Patricia A. Rauch, Team Leader
Grants Management Division
U.S. Department of Commerce, NOAA
1325 East-West Highway
SSMC2 - OA321 - Fifth Floor
Silver Spring, Maryland 20910-3283

RE: NOAA Award No. NA47FZ0099

Dear Ms. Rauch:

Enclosed are two signed originals of Amendment No. 2 to the above referenced agreement, as requested in your letter dated August 2, 1996, received in this office on August 7, 1996. Also enclosed are the Department's indirect cost rates which were approved by the U.S. Department of Environmental Protection in June of 1996.

If you have any questions or need additional information, please contact Karen Lewis at (504) 342-4539.

We appreciate NOAA staff assistance in obtaining approval of this amendment.

Sincerely,

Cheryl Y. Bennett
Contracts & Grants Administrator

CYB/kyl
Enclosure

c: Van Cook, Coastal Restoration Division
    Verlie Wims, Fiscal Officer
# Amendment to Financial Assistance Award

**Recipient Name:** Louisiana Dept of Natural Resources

**Street Address:** P.O. Box 94396

**State Land and Natural Resources Building**

**City, State, Zip Code:** Baton Rouge, Louisiana 70804-9396

**Department of Commerce Operating Unit:** National Oceanic and Atmospheric Administration

### Costs are Revised as Follows:

<table>
<thead>
<tr>
<th></th>
<th>Previous Estimated Cost</th>
<th>Add</th>
<th>Deduct</th>
<th>Total Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Share of Cost</td>
<td>$724,740</td>
<td>$187,550</td>
<td>$0</td>
<td>$912,290</td>
</tr>
<tr>
<td>Recipient Share of Cost</td>
<td>$267,400</td>
<td>$66,850</td>
<td>$0</td>
<td>$334,250</td>
</tr>
<tr>
<td>Total Estimated Cost</td>
<td>$992,140</td>
<td>$254,400</td>
<td>$0</td>
<td>$1,246,540</td>
</tr>
</tbody>
</table>

---

**Reason(s) for Amendment:**

To provide additional funding for the project entitled 'Point Au Fer Island Plugs (PTE-22/24)', as requested in the recipient's application dated June 20, 1996, and revised by letter dated July 19, 1996, incorporated by reference.

1. To acknowledge compliance with NOAA Programmatic Special Award Conditions numbers 1 & 2.

2. To revise NOAA Administrative Special Award Conditions.

This Amendment approved by the Grants Officer is issued in triplicate and constitutes an obligation of Federal funding. By signing the three documents, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. Upon acceptance by the Recipient, two signed Amendment documents shall be returned to the Grants Officer and the third document shall be retained by the Recipient. If not signed and returned by the Recipient within 15 days of receipt, the Grants Officer may declare this Amendment null and void.

- [X] Special Award Conditions (ATTACHMENT B)
- [X] Administrative Programmatic (ATTACHMENT A)
- [ ] Other(s):

---

**Signature of Department of Commerce Grants Officer:**

[Signature]

**Title:** NOAA Grants Officer

**Date:** Aug 2, 1996

**Typed Name and Signature of Authorized Recipient Official:**

[Signature]

**Title:** Secretary

**Date:** 8/19/96
## BUDGET INFORMATION — Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case you will be notified.

<table>
<thead>
<tr>
<th>COST CLASSIFICATION</th>
<th>Grant Supplement</th>
<th>b. Costs Not Allowable for Participation</th>
<th>c. Total Allowable Costs (Column a-b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Administrative and legal expenses</td>
<td>$10,000</td>
<td>$</td>
<td>$10,000</td>
</tr>
<tr>
<td>2. Land, structures, rights-of-way, appraisals, etc.</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>3. Relocation expenses and payments</td>
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<td>$</td>
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<td>$</td>
<td>$</td>
</tr>
<tr>
<td>5. Other architectural and engineering fees</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>6. Project inspection fees</td>
<td>$40,000</td>
<td>$</td>
<td>$40,000</td>
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<tr>
<td>7. Site work</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>8. Demolition and removal</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>9. Construction</td>
<td>$204,400</td>
<td>$</td>
<td>$204,400</td>
</tr>
<tr>
<td>10. Equipment</td>
<td>$</td>
<td>$</td>
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</tr>
<tr>
<td>11. Miscellaneous</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
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<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>13. Contingencies (sum of lines 1-11)</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>14. SUBTOTAL</td>
<td>$254,400</td>
<td>$</td>
<td>$254,400</td>
</tr>
<tr>
<td>15. Project (program) income</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>16. TOTAL PROJECT COSTS (subtract #15 from #14)</td>
<td>$254,400</td>
<td>$</td>
<td>$254,400</td>
</tr>
</tbody>
</table>

### FEDERAL FUNDING

Enter eligible costs from line 16c

- Phase I = 0
- Phase II = $254,400
- Phase III = 0

Multiply $254,400 by 23.4% to determine Federal Share.

- Phase II - Admin. = 13,000
- Total Federal Share = $267,400

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Standard Form 424C (4-83) [Redacted by OMB Circular A-102]
NOAA ADMINISTRATIVE
SPECIAL AWARD CONDITIONS

(Revise) 3. The Budget Period for this amendment is July 1, 1996, through December 31, 1996.

(Revise) 4. Since this award requires the Recipient to provide $334,250 (26%) in project-related matching costs from non-Federal sources, the Recipient must maintain in its official accounting records an accounting for $1,246,540.

(Revise) 16. The recipient will be required to obtain approval before making any substantive changes in the project objectives, methods, budget, or schedule, (except provided by Expanded Authorities). Requests for changes shall be submitted in writing to the Program Officer. Final approval will be issued in writing by the Grants Officer. The Recipient is not authorized to proceed with any changes until final written approval is received from the Grants Officer.
DEPARTMENT OF NATURAL RESOURCES

March 26, 1996

Patricia A. Rauch, Team Leader
Grants Management Division
U. S. Department of Commerce, NOAA
1325 East West Highway
SSMC2 - OA321 - Fifth Floor
Silver Spring, Maryland 20910-3283

RE: NOAA Award No. NA47FZ0099

Dear Ms. Rauch:

Enclosed are two signed originals of Amendment No. 1 to the above referenced agreement, as requested in your letter dated March 4, 1996, received in this office March 11, 1996.

We appreciate NOAA staff assistance in obtaining approval of this amendment.

Sincerely,

Cheryl Y. Bennett
Contracts and Grants Administrator

Enclosures

c: Tim Osborn, NMFS
   Van Cook, Coastal Restoration Division
   Verlie Wims, Fiscal Officer
AMENDMENT TO
FINANCIAL ASSISTANCE AWARD

RECIPIENT NAME
LOUISIANA DEPT OF NATURAL RESOURCES

STREET ADDRESS
P.O. BOX 94396
STATE LAND AND NATURAL RESOURCES BUILDING
CITY, STATE, ZIP CODE
BATON ROUGE, LOUISIANA 70804-9396

DEPARTMENT OF COMMERCE OPERATING UNIT
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

COSTS ARE REVISED AS FOLLOWS:

<table>
<thead>
<tr>
<th></th>
<th>PREVIOUS ESTIMATED COST</th>
<th>ADD</th>
<th>DEDUCT</th>
<th>TOTAL ESTIMATED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEDERAL SHARE OF COST</td>
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<td>-0-</td>
<td>-0-</td>
<td>$724,740</td>
</tr>
<tr>
<td>RECIPIENT SHARE OF COST</td>
<td>$267,400</td>
<td>-0-</td>
<td>-0-</td>
<td>$267,400</td>
</tr>
<tr>
<td>TOTAL ESTIMATED COST</td>
<td>$992,140</td>
<td>-0-</td>
<td>-0-</td>
<td>$992,140</td>
</tr>
</tbody>
</table>

☐ FOR AMENDMENT

1. To extend the award completion date through December 31, 1996 for the project entitled 'Point Au Fer Island Plugs (PTE-22/24)', as requested in the Recipient's letter dated February 7, 1996, incorporated by reference, and the Program Officer's recommendation.

2. To revise and incorporate NOAA Administrative Special Award Conditions.

3. To incorporate revised Department of Commerce Financial Assistance
   (CONTINUED ON NEXT PAGE FOR ADDITIONAL REASONS FOR AMENDMENT)

This Amendment approved by the Grants Officer is issued in triplicate and constitutes an obligation of Federal funding. By signing the three documents, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. Upon acceptance by the Recipient, two signed Amendment documents shall be returned to the Grants Officer and the third document shall be retained by the Recipient. If not signed and returned by the Recipient within 15 days of receipt, the Grants Officer may declare this Amendment null and void.

☐ Special Award Conditions  (ATTACHMENT B [X] ADMINISTRATIVE [] PROGRAMMATIC)
☐ Line Item Budget  (ATTACHMENT A)
☐ Other(s): DOC Financial Asst, Standard Terms & Conditions dtd 3/95 (ATTACHMENT C), and OMB Circular A-87

☐ OF DEPARTMENT OF COMMERCE GRANTS OFFICER
Title: NOAA GRANTS OFFICER
Date: 3/21/96

☐ TYPED NAME AND SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL
Title: Secretary
Date: 3/21/96
ASONS FOR AMENDMENT:


4. To incorporate revised OMB Circular A-87, effective September 1, 1995.
NOAA ADMINISTRATIVE
SPECIAL AWARD CONDITIONS

(Revise) 2. The Project Period for this award is January 1, 1994, through December 31, 1996.

(Revise) 3. The Budget Period for this amendment is January 1, 1996, through December 31, 1996.

(New) 23. Recipients are hereby notified that they are encouraged, to the greatest extent practicable, to purchase American-made equipment and products with funding provided under this award.

(New) 24. Pursuant to Executive Order 12889, the Department of Commerce, (DoC) is required to notify the owner of any valid patent covering technology whenever the DoC or its financial assistance Recipients, without making a patent search, knows (or has demonstrable reasonable grounds to know) that technology covered by a valid United States patent has been or will be used without a license from the owner. To ensure prior notification, if the Recipient uses or has used patented technology under this award without a license or permission from the owner, the Recipient must notify the DoC Patent Counsel at the following address, with a copy to the Grants Officer:

Department of Commerce
Office of Chief Counsel for Technology
Patent Counsel
14th Street and Constitution Avenue, N.W.
Room H-4610
Washington, D.C. 20230

The notification shall include the following information:

- the award number
- the name of the DoC awarding agency
- a copy of the patent
- a description of how the patented technology was used
- the name of the Recipient contact, including an address and telephone number
March 11, 1994

Jean B. West, Chief
Grants Operation Branch
1325 East-West Highway
SSMC2 - OA321 - Fifth Floor
Silver Spring, MD 20910

RE: NOAA Award No. NA47PZ0099

Dear Ms. West:

Enclosed are two signed originals of the above referenced award, as requested in your letter dated February 17, 1994, received in our office February 25, 1994.

We appreciate NOAA staff assistance in obtaining approval of this cooperative agreement.

Sincerely,

Cheryl Y. Bennett
Contracts and Grants Administrator

CYB/lhb
Enclosure

c: Verlie Wims, Fiscal Officer
    Bill Good, Coastal Restoration Division Administrator
**FINANCIAL ASSISTANCE AWARD**

**RECIPIENT NAME**
Louisiana Department of Natural Resources

**STREET ADDRESS**
Coastal Restoration Division, P.O. Box 94396

**CITY, STATE, ZIP CODE**
Baton Rouge, Louisiana 70804

**AWARD PERIOD**
January 1, 1994, through December 31, 1995

**DEPARTMENT OF COMMERCE OPERATING UNIT**
National Oceanic and Atmospheric Administration

**AUTHORITY**

**PROJECT TITLE**
Point Au Fer Island Plugs (PTE-22/24)

---

This Award approved by the Grants Officer is issued in triplicate and constitutes an obligation of Federal funding. By signing the three documents, the Recipient agrees to comply with the Award provisions checked below and attached. Upon acceptance by the Recipient, two signed Award documents shall be returned to the Grants Officer and the third document shall be retained by the Recipient. If not signed and returned by the Recipient within 15 days of receipt, the Grants Officer may declare this Award null and void.

- Department of Commerce Financial Assistance Standard Terms and Conditions (ATTACHMENT C)
- Special Award Conditions (ATTACHMENT B, ☒ Administrative ☐ Programmatic)
- ☒ Line Item Budget (ATTACHMENT A)
- ☐ OMB Circular A-21, Cost Principles for Educational Institutions
- ☒ OMB Circular A-87, Cost Principles for State and Local Governments
- ☐ OMB Circular A-110, Grants and Agreements with Institutions of Higher Education, Hospitals, and Other Nonprofit Organizations Uniform Administrative Requirements, dated 11/29/93
- ☐ OMB Circular A-122 Cost Principles for Nonprofit Organizations
- ☒ 15 CFR Part 24, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments
- ☒ 15 CFR Part 29a, Audit Requirements for State and Local Governments
- ☐ 15 CFR Part 29b, Audit Requirements for Institutions of Higher Education and Other Nonprofit Organizations
- ☐ Other(s):

---

**SIGNATURE OF DEPARTMENT OF COMMERCE GRANTS OFFICER**

**TITLE**
NOAA GRANTS OFFICER

**DATE**
FEB 17, 1994

**TYPED NAME AND SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL**

**TITLE**
Secretary

**DATE**
3/7/94
<table>
<thead>
<tr>
<th>Grant Program Function or Activity (a)</th>
<th>Catalog of Federal Domestic Assistance Number (b)</th>
<th>Estimated Un obligated Funds</th>
<th>New or Revised Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point Au Fer Island (PL 101-646)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td>$0</td>
<td>$37,648</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>$13,892</td>
<td>$</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. TOTALS</td>
<td></td>
<td>$13,892</td>
<td>$37,648</td>
</tr>
</tbody>
</table>

**SECTION B - BUDGET CATEGORIES**

<table>
<thead>
<tr>
<th>Grant Program Function or Activity (a)</th>
<th>(1) Personnel</th>
<th>(2) Fringe Benefits</th>
<th>(3) Travel</th>
<th>(4) Equipment</th>
<th>(5) Supplies (field supplies and boat rental)</th>
<th>(6) Contractual</th>
<th>(7) Construction</th>
<th>(8) Other (Aerial Photography) (contract to aerial 65%)</th>
<th>(9) Total Direct Charges (sum of 5a - 6h)</th>
<th>(10) Indirect Charges</th>
<th>(11) TOTALS (sum of 6i and 6j)</th>
<th>(12) Program Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Personnel</td>
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<td>$</td>
<td>$</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$3,900</td>
<td>$48,708</td>
<td>$2,832</td>
<td>$51,540</td>
<td>$</td>
</tr>
<tr>
<td>b. Fringe Benefits</td>
<td>$1,121</td>
<td>$</td>
<td>$</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td>$48,708</td>
<td></td>
<td>$2,832</td>
<td>$</td>
</tr>
<tr>
<td>c. Travel</td>
<td>$1,750</td>
<td>$</td>
<td>$</td>
<td></td>
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<td></td>
<td></td>
<td>$</td>
<td></td>
<td></td>
<td>$51,540</td>
<td>$</td>
</tr>
<tr>
<td>d. Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>e. Supplies (field supplies and boat rental)</td>
<td>$2,600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
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<td></td>
<td>$</td>
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<tr>
<td>f. Contractual</td>
<td>$32,540</td>
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<td></td>
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<td>$</td>
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<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>g. Construction</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>h. Other (Aerial Photography) (contract to aerial 65%)</td>
<td>$3,900</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>i. Total Direct Charges (sum of 5a - 6h)</td>
<td>$48,708</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td></td>
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<td>$</td>
<td>$</td>
</tr>
<tr>
<td>j. Indirect Charges</td>
<td>$2,832</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>k. TOTALS (sum of 6i and 6j)</td>
<td>$51,540</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$</td>
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<td></td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

Authorized for Local Reproduction

Standard Form 1244A (4.88)  Prescribed by OMB Circular A-102
# BUDGET INFORMATION — Construction Programs

**NOTE:** Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

<table>
<thead>
<tr>
<th>COST CLASSIFICATION</th>
<th>a. Total Cost</th>
<th>b. Costs Not Allowable for Participation</th>
<th>c. Total Allowable Costs (Column a-b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Administrative and legal expenses</td>
<td>$16,720 .00</td>
<td>$.00</td>
<td>$16,720 .00</td>
</tr>
<tr>
<td>2. Land, structures, rights-of-way, appraisals, etc.</td>
<td>$4,000 .00</td>
<td>$.00</td>
<td>$4,000 .00</td>
</tr>
<tr>
<td>3. Relocation expenses and payments</td>
<td>$.00</td>
<td>$.00</td>
<td>$.00</td>
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<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>6. Project inspection fees</td>
<td>$55,000 .00</td>
<td>$.00</td>
<td>$55,000 .00</td>
</tr>
<tr>
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<td>8. Demolition and removal</td>
<td>$.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>9. Construction</td>
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<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>10. Equipment</td>
<td>$815,450 .00</td>
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<td>$815,450 .00</td>
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<tr>
<td>11. Miscellaneous Phase III Monitoring</td>
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<td>12. SUBTOTAL</td>
<td>$.49,430 .00</td>
<td>$.00</td>
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<td>13. Contingencies (sum of lines 1-11)</td>
<td>$.00</td>
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<td>14. SUBTOTAL</td>
<td>$.940,600 .00</td>
<td>$.00</td>
<td>$.940,600 .00</td>
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<tr>
<td>15. Project (program) income</td>
<td>$.00</td>
<td>$.00</td>
<td>$.00</td>
</tr>
<tr>
<td>16. TOTAL PROJECT COSTS (subtract #15 from #14)</td>
<td>$.940,600 .00</td>
<td>$.00</td>
<td>$.940,600 .00</td>
</tr>
</tbody>
</table>

### FEDERAL FUNDING

17. Federal assistance requested, calculate as follows: Enter eligible costs from line 16c Multiply X ——\% 73 Phases I, I, III NMFS Admin. Total Enter the resulting Federal share.

- Phase I - $51,540
- Ph. II, III - $940,600
- NMFS Admin. - $992,140
- Total - $1,044,140

**Authorized for Local Reproduction**

*Total Federal Funds Authorized

| Non-Construction | $37,648 |
| Construction | $687,092 |
| **Total** | $687,092 |

Standard Form 424C (4-69)
Prescribed by OMB Circular A-162
NOAA ADMINISTRATIVE
SPECIAL AWARD CONDITIONS

1. *Accounting Codes: 4FH5000/RL1A35/4119 - $36,255
                       4FH5000/RL1A7F/4119 - $36,255
                       4FH5000/RL1A9F/4119 - $652,230

2. The Project Period for this award is from January 1, 1994, through December 31, 1995.

3. The Budget Period for this award is from January 1, 1994, through December 31, 1995.

4. Since this grant requires the Recipient to provide $267,400 (27%) in project-related matching costs from non-Federal sources, the Recipient must maintain in its official accounting records an accounting for $992,140.

5. This award number NA47FZ0099, to Louisiana Department of Natural Resources supports the work described in the Recipient’s proposal entitled "Coastal Wetlands Planning, Protection, and Restoration Act (PL 101-646); Point Au Fer Island Plugs (PTE-22/24)" dated September 13, 1993, and revised by application dated November 12, 1993, which are incorporated into the award by reference. Where the terms of the award and proposal differ, the terms of the award shall prevail.

6. The Recipient Contact’s name, title, address, and telephone number are:

   Cheryl Bennett
   Louisiana Department of Natural Resources
   Coastal Restoration Division
   P.O. Box 94396
   Baton Rouge, Louisiana 70804
   (504) 342-4500

7. The Grants Officer’s name, address, and telephone number are:

   Jean B. West
   U.S. Department of Commerce, NOAA
   Grants Operations Branch, ATTN: OA321
   1325 East West Highway, Room 5410, SSMC2
   Silver Spring, MD 20910
   301-713-0926
applies to equipment not specifically identified and justified in the recipient’s proposal and approved budget.

16. The Recipient will be required to obtain the approval of the Grants Officer prior to making any substantive changes in project objectives or methods.

17. If applicable, cost sharing is to be calculated on the basis of the total financial award to the recipient. The Government does not recognize funds made in overmatch subsequent to making an award.

18. Two copies of all publications or reports printed with grant or cooperative agreement funds and intended for public distribution will be furnished to the Government (one to the Program Officer and one to the Grants Officer). The financial assistance award number will be acknowledged as the basis for funding the publication.

Such publications or reports shall bear the NOAA logo on the cover or first page, and the following: "A publication (or report) of the Louisiana Department of Natural Resources pursuant to National Oceanic and Atmospheric Administration Award No. NA47FZ0099."

If the recipient or its employee(s) use NOAA financial assistance to publish a paper based in whole or in part on the work funded by this grant/cooperative agreement, the author shall assure that the paper bears the following notation: "This paper is funded (‘in part’ if appropriate) by a grant/cooperative agreement from the National Oceanic and Atmospheric Administration. The views expressed herein are those of the author(s) and do not necessarily reflect the views of NOAA or any of its sub-agencies."

This requirement does not apply to reports submitted only to NOAA and which are not intended for public distribution, such as project progress reports and financial reports.

19. If applicable, the Recipient shall submit to the Grants Officer an annual inventory of Federally-owned property used in conjunction with this project. This listing shall be submitted with the final Financial Status Report. Federally-owned property is described as property purchased or owned by the Federal Government and loaned to the Recipient for use in conjunction with grant-related project work. The listing shall include the following information and must include the title and signature of an authorized representative of the Recipient organization.

a. Government ID number and Fed Strip Number (FSN);
b. Description of Item;
The National Marine Fisheries Service (NMFS) will provide guidance for the applicant’s development of plans, and implementation of the restoration project. NMFS will review and approve all planning and construction details for the project. During post-restoration, NMFS will be directly involved in the monitoring of the success of the project. Quarterly budget meetings will be conducted by NMFS. Site visit to the restoration site will be conducted jointly with State DNR Staff. Quarterly reviews of the State’s progress against the goals and objectives of the cooperative agreement will be made by NMFS.
PROGRAMMATIC SPECIAL AWARD CONDITIONS

1. Phase I deliverables must be received, reviewed and approved by the Coastal Wetlands Planning, Protection and Restoration Act Program Office (National Marine Fisheries Service) from the State before federal funds can be expended for use in the implementation of Phase II of the project. Phase I deliverables are specified in the cooperative agreement as: 1) final engineering and design report, 2) federal and state project permits, 3) land owner notification, 4) project monitoring plan and 5) baseline monitoring plan. The final engineering and design report will include detailed budgetary and cost information for the construction phase of this project. The State must also have completed the environmental permitting of the project with all applicable Federal and State agencies.

2. At the end of Phase I of this agreement, the State and the National Marine Fisheries Service must seek the concurrence of the Coastal Wetlands Planning, Protection and Restoration Act Task Force before funds can be expended for use in implementation of the construction portion of Phase II of the project.

3. The attached NOAA Progress Report Format should be used by the applicant as a guide for all Quarterly Progress Reports and for the Annual Project Reports.
i. The Safe Drinking Water Act of 1972, as amended (42 U.S.C. 300f-j9);

j. The Energy Conservation and Production Act (applicable to construction of new residential and commercial structures) (42 U.S.C. 6801, et seq.);

k. The Wild and Scenic Rivers Act, as amended (16 U.S.C. 1271, et seq.);

l. The Historical and Archeological Data Preservation Act, as amended (16 U.S.C. 469a, et seq.);

m. Executive Order 11990, Protection of Wetlands, May 24, 1977;

n. P.L. 90-480, as amended (42 U.S.C. 4151, et seq.), and the regulations issued thereunder, prescribing standards for the design and construction of any building or facility intended to be accessible to the public or that may result in the employment of handicapped persons therein;


q. The National Environmental Policy Act of 1969 (P.L. 91-190); the National Historic Preservation Act of 1966 (16 U.S.C. 470 et seq.); Executive Order 11593 of May 13, 1971, and all pertinent rules and regulations issued thereunder;

r. The Lead-based Paint Poisoning Prevention Act of 1976, as amended (42 U.S.C. 6901);

s. The Resource Conservation and Recovery Act of 1976, as amended (42 U.S.C. 6901);

t. The Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. 9601 et seq.); and

# DEPARTMENT OF COMMERCE
FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS

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<tr>
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## E. DEBTS

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<tr>
<td>.02</td>
<td>Late Payment Charges</td>
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<td>Results of Name Check</td>
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<td>.02</td>
<td>Action(s) Taken as a Result of Name Check Review</td>
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## H. DRUG-FREE WORKPLACE


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<td>Statutory Provisions</td>
<td>10</td>
</tr>
<tr>
<td>.02</td>
<td>Disclosure of Lobbying Activities</td>
<td>10</td>
</tr>
</tbody>
</table>
A. FINANCIAL REQUIREMENTS

.01 Financial Reports

a. The Recipient shall submit a "Financial Status Report" (SF-269) on a calendar quarter basis for the periods ending March 31, June 30, September 30, and December 31, or any portion thereof, unless otherwise specified in a special award condition. Reports are due no later than 30 days following the end of each reporting period. A final SF-269 shall be submitted within 90 days after the expiration date of the award.

b. The Recipient shall submit a "Federal Cash Transactions Report" (SF-272) for each award where funds are advanced to Recipients. The SF-272 is due 15 working days following the end of each calendar quarter for awards under $1 million dollars; or 15 working days following the end of each month for awards over $1 million dollars; or unless otherwise specified in a special award condition.

c. All financial reports shall be submitted in triplicate (one original and two copies) to the Grants Officer.

.02 Award Payments

a. Unless otherwise specified in a special award condition, the method of payment for the award shall be through advance or reimbursement.

b. The Recipient shall submit a "Request for Advance or Reimbursement" (SF-270) no more frequently than monthly to request payment. The SF-270 shall be submitted in triplicate (an original and two copies) to the Grants Officer.

c. Payments will be made via wire transfer which transfers funds directly to a Recipient’s bank account. The Recipient must complete the enclosed payment information form and return it to the Grants Officer. The award number must be included on the payment information form. If wire transfer is not available, payments shall be made by direct Treasury check.

d. Advances shall be limited to the minimum amounts necessary to meet immediate disbursement needs. Advanced funds not disbursed in a timely manner will be promptly returned to the Department of Commerce (DoC). Advances shall be approved for periods not to exceed 30 days. The Grants Officer determines the appropriate method of payment. If a Recipient demonstrates an unwillingness or inability to establish procedures which will minimize the time elapsing between the transfer of funds and disbursement, the Grants Officer may change the method of payment to reimbursement only.
b. Any actual indirect costs incurred by the Recipient which are greater than the indirect cost line item in the budget will not be treated as a cost of the award by the DoC for the purpose of final cost settlement.

c. Excess indirect costs may not be used to offset unallowable direct costs.

d. If the Recipient has not previously established an indirect cost rate with a Federal agency, the negotiation and approval of a rate is subject to the procedures in the applicable cost principles and the following subparagraphs:

1. The Office of Inspector General (OIG) is authorized to negotiate indirect cost rates on behalf of the DoC for those organizations for which the DoC is cognizant. The OIG will negotiate only fixed rates. The Recipient shall submit to the OIG within 90 days of the award start date, documentation (indirect cost proposal, cost allocation plan, etc.) necessary to establish such rates. The Recipient shall provide the Grants Officer with a copy of the transmittal letter to the OIG.

2. When a cognizant Federal agency other than the DoC has responsibility for establishing an indirect cost rate, the Recipient shall submit to that cognizant Federal agency within 90 days of the award start date the documentation (indirect cost proposal, cost allocation plan, etc.) necessary to establish such rates. The Recipient shall provide both the Grants Officer and the DoC OIG with a copy of the transmittal letter to the cognizant Federal agency.

3. If the Recipient fails to submit the required documentation to the OIG or other cognizant Federal agency within 90 days of the award start date, the Grants Officer shall amend the award to preclude the recovery of any indirect costs under the award. If the DoC OIG or cognizant Federal agency determines there is a finding of good and sufficient cause to excuse the Recipient’s delay in submitting the documentation, an extension of the 90-day due date may be approved by the Grants Officer.

4. Regardless of any approved indirect cost rate applicable to the award at the time of award, the maximum dollar amount of allocable indirect costs for which the DoC will reimburse the Recipient shall be the lesser of:

(a) The line item amount for the Federal share of indirect costs contained in the approved budget of the award; or

(b) The Federal share of the total allocable indirect costs of the award based on the negotiated rate with the cognizant Federal agency as established by audit or negotiation.
special award conditions or taking further action as specified in
the standard term and condition entitled "Non-Compliance With
Award Provisions."

.03 Programmatic Changes

a. The Recipient shall not make any programmatic changes to the
award without prior written approval by the Grants Officer.

b. Any requests by the Recipient for programmatic changes must
be submitted to the Federal Program Officer who shall review and
make recommendations to the Grants Officer. The Grants Officer
shall make the final determination and notify the Recipient in
writing.

.04 Other Federal Awards with Similar Programmatic Activities

The Recipient shall immediately provide written notification to
the Federal Program Officer and the Grants Officer in the event
that, subsequent to receipt of the DoC award, other Federal
financial assistance is received relative to the scope of work of
the DoC award.

C. NON-DISCRIMINATION REQUIREMENTS

No person in the United States shall, on the ground of race,
color, national origin, handicap, religion, or sex, be excluded
from participation in, be denied the benefits of, or be subject
to discrimination under any program or activity receiving Federal
financial assistance. The Recipient agrees to comply with the
non-discrimination requirements below:

.01 Statutory Provisions

a. Title VI of the Civil Rights Act of 1964 (42 USC §§ 2000d et
seq.) and DoC implementing regulations published at 15 CFR Part 8
which prohibit discrimination on the grounds of race, color, or
national origin under programs or activities receiving Federal
financial assistance;

b. Title IX of the Education Amendments of 1972 (20 USC §§ 1681
et seq.) prohibiting discrimination on the basis of sex under
Federally assisted education programs or activities;

c. Section 504 of the Rehabilitation Act of 1973, as amended
(29 USC § 794) and DoC implementing regulations published at 15
CFR Part 8b prohibiting discrimination on the basis of handicap
under any program or activity receiving or benefitting from
Federal assistance;
b. For-profit Recipients shall have a project audit performed no less than once every two years in accordance with Federal Government auditing standards.

c. The Recipient shall submit copies of audits to each Federal agency that directly provides funds. Audits shall be submitted to the DoC OIG at the following address with a copy of the transmittal letter to the Grants Officer:

Office of Inspector General  
U.S. Department of Commerce  
Atlanta Regional Office of Audits  
401 West Peachtree Street, N.W., Suite 2342  
Atlanta, GA 30308

d. Recipients receiving Federal awards over $100,000 shall also submit a copy of organization-wide audits to the Bureau of the Census, which has been designated by OMB as a central clearinghouse. The address is:

Federal Audit Clearinghouse  
Bureau of the Census  
1201 E. 10th Street  
Jeffersonville, IN 47132

02 Audit Resolution Process

a. An audit of the award may result in the disallowance of costs incurred by the Recipient and the establishment of a debt (account receivable) due DoC. For this reason, the Recipient should take seriously its responsibility to respond to all audit findings and recommendations with adequate explanations and supporting evidence whenever audit results are disputed.

b. A Recipient whose award is audited has the following opportunities to dispute the proposed disallowance of costs and the establishment of a debt:

1. Unless the Inspector General determines otherwise, the Recipient has 30 days from the date of the transmittal of the draft audit report to submit written comments and documentary evidence.

2. The Recipient has 30 days from the date of the transmittal of the final audit report to submit written comments and documentary evidence. There will be no extension of this deadline.

3. The DoC shall review the documentary evidence submitted by the Recipient and shall notify the Recipient of the results in an Audit Resolution Determination Letter. The Recipient has 30 days from the date of receipt of the Audit Resolution Determination
b. A penalty charge shall be assessed on any portion of a debt that is delinquent for more than 90 days, although the charge will accrue and be assessed from the date the debt became delinquent.

c. An administrative charge shall be assessed to cover processing and handling the amount due.

d. State and local governments are not subject to penalty and administrative charges.

F. NAME CHECK

A name check review shall be performed by the OIG on key individuals associated with non-profit and for-profit organizations, unless an exemption has been authorized by the Inspector General.

.01 Results of Name Check

DoC reserves the right to take any of the actions described in section F.02 if any of the following occurs as a result of the name check review:

a. A key individual fails to submit the required form "Identification - Applicant for Funding Assistance (CD-346);"

b. A key individual made an incorrect statement or omitted a material fact on the CD-346; or

c. The name check reveals significant adverse findings that reflect on the integrity or responsibility of the Recipient and/or key individual.

.02 Action(s) Taken as a Result of Name Check Review

If any situation noted in F.01 occurs, DoC, at its discretion, may take one or more of the following actions:

a. Terminate the award immediately for cause;

b. Require the removal of any key individual from association with the management of and/or implementation of the award; and/or

c. Make appropriate provisions or revisions at DoC’s discretion with respect to the method of payment and/or financial reporting requirements.

G. GOVERNMENTWIDE DEBARMENT AND SUSPENSION (NONPROCUREMENT)

The Recipient shall comply with the provisions of Executive Order 12549, "Debarment and Suspension" and DoC’s implementing
Applicability of Provisions to Subawards, Contracts, and Subcontracts

a. The Recipient shall include the following notice in each request for applications or bids:

Applicants/bidders for a lower tier covered transaction (except for goods and services under the $25,000 small purchase threshold and where the lower tier Recipient will have no critical influence on or substantive control over the award) are subject to 15 CFR Part 26, Subparts A through E, "Governmentwide Debarment and Suspension (Nonprocurement)." In addition, applicants/bidders for a lower tier covered transaction for a subaward, contract, or subcontract greater than $100,000 of Federal funds at any tier are subject to 15 CFR Part 28, "New Restrictions on Lobbying." Applicants/bidders should familiarize themselves with these provisions, including the certification requirements. Therefore, applications for a lower tier covered transaction must include a "Certifications Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion—Lower Tier Covered Transactions and Lobbying" (CD-512) completed without modification.

b. The Recipient shall include a statement in all lower tier covered transactions (subawards, contracts, and subcontracts), that the award is subject to Executive Order 12549, "Debarment and Suspension" and DoC implementing regulations published at 15 CFR Part 26, Subparts A through E, "Governmentwide Debarment and Suspension (Nonprocurement)."

c. The Recipient shall include a statement in all lower tier covered transactions (subawards, contracts, and subcontracts) exceeding $100,000 in Federal funds, that the subaward, contract, or subcontract is subject to Section 319 of Public Law 101-121, which added Section 1352, regarding lobbying restrictions, to Chapter 13 of Title 31 of the United States Code as implemented at 15 CFR Part 28, "New Restrictions on Lobbying." The Recipient shall further require the subrecipient, contractor, or subcontractor to submit a completed "Disclosure of Lobbying Activities" (SF-LLL) regarding the use of non-Federal funds for lobbying. The SF-LLL shall be submitted within 15 days following the end of the calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed. The SF-LLL shall be submitted from tier to tier until received by the Recipient. The Recipient must submit all disclosure forms received, including those that report lobbying activity on its own behalf, to the Grants Officer within 30 days following the end of the calendar quarter.
Any inventory listings stipulated under the applicable uniform administrative requirements shall be submitted on the "Report of Government Property in Possession of Contractor" (CD-281). The CD-281 shall be submitted in triplicate (an original and two copies) to the Grants Officer.

.02 Rights to Inventions

The policy and procedures set forth in DoC regulations 37 CFR Part 401, "Rights to Inventions made by Nonprofit Organizations and Small Business Firms under Government Grants, Contracts, and Cooperative Agreements," shall apply to all grants and cooperative agreements made to nonprofit organizations and small business firms where the purpose of the award is to accomplish experimental, developmental, or research work.

L. MISCELLANEOUS REQUIREMENTS

01. Non-Compliance With Award Provisions

Failure to comply with any or all of the provisions of the award may be considered grounds for any or all of the following actions: establishment of an account receivable, withholding payments under any DoC awards to the Recipient, changing the method of payment from advance or reimbursement to reimbursement only, termination of any DoC active awards, and may have a negative impact on future funding by the DoC.

.02 Prohibition Against Assignment

Notwithstanding any other provision of the award, the Recipient shall not transfer, pledge, mortgage, or otherwise assign the award, or any interest therein, or any claim arising thereunder, to any party or parties, bank trust companies, or other financing or financial institutions.

.03 Internal Revenue Service (IRS) Information

a. A Recipient classified for tax purposes as an individual, partnership, proprietorship, or medical corporation is required to submit a taxpayer identification number (TIN) (either social security number or employer identification number as applicable) on Form W-9, "Payer’s Request for Taxpayer Identification Number." Tax-exempt organizations and corporations (with the exception of medical corporations) are excluded from this requirement. Form W-9 shall be submitted to the Grants Officer within 60 days of the award start date. The TIN will be provided to the IRS by DoC on Form 1099-G, "Statement for Recipients of Certain Government Payments." Applicable Recipients who either fail to provide their TIN or provide an incorrect TIN may have funding suspended until the requirement is met.
TO THE HEADS OF EXECUTIVE DEPARTMENTS AND ESTABLISHMENTS

FROM:  Alice M. Rivlin
       Director

SUBJECT: Cost Principles for State, Local, and Indian Tribal Governments

1. Purpose. This Circular establishes principles and standards for determining costs for Federal awards carried out through grants, cost reimbursement contracts, and other agreements with State and local governments and federally-recognized Indian tribal governments (governmental units).

2. Authority. This Circular is issued under the authority of the Budget and Accounting Act of 1921, as amended; the Budget and Accounting Procedures Act of 1950, as amended; the Chief Financial Officers Act of 1990; Reorganization Plan No. 2 of 1970; and Executive Order No. 11541 ("Prescribing the Duties of the Office of Management and Budget and the Domestic Policy Council in the Executive Office of the President").

3. Background. An interagency task force was established in 1987 to review existing cost principles for Federal awards to State, local, and Indian tribal governments. The task force studied Inspector General reports and recommendations, solicited suggestions for changes to the Circular from governmental units, and compared for consistency the provisions of other OMB cost principles circulars covering non-profit organizations and universities. A proposed revised Circular reflecting the results of those efforts was issued on October 12, 1988, and August 19, 1993. Extensive comments on the proposed revisions, discussions with interest groups, and related developments were considered in developing this revision.


5. Policy. This Circular establishes principles and standards to provide a uniform approach for determining costs and to promote effective program delivery, efficiency, and better relationships between governmental units and the Federal Government. The principles are for determining allowable costs only. They are not intended to identify the circumstances or to dictate the extent of Federal and governmental unit participation in the financing of a particular Federal award. Provision for profit or other increment above cost is outside the scope of this Circular.

6. Definitions. Definitions of key terms used in this Circular are contained in Attachment A, Section B.

7. Required Actions. Agencies responsible for administering programs that involve cost reimbursement contracts, grants, and other agreements with governmental units shall issue codified regulations to implement the provisions of this Circular and its Attachments by September 1, 1995.

8. OMB Responsibilities. The Office of Management and Budget (OMB) will review agency regulations and implementation of this Circular, and will provide policy interpretations and assistance to insure effective and efficient implementation. Any exceptions will be subject to approval by OMB. Exceptions will only be made in particular cases where adequate justification is presented.


10. Policy Review Date. OMB Circular A-87 will have a policy review three years from the date of issuance.

11. Effective Date. This Circular is effective as follows:
   - For costs charged indirectly or otherwise covered by the cost allocation plan described in Attachments C, D, and E, this revision shall be applied to cost allocation plans and indirect cost proposals submitted or prepared for a governmental unit's fiscal year that begins on or after September 1, 1995.
   - For other costs, this revision shall be applied to all awards or amendments, including continuation or renewal awards, made on or after September 1, 1995.

Attachments

OMB CIRCULAR NO. A-87 Revised

COST PRINCIPLES FOR STATE, LOCAL AND INDIAN TRIBAL GOVERNMENTS

TABLE OF CONTENTS

Attachment A - General Principles for Determining Allowable Costs
Attachment B - Selected Items of Cost
Attachment C - State/Local-Wide Central Service Cost Allocation Plans
Attachment D - Public Assistance Cost Allocation Plans
Attachment E - State and Local Indirect Cost Rate Proposals

Attachment A

GENERAL PRINCIPLES FOR DETERMINING ALLOWABLE COSTS

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   4. Central service cost allocation plan
   5. Claim
   6. Cognizant agency
   7. Common rule
   8. Contract
   9. Cost
   10. Cost allocation plan
   11. Cost objective
   12. Federally-recognized Indian tribal government
   13. Governmental unit
   14. Grantor department or agency
   15. Indirect cost rate proposal
prepared by a governmental unit or component thereof to substantiate its request for the establishment of an indirect cost rate as described in Attachment E of this Circular.

16. "Local government" means a county, municipality, city, town, township, local public authority, school district, special district, intrastate district, council of governments (whether or not incorporated as a non-profit corporation under State law), any other regional or interstate government entity, or any agency or instrumentality of a local government.

17. "Public assistance cost allocation plan" means a narrative description of the procedures that will be used in identifying, measuring and allocating all administrative costs to all of the programs administered or supervised by State public assistance agencies as described in Attachment D of this Circular.

18. "State" means any of the several States of the United States, the District of Columbia, the Commonwealth of Puerto Rico, any territory or possession of the United States, or any agency or instrumentality of a State exclusive of local governments.

C. Basic Guidelines

1. Factors affecting allowable costs. To be allowable under Federal awards, costs must meet the following general criteria:
   a. Be necessary and reasonable for proper and efficient performance and administration of Federal awards.
   b. Be allocable to Federal awards under the provisions of this Circular.
   c. Be authorized or not prohibited under State or local laws or regulations.
   d. Conform to any limitations or exclusions set forth in these principles, Federal laws, terms and conditions of the Federal award, or other governing regulations as to types or amounts of cost items.
   e. Be consistent with policies, regulations, and procedures that apply uniformly to both Federal awards and other activities of the governmental unit.
   f. Be accorded consistent treatment. A cost may not be assigned to a Federal award as a direct cost if any other cost incurred for the same purpose in like circumstances has been allocated to the Federal award as an indirect cost.
   g. Except as otherwise provided for in this Circular, be determined in accordance with generally accepted accounting principles.
   h. Not be included as a cost or used to meet cost sharing or matching requirements of any other Federal award in either the current or a prior period, except as specifically provided by Federal law or regulation.
   i. Be the net of all applicable credits.
   j. Be adequately documented.

2. Reasonable costs. A cost is reasonable if, in its nature and amount, it does not exceed that which would be incurred by a prudent person under the circumstances prevailing at the time the decision was made to incur the cost. The question of reasonableness is particularly important when governmental units or components are predominately federally-funded. In determining reasonableness of a given cost, consideration shall be given to:
   a. Whether the cost is of a type generally recognized as ordinary and necessary for the operation of the governmental unit or the performance of the Federal award.
II. Required Certifications. Each cost allocation plan or indirect cost rate proposal required by Attachments C and E must comply with the following:

1. No proposal to establish a cost allocation plan or an indirect cost rate, whether submitted to a Federal cognizant agency or maintained on file by the governmental unit, shall be acceptable unless such costs have been certified by the governmental unit using the Certificate of Cost Allocation Plan or Certificate of Indirect Costs as set forth in Attachments C and E. The certificate must be signed on behalf of the governmental unit by an individual at a level no lower than chief financial officer of the governmental unit that submits the proposal or component covered by the proposal.

2. No cost allocation plan or indirect cost rate shall be approved by the Federal Government unless the plan or rate proposal has been certified. Where it is necessary to establish a cost allocation plan or an indirect cost rate and the governmental unit has not submitted a certified proposal for establishing such a plan or rate in accordance with the requirements, the Federal Government may either disallow all indirect costs or unilaterally establish such a plan or rate.

Such a plan or rate may be based upon audited historical data or other data that have been furnished to the cognizant Federal agency and for which it can be demonstrated that all unallowable costs have been excluded. When a cost allocation plan or indirect cost rate is unilaterally established by the Federal Government because of failure of the governmental unit to submit a certified proposal, the plan or rate established will be set to ensure that potentially unallowable costs will not be reimbursed.

Attachment B

SELECTED ITEMS OF COST

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1. Accounting
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11. Compensation for personnel services
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   b. Reasonableness
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   e. Pension plan costs
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16. Disbursing service
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32. Pre-award costs
33. Professional service costs
34. Proposal costs
35. Publication and printing costs
36. Reassignments and alterations
37. Reconversion costs
38. Rental costs
39. Taxes
40. Training
41. Travel costs
42. Underrecovery of costs under Federal agreements

Sections 1 through 42 provide principles to be applied in establishing the allowability or unallowability of certain items of cost. These principles apply whether a cost is treated as direct or indirect. A cost is allowable for Federal reimbursement only to the extent of benefits received by Federal awards and its conformance with the general policies and principles stated in Attachment A to this Circular. Failure to mention a particular item of cost in these sections is not intended to imply that it is either allowable or unallowable; rather, determination of allowability in each case should be based on the treatment or standards provided for similar or related items of cost.

1. Accounting. The cost of establishing and maintaining accounting and other information systems is allowable.
2. Advertising and public relations costs.
   a. The term "advertising costs" means the costs of advertising media and corollary administrative costs.
   b. Advertising media include magazines, newspapers, radio and television programs, direct mail, exhibits, and the like.
4. Reasonableness.
5. Unallowable costs.
6. Fringe benefits.
7. Pension plan costs.
10. Support of salaries and wages.
11. Donated services.
12. Contingencies.
13. Contributions and donations.
14. Defense and prosecution of criminal and civil proceedings, and claims.
15. Depreciation and use allowances.
16. Disbursing services.

17. Employee morale, health, and welfare costs.
18. Entertainment.
19. Equipment and other capital expenditures.
20. Fines and penalties.
21. Fund raising and investment management costs.
22. Gains and losses on disposition of depreciable property and other capital assets and substantial relocation of Federal programs.
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24. Idle facilities and idle capacity.
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36. Reassignments and alterations.
37. Reconversion costs.
38. Rental costs.
39. Taxes.
40. Training.
41. Travel costs.
42. Underrecovery of costs under Federal agreements.
(4) The accrual basis may be used for those types of leave for which a liability as defined by Generally Accepted Accounting Principles (GAAP) exists when the leave is earned. When a governmental unit uses the accrual basis of accounting, in accordance with GAAP, allowable leave costs are the lesser of the amount accrued or funded.

(5) The costs of fringe benefits in the form of employer contributions or expenses for social security; employee life, health, unemployment, and worker’s compensation insurance (except as indicated in section 25, Insurance and Indemnification); pension plan costs (see subsection e.); and other similar benefits are allowable, provided such benefits are granted under established written policies. Such benefits, whether treated as indirect costs or as direct costs, shall be allocated to Federal awards and all other activities in a manner consistent with the pattern of benefits attributable to the individuals or group(s) of employees whose salaries and wages are chargeable to such Federal awards and other activities.

e. Pension plan costs. Pension plan costs may be computed using a pay-as-you-go method or an acceptable actuarial cost method in accordance with established written policies of the governmental unit.

(1) For pension plans financed on a pay-as-you-go method, allowable costs will be limited to those representing actual payments to retirees or their beneficiaries.

(2) Pension costs calculated using an actuarial cost-based method recognized by GAAP are allowable for a given fiscal year if they are funded for that year within six months after the end of that year. Costs funded after the six month period (or a later period agreed to by the cognizant agency) are allowable in the year funded. The cognizant agency may agree to an extension of the six month period if an appropriate adjustment is made to compensate for the timing of the charges to the Federal Government and related Federal reimbursements and the governmental unit’s contributions to the PRHB fund. Adjustments may be made by cash refund, reduction in current year’s PRHB costs, or other equitable procedures to compensate the Federal Government for the time value of Federal reimbursements in excess of contributions to the PRHB fund.

(3) Amounts funded in excess of the actuarially determined amount for a fiscal year may be used as the government’s contribution in a future period.

(4) When a governmental unit converts to an acceptable actuarial cost method and funds PRHB costs in accordance with this method, the initial unfunded liability attributable to prior years shall be allowable if amortized over a period of years in accordance with GAAP, or, if no such GAAP period exists, over a period negotiated with the cognizant agency.

(5) To be allowable in the current year, the PRHB costs must be paid either to:
   (a) An insurer or other benefit provider as current year costs or premiums, or
   (b) An insurer or trustee to maintain a trust fund or reserve for the sole purpose of providing post-retirement benefits to retirees and other beneficiaries.

(6) The Federal Government shall receive an equitable share of any amounts of previously allowed post-retirement benefit costs (including earnings thereon) which revert or accrue to the governmental unit in the form of a refund, withdrawal, or other credit.

g. Severance pay.

(1) Payments in addition to regular salaries and wages made to workers whose employment is being terminated are allowable to the extent that, in each case, they are required by (a) law, (b) employer-employee agreement, or (c) established written policy.

(2) Severance payments (but not accruals) associated with normal turnover are allowable. Such payments shall be allocated to all activities of the governmental unit as an indirect cost.

(3) Abnormal or mass severance pay will be considered on a case-by-case basis and is allowable only if approved by the cognizant Federal agency.

h. Support of salaries and wages. These standards regarding time distribution are in addition to the standards for payroll documentation.

(1) Charges to Federal awards for salaries and wages, whether treated as direct or indirect costs, will be based on payrolls documented in accordance with generally accepted practice of the governmental unit and approved by a responsible official(s) of the governmental unit.

(2) No further documentation is required for the salaries and wages of employees who work in a single indirect cost activity.

(3) Where employees are expected to work solely on a single Federal award or cost objective, charges for their salaries and wages will be supported by periodic certifications.
b. Legal expenses required in the administration of Federal programs are allowable. Legal expenses for prosecution of claims against the Federal Government are unallowable.

15. Depreciation and use allowances.

a. Depreciation and use allowances are means of allocating the cost of fixed assets to periods benefiting from asset use. Compensation for the use of fixed assets on hand may be made through depreciation or use allowances. A combination of the two methods may not be used in connection with a single class of fixed assets (e.g., buildings, office equipment, computer equipment, etc.) except as provided in subsection g. Except for enterprise funds and internal service funds that are included as part of a State/local cost allocation plan, classes of assets shall be determined on the same basis used for the government-wide financial statements.

b. The computation of depreciation or use allowances shall be based on the acquisition cost of the assets involved. Where actual cost records have not been maintained, a reasonable estimate of the original acquisition cost may be used. The value of an asset donated to the governmental unit by an unrelated third party shall be its fair market value at the time of donation. Governmental or quasi-governmental organizations located within the same State shall not be considered unrelated third parties for this purpose.

c. The computation of depreciation or use allowances will exclude:

1. The cost of land;
2. Any portion of the cost of buildings and equipment borne by or donated by the Federal Government irrespective of where title was originally vested or where it presently resides; and
3. Any portion of the cost of buildings and equipment contributed by or for the governmental unit, or a related donor organization, in satisfaction of a matching requirement.

d. Where the use allowance method is followed, the use allowance for buildings and improvements (including land improvements, such as paved parking areas, fences, and sidewalks) will be computed at an annual rate not exceeding two percent of acquisition costs. The use allowance for equipment will be computed at an annual rate not exceeding 6 2/3 percent of acquisition cost. When the use allowance method is used for buildings, the entire building must be treated as a single asset; the building's components (e.g., plumbing system, heating and air conditioning, etc.) cannot be segregated from the building's shell. The two percent limitation, however, need not be applied to equipment which is merely attached or fastened to the building but not permanently fixed to it and which is used as furnishings or decorations or for specialized purposes (e.g., dentist chairs and dental treatment units, counters, laboratory benches bolted to the floor, dishwashers, modular furniture, carpeting, etc.). Such equipment will be considered as not being permanently fixed to the building if it can be removed without the destruction of, or need for costly or excessive alterations or repairs, to the building or the equipment. Equipment that meets these criteria will be subject to the 6 2/3 percent equipment use allowance limitation.

e. Where the depreciation method is followed, the period of useful service (useful life) established in each case for usable capital assets must take into consideration such factors as type of construction, nature of the equipment used, historical usage patterns, technological developments, and the renewal and replacement policies of the governmental unit followed for the individual items or classes of assets involved. In the absence of clear evidence indicating that the expected consumption of the asset will be significantly greater in the early portions than in the later portions of its useful life, the straight line method of depreciation shall be used. Depreciation methods once used shall not be changed unless approved by the Federal cognizant or awarding agency. When the depreciation method is introduced for application to an asset previously subject to a use allowance, the annual depreciation charge thereon may not exceed the amount that would have resulted had the depreciation method been in effect from the date of acquisition of the asset. The combination of use allowances and depreciation applicable to the asset shall not exceed the total acquisition cost of the asset or fair market value at time of donation.

f. When the depreciation method is used for buildings, a building's shell may be segregated from the major component of the building (e.g., plumbing system, heating, and air conditioning system, etc.) and each major component depreciated over its estimated useful life, or the entire building (i.e., the shell and all components) may be treated as a single asset and depreciated over a single useful life.

g. A reasonable use allowance may be negotiated for any assets that are considered to be fully depreciated, after taking into consideration the amount of depreciation previously charged to the government, the estimated useful life remaining at the time of negotiation, the effect of any increased maintenance charges, decreased efficiency due to age, and any other factors pertinent to the utilization of the asset for the purpose contemplated.

h. Charges for use allowances or depreciation must be supported by adequate property records. Physical inventories must be taken at least once every two years (a statistical sampling approach is acceptable) to ensure that assets exist, and are in use. Governmental units will manage equipment in accordance with State laws and procedures. When the depreciation method is followed, depreciation records indicating the amount of depreciation taken each period must also be maintained.

16. Discharging services. The cost of discharging funds by the Treasurer or other designated officer is allowable.

17. Employee morale, health, and welfare costs. The costs of health or first-aid clinics and/or infirmaries, recreational facilities, employee counseling services, employee information publications, and any related expenses incurred in accordance with a governmental unit's policy are allowable. Incomes generated from any of these activities will be offset against expenses.

18. Entertainment. Costs of entertainment, including amusement, diversion, and social activities and any costs directly associated with such costs (such as tickets to shows or sports events, meals, lodging, rentals, transportation, and gratuities) are unallowable.

19. Equipment and other capital expenditures.

a. As used in this section the following terms have the meanings set forth below:

1. "Capital expenditure" means the cost of the asset including the cost to put it in place. Capital expenditure for equipment means the net invoice price of the equipment, including the cost of any modifications, attachments, accessories, or auxiliary appurtenances necessary to make it usable for the purpose for which it is acquired. Ancillary charges, such as taxes, duty, protective in transit insurance, freight, and
(1) "Facilities" means land and buildings or any portion thereof, equipment individually or collectively, or any other tangible capital asset, wherever located, and whether owned or leased by the governmental unit.

(2) "Idle facilities" means completely unused facilities that are excess to the governmental unit's current needs.

(3) "Idle capacity" means the unused capacity of partially used facilities. It is the difference between (a) that which a facility could achieve under 100 percent operating time on a one-shift basis less operating interruptions resulting from time lost for repairs, setups, unsatisfactory materials, and other normal delays and (b) the extent to which the facility was actually used to meet demands during the accounting period. A multi-shift basis should be used if it can be shown that this amount of usage would normally be expected for the type of facility involved.

(4) "Cost of idle facilities or idle capacity" means costs such as maintenance, repair, housing, rent, and other related costs, e.g., insurance, interest, and depreciation or use allowances.

b. The costs of idle facilities are unallowable except to the extent that:

(1) They are necessary to meet fluctuations in workload; or

(2) Although not necessary to meet fluctuations in workload, they were necessary when acquired and are now idle because of changes in program requirements, efforts to achieve more economical operations, reorganization, termination, or other causes which could not have been reasonably foreseen. Under the exception stated in this subsection, costs of idle facilities are allowable for a reasonable period of time, ordinarily not to exceed one year, depending on the initiative taken to use, lease, or dispose of such facilities.

c. The costs of idle capacity are normal costs of doing business and are a factor in the normal fluctuations of usage or indirect cost rates from period to period. Such costs are allowable, provided that the capacity is reasonably anticipated to be necessary or was originally reasonable and is not subject to reduction or elimination by use on other Federal awards, subletting, renting, or sale, in accordance with sound business, economic, or security practices. Widespread idle capacity throughout an entire facility or among a group of assets having substantially the same function may be considered idle facilities.

25. Insurance and Indemnification.

a. Costs of insurance required or approved and maintained, pursuant to the Federal award, are allowable.

b. Costs of other insurance in connection with the general conduct of activities are allowable subject to the following limitations:

(1) Types and extent and cost of coverage are in accordance with the governmental unit's policy and sound business practice.

(2) Costs of insurance or of contributions to any reserve covering the risk of loss of, or damage to, Federal Government property are unallowable except to the extent that the awarding agency has specifically required or approved such costs.

c. Actual losses which could have been covered by permissible insurance (through a self-insurance program or otherwise) are unallowable, unless expressly provided for in the Federal award or as described below. However, the Federal Government will participate in actual losses of a self insurance fund that are in excess of reserves. Costs incurred because of losses not covered under nominal deductible insurance coverage provided in keeping with sound management practice, and minor losses not covered by insurance, such as spoilage, breakage, and disappearance of small hand tools, which occur in the ordinary course of operations, are allowable.

d. Contributions to a reserve for certain self-insurance programs including workers' compensation, unemployment compensation, and severance pay are allowable subject to the following provisions:

(1) The type of coverage and the extent of coverage and the rates and premiums would have been allowed had insurance (including reinsurance) been purchased to cover the risks. However, provision for known or reasonably estimated self-insured liabilities, which do not become payable for more than one year after the provision is made, shall not exceed the discounted present value of the liability. The rate used for discounting the liability must be determined by giving consideration to such factors as the governmental unit's settlement rate for such liabilities and its investment rate of return.

(2) Earnings or investment income on reserves must be credited to those reserves.

(3) Contributions to reserves must be based on sound actuarial principles using historical experience and reasonable assumptions. Reserve levels must be analyzed and updated at least biennially for each major risk being insured and take into account any reinsurance, coinsurance, etc. Reserve levels related to employees-related coverages will normally be limited to the value of claims (a) submitted and adjudicated but not paid, (b) submitted but not adjudicated, and (c) incurred but not submitted. Reserve levels in excess of the amounts based on the above must be identified and justified in the cost allocation plan or indirect cost rate proposal.

(4) Accounting records, actuarial studies, and cost allocations (or billings) must recognize any significant differences due to types of insured risk and losses generated by the various insured activities or agencies of the governmental unit. If individual departments or agencies of the governmental unit experience significantly different levels of claims for a particular risk, those differences are to be recognized by the use of separate allocations or other techniques resulting in an equitable allocation.

(5) Whenever funds are transferred from a self-insurance reserve to other accounts (e.g., a general fund), refunds shall be made to the Federal Government for its share of funds transferred, including earned or imputed interest from the date of transfer.

e. Actual claims paid to or on behalf of employees or former employees for workers' compensation, unemployment compensation, severance pay, and similar employee benefits (e.g., , subsection 11.6. for post retirement health benefits), are allowable in the year of payment provided (1) the governmental unit follows a consistent costing policy and (2) they are allocated as a general administrative expense to all activities of the governmental unit.

f. Insurance refunds shall be credited against insurance costs in the year the refund is received.

g. Indemnification includes securing the governmental unit against liabilities to third persons and other losses not
commencement of Federal awards, less costs related to normal wear and tear, are allowable.

38. Rental costs.
   a. Subject to the limitations described in subsections b. through d. of this section, rental costs are allowable to the extent that the rates are reasonable in light of such factors as: rental costs of comparable property, if any; market conditions in the area; alternatives available; and, the type, life expectancy, condition, and value of the property leased.
   b. Rental costs under sale and leaseback arrangements are allowable only up to the amount that would be allowed had the governmental unit continued to own the property.
   c. Rental costs under less-than-arms-length leases are allowable only up to the amount that would be allowed had title to the property vested in the governmental unit. For this purpose, less-than-arms-length leases include, but are not limited to, those where:
      (1) One party to the lease is able to control or substantially influence the actions of the other;
      (2) Both parties are parts of the same governmental unit; or
   d. The governmental unit creates an authority or similar entity to acquire and lease the facilities to the governmental unit and other parties.
   e. Rental costs under leases which are required to be treated as capital leases under GAAP are allowable only up to the amount that would be allowed had the governmental unit purchased the property on the date the lease agreement was executed. This amount would include expenses such as depreciation or use allowance, maintenance, and insurance. The provisions of Financial Accounting Standards Board Statement 13 shall be used to determine whether a lease is a capital lease. Interest costs related to capital leases are allowable to the extent they meet the criteria in section 26.

39. Taxes.
   a. Taxes that a governmental unit is legally required to pay are allowable, except for self-assessed taxes that disproportionately affect Federal programs or changes in tax policies that disproportionately affect Federal programs. This provision becomes effective for taxes paid during the governmental unit’s first fiscal year that begins on or after January 1, 1998, and applies thereafter.
   b. Gasoline taxes, motor vehicle fees, and other taxes that are in effect user fees for benefits provided to the Federal Government are allowable.
   c. This provision does not restrict the authority of Federal agencies to identify taxes where Federal participation is inappropriate. Where the identification of the amount of unallowable taxes would require an inordinate amount of effort, the cognizant agency may accept a reasonable approximation thereof.

40. Training. The cost of training provided for employee development is allowable.

41. Travel costs.
   a. General. Travel costs are allowable for expenses for transportation, lodging, subsistence, and related items incurred by employees traveling on official business. Such costs may be charged on an actual cost basis, on a per diem or mileage basis in lieu of actual costs incurred, or on a combination of the two, provided the method used is applied to an entire trip, and results in charges consistent with those normally allowed in like circumstances in non-federally-sponsored activities.
   b. Lodging and subsistence. Costs incurred by employees and officers for travel, including costs of lodging, other subsistence, and incidental expenses, shall be reasonably reasonable and allowable only to the extent such costs do not exceed charges normally allowed by the governmental unit in its regular operations as a result of the governmental unit’s policy. In the absence of a written governmental unit policy regarding travel costs, the rates and amounts established under subchapter I of Chapter 57 of Title 5, United States Code “Travel and Subsistence Expenses; Mileage Allowances,” or by the Administrator of General Services, or the President (or his designee) pursuant to any provisions of such subchapter shall be used as guidance for travel under Federal awards (41 U.S.C. 420, “Travel Expenses of Government Contractors”).
   c. Commercial air travel. Airfare costs in excess of the customary standard (coach or equivalent) airfare, are unallowable except when such accommodations would: require circuitous routing, require travel during unreasonable hours, excessively prolong travel, greatly increase the duration of the flight, result in increased cost that would offset transportation savings, or offer accommodations not reasonably adequate for the medical needs of the traveler. Where a governmental unit can reasonably demonstrate to the awarding agency either the unavailability of commercial standard airfare or Federal Government contract airfare for individual trips or, on an overall basis, that it is the governmental unit’s practice to make routine use of such airfare, specific determinations of unavailability will generally not be questioned by the Federal Government, unless a pattern of avoidance is detected. However, in order for airfare costs in excess of the customary standard commercial airfare to be allowable, e.g., use of first-class airfare, the governmental unit must justify and document on a case-by-case basis the applicable condition(s) set forth above.
   d. Air travel by other than commercial carrier. Cost of travel by governmental unit-owned, -leased, or -chartered aircraft, as used in this section, includes the cost of lease, charter, operation (including personnel costs), maintenance, depreciation, interest, insurance, and other related costs. Costs of travel via governmental unit-owned, -leased, or -chartered aircraft are unallowable to the extent they exceed the cost of allowable commercial air travel, as provided for in subsection a. 42. Underrecovery of costs under Federal agreements. Any excess costs over the Federal contribution under one award agreement are unallowable under other award agreements.
show operations including the central service activities of the State/local government whether or not they are shown as benefiting from central service functions; a copy of the Comprehensive Annual Financial Report (or a copy of the Executive Budget if budgeted costs are being proposed) to support the allowable costs of each central service activity included in the plan; and, a certification (see subsection 4.), that the plan was prepared in accordance with this Circular, contains only allowable costs, and was prepared in a manner that treated similar costs consistently among the various Federal awards and between Federal and non-Federal awards/activities.

2. Allocated central services. For each allocated central service, the plan must also include the following: a brief description of the service, an identification of the unit rendering the service and the operating agencies receiving the service, the items of expense included in the cost of the service, the method used to distribute the cost of the service to benefited agencies, and a schedule showing the allocation of each service to the specific benefited agencies. If any self-insurance funds or fringe benefits costs are treated as allocated (rather than billed) central services, documentation discussed in subsections 3.b. and c. shall also be included.

3. Billed services.

a. General. The information described below shall be provided for all billed central services, including internal service funds, self-insurance funds, and fringe benefit funds.

b. Internal service funds.

(1) For each internal service fund or similar activity with an operating budget of $5 million or more, the plan shall include: a brief description of the service; a balance sheet for each fund based on individual accounts contained in the governmental unit's accounting system; a revenue/expenses statement, with revenues broken out by source, e.g., regular billings, interest earned, etc.; a listing of all non-operating transfers (as defined by Generally Accepted Accounting Principles (GAAP)) into and out of the fund; a description of the procedures (methodology) used to charge the costs of each service to users, including how billing rates are determined; a schedule of current rates; and, a schedule comparing total revenues (including imputed revenues) generated by the service to the allowable costs of the service, as determined under this Circular, with an explanation of how variances will be handled.

(2) Revenues shall consist of all revenues generated by the service, including uncollected and uncollected revenues. If some users were not billed for the services (or were not billed at the full rate for that class of users), a schedule showing the full imputed revenues associated with these users shall be provided. Expenses shall be broken out by object cost categories (e.g., salaries, supplies, etc.).

c. Self-insurance funds. For each self-insurance fund, the plan shall include: the fund balance sheet; a statement of revenues and expenses including a summary of billings and claims paid by agency; a listing of all non-operating transfers into and out of the fund; the type(s) of risk(s) covered by the fund (e.g., automobile liability, workers' compensation, etc.); an explanation of how the level of fund contributions are determined; including a copy of the current actuarial report (with the actuarial assumptions used) if the contributions are determined on an actuarial basis; and, a description of the procedures used to charge or allocate fund contributions to benefited activities. Reserve levels in excess of claims (1) submitted and adjudicated but not paid,

(2) submitted but not adjudicated, and (3) incurred but not submitted must be identified and explained.

d. Fringe benefits. For fringe benefit costs, the plan shall include: a listing of fringe benefits provided to covered employees, and the overall annual cost of each type of benefit; current fringe benefit policies; and procedures used to charge or allocate the costs of the benefits to benefited activities. In addition, for pension and post-retirement health insurance plans, the following information shall be provided: the governmental unit's funding policies, e.g., legislative bills, trust agreements, or State-mandated contribution rules, if different from actuarially determined rates; the pension plan's costs accrued for the year; the amount funded, and date(s) of funding; a copy of the current actuarial report (including the actuarial assumptions); the plan trustee's report; and, a schedule from the activity showing the value of the interest cost associated with late funding.

4. Required certification. Each central service cost allocation plan will be accompanied by a certification in the following form:

CERTIFICATE OF COST ALLOCATION PLAN

This is to certify that I have reviewed the cost allocation plan submitted herewith and to the best of my knowledge and belief:

(1) All costs included in this proposal [identify date] to establish cost allocations or billings for [identify period covered by plan] are allowable in accordance with the requirements of OMB Circular A-87, "Cost Principles for State and Local Governments," and the Federal award(s) to which they apply. Unallowable costs have been adjusted for in allocating costs as indicated in the cost allocation plan.

(2) All costs included in this proposal are properly allocable to Federal awards on the basis of a beneficial or causal relationship between the expenses incurred and the awards to which they are allocated in accordance with applicable requirements. Further, the same costs that have been treated as indirect costs have not been claimed as direct costs. Similar types of costs have been accounted for consistently.

I declare that the foregoing is true and correct.

Governmental Unit: ____________________________
Signature: ____________________________
Name of Official: ____________________________
Title: ____________________________
Date of Execution: ____________________________

F. Negotiation and Approval of Central Service Plans.

1. All proposed central service cost allocation plans that are required to be submitted will be reviewed, negotiated, and approved by the Federal cognizant agency on a timely basis. The cognizant agency will review the proposal within six months of receipt of the proposal and either negotiate/approve the proposal or advise the governmental unit of the additional documentation needed to support/evaluate the proposed plan or the changes required to make the proposal acceptable. Once an agreement with the governmental unit has been reached, the
administering or supervising the administration of one or more public assistance programs operated by the State as identified in Subpart E of 45 CFR Part 95. For the purpose of this Attachment, these programs include all programs administered by the State public assistance agency.

2. "State public assistance agency costs" means all costs incurred by, or allocable to, the State public assistance agency, except expenditures for financial assistance, medical vendor payments, food stamps, and payments for services and goods provided directly to program recipients.

C. Policy. State public assistance agencies will develop, document and implement, and the Federal Government will review, negotiate, and approve, public assistance cost allocation plans in accordance with Subpart E of 45 CFR Part 95. The plan will include all programs administered by the State public assistance agency. Where a letter of approval or disapproval is transmitted to a State public assistance agency in accordance with Subpart E, the letter will apply to all Federal agencies and programs. The remaining sections of this Attachment (except for the requirement for certification) summarize the provisions of Subpart E of 45 CFR Part 95.

D. Submission, Documentation, and Approval of Public Assistance Cost Allocation Plans.

1. State public assistance agencies are required to promptly submit amendments to the cost allocation plan to HHS for review and approval.

2. Under the coordination process outlined in subsection E, affected Federal agencies will review all new plans and plan amendments and provide comments, as appropriate, to HHS. The effective date of the plan or plan amendment will be the first day of the quarter following the submission of the plan or amendment, unless another date is specifically approved by HHS. HHS, as the cognizant agency, acting on behalf of all affected Federal agencies, will, as necessary, conduct negotiations with the State public assistance agency and will inform the State agency of the action taken on the plan or plan amendment.

E. Review of Implementation of Approved Plans.

1. Since public assistance cost allocation plans are of a narrative nature, the review during the plan approval process consists of evaluating the appropriateness of the proposed groupings of costs (cost centers) and the related allocation bases. As such, the Federal Government needs some assurance that the cost allocation plan has been implemented as approved. This is accomplished through review by the funding agencies, single auditors, or audits conducted by the cognizant audit agency.

2. Where inappropriate charges affecting more than one finding agency are identified, the cognizant HHS cost negotiation officer will be advised and will take the lead in resolving the issue(s) as provided for in Subpart E of 45 CFR Part 95.

3. If a dispute arises in the negotiation of a plan or from a disallowance involving two or more finding agencies, the dispute shall be resolved in accordance with the appeals procedures set out in 45 CFR Part 75. Disputes involving only one finding agency will be resolved in accordance with the funding agency's appeal process.

4. To the extent that problems are encountered among the Federal agencies and/or governmental units in connection with the negotiation and approval process, the Office of Management and Budget will lend assistance, as required, to resolve such problems in a timely manner.

F. Unallowable Costs. Claims developed under approved cost allocation plans will be based on allowable costs as identified in this Circular. Where unallowable costs have been claimed and reimbursed, they will be refunded to the program that reimbursed the unallowable cost using one of the following methods: (a) a cash refund, (b) offset to a subsequent claim, or (c) credits to the amounts charged to individual awards.

Attachment E

STATE AND LOCAL INDIRECT COST RATE PROPOSALS

TABLE OF CONTENTS

A. General
B. Definitions
   1. Indirect cost rate proposal
   2. Indirect cost rate
   3. Indirect cost pool
   4. Base
   5. Predetermined rate
   6. Fixed rate
   7. Provisional rate
   8. Final rate
   9. Base period
C. Allocation of Indirect Costs and Determination of Indirect Cost Rates
   1. General
   2. Simplified method
   3. Multiple allocation base method
   4. Special indirect cost rates
D. Submission and Documentation of Proposals
   1. Submission of indirect cost rate proposals
   2. Documentation of proposals
   3. Required certification
E. Negotiation and Approval of Rates
F. Other Policies
   1. Fringe benefit rates
   2. Billed services provided by the grantee agency
   3. Indirect cost allocations not using rates
   4. Appeals
   5. Collections of unallowable costs and erroneous payments
   6. OMB assistance

A. General.

1. Indirect costs are those that have been incurred for common or joint purposes. These costs benefit more than one cost objective and cannot be readily identified with a particular final cost objective without effort disproportionate to the results achieved. After direct costs have been determined and assigned directly to Federal awards and other activities as appropriate, indirect costs are those remaining to be allocated to beneficial cost objectives. A cost may not be allocated to a Federal award as an indirect cost if any other cost incurred for the same purpose, in like circumstances, has been assigned to a Federal award as a direct cost.

2. Indirect costs include (a) the indirect costs originating in each department or agency of the governmental unit carrying out Federal awards and (b) the costs of central governmental services distributed through the central service
allocable.

c. The distribution base may be (1) total direct costs (excluding capital expenditures and other distorting items, such as pass-through funds, major subcontracts, etc.), (2) direct salaries and wages, or (3) another base which results in an equitable distribution.

3. Multiple allocation base method.

a. Where a grantee agency's indirect costs benefit its major functions in varying degrees, such costs shall be accumulated into separate cost groupings. Each grouping shall then be allocated individually to benefited functions by means of a base which best measures the relative benefits.

b. The cost groupings should be established so as to permit the allocation of each grouping on the basis of benefits provided to the major functions. Each grouping should constitute a pool of expenses that are of like character in terms of the functions they benefit and in terms of the allocation base which best measures the relative benefits provided to each function. The number of separate groupings should be held within practical limits, taking into consideration the materiality of the amounts involved and the degree of precision needed.

c. Actual conditions must be taken into account in selecting the base to be used in allocating the expenses in each grouping to benefited functions. When an allocation can be made by assignment of a cost grouping directly to the function benefitted, the allocation shall be made in that manner. When the expenses in a grouping are more general in nature, the allocation should be made through the use of a selected base which produces results that are equitable to both the Federal Government and the governmental unit. In general, any cost element or related factor associated with the governmental unit's activities is potentially adaptable for use as an allocation base provided that: (1) it can readily be expressed in terms of dollars or other quantitative measures (total direct costs, direct salaries and wages, staff hours worked, square feet used, hours of usage, number of documents processed, population served, and the like), and (2) it is common to the benefited functions during the base period.

d. Except where a special indirect cost rate is required in accordance with subsection 4, the separate groupings of indirect costs allocated to each major function shall be aggregated and treated as a common pool for that function. The costs in the common pool shall then be distributed to individual Federal awards included in that function by use of a single indirect cost rate.

e. The distribution base used in computing the indirect cost rate for each function may be (1) total direct costs (excluding capital expenditures and other distorting items such as pass-through funds, major subcontracts, etc.), (2) direct salaries and wages, or (3) another base which results in an equitable distribution. An indirect cost rate should be developed for each separate indirect cost pool developed. The rate in each case should be stated as the percentage relationship between the particular indirect cost pool and the distribution base identified with that pool.

4. Special indirect cost rates.

a. In some instances, a single indirect cost rate for all activities of a grantees department or agency or for each major function of the agency may not be appropriate. It may not take into account those different factors which may substantially affect the indirect costs applicable to a particular program or group of programs. The factors may include the physical location of the work, the level of administrative support required, the nature of the facilities or other resources employed, the organizational arrangements used, or any combination thereof. When a particular award is carried out in an environment which appears to generate a significantly different level of indirect costs, provisions should be made for a separate indirect cost pool applicable to that award. The separate indirect cost pool should be developed during the course of the regular allocation process, and the separate indirect cost rate resulting therefrom should be used, provided that: (1) the rate differs significantly from the rate which would have been developed under subsections 2. and 3., and (2) the award to which the rate would apply is material in amount.

b. Although this Circular adopts the concept of the full allocation of indirect costs, there are some Federal statutes which restrict the reimbursement of certain indirect costs. Where such restrictions exist, it may be necessary to develop a special rate for the affected award. Where a "restricted rate" is required, the procedure for developing a non-restricted rate will be used except for the additional step of the elimination from the indirect cost pool those costs for which the law prohibits reimbursement.

D. Submission and Documentation of Proposals.

1. Submission of indirect cost rate proposals.

a. All departments or agencies of the governmental unit desiring to claim indirect costs under Federal awards must prepare an indirect cost rate proposal and related documentation to support those costs. The proposal and related documentation must be retained for audit in accordance with the records retention requirements contained in the Common Rule.

b. A governmental unit for which a cognizant agency assignment has been specifically designated must submit its indirect cost rate proposal to its cognizant agency. The Office of Management and Budget (OMB) will periodically publish lists of governmental units identifying the appropriate Federal cognizant agencies. The cognizant agency for all governmental units or agencies not identified by OMB will be determined based on the Federal agency providing the largest amount of Federal funds. In these cases, a governmental unit must develop an indirect cost proposal in accordance with the requirements of this Circular and maintain the proposal and related supporting documentation for audit. These governmental units are not required to submit their proposals unless they are specifically requested to do so by the cognizant agency. Where a local government only receives funds as a sub-recipient, the primary recipient will be responsible for negotiating and/or monitoring the sub-recipient's plan.

c. Each Indian tribal government desiring reimbursement of indirect costs must submit its indirect cost proposal to the Department of the Interior (its cognizant Federal agency).

d. Indirect cost proposals must be developed (and, when required, submitted) within six months after the close of the governmental unit's fiscal year, unless an exception is approved by the cognizant Federal agency. If the proposed central service cost allocation plan for the same period has not been approved by that time, the indirect cost proposal may be prepared including an amount for central services that is based on the latest federally-approved central service cost allocation plan. The difference between these central service amounts and the amounts ultimately approved will be compensated for by an adjustment in a subsequent period.
allocation methodology should be developed, documented, maintained for audit, or submitted, as appropriate, to the cognizant agency for review, negotiation, and approval.

4. Appeals. If a dispute arises in a negotiation of an indirect cost rate (or other rate) between the cognizant agency and the governmental unit, the dispute shall be resolved in accordance with the appeals procedures of the cognizant agency.

5. Collection of unallowable costs and erroneous payments. Costs specifically identified as unallowable and charged to Federal awards either directly or indirectly will be refunded (including interest chargeable in accordance with applicable Federal agency regulations).

6. OMB assistance. To the extent that problems are encountered among the Federal agencies and/or governmental units in connection with the negotiation and approval process, OMB will lend assistance, as required, to resolve such problems in a timely manner.
FINANCIAL ASSISTANCE AWARD

RECIPIENT NAME
Louisiana Department of Natural Resources

STREET ADDRESS
P.O. Box 94396

CITY, STATE, ZIP CODE
Baton Rouge, Louisiana 70804

AWARD PERIOD
September 1, 1999 through August 31, 2000

DEPARTMENT OF COMMERCE OPERATING UNIT
National Oceanic and Atmospheric Administration

AUTHORITY
16 USC 3951 et seq
11.463 Habitat Conservation

PROJECT TITLE
Coastal Wetlands Planning, Protection, and Restoration Act (PL 101-646) Point Au Fer Island Hydrologic Restoration Projects, Phase III: Mobil Canal...

This Award approved by the Grants Officer is issued in triplicate and constitutes an obligation of Federal funding. By signing the three documents, the Recipient agrees to comply with the Award provisions checked below and attached. Upon acceptance by the Recipient, two signed Award documents shall be returned to the Grants Officer and the third document shall be retained by the Recipient. If not signed and returned by the Recipient within 15 days of receipt, the Grants Officer may declare this Award null and void.

☑ Department of Commerce Financial Assistance Standard Terms and Conditions (ATTACHMENT C)
☑ Special Award Conditions (ATTACHMENT B) ☑ ADMINISTRATIVE ☑ PROGRAMMATIC
☐ Line Item Budget (ATTACHMENT A)
☐ OMB Circular A-21, Cost Principles for Educational Institutions
☒ OMB Circular A-87, Cost Principles for State and Local Governments
☐ OMB Circular A-110, Grants and Agreements with Institutions of Higher Education, Hospitals, and Other Nonprofit Organizations Uniform Administrative Requirements
☐ OMB Circular A-122, Cost Principles for Nonprofit Organizations
☐ 15 CFR Part 24, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments
☐ 15 CFR Part 29a, Audit Requirements for State and Local Governments
☐ 15 CFR Part 29b, Audit Requirements for Institutions of Higher Education and Other Nonprofit Organizations
☐ 48 CFR Part 31, Contract Cost Principles and Procedures
☒ Other(s): OMB Circular A-133

SIGNATURE OF DEPARTMENT OF COMMERCE GRANTS OFFICER

TITLE
NOAA GRANTS OFFICER

DATE

TYPED NAME AND SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL

Jack C. Caldwell

TITLE
Secretary

DATE
5/3/98

RECIPIENT COPY - RETAIN
# BUDGET INFORMATION - Non Construction Programs

## SECTION A - BUDGET SUMMARY

<table>
<thead>
<tr>
<th>Grant Program Function or Activity (a)</th>
<th>Catalog of Federal Domestic Assistance Number (b)</th>
<th>Estimated Unobligated Funds</th>
<th>New or Revised Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Federal (c)</td>
<td>Non - Federal (d)</td>
</tr>
<tr>
<td>1. Point Au Fer Island</td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. TOTALS</td>
<td></td>
<td>$</td>
<td>$</td>
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## SECTION B - BUDGET CATEGORIES

### GRANT PROGRAM, FUNCTION OR ACTIVITY

<table>
<thead>
<tr>
<th>(1) Federal</th>
<th>(2) State</th>
<th>(3)</th>
<th>(4)</th>
<th>Total (5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Personnel</td>
<td>$12,242.50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Fringe Benefits</td>
<td>$2,461.00</td>
<td></td>
<td></td>
<td>$14,403.00</td>
</tr>
<tr>
<td>c. Travel</td>
<td>$1,275.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Equipment</td>
<td>$2,550.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Supplies</td>
<td>$425.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Contractual - &quot;Surveying&quot;</td>
<td>$14,450.00</td>
<td>$2,550.00</td>
<td></td>
<td>$500.00</td>
</tr>
<tr>
<td>g. Construction</td>
<td>$640,900.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Total Direct Charges (sum of 6a - 6h)</td>
<td>$674,303.50</td>
<td>$118,995.00</td>
<td></td>
<td>$793,298.50</td>
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<tr>
<td>j. Indirect Charges</td>
<td>$5,696.50</td>
<td></td>
<td>$1,005.00</td>
<td></td>
</tr>
<tr>
<td>k. TOTALS (sum of 6i and 6j)</td>
<td>$680,000</td>
<td>$120,000</td>
<td></td>
<td>$800,000</td>
</tr>
</tbody>
</table>

7. Program Income $ $ $ $ $ 

Authorized for Local Reproduction
# BUDGET INFORMATION—Construction Programs

**NOTE:** Certain Federal Assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case you will be notified.

### COST CLASSIFICATION

<table>
<thead>
<tr>
<th>Description</th>
<th>a. Total Cost</th>
<th>b. Costs not Allowable for Participation</th>
<th>c. Total Allowable Costs (Column a-b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Administrative and legal expenses (personnel/fringe benefits, travel, and indirect charges)</td>
<td>$25,500.00</td>
<td>$0.00</td>
<td>$25,500.00</td>
</tr>
<tr>
<td>2. Land, structures, right-of-ways, appraisals, etc.</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>3. Relocation expenses and payments</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>4. Architectural and engineering fees</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>5. Other architectural and engineering fees</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>6. Project inspection fees</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>7. Site work</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>8. Demolition and removal</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>9. Construction</td>
<td>$725,000.00</td>
<td>$0.00</td>
<td>$725,000.00</td>
</tr>
<tr>
<td>10. Equipment</td>
<td>$3,000.00</td>
<td>$0.00</td>
<td>$3,000.00</td>
</tr>
<tr>
<td>11. Miscellaneous - Supplies</td>
<td>$500.00</td>
<td>$0.00</td>
<td>$500.00</td>
</tr>
<tr>
<td>12. SUBTOTAL</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>13. Contingencies (sum of lines 1 - 11)</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>14. SUBTOTAL</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>15. Project (program) income</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>16. TOTAL PROJECT COSTS (subtract #15 from #14)</td>
<td>$754,000.00</td>
<td>$0.00</td>
<td>$754,000.00</td>
</tr>
</tbody>
</table>

### FEDERAL FUNDING

17. Federal assistance requested, calculate as follows:

Enter eligible costs from line 16c \( \times 85\% \)

(Consult Federal agency for Federal percentage share).

Enter the resulting Federal share.

<table>
<thead>
<tr>
<th>STATE</th>
<th>$113,100.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEDERAL</td>
<td>$640,900.00</td>
</tr>
</tbody>
</table>

Stand-\(d\) Form 424C
NOAA ADMINISTRATIVE
SPECIAL AWARD CONDITIONS

1. The Project Period for this award is September 1, 1999, through August 31, 2000.

2. The Budget Period for this award is September 1, 1999, through August 31, 2000.

3. Since this award requires the Recipient to provide $120,000 (15%) in project-related matching costs from non-Federal sources, the Recipient must maintain in its official accounting records an accounting for $800,000.

4. Award payments shall be made through the NOAA Financial Assistance Disbursement System (FADS). In accordance with 31 CFR 205 (Treasury Circular 1075 "1977"), the Recipient shall: (1) maintain procedures for fund control to ensure that drawdowns are made only when actually needed for its immediate disbursement needs; (2) comply with timely reporting of cash disbursements and balances as required. If the Recipient does not adhere to these provisions, NOAA may revoke the unobligated portion of the federal award funds. Instructions for use of the FADS are attached.

FADS is an automated system that allows Recipients to request funds using a touch-tone telephone. FADS will record Recipients’ requests and process them automatically, subject to review by NOAA officials. Once approved, funds will be directly deposited in the Recipient organization’s bank account.

The access code for this award is 97140.

5. Recipient point of contact information:

Karen Lewis
225-342-4513

6. Federal Program Officer’s name and contact information:

Erik Zobrist
301-713-0174
[Internet: Erik.Zobrist@noaa.gov]
7. Grants Office contact information:

Janet A. Johnson, Grants Management Specialist
U.S. Department of Commerce, NOAA
Grants Management Division
1325 East-West Highway
SSMC2 - OFA52 - Room 9356
Silver Spring, Maryland 20910-3283
301-713-0942 or 301-713-0922
fax number: 301-713-0947

8. This award number NA97FZ0485, to the Louisiana Department Of Natural Resources supports the work described in the Recipient’s proposal entitled "COASTAL WETLANDS PLANNING, PROTECTION, AND RESTORATION ACT (PL 101-646) POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT, PHASE III: MOBIL CANAL EXTENSION" dated July 16, 1999, and revision by letter dated August 20, 1999 which are incorporated into the award by reference. Where the terms of the award and proposal differ, the terms of the award shall prevail.

9. All financial and progress reports shall be submitted in triplicate (one original and two copies). Financial Reports are to be submitted to the NOAA Grants Officer and Performance (technical) reports to the NOAA Program Officer.

Notwithstanding Department of Commerce Financial Assistance Standard Term and Condition B.01a, the Recipient may submit performance (technical) reports on a different frequency.

All reports will be submitted for the periods shown below.

**SCHEDULE OF REPORTING REQUIREMENTS**

**Financial Status Reports (SF-269) - (semi-annual)** *

<table>
<thead>
<tr>
<th>Period</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 1 - September 30</td>
<td>October 30</td>
</tr>
<tr>
<td>October 1 - March 31</td>
<td>April 30</td>
</tr>
<tr>
<td>Final report</td>
<td>90 days after award expiration</td>
</tr>
</tbody>
</table>

*(If the award start date begins any time other than April 1 or October 1, then the first report would be a portion of the reporting period in which the award starts.)*
Federal Cash Transaction Reports (SF-272) - (semi-annual)

April 1 - September 30    due October 30
October 1 - March 31     due April 30
Final report due 90 days after award expiration

*(If the award start date begins any time other than April 1 or October 1, then the first report would be a portion of the reporting period in which the award starts.)*

Performance Reports - (semi-annual)

Semi-annual Performance Reports are required no later than 30 days following the end of each 6-month period from the start date of the award. The final report is due 90 days after the award expiration.

10. The substantial involvement by the Federal government will be as follows:

The National Marine Fisheries Service (NMFS) will provide guidance for the applicant’s development of plans, and implementation of the restoration project. NMFS will review and approve all planning and construction details for the project. Quarterly budget meetings will be conducted by NMFS. Quarterly reviews of the State’s progress against the goals and objectives of the cooperative agreement will be made by NMFS.

11. Escrow funds will not be treated as a Federal cost to the cooperative agreement when preparing financial reports.

12. Following applies where applicable:

The Recipient agrees that, for the expected useful life of the facility assisted with this award, the project will be properly and efficiently administered, operated and maintained, for the purpose authorized by this award and in accordance with terms, conditions, requirements and provisions of the award. If the Government determines at any time during the useful life of the facility, that the project is not being properly and efficiently administered, operated and maintained, the Government will have a right to cancel the Federal Assistance portion of this award for any additional expenses related to operation and maintenance costs of the award and pursue any other remedies allowed by law.
1. Task I deliverables must be received, reviewed and approved by the Coastal Wetlands Planning, Protection and Restoration Act Program Office (National Marine Fisheries Service) from the State before federal funds can be expended for use in the implementation of Task II of the project. Task I deliverables are specified in the cooperative agreement as: 1) federal and state project permits, 2) final engineering and design report, 3) land owner notification, 4) project report will include detailed budgetary and cost information for the construction phase of this project. The State must also have completed the environmental permitting of the project with all applicable Federal and State agencies.

2. At the end of Task I of this agreement, the State and the National Marine Fisheries Service must seek the concurrence of the Coastal Wetlands Planning, Protection and Restoration Act Task Force before funds can be expended for use in implementation of the construction portion of Task II of the project.
NOAA ADMINISTRATIVE STANDARD AWARD CONDITIONS

A. The Recipient shall submit all refund checks to the Department of Commerce (DoC) accounting office identified below. All checks must contain the name of the DoC funding agency, award number, and no more than a two-word description to identify reason for refund.

U.S. Department of Commerce/NOAA
Finance Division, OFA232
20020 Century Boulevard
C212 Service #7025
Germantown, MD 20874
301-427-2034

B. Program income earned during the award period shall be retained by the Recipient and shall be added to funds committed to the award and used for the purposes and under the conditions applicable to the use of the award funds.

C. The Recipient is prohibited from expending Federal or non-Federal grant funds, or in-kind goods or services, for purposes of providing transportation, travel, and any other expenses for any Federal employee.

D. If applicable, the Recipient must request prior approval from NOAA to purchase equipment costing in excess of $5,000 per unit and having a useful life of more than one year. This condition applies to equipment not specifically identified and justified in the Recipient's proposal and approved budget.

E. If applicable, cost sharing is to be calculated on the basis of the total financial award to the Recipient. The Government does not recognize funds made in overmatch subsequent to making an award.

F. If the Recipient has waived any portion of the approved indirect cost rate, no claim shall be made against this award at a later date.

G. Notwithstanding Department of Commerce Financial Assistance Standard Terms and Conditions A.04.c, the Recipient may transfer funds between direct costs and indirect costs if all of the following conditions apply:

(1) If a transfer of funds among direct cost categories in accordance with Department of Commerce Financial Assistance Standard Term and...
ATTACHMENT II

POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

MEMORANDUM OF AGREEMENT
DEPARTMENT OF NATURAL RESOURCES

March 9, 1999

MEMORANDUM

TO: Randy Hanchey, Assistant Secretary
    Diane Smith, Assistant Administrator
    Gerry Duszynski, Assistant Administrator
    Rachel Wilson Sweeney, Special Projects Coordinator
    Carrol Clark, Engineer Manager
    George Boddie, Engineer Manager
    Van Cook, Engineer Manager
    Greg Steyer, Program Manager
    Steve Underwood, Program Manager
    Phil Pittman, Program Manager
    Helen Hoffpaur, Real Estate Manager

FROM: Chet Fruge, Program Manager

RE: MOA Between the COE, DNR and NMFS, Long Term O,M & M CWPPRA Projects

Attached is the MOA between the COE, DNR and NMFS for long term reimbursement to DNR for expenditures related to O,M & M of CWPPRA Projects. Item III of the MOA provides that the DNR will submit invoices for expenditures to the NMFS for certification and approval. The NMFS will forward the approved invoices to the COE which will make direct payments to the DNR.

Carrol, George, and Van please forward copies to all project managers for NMFS CWPPRA projects.

CF

cc: Verlie Wimms, OMF
    Karen Lewis, Contracts and Grants
    Lana Humphries, OMF
A Memorandum of Agreement
between
National Oceanic and Atmospheric Administration,
The National Marine Fisheries Service;
The U.S. Army Corps of Engineers, New Orleans District;
and
The State of Louisiana, Department of Natural Resources;
regarding Monitoring, Operations and Maintenance billing under

I. Parties and Scope

This Memorandum of Agreement (MOA) between the National Marine Fisheries Service (NMFS), the U.S. Army Corps of Engineers (USACE), and the State of Louisiana Department of Natural Resources (LDNR) recognizes these three parties' cooperation and participation in the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA), (16 U.S.C. 777c, §§ 3951-3956). As members of the Task Force, established by CWPPRA, the agencies that are parties to this MOA are responsible for among other things, the long-term monitoring of certain coastal wetland restoration project areas and reference sites associated with such projects, as well as the long-term operation, maintenance, repair and rehabilitation (O&M) of authorized project features, where applicable.

This MOA describes the financial instrument and processes to be used to finance long-term monitoring and O&M activities which are outside of the scope of NMFS' Cooperative Agreement and Joint Funding Agreement mechanisms.

II. Purpose

The types of funding instruments currently used by NMFS are not suitable for activities exceeding three to five years (e.g., Cooperative Agreements) unless the agreement is cost shared
equitably (e.g., Joint Funding Agreements). Monitoring, as well as O&M activities are generally scheduled to last for 20 year periods, except for demonstration projects. Federal/non-federal cost-shares for these activities within CWPPRA are at ratios of 85/15% or 90/10%. Therefore, neither cooperative agreements nor joint funding agreements are appropriate for monitoring or O&M activities.

III. Alternative Funding Instrument

There is an alternative funding instrument, employed between USACE and other Federal agencies for similar activities called a "Government Purchase" Military Interdepartmental Purchase Request (MIPR). A Government Purchase MIPR can be used for long-term activities without cost-shares percentage limitation. It differs from conventional MIPRs in that the sponsoring Federal agency receives no direct reimbursable funding. A Government Purchase MIPR stipulates that invoices for monitoring or O&M activities performed by the state agency (LDNR) will be submitted by the state agency to the sponsoring Federal agency (NMFS) for certification. Approved invoices will be forwarded by NMFS to USACE. The USACE will make direct payments to the State.

IV. Actions of the Parties

Within the CWPPRA program, NMFS, USACE and LDNR will work cooperatively in the implementation of the overall CWPPRA program.

As Chair of the CWPPRA Task Force, USACE is responsible for the administration and disposition of funding for the CWPPRA Program. USACE will continue to provide reimbursable MIPRs to NMFS for short-term activities such as Engineering and Design, or Construction which can be awarded to LDNR through the current cooperative agreement process. USACE will provide "Government Purchase" MIPRs to NMFS for long-term activities when requested
by NMFS, as appropriate.

As a sponsoring Federal agency, NMFS is responsible for implementing a number of wetland restoration projects approved for funding by the Task Force. Within all projects sponsored by NMFS, it is NMFS' and LDNR's joint responsibility to administer, short-term activities such as engineering and design and construction; and long-term activities such as monitoring, and O&M of authorized project features. To carry out long-term responsibilities, NMFS will request from the Chair of the Task Force, USACE, funding in the form of a Government Purchase MIPR. Using this funding instrument NMFS will certify invoices from LDNR as approved for payment, and forward the approved invoices to USACE for payment directly to LDNR, subject to the availability of funds and satisfactory performance.

LDNR, as the non-federal partner, will conduct long-term monitoring, and O&M activities of authorized project features. LDNR will submit invoices to NMFS on a regular basis after monitoring and O&M work is conducted. Invoices will clearly specify whether the bill is for monitoring activities, or O&M activities.

Upon re-authorization of CWPPRA, or any other legislative or administrative changes to the program, this MOA may be amended, modified or terminated as mutually agreed upon by the signatory parties.

The undersigned individuals attest that they are authorized to bind their respective agencies to this MOA. On behalf of their respective agencies, they have signed this MOA on the day and year appearing with the signature of each authorized representative.
U.S. ARMY CORPS OF ENGINEERS

Colonel William Conner
District Engineer
U.S. Army Corps of Engineers
Department of Defense

NATIONAL MARINE FISHERIES SERVICE

Rolland A. Schmitz
Assistant Administrator
National Marine Fisheries Service
National Oceanic and Atmospheric Administration
Department of Commerce

STATE OF LOUISIANA, DEPARTMENT OF NATURAL RESOURCES

Jack C. Caldwell
Secretary
Department of Natural Resources
State of Louisiana

DATE

10 Feb 99

DATE

SEP 21 1998

DATE

2-3-99
Mary White, CRD
Carrie Schmidt, CRD

Attachment
March 1, 1999

Mr. Tim Osborn
National Marine Fisheries Service
NOAA/NMFS Restoration Center (P/HP5)
Office of Habitat Conservation
1315 East-West Highway
Silver Spring, Maryland  20910

Dear Mr. Osborn:

Enclosed for your records is a signed original of the Memorandum of Agreement between the National Marine Fisheries Service, the Louisiana Department of Natural Resources, and the U.S. Army Corps of Engineers.

Sincerely,

Steve Mathies
Chief, CWPPRA Branch
ATTACHMENT III

POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

PROJECT FEATURES
Phase II and III

Mobil Canal

Reference

Gulf of Mexico

Data Source:
Louisiana Dept. of Natural Resources
Coastal Restoration Division
Biological Monitoring Section
Thibodaux Field Office

1998 DOQQ's

Date: May 24, 2001
Map ID: 2001-TFO-004

Ph. II and III Boundary
Rock wall
Reference Boundary
ATTACHMENT IV

POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

FINAL REPORT
FINAL REPORT

LAKE CHAPEAU SEDIMENT INPUT/HYDROLOGIC RESTORATION PROJECT AND POINT AU FER ISLAND/HYDROLOGIC RESTORATION PROJECT

DNR CONTRACT NUMBER: 2503-00-32

JUNE 2000

Prepared by:
Picciola & Associates, Inc.
103 Picciola Parkway
Cut Off, LA 70345
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3. Verification of Project Completion ................................. 3
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1. Introduction

The Lake Chapeau Sediment Input and Hydrologic Restoration Project, Breach Site No. 3 Repairs (TE-26) and Point Au Fer Island Hydrologic Restoration Project, Phase III – Mobile Canal Extension (TE-22) Projects are located in Terrebonne Parish, Louisiana. The Federal sponsor for this Project is the National Marine Fisheries Service (NMFS) and the State sponsor is the Louisiana Department of Natural Resources (DNR). The DNR contracted Picciola & Associates, Inc. to oversee the construction of the project with on site inspection. This Final Summary Report will provide an overview, verification of project completion, total quantity of materials installed, conformance to plans and specifications, and project deviations.

2. Overview

The base bid consisted of constructing a weir to repair a breached spoil bank in the Lake Chapeau area (TE-26) and the continuation of a breakwater Phase III – Mobile Canal Extension (TE-22) – Area No. 4. Both projects would comprise of the placement of 250-pound class stone underlain by geotextile woven fabric.

Alternate No. 1 consisted of the construction of a breakwater structure Phase III – Mobile Canal Extension (TE-22) – Area No. 5. This project would also comprise of the placement of 250-pound class stone underlain by geotextile woven fabric.

Alternate No. 2, Phase I – (TE-22) Shell Plug #4, consisted of reconstructing a shell plug and armoring the plug with prefabricated, articulated, concrete mats.

The contract was awarded to Johnny F. Smith Truck & Dragline Service, Inc., which subcontracted the whole project to Bertucci Constructing Co., Inc.; hereinafter referred to as the “Contractor” for $895,100.00 with a Notice To Proceed issued on March 6, 2000. The award consisted of the Base Bid and both Alternates (See Table 1). The Contractor started mobilizing equipment on April 17, 2000.
<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>QTY</th>
<th>UNIT PRICE</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mob/Demob</td>
<td>Lump</td>
<td>1</td>
<td>$30,000.00</td>
<td>$30,000.00</td>
</tr>
<tr>
<td>2</td>
<td>Lake Chapeau (TE-26) Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>1,000</td>
<td>$5.00</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>3</td>
<td>Lake Chapeau (TE-26) Installation of Stone</td>
<td>Ton</td>
<td>1,500</td>
<td>$47.50</td>
<td>$71,250.00</td>
</tr>
<tr>
<td>4</td>
<td>Phase III – Mobile Canal Extension (TE-22) – Area No. 4 Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>8,350</td>
<td>$5.00</td>
<td>$41,750.00</td>
</tr>
<tr>
<td>5</td>
<td>Phase III – Mobile Canal Extension (TE-22) – Area No. 4 Installation of Stone</td>
<td>Ton</td>
<td>11,200</td>
<td>$47.50</td>
<td>$532,000.00</td>
</tr>
</tbody>
</table>

**TOTAL** $680,000.00

<table>
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<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>QTY</th>
<th>UNIT PRICE</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Phase III – Mobile Canal Extension (TE-22) – Area No. 5 Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>1,400</td>
<td>$5.00</td>
<td>$7,000.00</td>
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<tr>
<td>7</td>
<td>Phase III – Mobile Canal Extension (TE-22) – Area No. 5 Installation of Stone</td>
<td>Ton</td>
<td>2,000</td>
<td>$47.50</td>
<td>$95,000.00</td>
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</table>

**TOTAL** $102,000.00

<table>
<thead>
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<th>UNIT PRICE</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Phase I – TE-22 Maint. – Shell Plug #4</td>
<td>LUMP SUM</td>
<td>1</td>
<td>$5,000.00</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>2</td>
<td>Phase I – Installation of Articulated, Closed Cell Concrete Mats</td>
<td>EA</td>
<td>94</td>
<td>$1,150.00</td>
<td>$108,100.00</td>
</tr>
</tbody>
</table>

**TOTAL** $113,100.00
3. Verification of Project Completion

Alternate #2 - Phase I (TE-22)
Shell Plug #4

The original design of this project consisted of rebuilding the damaged shell plug with dredged material then placing the concrete mats on the gulf side of the plug to armor it from over wash. Prior to the start of the project it was determined that Williams Field Services owned four pipelines located beneath the plug. Subsequently, Williams Field Services requested that tracking heavy equipment on the plug be prohibited. A change was made in the design of the plug to eliminate placing the mats over the pipelines. The plug would still be reconstructed with dredged material from the canal. Mats would be utilized on the beach to the East and West of the plug. The contractor claimed that the terrain on either side of the plug would not support the weight of the crane he planned to use. Therefore, he requested and received a change order for the increase cost of a crane mounted on a marsh buggy. A separate change order was initiated prior to construction to increase the quantity of concrete mats from 94 to 125.

The contractor started the concrete mat installation for alternate number two of Phase I (TE-22) for the shell plug No. 4 on April 19, 2000. The contractor installed 125 concrete mats with the crane mounted marsh buggy. A total of 67 mats were placed on the West Side of the plug and 58 mats were placed on the East Side. The reconstruction of the plug was completed and all the mats installed on 5/24/00. The clamping and anchoring operation of the concrete mats was not completed until the very end of the entire project.

Base Bid – Phase III (TE-22)
Mobile Canal Extension – Area No. 4

The original design of this project consisted of constructing a breakwater using 32-inch armament stone underlain by woven geotextile fabric. The design called for the breakwater to be constructed 3000 feet long by 25 feet wide containing approximately 11,200 tons of 250-pound class stone and 8,350 square yards of geotextile woven fabric. Prior to construction a change order was issued to increase the rock quantity by 1,200 tons to repair a breech located between Area No. 4 and Area No. 5.

The contractor started light loading barges on 5/8/00 in order to float them to the site. This process continued until 5/28/00 at which time all the rock was delivered to the two breakwater sites (Areas No. 4 & No. 5) and the Lake Chapeau Weir.
On 5/11/00 the contractor moved equipment to the breakwater site. The contractor started the breach repair on 5/11/00 and completed the repair on 5/12/00 with a total length of 388 feet.

Area No. 4 construction started on 5/13/00 and was complete on 6/1/00. The as-built breakwater contained 11,130 tons of stone and 9,285 square yards of fabric. The actual length completed was approximately 3037 feet.

Alternate #1 – Phase III (TE-22)
Mobile Canal Extension – Area No. 5

The original design of this project consisted of constructing a breakwater using 32-inch armament stone underlain by woven geotextile fabric. The design called for the breakwater to be constructed 600 feet long by 25 feet wide containing approximately 2,000 tons of 250-pound class stone and 1,400 square yards of fabric.

Area No. 5 construction started on 6/1/00 and was complete on 6/4/00. The as-built breakwater contained 2,448 tons of stone and 1,946 square yards of fabric. The actual length completed was approximately 625 feet.

Base Bid – Lake Chapeau (TE-26)
Weir

The original design of this project consisted of repairing a breached spoil bank by constructing a weir approximately 500 feet long. The weir was to be constructed using 1,500 tons of 250-pound class stone and 1,000 square yards of geotextile woven fabric. A change order added a line item prior to the start of construction to include flotation dredging to access the project. It consisted of 6-12 hour days of flotation dredging at $365.00 per hour totaling $26,280.00.

The dredging work started on 6/5/00 and only took 12 hours at a total cost of $4,380.00. The weir construction started on 6/6/00 and was complete on 6/7/00. The as-built weir consumed 1,703 tons of stone and 1284 square yards of fabric. The actual length completed was approximately 700 feet. Upon completion of the weir, DNR requested some additional dredging be done by the contractor to the West Side of the weir in the pipeline canal. It took approximately 4 hours of dredging to complete this task, at a cost of $1,460.00.

4. Total Quantities of Materials Installed

With the exception of the Lake Chapeau (TE-26) project, all projects experienced slight overruns. A balancing change order was issued to encompass these overruns. The total quantity of materials installed is reflected in Table 2.
### TABLE 2

**BASE BID (Lake Chapeau) – (Weir) Actual**

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>BID QTY</th>
<th>ACTUAL QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mob/Demob</td>
<td>Lump</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>1,000</td>
<td>1,284</td>
</tr>
<tr>
<td>3</td>
<td>Installation of Stone</td>
<td>Ton</td>
<td>1,500</td>
<td>1,703</td>
</tr>
</tbody>
</table>

**BASE BID (Point Au Fer) – (Mobile Canal Area No. 4) Actual**

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>BID QTY</th>
<th>ACTUAL QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>8,350</td>
<td>9,285</td>
</tr>
<tr>
<td>2</td>
<td>Installation of Stone</td>
<td>Ton</td>
<td>11,200</td>
<td>11,130</td>
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</table>

**ALTERNATE NO. 1 – (Phase III Area No. 5) Actual**

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<th>Item</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Mob/Demob</td>
<td>Lump</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>1,400</td>
<td>1,946</td>
</tr>
<tr>
<td>3</td>
<td>Installation of Stone</td>
<td>Ton</td>
<td>2,000</td>
<td>2,448</td>
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**ALTERNATE NO. 2 – (Shell Plug #4) Actual**

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<th>ACTUAL QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Phase 1 – (TE-22) Maintenance</td>
<td>LUMP</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Phase 1 – Install Concrete Mats</td>
<td>EA</td>
<td>94</td>
<td>94</td>
</tr>
</tbody>
</table>
5. Conformance to Plans and Specifications

The original design of Lake Chapeau (TE-26) project was to repair a breached spoil bank by constructing a weir approximately 500 feet long. The as-built weir is approximately 700 feet long. The stone and fabric experienced slight overruns but the dredging quantity came in low. Overall, this project experienced a savings of over $9,000.00. This project was constructed as per the contract plans and specifications and to the satisfaction of DNR.

The original design of the Phase III Mobile Canal Extension (TE-22) – Area No. 4 was to construct a breakwater using 32-inch armament stone underlain by woven geotextile fabric. The design called for the breakwater to be constructed 3000 feet long by 25 feet wide. The actual length constructed is approximately 3037 feet. Prior to construction, a change order increased the rock by 1,200 tons to repair a breech located between Area No. 4 and Area No. 5. The breach repair was approximately 388 feet. Overall, this project experienced an overrun. This project was constructed as per the contract plans and specifications and to the satisfaction of DNR.

The original design of Phase III Mobile Canal Extension (TE-22) – Area No. 5 project was to construct a breakwater using 32-inch armament stone underlain by woven geotextile fabric. The design called for the breakwater to be constructed 600 feet long by 25 feet wide containing approximately 2,000 tons of 250-pound class stone and 1,400 square yards of fabric. The as-built breakwater contained 2,448 tons of stone and 1,946 square yards of fabric. The actual length constructed was approximately 625 feet. Overall this project experienced an overrun. This project was constructed as per the contract plans and specifications and to the satisfaction of DNR.

The original design of the Phase I Shell Plug No. 4 (TE-22) project consisted of rebuilding the damaged shell plug with dredged material then placing the concrete mats on the gulf side of the plug to armor it from over wash. Prior to the start of the project it was determined that Williams Field Services owned four pipelines located beneath the plug. Subsequently, Williams Field Services requested that tracking heavy equipment on the plug be prohibited. A change was made in the design of the plug to eliminate placing the mats over the pipelines. The plug would still be reconstructed with dredged material from the canal. Mats would be utilized on the beach to the East and West of the plug. The contractor claimed that the terrain on either side of the plug would not support the weight of the crane he planned to use. Therefore, he requested and received a change order for the increase cost of a crane mounted on a marsh buggy. A separate change order was initiated prior to construction to increase the quantity of concrete mats from 94 to 125. The contractor anchored the mats as per the manufacturer’s
recommendations. A total of 67 mats were placed on the West Side of the project and 58 mats were placed on the East Side. This project was constructed as per the revised contract plans and specifications and to the satisfaction of DNR.

The contractor was allowed 120 days to complete the Base Bid and Alternates 1 & 2. The contractor used 97 days to complete the entire project including all change orders. The contractor demobilized all of his equipment on 6/8/00. The anchoring of the mats took three additional days and the project was 100% complete on 6/10/00.

6. Project Deviations

With exception to the changes on the Shell Plug No. 4 project, the Lake Chapeau and Point Au Fer projects experienced only minor deviations. The cost overruns will be adjusted by one balancing change order. The original Base Bid, including alternates 1 & 2, was $895,100.00. The final price for the project totaled $1,078,546.04 (see Tables 3 & 4).

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>BID QTY</th>
<th>UNIT PRICE</th>
<th>TOTAL PRICE</th>
</tr>
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<td>$92,650.00</td>
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<td>$26,280.00</td>
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<tr>
<td>3</td>
<td>Change Order #3 – Marsh Buggy Mounted Crane</td>
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<td>$36,326.04</td>
<td>$36,326.04</td>
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<tr>
<td>4</td>
<td>Change Order #4 – (Balancing)</td>
<td>EA</td>
<td>1</td>
<td>$37,567.50</td>
<td>$37,567.50</td>
</tr>
<tr>
<td>5</td>
<td>Base Bid</td>
<td>EA</td>
<td>1</td>
<td>$680,000.00</td>
<td>$680,000.00</td>
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<tr>
<td>6</td>
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<td>EA</td>
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<td>$102,000.00</td>
<td>$102,000.00</td>
</tr>
<tr>
<td>7</td>
<td>Alternate #2</td>
<td>EA</td>
<td>1</td>
<td>$113,100.00</td>
<td>$113,100.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>$1,087,923.54</strong></td>
<td></td>
</tr>
</tbody>
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### TABLE 4

**BASE BID (Lake Chapeau) - (Weir) Actual**

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
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<th>UNIT PRICE</th>
<th>TOTAL PRICE</th>
</tr>
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<td>Mobe/Demobe</td>
<td>Lump</td>
<td>1</td>
<td>$15,000.00</td>
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<td>2</td>
<td>Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>1,284</td>
<td>$5.00</td>
<td>$ 6,420.00</td>
</tr>
<tr>
<td>3</td>
<td>Installation of Stone</td>
<td>Ton</td>
<td>1,703</td>
<td>$47.50</td>
<td>$ 80,892.50</td>
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<td>4</td>
<td>Change Order #2-Dredging</td>
<td>HR</td>
<td>16</td>
<td>$365.00</td>
<td>$ 5840.00</td>
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</table>

**TOTAL** $108,152.50

**BASE BID (Point Au Fer) – (Phase III Area No. 4) Actual**

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<th>Item</th>
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<th>BID QTY</th>
<th>UNIT PRICE</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>8,350</td>
<td>$5.00</td>
<td>$41,750.00</td>
</tr>
<tr>
<td>2</td>
<td>Installation of Stone</td>
<td>Ton</td>
<td>11,200</td>
<td>$47.50</td>
<td>$532,000.00</td>
</tr>
<tr>
<td></td>
<td>CHANGE ORDER #4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Balancing)</td>
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<tr>
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<td>Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>935</td>
<td>$5.00</td>
<td>$ 4,675.00</td>
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<tr>
<td></td>
<td>Installation of Stone</td>
<td>Ton</td>
<td>(70)</td>
<td>$47.50</td>
<td>($ 3,325.00)</td>
</tr>
</tbody>
</table>

**TOTAL** $575,100.00

**ALTERNATE NO. 1 - (Phase III Area No. 5) Actual**

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>QTY</th>
<th>UNIT PRICE</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mobe/Demob</td>
<td>Lump</td>
<td>1</td>
<td>$15,000.00</td>
<td>$ 15,000.00</td>
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<td>2</td>
<td>Installation of Woven Geotextile Fabric</td>
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<td>1,400</td>
<td>$5.00</td>
<td>$ 7,000.00</td>
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<tr>
<td>3</td>
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<td>Ton</td>
<td>2,000</td>
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<td>$ 95,000.00</td>
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<td>CHANGE ORDER #4</td>
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<td>(Balancing)</td>
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<td></td>
<td>Installation of Woven Geotextile Fabric</td>
<td>SY</td>
<td>546</td>
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<td>Installation of Stone</td>
<td>Ton</td>
<td>448</td>
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<td>Breach - Additional Stone</td>
<td>Ton</td>
<td>257</td>
<td>$47.50</td>
<td>$ 12,207.50</td>
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<td>5</td>
<td>Change Order #1 Install Stone – Breach Repair</td>
<td>Ton</td>
<td>1,200</td>
<td>$47.50</td>
<td>$ 57,000.00</td>
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</tbody>
</table>

**TOTAL** $210,217.50
7. Conclusion

The Point Au Fer – Lake Chapeau Restoration projects is another example of the NMFS and DNR’s ongoing dedication and efforts to the restoration of the Louisiana coastline and marshlands. A tremendous amount of valuable information is learned from each and every project that can and will be used on future restoration projects. Picciola & Associates was pleased to be a part of this project. The knowledge and experience gained were immeasurable. The coastal restoration effort is much stronger due to this project’s successes. We look forward to working with the NMFS and DNR on Restoration Projects in the near future.
PHASE I

TE-22

SHELL PLUG NO. 4
Lake Chapeau

TE-26

Weir
PHASE III MOBILE CANAL EXTENSION

TE-22

AREA 4 & 5
1. Project Managers/Contracting Officers:

   Federal Agency: NMFS
   Project Manager: Cheryl Brodnax   Phone: (225) 578-7923
   State Agency: Louisiana Department of Natural Resources
   Construction Manager: Daniel Dearmond   Phone: (985) 449-5103
   Project Representative: Picciola & Associates, Inc.
   Project Manager: Joe Picciola   Phone: (985) 632-5786
   Project Rep.: Ray Leblanc   Phone: (985) 632-5786
   Land Owner: Point Au Fer, L.L.C.
   Land Manager: Allan Ensminger   Phone: (337) 462-0762
   Contractor: Luhr Bros., Inc.
   Project Manager: Lonnie Dunn   Phone: (318) 489-9263

2. Location and description of projects as approved for construction:

   The Pointe Au Fer Breach Repair Project is located on the Pointe Au Fer Island, in the vicinity of Lake Chapeau, approximately 30 miles south of Morgan City, Louisiana. The project is bounded by Four League bay to the north, Atchafalaya Bay to the West, Locust Bayou and a network of canals to the south, and Wildcat Bayou to the east. The principle project featured included the of two (2) rock plug structures across existing oil field canals at the Gulf of Mexico, one (1) rock weir structure and one (1) bulkhead plug.

   This Project consists of adding 250# class rock rip rap to the existing rock dykes at Mobil Canal and Transco Canal. These dykes were originally placed to prevent beach erosion and subsequent breaches into the aforementioned canals from the Gulf of Mexico. Both rock dykes were extended laterally from the existing dykes over the beach area and into the marsh. Also, at
Hester Canal, the bulkhead at Plug #8 was breached on the south marsh side. This breach was closed by extending the bulkhead into the marsh area on the south side. Articulated Mats on Geotextile Fabric were placed on the south side of the bulkhead in the marsh to prevent future wash around. Added to the project was the closure of the breach at Weir #3. This was accomplished by adding approximately 50 linear foot of rock rip rap to the south side of the weir. Articulated Mats on Geotextile Fabric were also placed at this site on the south side of the bulkhead in the marsh to prevent future wash around.

3. Final, As-Built features.

The Final Project features followed exactly as planned.

The amount of 250# Class Rip-Rap quantity varied slightly from the planned quantity and is noted in the inspection reports and included in this report.

4. Key Project Cost Elements

<table>
<thead>
<tr>
<th>Work Order Estimate</th>
<th>Actual Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>$240,765</td>
</tr>
<tr>
<td>Engineering and Design</td>
<td>$29,947</td>
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<tr>
<td>Bidding</td>
<td>$1,172</td>
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<tr>
<td>Construction Administration</td>
<td>$10,898</td>
</tr>
<tr>
<td>Construction Oversight</td>
<td>$24,550</td>
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<tr>
<td>Project Totals:</td>
<td>$307,332</td>
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</tbody>
</table>

*Note: Amount does not include LDNR Administrative Costs.
5. Items of Work:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item of Work</th>
<th>Quantity</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Bid Amount</th>
<th>Final Quantity</th>
<th>Final Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>Mobilization &amp; Demobilization</td>
<td>1</td>
<td>LS</td>
<td>$54,875.00</td>
<td>$54,875.00</td>
<td>1</td>
<td>$54,875.00</td>
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<tr>
<td>2</td>
<td>Rip Rap (250# Class)</td>
<td>3,450</td>
<td>Ton</td>
<td>$78.00</td>
<td>$269,100.00</td>
<td>3,336</td>
<td>$260,208.00</td>
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<tr>
<td>3</td>
<td>Rip Rap (55# Class)</td>
<td>0</td>
<td>Ton</td>
<td>$0.00</td>
<td>$0.00</td>
<td>0</td>
<td>$0.00</td>
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<tr>
<td>4</td>
<td>Geotextile Fabric</td>
<td>2,690</td>
<td>SY</td>
<td>$6.00</td>
<td>$16,140.00</td>
<td>2,690</td>
<td>$16,140.00</td>
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<tr>
<td>5</td>
<td>Timber Piles (2.5 CCA Treated - 40’ Long)</td>
<td>440</td>
<td>LF</td>
<td>$35.00</td>
<td>$15,400.00</td>
<td>440</td>
<td>$15,400.00</td>
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<tr>
<td>6</td>
<td>Piling Caps (Galvanized)</td>
<td>7</td>
<td>Each</td>
<td>$30.00</td>
<td>$210.00</td>
<td>7</td>
<td>$210.00</td>
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<tr>
<td>7</td>
<td>Vinyl Sheet Pile</td>
<td>61</td>
<td>LF</td>
<td>$250.00</td>
<td>$15,250.00</td>
<td>61</td>
<td>$15,250.00</td>
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<tr>
<td>8</td>
<td>2 x 8 Timber Waler (0.8 CCA Treated)</td>
<td>122</td>
<td>LF</td>
<td>$30.00</td>
<td>$3,660.00</td>
<td>122</td>
<td>$3,660.00</td>
</tr>
<tr>
<td>Item</td>
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<td>Quantity</td>
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<td>------</td>
<td>-------------------------------------------</td>
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<td>------------</td>
<td>-------------</td>
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<tr>
<td>9</td>
<td>2 x 8 Timber Waler (2.5 CCA Treated)</td>
<td>LF</td>
<td>122</td>
<td>$32.00</td>
<td>$3,904.00</td>
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<tr>
<td>10</td>
<td>2 x 12 Timber Cap (0.8 CCA Treated)</td>
<td>LF</td>
<td>61</td>
<td>$35.00</td>
<td>$2,135.00</td>
<td></td>
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<tr>
<td>11</td>
<td>Galvanized Hardware For Vinyl Bulhead</td>
<td>LS</td>
<td>1</td>
<td>$1,400.00</td>
<td>$1,400.00</td>
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<tr>
<td>12</td>
<td>Articulated Mat (Submar 20’ x 8’ x 4.5” Thick)</td>
<td>Each</td>
<td>7</td>
<td>$2,600.00</td>
<td>$18,200.00</td>
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**Base Bid/Final Contract Totals (Items 1 thru 12)**  
$400,274.00  
$391,382.00
6. Construction and construction oversight:

**ITEM**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Prime Construction Contractor</td>
<td>Luhr Bros., Inc.</td>
</tr>
<tr>
<td>Subcontractor</td>
<td>Dupre Bros. Construction, Inc.</td>
</tr>
<tr>
<td>Original Construction Contract</td>
<td>$400,274.00</td>
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<tr>
<td>Change Orders</td>
<td>$0.00</td>
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<tr>
<td>Over/Under Runs</td>
<td>($8,892.00)</td>
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<tr>
<td>Damages</td>
<td>$0.00</td>
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<tr>
<td>Construction Admin./Oversight (Picciola &amp; Associates, Inc.)</td>
<td>$17,584.50</td>
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<tr>
<td>Total Construction Contract Cost</td>
<td>$408,966.50</td>
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7. Major Equipment:

Luhr Bros., Inc.

SL Barge – L1029  
Spud Barge – L985  
Office Barge – L1031  
Rock Barge – L1080, BV1091, L1083  
Material Barge – L1641  
1 – Tug Boat – M/V Billy Gene  
1 – Crew Boat – M/V Houston  
1 – Tender Boat – M/V Mary B  
1 – Excavator – 385 Caterpillar  
1 – Excavator – 330 Caterpillar  
1 – Excavator – 325 Caterpillar  
1 – Loader – 973 Track Loader

Dupre Brothers Construction, Inc.

Spud Barge – Little David with Crane LS 128  
1 – Tug Boat – M/V Kent  
Deck Barge – Paint Barge  
20 ft. Aluminum Outboard

8. Discuss construction sequences and activities, problems encountered, solutions to problems, etc.

a) Luhr Bros., Inc. mobilized in first for this project with the rock rip rap.

b) They first mobilized into the Atachafalaya River and light loaded the rock barges. It was at this site that the barges were measured for quantity of rock tonnage.

c) Once mobilized to Weir #3, they established alignment for the extension of the rock weir.

d) They then placed geotextile fabric along the proposed alignment and pinned it down.

e) Rock rip rap was then placed over the geotextile fabric as depicted on the plans.
f) The contractor then mobilized to Mobil Canal.
g) The procedure for placing rock was the same as was conducted for Weir #3.
h) The contractor then mobilized to Transco Canal.
i) The procedure for placing rock was the same as was conducted for Weir #3 and Mobile Canal.
j) Luhr Bros., Inc. subcontracted Dupre Brothers Construction, Inc. to construct the vinyl sheet pile bulkhead extension at Plug #8 and place the Articulated Mats at Plug #8 and Weir #3.
k) Dupre Brothers Construction, Inc. first mobilized to Plug #8 for construction of the vinyl bulkhead.
l) The Timber Vertical Piles were driven to grade.
m) Then the Timber Batter Piles were driven to grade and bolted to the Vertical Piles.
n) The timber walers nearest the piles were placed for bulkhead alignment.
o) Then the Vinyl Bulkhead was driven.
p) Then the exterior board of the top and bottom timber walers were placed and then bolted together.
q) Then the timber cap was installed and nailed to the top walers.
r) The contractor then placed geotextile fabric along the proposed alignment of the Articulated Mats and pinned it down.
s) The contractor then placed the Articulated Mats over the geotextile fabric.
t) Dupre Brothers Construction, Inc. then mobilized to Weir #3 for placement of Articulated Mats.
u) The procedure for placing the Articulated Mats was the same as was conducted for Plug #8.

9. Construction Change Orders and Field Changes:

Not Applicable.

10. Pipeline and other utility crossings.

Not Applicable.
11. Safety and Accidents:

Excellent Safety Record with no Accidents Reported.

12. Additional Comments pertaining to construction, completed project, etc.

All aspects of the project went as planned. The Contractor should be commended for his diligence and quality of work.

Aspects of the project that should be noted concern the shallow water accessibility the project. This caused a lot of extra handling of the rock rip rap and made the unit cost of the rock rip rap high.

One other aspect of the project to be noted is the proximity of the work to oyster leases. This made the contractor take extra care when transiting to and from the different sites. Also, the oyster leasee’s required payment of some type just for transiting the equipment in and around the oyster leases. This added a significant amount of cost to the project.

13. Significant Construction Dates:

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Construction Contract Award</td>
<td>07/12/05</td>
</tr>
<tr>
<td>Pre-construction Conference</td>
<td>07/27/05</td>
</tr>
<tr>
<td>Notice to Proceed</td>
<td>07/27/05</td>
</tr>
<tr>
<td>Mobilization</td>
<td>08/01/05</td>
</tr>
<tr>
<td>Construction Start</td>
<td>08/02/05</td>
</tr>
<tr>
<td>Construction Completion</td>
<td>08/25/05</td>
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<tr>
<td>Final Acceptance</td>
<td>09/09/05</td>
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</table>
ATTACHMENT V

POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

CONSTRUCTION DRAWINGS
POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT – PHASE II

September, 1996

INDEX TO SHEETS

<table>
<thead>
<tr>
<th>SHEET NO.</th>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>2</td>
<td>AERIAL BASE MAP – AREA 1</td>
</tr>
<tr>
<td>3</td>
<td>AERIAL BASE MAP – AREA 2</td>
</tr>
<tr>
<td>4</td>
<td>TYPICAL SECTIONS AND DETAILS</td>
</tr>
<tr>
<td>5</td>
<td>SURVEY VICINITY MAP</td>
</tr>
<tr>
<td>6</td>
<td>SURVEY SITE PLAN</td>
</tr>
<tr>
<td>7</td>
<td>SURVEY CROSS SECTIONS</td>
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<tr>
<td>8</td>
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<tr>
<td>9</td>
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</tr>
<tr>
<td>10</td>
<td>SURVEY CROSS SECTIONS</td>
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U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
and the
State of Louisiana Department of Natural Resources
Coastal Restoration Division
U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
and the
State of Louisiana Department of Natural Resources
Coastal Restoration Division

Plans of Purposed

POINT AU FER ISLAND
HYDROLOGIC RESTORATION PROJECT
PHASE III EXTENSION (TE-22)

June, 1999

INDEX TO SHEETS

<table>
<thead>
<tr>
<th>FIGURE NO.</th>
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<tr>
<td>2</td>
<td>AERIAL, BASE MAP</td>
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<tr>
<td>3</td>
<td>AERIAL, BASE MAP – AREA 4</td>
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<tr>
<td>4</td>
<td>AERIAL, BASE MAP – AREA 5</td>
</tr>
<tr>
<td>5–7</td>
<td>TYPICAL SECTION AND DETAILS</td>
</tr>
</tbody>
</table>

Vicinity Map
N.T.S.

Location Map
N.T.S.
State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

POINT AU FER ISLAND
HYDROLOGIC RESTORATION PROJECT
PHASE III EXTENSION (TE-22)
AREA NO. 4 AND AREA NO. 5

AS BUILT

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGINEERS
LAND SURVEYORS
P.O. BOX 887
CUT OFF, LOUISIANA 70345
(504) 632-3786

NAVAL ARCHITECTS
MARINE ENGINEERS

INDEX TO SHEETS:

<table>
<thead>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>2</td>
<td>HYPOTHETICAL MAP</td>
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<tr>
<td>3</td>
<td>SITE PLAN</td>
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<td>CROSS-SHEETS STA. 85+00 - 95+00</td>
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<tr>
<td>5</td>
<td>CROSS-SHEETS STA. 95+00 - 105+00</td>
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<tr>
<td>7</td>
<td>CROSS-SHEETS STA. 115+00 - 125+00</td>
</tr>
</tbody>
</table>

TOTAL NO. OF SHEETS 7
GENERAL NOTES:

1. Prior to any excavation, the Contractor shall call GDOT at 1-800-272-0253 to locate any existing utility lines in the area. A contractor's Certificate of Work shall be submitted to the proper utility companies and submitted to the Engineer prior to any excavation. Attention should be given to the utility company's rules and regulations.

2. The construction of the breakwater within Area 2 consists of nonwoven geotextile fabric placed on submerged and exposed portions of the breakwater. The construction of the breakwater within Area 2 consists of a woven geotextile overlain by 23 inches of riprap. Riprap will be as specified in the Technical Specifications. Construction shall proceed in accordance with the construction drawings.

3. AITP-type riprap shall meet Louisiana Department of Transportation and Development's specification for rock size No. 300, as long as it meets the requirements for rock size 101. Riprap test pieces must be cut and approved prior to placement on the breakwater. Riprap pieces will be sized to reduce any damage to the geotextile fabric. Riprap will be placed within the construction limits of the geotextile fabric.

4. Actual placement may be adjusted by project engineer to meet changing field conditions. Additional quantities for geotextiles and armor stone are necessary; they will not be paid for at the unit price bid for the item.

5. Minimum overlap of geotextile and armor stone shall be three feet for geotextiles and two feet for nonwoven geotextile fabric.
TRANSCO CANAL

PLUG NO. 4
PLAN VIEW

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

ARTICULATED CONCRETE MAT

SH-SH MATERIAL

SHELL FILL

ARTICULATED CONCRETE MAT

ADDENUM NO. 1

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
72-32 POINT AU FEU
HYDROLOGIC RESTORATION
TRANSCO CANAL
PLUG NO.
PLANS & SPECIFICATIONS
OCTOBER 10, 1999
NOTES:
1. Pipeline locations are approximate. Transco will locate each pipeline prior to construction. The contractor will notify Transco within 2 weeks prior to any construction activities.
2. Plug Nos. 1, 2, 6, 7, and 8 to be constructed using reef shell. See Drawing No. C24-850-31 for details.
3. Plug Nos. 4, 5, 8, 10, and 12 to be constructed using concrete. See Drawing No. C24-850-32 for details.
4. Base information taken from digitized quantronics maps on sheet 1; in AutoCAD format provided by American DigiMap, Inc.
5. Existing bulkhead at the west end of the Hester Canal requires demolition for construction equipment access.
6. Continuous GPS. Actual plug ends are marked in the field.
7. Current depths along access route are 2' or less.
NOTES:
1. Pipeline Locations Are Approximate. Transco Will Locate Each Pipeline Prior To Construction. The Contractor Shall Notify Transco Within 2 Weeks Prior To Any Construction Activities.
2. Plug No. 4 To Be Constructed Using Reef Shelf. See Drawing No. C24-850-29 For Details.
3. Base Information Taken From Digitized Quadrangle Maps On Diskette in AutoCad Format Provided By American Digital Cartography.
4. Latitudes and Longitudes Given For Plugs In The Transco Canal Are For Ends Of Plugs On The Easterly Bank. Latitudes and Longitudes Are Given Using a Handheld GPS. Actual Plug Ends Are Staked In The Field.
NOTES:

1. The 3" border on the Warning Sign Will be a Reflective Material of Orange Color. The Lettering Plate Will be a Reflective Material of White Color. The Lettering For the Warning Sign Will Be Black. Warning Signs Will Be Placed On the Upstream And Downstream Side Of All Structures. All Signs Must Meet U.S. Coast Guard Standards, In Accordance With 33 CFR 330-4 (a) (1).

2. Neoprene Washers Shall Be Placed Between The Sign And Steel Pipe, At All Points Of Contact.

NOTES:
1. Plug No. 3A Shall Be Constructed Using Reef Shell
   As Specified In Technical Specification No. 3.0.
2. Prior To Placement Of Reef Shell, Geosynthetic Fabric
   Shall Be Placed As Shown And As Specified By
   Technical Specification No. 3.3.
3. All Side Slopes For Reef Shell Shall Be 3:1 Horizontally
   To 1 Vertical (3:1).
4. Mean High Tide = 1.5' NGVD
5. Mean Low Tide = 0.0' NGVD
6. Distance From Water's Edge To End Of Canal Plug
   Is Approximately 30 Feet, Varying With Site Level.
7. Elevation At Top Of Plug To Be +4.0' NGVD.
8. Estimated Volume Of Reef Shell Is Approximately
   1,200 Cubic Yards.
9. Settlement Of Reef Shell Is Expected Due To Low
   Shear Strength Of Soil. Actual Settlement Will
   Vary With The Maximum Settlement Experienced
   At The Center Of The Plug And The Minimum New
   Outside Of The Plug. Elevations Have Been
   Inaccurately To Allow For Settlement.
10. For Plug Location See Drawing No. C24-800-17.
11. For Warning Signs Details See Drawing No.
    C24-800-37.

REFERENCES:
1. Coastal zone Section Information Provided By
   Department of Natural Resources, Coastal
   Restoration Division On Dessin In Autocad
   Format.
2. C-K Associates, Inc. Fact Book No. 94-01
   Pages 29 - 39.

HORIZONTAL AND VERTICAL SCALE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE

PLUG NO. 3A PLAN
AND SECTIONS

ASSOCIATES, INC.
BATON ROUGE, LOUISIANA

E. SCOTT CREGG, PE.
(225) 388-2600

DATE REV.
SHEET 1 OF 3

1994-11-08
12/05-09-66

1/3/94
2/15/94

PLUG NO. 3A - TRANSCO CANAL
PLAN VIEW

APPROXIMATE LIMITS
OF REEF SHELL

SECTION 1 - 1
LOOKING NORTH
NOTES:
1. Plug No. 4 Shall Be Constructed Using Reef Shell As Specified In Technical Specification No. 3.0.
2. Prior To Placement Of Reef Shell, Geotextile Fabric Shall Be Placed As Shown And As Specified By Technical Specification No. 3.2.
3. All Side Slopes For Reef Shell Shall Be 3 Horizontal To 1 Vertical (3:1).
4. Mean High Tide = 7.5' NGLD
5. Mean Low Tide = 0.0' NGLD
6. Distance From Water's Edge To End Of Cone Plug Is Approximately 30 Feet, Varying With Tide Level.
7. Elevation At Top Of Plug To Be +4.0' NGLD.
10. For Plug Location See Drawing No. C24-800-18.

REFERENCES:
1. Canal Cross Section Information Provided By Department of Natural Resources, Coastal Restoration Division On Diskette In Adobe Format.

HORIZONTAL AND VERTICAL SCALE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE
POINT AU FEU ISLAND HYDROLOGIC RESTORATION PROJECT
PLUG NO. 4
PLAN AND SECTIONS

ASSOCIATES, INC.

CHECKED: REVIEW: SHEET: 8 OF 17
"J" 2007-03-20 2007-03-20
### SUMMARY OF ESTIMATED QUANTITIES

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MOBILIZATION AND DEMOBILIZATION</td>
<td>LUMP SUM</td>
<td>LUMP SUM</td>
</tr>
<tr>
<td>2</td>
<td>STONE RIPRAP (250 lb. CLASS)</td>
<td>TONS</td>
<td>3,450</td>
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<tr>
<td>3</td>
<td>STONE RIPRAP (55 lb. CLASS)</td>
<td>TONS</td>
<td>NONE</td>
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<td>4</td>
<td>GEOTEXTILE FABRIC</td>
<td>SQ. YD.</td>
<td>2,890</td>
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<td>5</td>
<td>TIMBER PLUNGS (2.5 CCA TREATED 40' LONG)</td>
<td>LIN. FT.</td>
<td>440</td>
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<tr>
<td>6</td>
<td>PLUNGS CAPS (Galvanized)</td>
<td>EACH</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>VINYL SHEET PLUNGS FULLHEAD</td>
<td>LIN. FT.</td>
<td>61</td>
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<tr>
<td></td>
<td>(HORIZONTAL 310 Deg APPROVED EQUAL)</td>
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<tr>
<td>8</td>
<td>2.5&quot;x8&quot; TIMBER WHALER (0.8 CCA TREATED)</td>
<td>LIN. FT.</td>
<td>122</td>
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<td>9</td>
<td>2.5&quot;x8&quot; TIMBER WHALER (2.5 CCA TREATED)</td>
<td>LIN. FT.</td>
<td>122</td>
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<td>10</td>
<td>2&quot;x13&quot; TIMBER CAP (0.8 CCA TREATED)</td>
<td>LIN. FT.</td>
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<td>11</td>
<td>GALVANIZED HARDWARE FOR VINYL FULLHEAD</td>
<td>LUMP SUM</td>
<td>LUMP SUM</td>
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<td>12</td>
<td>ARTICULATED MAT (SUBMAR 20'X4'X.5&quot; THICK) OR EQUIVALENT</td>
<td>EACH</td>
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</table>

**General Notes:**

1. Basic horizontal and vertical control points have been established or designated by the engineer and are shown on the plans. Contractor shall maintain and protect from damage or obliterating these control points and shall perform all additional survey, layout, and measurement work using these controls.
2. Contractor shall verify existing grades, elevations, and locations in the field prior to construction.
3. The contractor shall comply with all laws, rules, and regulations of the Louisiana State Police, the Louisiana and local health, sanitation, and fire authorities, and all other state or parish authorities having regulations and jurisdictional rights applicable to the work or job sites.
4. The contractor shall comply with all applicable federal, state, parish laws concerning pollution of waterways, and protection of shellfish, fish, waterfowl, wildlife, and domestic animals.
5. The contractor shall conduct his operations in such a manner as to cause the least possible interference with both through and local marine traffic.
6. Contractor shall employ effective measures to control erosion of natural and constructed surfaces.
7. The safety hazards prescribed by and the precautions defined within the OSHA, the USCG, and all other regulating authorities having jurisdiction and that are applicable to the work shall be adhered to and enforced by the contractor.
8. Temporary utilities and sanitary facilities for operation of the contractor's plant or equipment shall be provided and maintained at the expense of the contractor.
9. Coastal USE permits will be provided by the owner. The contractor shall be responsible for all other permits.

**Technical Notes:**

1. The contractor is notified that the work site is accessed through the Louisiana Dept. of Wildlife Management Area under the jurisdiction of the Louisiana Department of Wildlife and Fisheries. All personnel shall abide by the management area rules and regulations.
2. The contractor shall be responsible for navigating within the limits of the property area.
3. The contractor is notified that the property site is totally or adjacent to private or state property. Extreme caution shall be exercised in protection of property, habitat, and wildlife from damage or harm.
4. The contractor is notified that he will be conducting his operations in the vicinity of utilities, pipelines, flowlines, oil and gas structures and other mineral operations. The contractor shall provide advance notification prior to construction. Any damage shall be repaired at the contractor's expense.
5. A listing of all companies known to be conducting mineral operations and who have active wells and/or pipelines in the vicinity will be provided for reference. The contractor is responsible for determining whether there are others. Contractor shall contact Louisiana one call 72 hours prior to construction at 1-800-272-2020.
6. Drilling/Injection wells are prohibited on this job.

**As Built**

3,336 TONS (AS BUILT)
POINT AU FER ISLAND - BREACH REPAIR
PROJECT TE-22
TERREBONNE PARISH, LOUISIANA

AS BUILT NOTE:
AS BUILT TOTAL FOR RIPRAMP FOR THIS SITE IS 700 TONS

ROCK DIKE - BREACH SECTION
SCALE: 1" = 3'

ROCK DIKE - MASH SECTION
SCALE: 1" = 3'

CONSTRUCTION NOTES:
1. GEOTEXTILE FABRIC SHALL HAVE A MINIMUM 5' OVERLAP AT ALL INTERSECTIONS.
2. CONTRACTOR MAY HAVE TO REMOVE AND REPLACE SOME EXISTING RIPRAMP IN ORDER TO MAKE A SMOOTH TRANSITION INTO THE EXISTING RIPRAMP.
3. SIZE AND TYPE OF RIPRAMP SHALL BE 250 lb. CLASS STONE.
4. CONTRACTOR SHALL FOLLOW THE CONTIGUOUS END GRADE, NO EXISTING MATERIAL SHALL BE CUT OR REMOVED.
5. ACCESS TO THIS SITE SHALL BE LIMITED TO GULF SIDE ONLY.

CONTROL NOTES:
1. HORIZONTAL CONTROL IS BASED ON NAVD 88 - LOUISIANA SOUTH ZONE (1702) FEET.
2. VERTICAL CONTROL IS BASED ON NAVD 88 IN FEET.
3. SURVEY CONTROL POINTS SET BY OUR SURVEYOR AT EACH SITE USING 1/4" LONG GRAVITIZED IRON PIPES DRIVEN TO WITHIN 1'/0' FROM BEING FLUSH WITH GROUND.

GENERAL NOTES:
1. USE OF ANY SUB-OFFERED, REUSED OR STRUCTURES THAT MAY BE AT OR NEAR EACH SITE, CONTRACTOR SHALL WORK CLOSER WITH ANY COMPANY THAT MAY HAVE SUCH HANDOUTS OR STRUCTURES IN THE AREA.
2. SEE SHEET 2 FOR ADDITIONAL GENERAL AND TECHNICAL NOTES.

AS BUILT
DRAWING PLOTTED AT HALF-SCALE

SCALE: 1" = 40'
NOTE:
The proposed bulkhead shall not be attached to the existing bulkhead. It shall be fit flush with the existing bulkhead.

CONTRACTOR SHALL SAW CUT THIS 8' x 20' PANEL AS NECESSARY IN ORDER TO FIT WITHTING AROUND BULKHEAD.

SECTION "A" - "A"
SCALE: 1/4" = 1'-0"
SEE SHEET 6

DETAIL OF SHEET METAL PILE COVER
(TYPICAL ALL PILES)
NO SCALE

GENERAL NOTES:
1. Timber cap and top washer shall be 0.8 CCA treated timber.
2. The bottom washer shall be 2.5 CCA treated timber.
3. The timber cap shall be nailed to the top washers using new galvanized nails spaced at 3' O.C. Wood grain for timber cap shall be cupped facing downward.
4. All hardware shall be galvanized.
5. Contractor shall construct the new bulkhead closure using the same elevations of the existing structure as shown.

AS BUILT
POINT AU FER ISLAND - BREACH REPAIRS
PROJECT TE-22
TERREBONNE PARISH, LOUISIANA

AS BUILT NOTE:
AS BUILT TOTAL FOR RIPRAP FOR THIS SITE IS 325 TONS

NOTE:
ALL TOPOGRAPHY IS APPROXIMATE

CONTROL NOTES:
1. HORIZONTAL CONTROL IS BASED ON NAD 83 - LOUISIANA SOUTH ZONE (1702) FEET
2. VERTICAL CONTROL IS BASED ON NAVO 88 IN FEET

GENERAL NOTES:
1. PRIOR TO BEGINNING ANY WORK, CONTRACTOR SHALL BE RESPONSIBLE
   FOR THE LOCATION OF ANY SUB-SURFACE PIPELINE OR STRUCTURES THAT
   MAY BE AT OR NEAR EACH SITE. CONTRACTOR SHALL WORK CLOSER WITH
   THE DESIGNER TO DETERMINE THE PROPER LOCATION OF CONSTRUCTION
   AREAS. CONTRACTOR SHALL CONDUCT LOUISIANA ONE CALL 72 HOURS PRIOR
   TO CONSTRUCTION AT 1-800-272-4020
2. SEE SHEET 2 FOR ADDITIONAL GENERAL AND TECHNICAL NOTES

AS BUILT

TYPICAL SECTION
SCALE: 1" = 8'

SLOPE TO EXISTING RIPRAP

PROPOSED 250 lb. CLASS
STONE RIPRAP

EXISTING RIPRAP Hauled TO REMOVAL
(DOSO 250 CLASS)

EXISTING RIPRAP Hauled TO REMOVAL
(DOSO 250 CLASS)

SUBMARINE Hauled AT TOP OF ARTIFICIAL EMBANKMENT

ARTICULATED WIRE ON ARTIFICIAL EMBANKMENT

ARTICULATED WIRE ON ARTIFICIAL EMBANKMENT
NORTH SIDE

ARTICULATED WIRE ON ARTIFICIAL EMBANKMENT
SOUTH SIDE

MARSH AREA

DRAWING PLOTTED
AT HALF-SCALE

8 of 8
ATTACHMENT VI
POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT
PROJECT PERMITS
&
PERMIT AMENDMENTS
From: Van Cook
To: Chris Davis
Date: 2/20/01 3:20PM
Subject: Fwd: RE: P200100067, Coastal Use Permit Application

No adverse effect on the Pt au Fer (TE-22) project.

CC: Patricia Tate-Harris
I have reviewed the referenced permit application which is located near the Point au Fer Project (TE-22). It does not appear that the proposed repair/maintenance of bulkheads in existing pipeline corridors will adversely affect any restoration project components of Point au Fer project (TE-22).
MEMORANDUM

To: Hilary Thibodeaux, Engineer Intern 2
Through: Van Cook, Engineer Manager
From: Bill Good, Administrator

RE: P20010067 Coastal Use Permit Application
    Williams Energy Services
    CRD Project: TE-22 Point au Fer Canal Plugs

Please review the attached applications for Coastal Use Permits. Via Section Manager, e-mail comments and response to CMD Permit Analyst by February 16, 2001.

BG:pth
Attachment
MEMORANDUM

To: Bill Good, Administrator, CRD Administrator
Through: Terry Howey, CMD Administrator
Through: Rocky Hinds, CMD Permits/Mitigation Program Manager
Through: Bill Pittman, CMD Permits Coordinator
From: Chris Davis, CMD Permit Analyst

RE: P20010067, Coastal Use Permit Application

Williams Energy Services

Proposed repair of several, deteriorating bulkheads in various locations. Rip-rap, shell material, or grout mats will be used where erosion is either exposing segments of pipeline, or where material is eroding away from existing timber bulkheads, along several of their existing pipeline corridors. A combined total of 343 cubic yards of material will be used as fill. All fill material will be placed in the water or on existing spoil banks. Site location: site 1- Sec. 38, T20S-R12E, Lat. 29°17'16.89"N, Long. 91°10'05.28"W; site 2a - Sec. 1, T21S-R12E, Lat. 29°16'34.89"N, Long. 91°10'37.41"W; site 2b - Sec. 1, T21S-R12E, Lat. 29°16'05.36"N, Long. 91°10'39.76"W; Site 3 - Sec. 7, T21A-R12E, Lat. 29°16'32.85"N, Long. 91°10'42.88"W; Site 4 - Sec. 11, T21S-R12E, Lat. 29°14'59.22"N, Long. 91°11'12.84"W; Site 5 - Sec. 11, T21S-R12E, Lat. 29°14'58.80"N, Long. 91°11'32.48"W; Site 6a - Sec. 2, T21A-R11E, Lat. 29°16'06.68"N, Long. 91°17'32.98"W; Site 6b - Sec. 2, T21S-R11E, Lat. 29°16'05.60"N, Long. 91°17'32.80"W; Site 7 - Sec. 6, T21S-R12E, Lat. 29°16'13.11"N, Long. 91°15'25.12"W; Site 8 - Sec. 33, T20S-R12E, Lat. 29°16'28.94"N, Long. 91°13'51.39"W; Site 9 - Sec. 33, T20S-R12E, Lat. 29°16'31.13"N, Long. 91°13'23.97"W; Site 10 - Sec. 2, T21S-R11E, Lat. 29°16'21.58"N, Long. 91°17'22.15"W; Site 11 - Sec. 6, T20S-R12E, Lat. 29°16'15.84"N, Long. 91°15'03.96"W; Site 12 - Sec. 15, T21S-R12E, Lat. 29°14'28.83"N, Long. 91°12'15.72"W (East Bank) and Lat. 29°14'28.83"N, Long. 91°12'15.72"W (West Bank); Oyster Bayou, Point Au Fer, and Pout League Bay Areas; Terrebonne Parish, LA

The referenced activity will occur on or near the Point au Fer Canal Plugs (TE-22), Lake Chapeaux Sediment Input (TE-29) and Hydrologic Restoration au Fer Canal Plugs (TE-22). Please review the attached application and provide comment within a 15 day period.

CD

Enclosure
From: George Boddie
To: Chris Davis
Date: 2/19/01 2:28PM
Subject: Fwd: P20010067, Coastal Use Permit Application

see attached

CC: Patricia Tate-Harris
From: David Burkholder
To: Boddie, George
Date: 2/19/01 2:28PM
Subject: P20010087, Coastal Use Permit Application

P20010087, Coastal Use Permit Application
Williams Energy Services
CMD Permit Analyst - Chris Davis

I have reviewed the referenced permit application which is located within or near the boundaries of the Lake Chapeau Sediment Input (TE-26) CWPPRA project. It does not appear that the proposed repair/maintenance of bulkheads in existing pipeline corridors will interfere with any restoration project components; therefore, the activity for which the permits are being requested should not negatively impact the Lake Chapeau project.

My review was limited to those proposed repairs which are located within or near the Lake Chapeau project boundaries (Sites 6, 7, 10 & 11). The remaining sites shown on this permit application are located on or near the Pt au Fer (TE-22) project.

CC: Cook, Van; Gremillion, Paul; Thibodeaux, Hillary
MEMORANDUM

To: David Burkholder, Design Engineer Supervisor 2
Through: George Boddie, Engineer Manager
From: Bill Good, Administrator
RE: P20010067 Coastal Use Permit Application
    William Energy Services
    CRD Project: TE-26 Lake Chapeau Sediment Input

Please review the attached applications for Coastal Use Permits. Provide comments and response in memorandum by February 16, 2001.

BG:pth
Attachment
MEMORANDUM

February 6, 2001

To: Bill Good, Administrator, CRD Administrator
Through: Terry Howey, CMD Administrator
Through: Rocky Hinds, CMD Permits/Mitigation Program Manager
Through: Bill Pillman, CMD Permits Coordinator
From: Chris Davis, CMD Permit Analyst

RE: P2001010087, Coastal Use Permit Application
Williams Energy Services

Proposed repair of several, deteriorating bulkheads in various locations. Rip-rap, shell material, or grout mats will be used where erosion is either exposing segments of pipeline, or where material is eroding away from existing timber bulkheads, along several of their existing pipeline corridors. A combined total of 343 cubic yards of material will be used as fill. All fill material will be placed in the water or on existing spoil banks. Site location: site 1 - Sec. 35, T20S-R12E, Lat. 29°17'16.89"N, Long. 91°10'05.28"W; site 2a - Sec. 1, T21S-R12E, Lat. 29°16'04.89"N, Long. 91°10'37.41"W; site 2b - Sec. 1, T21S-R12E, Lat. 29°16'03.35"N, Long. 91°10'30.75"W; Site 3 - Sec. 1, T21A-R12E, Lat. 29°16'05.83"N, Long.91°10'08.63"W; Site 4 - Sec. 11, T21S-R12E, Lat. 29°14'59.22"N, Long. 91°11'25.84"W; Site 5 - Sec. 11, T21S-R12E, Lat. 29°14'55.98"N, Long. 91°11'32.64"W; Site 6a - Sec. 2, T21A-R11E, Lat. 29°16'06.89"N, Long. 91°17'32.86"W; Site 6b - Sec. 2, T21S-R11E, Lat. 29°16'05.60"N, Long. 91°17'35.08"W; Site 7 - Sec. 6, T21S-R12E, Lat. 29°16'13.11"N, Long. 91°15'32.12"W; Site 8 - Sec. 33, T20S-R12E, Lat. 29°16'26.34"N, Long. 91°13'51.39"W; Site 9 - Sec. 33, T20S-R12E, Lat. 29°16'31.13"N, Long. 91°13'23.07"W; Site 10 - Sec. 2, T21S-R11E, Lat. 29°16'21.58"N, Long. 91°17'22.15"W; Site 11 - Sec. 6, T20S-R12E, Lat. 29°16'13.94"N, Long. 91°15'05.99"W; Site 12 - Sec. 15, T21S-R12E, Lat. 29°14'28.33"N, Long. 91°12'13.72"W (East Bank) and Lat. 29°14'28.53"N, Long. 91°12'15.97"W (West Bank), Oyster Bayou, Point Au Fer, and Four League Bay Areas; Terrebonne Parish, LA

The above referenced activity will occur on or near the Point au Fer Canal Plug (TE-22), Lake Chapeaux Sediment Input (TE-26) and Hydrologic Restoration at the Fer Canal Plug (TE-22). Please review the attached application and provide comment within a 15 day period.

CD

Enclosure
MEMORANDUM

To: Jeff Thibodaux, CMD Permits Analyst

Through: Bill Pittman, CMD Permits Coordinator

Through: Rocky Hinds, CMD Permits/Mitigation Program Manager
Terry Howey, CMD Administrator

Through: Bill Good, CRD Administrator

Through: Van Cook, Engineer Manager

From: Hilary Thibodeaux, Engineer In Training

RE: P001203 Coastal Use Permit Application
Cabot Oil & Gas Corp.
CRD Project: Point Au Fer Island Hydrologic Restoration Project

I have reviewed the above referenced permit application and found the proposed activity - replace an existing 2 7/8-inch saltwater disposal pipeline with proposed 2 7/8-inch line - to have no adverse effects on the Point Au Fer Island Hydrologic Restoration Project (TE-22).

If additional information is needed, please advise.

cc: TE-22 Project File
MEMORANDUM

To: Hilary Thibodaux, Engineer-in-Training 2
Through: Van Cook, Engineer Manager
From: Bill Good, Administrator
RE: P001203 Coast Use Permit Application
    Cabot Oil & Gas Corporation
    CRD Project: Point Au Fer CWPPRA Project

Please review the attached application for Coastal Use Permit. Provide comments and response in memorandum by September 11, 2000.

BG:pth
Attachment
A permit to deposit and maintain rip-rap to close a breach in a canal bank on Point au Fer Island pursuant to the lake unsteady sediment input and Hydrologic Restoration Project, on Point au Fer Island, at a location about 20 miles southwest of Morgan City, La., in Terrebonne Parish, has been issued to the National Marine Fisheries Service on Sept 16, 1999.

Address of Permittee: Baton Rouge, Louisiana 70803-0508

Permit Number: WH-19-970-4707

For the District Commander

Ronald J. Vantola

United States Army Corps of Engineers

August 3, 1999

A permit to install and maintain approximately 3,700 linear feet of rip-rap to construct a breakwater in Areas 4 and 5 of Phase II of the Point au Fer Island Hydrologic Restoration Project, on Point au Fer Island, at a location central to a point about 30 miles southwest of Morgan City, Louisiana, in Terrebonne Parish, has been issued to the National Marine Fisheries Service on Aug 3, 1999.

Address of Permittee: Baton Rouge, Louisiana 70803-0508

Permit Number: WH-19-970-0171

For the District Commander

Ronald J. Vantola

United States Army Corps of Engineers
DEPARTMENT OF NATURAL RESOURCES/COASTAL RESTORATION DIVISION
POST OFFICE BOX 94366/625 NORTH FOURTH STREET, 7TH FLOOR
BATON ROUGE, LA 70894-9366

FACSIMILE TRANSMISSION COVER SHEET

DATE: 10/01/97  TIME: 7:25 AM

TO: Vincent C

LOCATION: Thibodeaux

FAX NUMBER: (504) 647-0997

MESSAGE/COMMENTS: CCE Permit

FROM: Mary L. White

TELEPHONE: 342-7310  FAX: 342-9417

NUMBER OF PAGES TO FOLLOW COVER SHEET: 26
Mr. Ronald J. Ventola, Chief
Regulatory Functions Branch, New Orleans District
Department of the Army, Corps of Engineers
Post Office Box 60267
New Orleans, Louisiana 70160

Dear Mr. Ventola:

This letter is in reference to permit SW (Terrebonne Parish Wetlands) 1044 and WH-19-970-0171 issued to the National Marine Fisheries Service for wetland restoration on Point au Fer island in Terrebonne Parish, Louisiana. Pursuant to the permit special conditions, this is to advise you that Phase 2 of the project has been completed.

Thank you for your assistance and that of your staff in contributing to the completion of this Breaux Act project.

Sincerely,

Rickey N. Ruebsamen
Branch Chief
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<th>PRECEDENCE</th>
<th>NO. PAGES</th>
<th>DATING-TEME</th>
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REMARKS
Draft Permit Conditions for Revised permit and FES. Please review and comment if necessary.

Draft

DA FORM 2918-R, JUL 90
DA FORM 2918-R, AUG 72 IS OBSOLETE

15. The permittee shall ensure that the project monitoring plan be amended as necessary to measure and evaluate changes in beach configuration in the areas immediately updrift and downdrift of the structures authorized herein. Any revisions to the approved monitoring plan resulting from this modification shall be furnished to the NDD prior to initiation of construction.

16. In the event that the structures are determined to be inducing apparent shoreline retreat along the peripheral beachfront, the permittee shall, in consultation with state and federal resource and permitting agencies, develop a plan of remedial action to address project-related erosion. The permittee shall implement the appropriate plan upon approval by the District Engineer.
Louisiana Department of Natural Resources  
Coastal Management Division, Consistency Coordinator  
Attn: Mr. Jon Truxillo  
Post Office Box 94395  
Baton Rouge, Louisiana 70804-9396

Dear Mr. Truxillo:

The Point au Fer Hydrologic Restoration Project, sponsored by your department and the National Marine Fisheries Service was issued Consistency Determination No. C9-0289. As a result of engineering considerations, it has become necessary to revise the design for the portion of the project located between Mobil Canal and the Gulf of Mexico. I understand that the revised engineering drawings have been provided for your review and evaluation by Mr. Brian Kendrick of the Coastal Restoration Division.

We support the proposed project changes and find them necessary to achieve the overall wetland restoration objectives of the Point au Fer project. In addition, we believe that the project, as revised, remains consistent with the Louisiana Coastal Resources Program and request your concurrence in that finding.

Thank you for your consideration of this issue.

Sincerely,

Rickey N. Ruebsamen  
Branch Chief
To
Brian Kendrick
Project Manager
Louisiana DNR
Phone: (504) 342-6871
Fax: (504) 342-6871

From
Erik Zobrist
NOAA Restoration Center
Phone: 301-713-0174
Fax: 301-713-0184

Date: March 4, 1997
Number of pages including cover sheet: 10

Message

Brian,

Here are the permits.

Erik

P.S. I left out the permit drawings.
Operations Division
Western Evaluation Section

SUBJECT: SW (Terrebonne Parish Wetlands) 1044

National Marine Fisheries Service
Habitat Conservation Division
C/O LSU Center for Coastal Energy
and Environmental Resources
Baton Rouge, Louisiana 70803-7535

Gentlemen:

Enclosed is a permit dated this date authorizing dredging to
maintain access channels and installation and maintenance of nine
catch, shell, and timber plugs to implement the Point au Fer
Island Hydrologic Restoration Project (CWPRA Project PR-22/24),
in Point au Fer Island, at a location central to a point
approximately 30 miles southwesterly from Morgan City, Louisiana,
in Terrebonne Parish.

You are again reminded of the information in the following
paragraphs.

Work not in accordance with the plans is subject to removal
regardless of the expense and the inconvenience that such removal
may involve and regardless of the date when the discrepancy is
discovered.

I am directed by the Department of the Army to caution you
that if any material changes in the location or plans of the work
are found necessary on account of unforeseen or altered
conditions or otherwise, revised plans should be submitted
promptly to the District Engineer. These revised plans will be
reviewed, and, if found unobjectionable from the viewpoint of
navigation and other public interest factors, will receive the
approval required by Federal law before the work is begun.

Public interest factors considered include, but are not limited
to, fish and wildlife, water quality, economics, conservation,
esthetics, recreation, water supply, flood damage prevention,
ecosystems, and, in general, the needs and welfare of the people.
Your attention is directed to all the terms and conditions of the approval, especially those conditions relative to supervision and approval of work by the District Engineer. In order to have the work finally approved and declared legal, all terms and conditions of the permit and plans shown on the drawings attached thereto must be rigidly adhered to.

It is necessary that you notify the District Engineer, Attention: Surveillance and Enforcement Section, in writing, prior to commencement of work and also upon its completion. The enclosed Notice of Authorization, ENG Form 4336, is to be conspicuously displayed at the site of work.

Sincerely,

[Signature]

Ronald J. Ventola
Chief, Regulatory Functions Branch

Enclosure
DEPARTMENT OF THE ARMY PERMIT

National Marine Fisheries Service
Permitting/Habitat Conservation Division

Permit No. HM(Terrebonne Parish Wetlands)1044
New Orleans District
Issuing Office

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferees. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Dredge to maintain access channels and install and maintain nineearth, shell, and timber plugs to implement the Point au Fer Island Hydrologic Restoration Project (CHAPA Project PFR-22/24), in accordance with the drawings attached in nine sheets, dated June 30, 1994, and revised March 6, 1995.

Project Location: In Point au Fer Island, at a location central to a point approximately 30 miles southwesterly from Morgan City, Louisiana, in Terrebonne Parish.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on July 31, 1999. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

ED FORM 1723, Nov 86

EDITION OF SEP 83 IS OBSOLETE. (33 CFR 325 (Appendix A))

1
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

Special conditions continued on pages 4.

Further Information:

1. Congressional Authorities. You have been authorized to undertake the activity described above pursuant to:

   (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).

2. Limits of this authorization.

   a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
   b. This permit does not grant any property rights or exclusive privileges.
   c. This permit does not authorize any injury to the property or rights of others.
   d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

   a. Damages to the permitted project or use thereof as a result of other permitted or unpermitted activities or from natural causes.
   b. Damages to the permitted project or use thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
   c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
   d. Design or construction deficiencies associated with the permitted work.
4. Reevaluation of Permit Decision. This Office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original permit decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 328.7 or enforcement procedures such as those contained in 33 CFR 328.4 and 328.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General conditions 1 establishes a time limit for the completion of the activities authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

\[Signature\] 7-24-55

(DATE)

This permit becomes effective when the Federal official designated to act for the Secretary of the Army, has signed below.

\[Signature\] 9 August 95

(DATE)

Ronald J. Ventola, Chief, Regulatory Functions Branch
for Kenneth M. Clow, District Engineer

When the structures or work authorized by this permit are still in existence at the time the permit is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\[Signature\] 9 August 95

(DATE)
7. Barriers will be visible to the boating public both day and night so as to reduce the possibility of boat collision with the structures.

8. That the permittee is aware that under 33 CFR 330.5(a)(1), signs may be placed as aids to navigation warning boaters of upcoming barriers in the waterways provided they are approved and installed with the requirements of the U.S. Coast Guard.

9. The permittee must install and maintain, at his expense, any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, on the authorized facilities.

10. Structures will not be placed on any state-owned water bottoms without the approval of the Louisiana Division of Administration, State Land Office. The permittee will be responsible for contacting the State Land Office to ascertain if any structure will be placed over state-owned water bottoms.

11. Prior to initiation of construction activities, the permittee shall survey the Point au Fer Island beachfront to determine the presence of seabird nesting colonies or occurrence of nesting activity. If it is determined that active seabird nesting or brood rearing is occurring on the beachfront during the planned construction period, the permittee shall notify the New Orleans District Corps of Engineers, Regulatory Functions Branch (NOD), U.S. Fish and Wildlife Service, and Louisiana Department of Wildlife and Fisheries. Construction shall be delayed until an appropriate course of action to minimize impacts to nesting seabirds is developed in consultation with State and Federal resource agencies, and approved by the NOD.

12. The permittee shall provide to the NOD written notification of completion of work in each area immediately following cessation of construction activities.

13. The permittee shall monitor vegetative community types, marsh to water ratio, and shoreline erosion to evaluate ecosystem response to the proposed structures in accordance with the final monitoring plan dated November 23, 1994. Monitoring reports shall be submitted to the NOD for review within one year of completion of data analysis.

14. The permittee is made aware that any deviation from the permitted project design may require prior review and approval by the District Engineer.
A permit to dredge to maintain access channels and install and maintain artificial islands, earth fill, shell, and timber plugs to implement the Point au Fer Island Hydrologic Restoration Project (CAPPER Project PB-22/24), as in Point au Fer Island, at a location central to a point approximately 15 miles southwesterly from Morgan City, Louisiana, in Terrebonne Parish, has been issued to

Address of Permittee

c/o LSU Center for Coastal Research and Environmental Resources
Baton Rouge, Louisiana 70803-7535

Permit Number

SW(Terrebonne Parish Wetlands)
1044

for the District Commander

August 9, 1995
Operations Division
Western Evaluation Section

SUBJECT: WH-99-050-0171
SM/Terrebonne Parish Wetlands 1044

National Marine Fisheries Service
Habitat Conservation Division
o/o LSU Center for Coastal Energy
and Environmental Resources
Baton Rouge, Louisiana 70803-7535

Gentlemen:

Revised drawings attached in ten sheets, furnished with your application dated October 8, 1996, covering the installation and maintenance of two riprap breakwater structures associated with the implementation of Phase II of the Point au Fer Island Hydrologic Restoration Project, in Point au Fer Island, at a location central to a point about 30 miles southwesterly from Morgan City, Louisiana, in Terrebonne Parish, are approved and will be included in your plans for the work authorized by the Secretary of the Army in permit dated August 9, 1995. These drawings supersede drawings shown on Sheets 5 and 6 of your plans.

The conditions to which the work is made subject, remain in full force and effect.

The following condition is included with the modifications authorized herein:

15. The permittee shall ensure that the project monitoring plan be amended as necessary to measure and evaluate changes in beach configuration in the areas immediately updrift and downdrift of the structures authorized herein. Any revisions to the approved monitoring plan resulting from this modification shall be furnished to the Corps prior to initiation of construction.

The attached Notice of Authorization, ENG Form 4336, is to be conspicuously displayed at the site of work.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

[Signature]
William L. Connor
Colonel, U.S. Army
District Engineer

Attachments
This notice of authorization must be conspicuously displayed at the site of work.

United States Army Corps of Engineers

December 27, 1995

A permit to install and maintain two riprap breakwater structures associated with the implementation of Phase II of the project to construct a new ferry terminal building (100 feet) in distance from the mouth of the Poteaux River, District Commander, th

has been issued to: National Marine Fisheries Service

Address of Permittee

Habitat Conservation Division

Permit Number

District Commander

2435 FORM 4308, Jul 91, 128 form 329-088. Revision of Jul 76 may be used

Pelerin, CREW M.
Mr. Ronald J. Ventola, Chief  
Regulatory Functions Branch, New Orleans District  
Department of the Army, Corps of Engineers  
Post Office Box 60287  
New Orleans, Louisiana 70160-0287  

Dear Mr. Ventola:  

Per your request, enclosed is a signed copy of draft permit SW (Terrebonne Parish Wetlands)1044. The work to be implemented is designed to provide wetland protection benefits on Point au Per Island and is being planned and funded through the Coastal Wetlands Planning, Protection, and Restoration Act.  

The advice and assistance provided by Mr. Mayer in processing the application for this activity is greatly appreciated.  

Sincerely,  

[Signature]  
Rickey N. Ruebsamen  
Branch Chief  

bc:  
LDNR, Van Cook  
PRFS, Zobrist  
F/SEO2  
Files
April 20, 1995

Ricksy Ruebsamen
National Marine Fisheries Service
Habitat Conservation Division
c/o Louisiana State University
Baton Rouge, LA 70803-7535

RE: C940289, Coastal Zone Consistency
National Marine Fisheries Service
Direct Federal Action
Modification to Point au Fer Hydrologic Restoration Project
CWFFRA TE-22
Terrebonne Parish, Louisiana

Dear Mr. Ruebsamen:

The above referenced project has been reviewed for consistency with the approved Louisiana Coastal Resource Program (LCRP) as required by Section 307 of the Coastal Zone Management Act of 1972, as amended. The project, as proposed in the application, is consistent with the LCRP. If you have any questions concerning this determination please contact Mr. Ben Kropog of the Consistency Section at (504) 342-7939.

Sincerely,

Terry W. Howey,
Administrator

TWH/JDH/bjk

cc: Ronald Ventola, COR-NOD
Fred Dunham, LDWF
Bob Jones, Terrebonne Parish
Charlie Mestayer, CMD/FC
Van Cook, DNR-CRD
TO: George Robichaux, DHH, Tina Horn, Cameron Parish
   Fred Dunham, LDWF, Marnie Winter, Jefferson Parish
   Larry Wieseppa, DEQ, Roy Francis, Lafourche Parish
   Glen Kent, St. Land Office, Patricia Thompson, Orleans Parish
   Curtiss Patterson, DOTD, Martha Cazaubon, St. Bernard Parish
   Terri Hobdy, Culture, James Emy, STTCD
   Recreation, and Tourism, Jody Chenier, St. James Parish
   Jan Wilson, CRD, Paul Rainwater, Calcasieu Parish
   Dennis Falk, EPA, Brian Fortson, St. Tammany Parish
   Rick Ruebsamen, National, James Thompson, Scenic Streams
   Marine Fisheries Service, Don Hebert, DNR Pipeline Operations

** SPECIAL AGENCY NOTICE **

Possible GP-5 5 Calendar Day Notification
Possible GP-6 5 Calendar Day Notification
Possible GP-7 5 Calendar Day Notification
Possible GP-10 15 Calendar Day Notification

OTHER 5-11-95

Message/Comments: For review

FROM: Tim Robertson

NUMBER OF PAGES (INCLUDING COVER SHEET) 7
P.O. Box 52106
Lafayette, LA 70505
Attn: Robert J. Ganczak

RE: P950500, Coastal Use Permit Application
Shell Western E&P Inc.
Proposal to install a 1115.11' of one (1) 4" flowline and one (1) 2" gas lift line to serve the SL 14762 Well No. 1. Approximately 826 cu. yds. of material will be excavated, stockpiled and used as backfill upon completion of the project.
Location: POB at Lat. 29°15'56"N, Long. 91°17'57"W and POE at Lat. 29°15'57"N, Long. 91°17'49"W, Sec. 2, T21S-R11E; ±30.5 miles SW from Morgan City,
Terrebonne Parish, LA.

Dear Mr. Ganczak:

You are hereby notified that the referenced activity is being considered for approval under Coastal Management Division General Permit 6 (GP-6).

A copy of this letter along with the application and plan drawings will be sent to the following for their review and comment: the LA Department of Environmental Quality, Office of Water Resources; the LA Department of Wildlife and Fisheries, Environmental Branch; the LA Department of Culture, Recreation and Tourism; the LA Department of Transportation and Development, the LA Division of Administration, State Lands Office; and the LA Department of Health and Hospitals.

The various state agencies shall have five (5) calendar days from the date of this letter to comment on the proposed activity. Lack of comment by these agencies within the 5-day period shall be considered as no objection or no position. After receipt of comments by the state agencies, this letter will be referred to the Department's Coastal Management Division for its review.

COASTAL MANAGEMENT DIVISION P.O. BOX 44487 BATON ROUGE, LOUISIANA 70880-4487
TELEPHONE (504) 342-5391 FAX (504) 342-7439
AN EQUAL OPPORTUNITY EMPLOYER
state agencies, or after five (5) days from the date of this letter, a decision will be made to issue approval under the authority of this General Permit; to issue approval with modifications, or additional operating conditions; or to deny approval for the proposed work. The applicant shall be notified of Coastal Management’s decision by letter.

If you have any questions, please contact me at (504) 342-7591.

Sincerely

Tim R. Robertson
Permit Analyst

TRR
cc: Fred Dunham, LDWF w/attachments
    Larry Wiesepape, DEQ w/attachments
    Charles Mestayer, CMD/FL w/attachments
    Don Hebert, Pipeline Operations w/attachments
    Glen Kent, State Land Office w/attachments
    Jerri Hobdy, Culture, Recreation, and Tourism w/attachments
    Curtis Patterson, DOTD w/attachments
    George Robichaux, DHH w/attachments
    James Erny, S. Terrebonne Tidewater District w/attachments
    Jan Wilson, CRD w/attachments
    Patti Holland, USFWS w/attachments
    Rick Ruebsamen, NMFS w/attachments
Application By:

SHELL WESTERN E&P, INC.

April 25, 1995

PROPOSED FLOWLINES

For Producing SL 14752 No. 1 Well

Section 2, T21S-R11E

Terrebonne Parish, Louisiana


NOTE: THE CONTENTS OF THESE PLANS ARE INTENDED EXCLUSIVELY FOR THE PURPOSE OF OBTAINING ENVIRONMENTAL COMPLIANCE PERMITS.
NOTE: THE CONTENTS OF THESE PLANS ARE INTENDED EXCLUSIVELY FOR THE PURPOSE OF OBTAINING ENVIRONMENTAL COMPLIANCE PERMITS.

Application By:

SHELL WESTERN ESP, INC.

April 25, 1995

PROPOSED FLOWLINES

For Producing SL 14752 No. 1 Well
Section 2, T21S-R1E
Terrebonne Parish, Louisiana

TYPICAL PROFILE OF PROPOSED FLOWLINE
No Scale

TYPICAL FLOWLINE TRENCH
No Scale

PROPOSED FLOWLINES
For Producing SL 14762 No. 1 Well
Section 2, T21S-R11E
Terrebonne Parish, Louisiana

Application By:
SHELL WESTERN E&P, INC.

April 25, 1995

NOTES

1. All structures, facilities, well and pipelines/flowlines occurring in open water areas or in oil field canals or slips shall be removed within 120 days of abandonment of the facilities for the herein permitted use unless prior written approval to leave such structures in place is received from the Coastal Management Division. This condition does not preclude the necessity for revising the current permit or obtaining a separate Coastal Use Permit, should one be required, for such removal activities.

2. As-built drawings shall be submitted within 30 days of completion of this project to the Louisiana Department of Natural Resources, Coastal Management Division, P.O. Box 44487, Baton Rouge, LA 70804-4487.

3. Structures must also be marked/lighted in accordance with U.S. Coast Guard regulations.

4. In order to insure the safety of all parties, the permittee shall contact the Louisiana ONE CALL System (1-800-272-3020), a minimum of 48 hours prior to the commencement of any excavation (Digging, Dredging, Jetting, etc.) or demolition activity.

Application By: SHELL WESTERN E & P, INC.
April 25, 1995

PROPOSED FLOWLINES
For Producing SL 14762 No. 1 Well
Section 2, T21S-R11E
Terrebonne Parish, Louisiana
To: Ben Kropog  
Consistency Section, CMD

Through: Jeff Harris  
Consistency Section Manager, CMD

Through: Terry Howey  
Administrator, CMD

Through: Bill Good  
Administrator, CRD

From: Van Cook  
Engineer Supervisor, CRD

Subject: C940289, Coastal Zone Consistency  
National Marine Fisheries Service  
Comments related to the modification of CWPPRA project Point au Fer Island  
Hydrologic Restoration (TE-22).

The comments below are in answer to your letter to Mr. Clark of March 7, 1995. I am  
responding as project manager for the referenced project.

The modified project essentially conforms to the project as approved by the CWPPRA Task  
Force, however some changes related to plug design and access routing have been made. One of  
the seven plugs originally planned (Plug No. 5) has been deleted and two plugs (Plugs Nos. 3A  
and 4) will be constructed of shell only instead of the more complex structures originally planned.  
Access routing has been changed to avoid oyster beds and the new access route requires some  
dredging. These changes do not affect the functions or objectives of the project.

cc: Carol Clark  
George Boddie
Joint Public Notice

March 27, 1995

United States Army
Corps of Engineers
New Orleans District
Regulatory Functions Branch
New Orleans, Louisiana 70160-0267

(504) 862-2276
Project Manager
Mr. Martin S. Mayer
Permit Application Number
SN(Terrebonne Parish Wetlands)1044

State of Louisiana
Department of Environmental Quality
Office of Water Resources
Water Pollution Control Division
Post Office Box 82215
Baton Rouge, Louisiana 70884-2215

(504) 765-0664
Project Manager
Mr. James Little
WQC Application Number
WQC 940720-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality, Office of Water Resources, for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statutes of 1950, Title 30, Chapter 11, Part IV, Section 2074 A(3) and provisions of Section 401 of the Clean Water Act (P.L. 95-217).

Point au Fer Island Hydrologic Restoration Project

NAME OF APPLICANT: NATIONAL MARINE FISHERIES SERVICE, c/o Louisiana State University Center for Coastal Energy and Environmental Resources, Baton Rouge, Louisiana 70803-7635.

LOCATION OF WORK: The proposed work is located at two areas on Point au Fer Island, in Terrebonne Parish, central to a point approximately 30 miles southwestward from Morgan City, Louisiana. Area 1 is located on the southeastern portion of the island between Four League Bay and the Gulf of Mexico. Area 2 is located on the southwest portion of the island near the Gulf of Mexico.

CHARACTER OF WORK: The applicant has requested Department of the Army authorization to perform various dredge, fill, and construction activities in the two areas identified above to reduce saltwater intrusion into and tidal flushing of interior marshes. Work in Area 1A consists of installing four plugs in Hester Canal and two in Transecon Canal. Structures 1, 2, 6, 7, and 8 will be shell-reinforced timber bulkheads, whereas Structure 3A will be constructed from shell alone. These structures have been sited so as to redirect water movement to natural channels and restore flowage patterns that existed prior to canal construction. Work in Area 1B consists of installing a shell plug at the south end of Transecon Canal, about 200 feet inland from the Gulf of Mexico. An estimated 8,500 cubic yards of shell will be deposited to construct the Area 1 structures. Approximately 155,000 cubic yards of waterbottom material will be excavated from 10,700 feet of existing channel by...
bucket dredge and/or propwash methods to facilitate access for floating equipment to the work sites in Area 1. The maintained channels will have a maximum 70-foot bottom width and minus 8-foot NVWD depth. Dredged material will be placed on existing dredged material embankments adjacent to the access route, as shown in the attached drawings.

Work in Area 2 consists of hydraulically excavating waterbottom material from the Gulf of Mexico for use as backfill to repair two points where beach cut-through to the interior canal system is imminent. Approximately 2,000 cubic yards of material will be used to backfill the terminus of an abandoned oil field canal extending perpendicular from the beach. Approximately 125,000 cubic yards of material will be utilized to backfill a 1,600-foot segment of canal that is parallel to the beach. The inland limits of backfill in Area 2 will be a minimum of 200 feet from the beach. The fill sites are planned to have a post-compaction height approximate to marsh elevation. In the event that inadequate and/or unsuitable material occurs in the primary borrow area, alternate sources in the secondary borrow area may be utilized. Dredging operations will be sited a minimum of one-half mile from the coast. This project, PWE-22/24, has been approved for funding under the Coastal Wetlands Planning, Protection and Restoration Act for the purposes of protection, maintenance, and enhancement of vegetated wetlands.

This is a revision to public notice dated August 15, 1994, incorporating maintenance dredging existing channels to access Area 1 and the use of shell, rather than material dredged from the Gulf of Mexico to construct Structure 4.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close 20 days from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above. Attention: Regulatory Functions Branch. Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 5:00 p.m. Copies may be obtained upon payment of costs of reproduction.

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among these are conservation.
economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, Federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are also used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

No properties listed on the National Register of Historic Places are near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and the State Historic Preservation Officer.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, Office of Water Resources before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearing shall state, with particularity, the reasons for holding a public hearing.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Corps of Engineers permit will not be issued unless the applicant has received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

[Signature]

P.J. Serid
Chief, Western Evaluation Section
Regulatory Functions Branch

Attachments
NEWTON CREEK

GULF OF MEXICO

LEGEND:

- Approximate Area of Existing Oyster Leases
- Proposed Plug Location
- Existing Spillway
- Proposed Spill Area

PROJECT SITE PLAN, AREA 1B

NOTES:

- Base information taken from digitized Quadrangle Maps on diskette in ArcInfo format provided by American Digital Cartography, Inc.
- Dredging operations to include either propeller and/or bucket dredging.
- Oyster lease holders within 1,500 feet of the proposed activities will be notified prior to conducting operations.
- Dredging within contour not to exceed -5.0' elevation.
- Distance to be dredged for access route is approximately 10,700 feet which equates to approximately 155,000 cubic yards of dredged material.

PROPOSED STRUCTURES

POINT AU FER ISLAND

PARISH of TERREBONNE State of LOUISIANA

Application by NATIONAL MARINE FISHERIES SERVICE, HABITAT CONSERVATION DIVISION

Baton Rouge, Louisiana Date 6/30/94

MAR R 1995

PREPARED BY C-AK ASSOCIATES, INC. B.R., LA.

DRAWN BY: L.M.P

CHECKED BY: ANA

APPROVED BY: ARN

Sheet 3 of 9
LEGEND
- Marsh
- Hydraulically Dredged Fill Material
- Well head (See Note)
- Approximate Location Of Existing Pipelines
- Primary Proposed Dredging Area
- Secondary Proposed Dredging Area

PROJECT SITE PLAN, AREA 2

NOTES:
Pipline locations are approximate, field verification required prior to construction.
All Y's are not producing unless otherwise noted.
5 Information taken from 1:12,000 Quadrangle Maps on Disks and
Additional data provided by American Digital Cartography, Inc.
See Sheet 5 of 9 for Cross-Section Details.

PROPOSED STRUCTURES
POINT AU FER ISLAND
PARISH OF TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94

PREPARED BY C-K ASSOCIATES INC. B.R. L.A.
DRA. BY: LWP
CHG. BY: ARM
APPROVE. BY: ARM
TYPICAL TIMBER BULKHEAD PLUG PLAN VIEW

SCALE: 1" = 40'

SECTION E-E

SCALE: 1" = 12'

CONCEPTUAL PLUG DESIGN

NOTE:
All dimensions are N.O.V.D.
TYPICAL REEF SHELL PLUG

SCALE: 1" = 40'

SECTION F-F
SCALE: 1" = 20'

SECTION G-G
SCALE: 1" = 40'

PLUG #4

NOTE:
All Elevations are N.G.V.D.

PROPOSED STRUCTURES
POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES
SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94

Prepared by C-K Associates, Inc.  B.R., LA

Drawn by LWP  Check by: ANN  Approved by: ANN

MAR 6 1994

Sheet 7 of 9
TYPICAL BULKHEAD PLAN VIEW
SCALE: 1" = 6'

TYPICAL BULKHEAD ELEVATION VIEW
SCALE: 1" = 12'

CONCEPTUAL PLUG DESIGN
February 27, 1995

Louisiana Department of Natural Resources  
Coastal Restoration Division  
P.O. Box 94396  
Baton Rouge, Louisiana 70804-9396  
Attn: Mr. Van Cook, P.E.  
Engineer Supervisor  

Ref: Point au Fer Island Hydrologic Restoration Project  
U.S. Army Corps of Engineers Permit Application Modification  
C-K Associates' Project No. 24-800  

Dear Mr. Cook:

Enclosed is a copy of the modified permit application for the above referenced project which incorporates the changes made due to the redesign of Plug No. 4. We have also forwarded a copy of this information directly to Mr. Rickey Ruebsamen with the National Marine Fisheries Service.

If you have any questions concerning this information, please contact either myself or Mr. Jonathan Hopkins, P.E. at (504) 755-1000.

Very truly yours,

Rich Major, P.E.  
Engineering Division Manager  

ARM/mcr  

Enc: As stated  

cc w/enc.: Mr. Rickey N. Ruebsamen  
Area Supervisor  
National Marine Fisheries Service  
Habitat Conservation Division  
c/o LSU Center for Wetland Resources  
Baton Rouge, Louisiana 70803-7535
ATTACHMENT A
Discharge of Dredged or Fill Material

As shown on Sheet 2 and 3 of the attached prints, approximately 155,000 yd$^3$ of material will be required to be removed to access the site. As shown on Sheet 5, approximately 125,000 yd$^3$ and 2,000 yd$^3$ of dredged material also from the Gulf of Mexico will be used to construct two earthen plugs in Area 2.

Plugs 1, 2, 6, 7, and 8 will consist of a timber bulkhead with reef shell (or equivalent) backfill (see Sheets 2, 8, and 9). Due to the shallow depths at the location of Plug 3A and Plug 4, a timber bulkhead will not be structurally necessary. As an alternative to the timber/shell structure at Plug 3A and 4, a plug consisting of shell only will be sufficient (see Sheet 7). The following table presents the approximate quantities of shell backfill which will be required for Plugs 1, 2, 3A, 4, 6, 7, and 8.

<table>
<thead>
<tr>
<th>Plug</th>
<th>Shell Backfill (yd$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>800</td>
</tr>
<tr>
<td>2</td>
<td>500</td>
</tr>
<tr>
<td>3A (w/o timber bulkhead)</td>
<td>1,100</td>
</tr>
<tr>
<td>4 (w/o) timber bulkhead</td>
<td>1,100</td>
</tr>
<tr>
<td>6</td>
<td>2,200</td>
</tr>
<tr>
<td>7</td>
<td>1,800</td>
</tr>
<tr>
<td>8</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>8,500 yd$^3$</strong></td>
</tr>
</tbody>
</table>

C-K Associates, Inc.
LOCATION MAP

PROPOSED STRUCTURES
POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES
SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94
SECTION A-A
DREDGING AREA AND SPOILBANK
(FOR BUCKET DREDGING OPERATIONS)
SCALE: 1" = 20'

SECTION A-A
DREDGING AREA AND SPOILBANK
(FOR PROPWASH DREDGING OPERATIONS)
SCALE: 1" = 20'

PROPOSED DREDGING AREA DETAIL
SCALE: 1" = 10'

NOTES:

Propwash will not alter sea floor elevations greater than six inches.
See Sheet 2 of 9 for cross-section location.

PREPARED BY C-K ASSOCIATES, INC., B.R., LA.
PREPARED STRUCTURES
POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94
SECTION B–B
HORIZONTAL SCALE: 1" = 40'  VERTICAL SCALE: 1" = 10'
TYPICAL REEF SHELL PLUG

SCALE: 1" = 40'

SECTION F-F
SCALE: 1" = 20'

SECTION G-G
SCALE: 1" = 40'

NOTE:
All Elevations are N.O.V.D.

PROPOSED STRUCTURES
POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES
SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94

PREPARED BY C-EK ASSOCIATES, INC. B.E.I. LA.
TYPICAL TIMBER BULKHEAD PLUG PLAN VIEW

SCALE: 1" = 40'

SECTION E-E

SCALE: 1" = 12'

CONCEPTUAL PLUG DESIGN

NOTE:
All Elevations are N.G.V.D.

PROPOSED STRUCTURES

POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES
SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 8/30/94
DEPARTMENT OF NATURAL RESOURCES
March 7, 1995

To: Carroll Clark
   Federal Assistance Section, CRD

Through: Bill Good
   Administrator, CRD

Through: Terry Hoefer
   Administrator, CMD

Through: Jeff Harris
   Consistency Section Manager, CMD

From: Ben Kropog
   Consistency Section, CMD

Subject: C940289, Coastal Zone Consistency
National Marine Fisheries Service
Request for comments relating to the modification of
CWPPRA project Point au Fer Island Hydrologic
Restoration (TE-22)

Coastal Management Division is presently reviewing the referenced modified project for consistency with the Louisiana Coastal Resources Program. We would appreciate comments from Coastal Restoration as to whether the proposed activity, as described in the enclosed applications, conforms with the project as approved by the CWPPRA Task Force.

Thank you very much. Please contact me at 342-7939 if there are any questions.

Enclosures
Dr. Terry Howey, Administrator  
Louisiana Department of Natural Resources  
Coastal Management Division  
Post Office 44487  
Baton Rouge, Louisiana 70804-4487  

Dear Dr. Howey:

Attached, please find revised plans for the National Marine Fisheries Service's Point au Fer Hydrologic Restoration project located in Terrebonne Parish, Louisiana. Plan revisions include the access route to the Trancos/Hester Canal area through Mosquito Bay and an alternative plug design at the south end of the Trancos Canal (plug #4). Access will now require dredging by propwashing or bucket dredge and dredged material deposition in open water or on existing spoil banks.

By letter dated August 31, 1994, you provided a determination of coastal zone consistency, number CZ-0289, for this restoration project. We are requesting your reassessment to determine whether the project, as revised, would still be consistent with the Louisiana Coastal Resources Program.

Thank you for your attention to this matter.

Sincerely,

Rickey N. Ruebbeing  
Branch Chief

Enclosure
ATTACHMENT A
Discharge of Dredged or Fill Material

As shown on Sheet 2 and 3 of the attached prints, approximately 155,000 yd³ of material will be required to be removed to access the site. As shown on Sheet 5, approximately 125,000 yd³ and 2,000 yd³ of dredged material also from the Gulf of Mexico will be used to construct two earthen plugs in Area 2.

Plugs 1, 2, 6, 7, and 8 will consist of a timber bulkhead with reef shell (or equivalent) backfill (see Sheets 2, 8, and 9). Due to the shallow depths at the location of Plug 3A and Plug 4, a timber bulkhead will not be structurally necessary. As an alternative to the timber/shell structure at Plug 3A and 4, a plug consisting of shell only will be sufficient (see Sheet 7). The following table presents the approximate quantities of shell backfill which will be required for Plugs 1, 2, 3A, 4, 6, 7, and 8.

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<tr>
<td>4 (w/o timber bulkhead)</td>
<td>1,100</td>
</tr>
<tr>
<td>6</td>
<td>2,200</td>
</tr>
<tr>
<td>7</td>
<td>1,800</td>
</tr>
<tr>
<td>8</td>
<td>1000</td>
</tr>
<tr>
<td>Total</td>
<td>8,500 yd³</td>
</tr>
</tbody>
</table>
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

OMB APPROVAL NO. 0710-00
Expires 30 September 1992

1. APPLICATION NUMBER (To be Assigned by Corps)

2. NAME AND ADDRESS OF APPLICANT

   Ricky N. Rushman
   National Marine Fisheries
   Habitat Conservation Division
   Leu Center for Coastal Energy and Environmental Resources
   Baton Rouge, Louisiana 70803-7538
   Telephone no. during business hours
   A/C 554-60006
   A/C 554-50006

3. NAME, ADDRESS, AND TITLE OF AUTHORIZED AGENT

   Telephone no. during business hours
   A/C 554-60006
   A/C 554-50006

   Signature of Applicant

   Date

4. DETAILED DESCRIPTION OF PROPOSED ACTIVITY

   The proposed activity consists of constructing and maintaining timber bulkheads and earthen/reef shell plugs. The structures are shown on the attached prints (in nine sheets).

4b. PURPOSE

   The purpose of the Point au Fer Island Hydrologic Restoration Project is to reduce saltwater intrusion and tidal flushing in the Point au Fer marshes due to manmade canals and beach overwash without reducing fresh backwater flooding from the Atchafalaya River. It was determined that constructing timber structures and earthen/reef shell locations would reduce the adverse impacts to beachfront and interior brackish-intermediate marsh. Plug locations have been selected so that the interior surface hydrology will once again be maintained by low energy processes such as tidal overbank flooding and sheetflow between indigenous bayous and inland marshes.

4c. DISCHARGE OF DREDGED OR FILL MATERIAL

   See Attachment A for a discussion concerning the discharge of dredged or fill material.
SECTION A-A
DREDGING AREA AND SPOILBANK
(FOR BUCKET DREDGING OPERATIONS)
SCALE: 1" = 20'
TYPICAL REEF SHELL PLUG

SCALE: 1" = 40'

SECTION F-F
SCALE: 1" = 20'

SECTION G-G
SCALE: 1" = 40'

PLUG #4

NOTE:
All Elevations are N.G.V.D.

PROPOSED STRUCTURES
POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES
SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94
TYPICAL TIMBER BULKHEAD PLUG PLAN VIEW

SECTION E-E

CONCEPTUAL PLUG DESIGN

NOTE:
All Elevations are N.G.V.D.

PROPOSED STRUCTURES

POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94

PREPARED BY C+K ASSOCIATES, INC. B.R., LA.
TYPICAL BULKHEAD PLAN VIEW

SCALE: 1" = 6'

TYPICAL BULKHEAD ELEVATION VIEW

SCALE: 1" = 12'

CONCEPTUAL PLUG DESIGN

SHEET 9 OF 9

PROPOSED STRUCTURES

POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES
SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 8/30/94

PREPARED BY C&K ASSOCIATES, INC. B.R., LA.

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4x4-ROO-14
2.7.94
February 7, 1995

State of Louisiana Department of Natural Resources
Coastal Restoration Division
P. O. Box 94396
Baron Rouge, Louisiana 70804-9396
Attn: Van Cook, P.E.

Ref: Point au Fer Hydrolic Restoration Project
C-K Associates' Project No. 24-800

Dear Mr. Cook:

As discussed previously, and due to additional modifications with regard to the U.S. Army Corps of Engineers Permit, as well as significant revisions to the final plans and specifications, I am hereby respectfully requesting that the funding originally budgeted to perform the oyster survey for the above referenced project to be utilized for finalization of plans and specifications.

Please feel free to contact me to further discuss this matter as it will effect budgetary considerations on this project. I can be reached at (504) 755-1000.

Very truly yours,
C-K Associates, Inc.

Rich Major, P.E.
Engineering Division Manager

ARM/mcr
December 16, 1994

Louisiana Department of Natural Resources  
Coastal Restoration Division  
P.O. Box 94396  
Baton Rouge, Louisiana  70804-9396  
Attn: Mr. Van Cook, P.E.  
Engineer Supervisor

Ref: Point au Fer Island Hydrologic Restoration Project  
U.S. Army Corps of Engineers Permit Application Modification  
C-K Associates' Project No. 24-800

Dear Mr. Cook:

As discussed, enclosed is a copy of the modified permit application for the above referenced project as well as a suggested draft letter which can be used for the transmittal of this information to the U.S. Army Corps of Engineers. As requested, we have also forwarded a copy of this information directly to Mr. Rickey Ruebsamen with the National Marine Fisheries Service.

If you have any questions concerning this information, please contact either myself or Mr. Andrew Milanes at (504) 755-1000.

Very truly yours,

Rich Major, P.E.  
Engineering Division Manager

ARM/ANM/mcr

Enc: As stated

cc w/enc: Mr. Rickey N. Ruebsamen  
Area Supervisor  
National Marine Fisheries Service  
Habitat Conservation Division  
c/o LSU Center for Wetland Resources  
Baton Rouge, Louisiana  70803-7535
July ____, 1994

U.S. Army Corps of Engineers
New Orleans District
P.O. Box 60267
New Orleans, Louisiana 70160-0267

Attn: Mr. Martin S. Mayer
Environmental Resources Specialist

Ref: Permit Application
Point au Fer Island Plugs Hydrologic Restoration Project

Dear Mr. Mayer:

The National Marine Fisheries Service, Habitat Conservation Division (NMFS), previously submitted a permit application to construct earthen and timber plugs along the Transco, Hester, and Mobil Canals on Point au Fer Island, Louisiana. As a result of problems associated with obtaining access to the project site, modifications to the permit application are being requested. This transmittal documents these changes and presents the modified application in its entirety.

As stated in the attached ENG FORM 4345, the purpose of the Point au Fer Island Plugs Restoration Project is to reduce saltwater intrusion and tidal flushing in the Point au Fer marshes due to manmade canals and beach overwash without reducing fresh backwater flooding from the Atchafalaya River. It was determined that constructing timber structures and earthen plugs (consisting of fill material hydraulically dredged from the Gulf of Mexico) across the canals at strategic locations would reduce the adverse impacts to beachfront and interior backswamp-intermediate marsh. Plug locations have been selected so that the interior surface hydrology will once again be maintained by low energy processes such as tidal overbank flooding and sheetflow between indigenous bayous and inland marshes.

Additionally, in an effort to avoid the oyster leases known to exist in Four League Bay (areas east of the project site) we are requesting approval to utilize a previously constructed access canal to allow construction equipment passage to the site. The canal provides access to the site from the west. Due to sediment placement over time, the canal will be required to be dredged to provide proper depth for this access.

The following items are enclosed with this letter:

- Modified ENG FORM 4345; and
- Copies of the associated modified prints, in eight sheets, showing the locations and details of the proposed canal plugs and site access.

We appreciate your assistance in the timely processing of this permit application.

Please contact us at (504) 349-0508 if you require any additional information.

Very truly yours,

National Marine Fisheries Service
Habitat Conservation Division

Rickey N. Ruebsamen

24MAR90/02.ASM
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
(33 CFR 325)

1. APPLICATION NUMBER (To be Assigned by Corps)

2. NAME AND ADDRESS OF APPLICANT

Rickey N. Rutbasem
National Marine Fisheries
Habitat Conservation Division
P.O. Box 8202, New Orleans, Louisiana 70118-0202

Telephone no. during business hours
A/C ( ) (Residence)
A/C ( ) (Office)

3. NAME, ADDRESS, AND TITLE OF AUTHORIZED AGENT

Telephone no. during business hours
A/C ( ) (Residence)
A/C ( ) (Office)

Statement of Authorization: I hereby designate and authorize to act in my behalf as my agent in the processing of this permit application and to furnish, upon request, supplemental information in support of the application.

SIGNATURE OF APPLICANT DATE

4a. ACTIVITY

The proposed activity consists of constructing and maintaining timber bulkheads and earthen plugs. The structures are to be constructed across canals on Point au Fer Island, Louisiana. The location and details of the structures are shown on the attached prints (in eight sheets).

4b. PURPOSE

The purpose of the Point au Fer Island Hydrolgic Restoration Project is to reduce saltwater intrusion and tidal flushing in the Point au Fer marshes due to manmade canals and beach overwash without reducing fresh backwater flooding from the Atchafalaya River. It was determined that constructing timber structures and earthen plugs (consisting of fill material hydraulically dredged from the Gulf of Mexico) across the canals at strategic locations would reduce the adverse impacts to beachfront and interior brackish-intermediate marsh. Plug locations have been selected so that the interior surface hydrology will once again be maintained by low energy processes such as tidal overbank flooding and sheetflow between indigenous bayous and inland marshes.

4c. DISCHARGE OF DREDGED OR FILL MATERIAL

See Attachment A for a discussion concerning the discharge of dredged or fill material.
ATTACHMENT A
Discharge of Dredged or Fill Material

As shown on Sheet 4 of the attached prints, approximately 80,000 yd³ of hydraulically dredged material from the Gulf of Mexico will be used to construct an earthen plug in Area b. In addition, as illustrated on Sheet 2 approximately 190,000 yd³ of material will be required to be removed to access the site. As shown on Sheet 5, approximately 125,000 yd³ and 2,000 yd³ of dredged material also from the Gulf of Mexico will be used to construct two earthen plugs in Area 2.

Plugs 1, 2, 6, 7, and 8 will consist of a timber bulkhead with reef shell (or equivalent) backfill (see Sheets 2, 7, and 8). Due to the shallow depths at the location of Plug 3A, a timber bulkhead will not be structurally necessary. As an alternative to the timber/shell structure at Plug 3A, a plug consisting of shell only will be sufficient. The following table presents the approximate quantities of shell backfill which will be required for Plugs 1, 2, 3A, 6, 7, and 8:

<table>
<thead>
<tr>
<th>Plug</th>
<th>Shell Backfill (yd³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>430</td>
</tr>
<tr>
<td>2</td>
<td>337</td>
</tr>
<tr>
<td>3A (w/o timber bulkhead)</td>
<td>289</td>
</tr>
<tr>
<td>6</td>
<td>2,162</td>
</tr>
<tr>
<td>7</td>
<td>1,771</td>
</tr>
<tr>
<td>8</td>
<td>220</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5,209 yd³</strong></td>
</tr>
</tbody>
</table>

240611.00.ARM
**PROJECT SITE PLAN, AREA 1A**

1500 0 1500 3000

**SCALE-FEET**

**PROPOSED STRUCTURES**

POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES
SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94

**NOTES:**

*Information Taken From Digitized Quadrangle Maps On Diskette In
  1:24000 Format Provided By American Digital Cartography, Inc.*

*Oyster Lease Holders Within 1,500 feet of the Proposed Activities and
  Access Route will be Notified Prior to Conducting Operations.
  See Sheet 3 of 8 for Cross-Section Details.*

PREPARED BY C-K ASSOCIATES, INC. B.L. LA.

DRAWN BY: ANN APPROVED BY: ANN
TYPICAL PLUG PLAN VIEW
SCALE: 1" = 40'

SECTION E-E'
SCALE: 1" = 12'

CONCEPTUAL PLUG DESIGN

NOTE:
All Elevations are M.S.L.

PROPOSED STRUCTURES
POINT AU FER ISLAND
PARISH of TERREBONNE State of LOUISIANA
Application by NATIONAL MARINE FISHERIES
SERVICE, HABITAT CONSERVATION DIVISION
BATON ROUGE, LOUISIANA Date 6/30/94

PREPARED BY C-H ASSOCIATES, INC. B.R., LA.
DRLY. BY: LRPH
CHGD. BY: ARR
APPROV. BY: ARR

SHEET 7 OF 8
ATTACHMENT VII

POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

MAINTENANCE AND REHABILITATION BUDGET
OPERATION AND MAINTENANCE BUDGET (APPROVED BY CWPPRA)

TE-22 PT. AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

LEAD AGENCY: National Marine Fisheries Service

DESIGN BASIS:

Budget: $1,567,000

Amended Operation and Maintenance (O&M) Budget $220,000

PROJECT FEATURES:

The principle project features include:

- Phase I Canal Plugs: One (1) timber bulkhead with reef shell backfill and two (2) shell-only canal plugs in the north-south Transco Canal; four (4) timber bulkheads with reef shell backfill in the east-west Hester Canal.

- Phase II Shoreline Protection: 3,600 feet of 32" rip rap, 250 lb. class, shore and breach protection along the shoreline parallel to the Mobile Canal.

MAINTENANCE AND REHABILITATION ASSUMPTIONS:

Of the shell plugs, plug 4 is in need of rehabilitation. The rip-rap shore protection at Mobile Canal will also need to be inspected and will require repairs if damaged by a storm.

1. Reshape the shell at Plug 4 and cover it with 18" rock cover, in year 3

2. Replace 3,000 tons of rip-rap at Mobile Canal in year 10

OPERATION AND MAINTENANCE COST CONSIDERATIONS:
(Based on a 20 year project life; cost include inflation)

A. ANNUAL INSPECTION:
(1 field day with 3 team members including federal participant, boat and report from Schedule A-1) $63,580

B. ANNUAL COST OF OPERATIONS:
(No operations required for this project) $ 0

C. PREVENTATIVE MAINTENANCE $ 0
D. COST FOR MAINTENANCE / REHAB PROJECT AT YEAR 3:
(Includes construction contingency (cc) of ten percent).

1. Contractor Mobilization/Demobilization $38,500
   ($35,000 x 1.1 cc)

2. Reshape shell plug ($10,000 x 1.1 cc) $11,000

3. Place 18" rock cover $57,750
   (1,500 tons x $35/ton x 1.1 cc)

   Contractor Subtotal: $107,250

   Contractor Cost with Inflation:
   ($107,250 tons x 1.026 inflation factor
   at year 3) $110,039

4. Design Cost / Administration: $ 9,295
   (2 week project, $9,060 x 1.026 inflation
   Factor from Schedule C-2)

5. Engineering Consultant Design, Surveying
   And Inspection: $ 26,184

   Basic Services: $13,205
   ($107,250 x 12% x 1.026 from Schedule E-1)

   Survey Supplemental Services: $ 5,130
   (4 days at $1,250/day x 1.026 inflated for
   Year 3 from Schedule E-2)

   Resident Inspection: $ 7,849
   (10 workdays x $765/day x 1.026 inflated for
   Year 3 from Schedule E-3)

TOTAL FOR MAINTENANCE YEAR 3: $145,518

E. COST FOR MAINTENANCE / REHABILITATION PROJECT YEAR 10
( Includes construction contingency (cc) ten percent)
1. Contractor Mobilization/Demobilization: $38,500
   ($35,000 x 1.1 cc)

2. Replace 3,000 tons rock at Mobile Canal: $115,500
   (3,000 tons x $35/ton x 1.1 cc)

   Contractor Subtotal: $154,000

   Contractor Cost with Inflation:
   ($154,000 tons x 1.228 inflation factor) $189,104

4. Design Cost / Administration: $11,125
   (2 week project, $9,060 x 1.228 inflation Factor from Schedule C-2)

5. Engineering Consultant Design, Surveying And Inspection:
   $30,103

   Basic Services: $20,801
   ($154,000 x 11% x 1.228 from Schedule E-1)

   Survey Supplemental Services: $4,605
   (3 days at $1,250/day x 1.228 inflated for Year 10 from Schedule E-2)

   Resident Inspection: $4,697
   (5 workdays x $765/day x 1.228 inflated for Year 10 from Schedule E-3)

TOTAL FOR MAINTENANCE YEAR 10: $230,332

Previous Expended Funds (Through February 28, 1998) $245,600

TOTAL ESTIMATED OPERATION AND MAINTENANCE COST $439,675

OPERATION AND MAINTENANCE (O&M) BUDGET SUMMARY
TE-22 PT. AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

Original O&M Budget $220,000
Revised O&M Budget $439,675

Budget Variance $219,675
ATTACHMENT VIII

POINT AU FER ISLAND HYDROLOGIC RESTORATION PROJECT

ANNUAL INSPECTIONS

The purpose of the annual inspections is to inspect and evaluate the condition of all project features to determine if structures are operating correctly and identify any deficiencies which require maintenance. An annual inspection report outlining these field observations will be drafted by LDNR. This report shall include the type of structure and description, date and time of inspection, personnel present for inspection, weather conditions, water levels at the time of inspection, general condition and observed damages to structures. These reports may be compiled under attachment VII - Annual Inspections.

In the case of severe storms and tidal events, additional inspections may be required during the annual inspection period to assess potential damage from such weather conditions.
ANNUAL INSPECTION REPORT
1999

Project: Point au Fer Island (TE-22), Phase I
Location: Terrebonne Parish
DNR/CRD Investigators: Douglas Morgan, John Rapp, and Arthur Long
Inspection Type: ANNUAL OPERATION AND MAINTENANCE
Trip Date: 17 June 1999
Weather Conditions: Clear, 85° F.
Last Inspected: 10 March 1998
Prepared By: Arthur Long

General

The inspection was performed during the late morning and early afternoon hours. There was difficulty in accessing and leaving Point au Fer Island because of extensive and heavy water hyacinth growth in the channel areas of Four League Bay. A localized thunder storm was encountered on the return trip across the southern part of Four League Bay.

Because of the very shallow water depths within and around Point au Fer Island, a tunnel hulled boat was towed to the site to permit access to the five project structures located in the Hester Pipeline Canal and the Transco Pipeline Canal.

History

Phase I of the project was limited to the eastern portion of Point au Fer Island and included the plugging of the Hester Canal and the Transco Canal. The Hester Canal is orientated in an east-west direction and allowed access to the Transco Canal from Bay Castagnier from the east and Mosquito Bay from the west. The Transco Canal is orientated in a north-south direction and was dredged during the construction of four oil and gas transmission pipelines from the Gulf of Mexico to on-shore facilities in Mosquito Bayou.
Both the Hester Canal and the Transco Canal have allowed saltwater intrusion into the interior intermediate marshes of Point au Fer Island. Approximately 3,500 acres of wetlands were adversely affected by these two canals. Phase I of the project was completed in December 1995.

ENGINEERING, DESIGN, AND CONSTRUCTION

Final Engineering for Phase I was completed by C-K Associates in April, 1995. Final engineering included the design of timber canal plugs in both the Hester Canal and the Transco Canal and the design of an oyster reef shell plug in the northern portion of the Transco Canal and one in the southern portion of the Transco Canal. The timber canal plugs were constructed using creosote treated pilings and lumber and were reinforced using oyster reef shell underlain with geotextile fabric. Other details regarding access dredging to the construction sites and details for the construction of the plugs were addressed and provided by the Contractor.

During construction, two additional items were added by field design modification to Plug No. 1 (timber) to prevent potential deflection of the structure; an extra 107 cubic yards of reef shell was added to Plug No. 3A due to greater than expected settlement; battered piles were added to Structure No. 7 to prevent possible deflection, and additions were made to Structure No. 8 because the actual required length was greater than the design length.

Phase 1 cost was $895,000 and resulted in a cost per acre protected of approximately $238/acre.

STRUCTURES

Photographs and individual Maintenance Inspection Report Check Sheets of each structure constructed under Phase I are included with this Report.


This structure is in very good condition. There is no physical damage nor is there any appreciable corrosion of metal components.


This structure is in very good condition. There is no physical damage to the structure, but one galvanized pile cap was torn.


This structure has been virtually destroyed and affords no protection from Mosquito Bayou to the marsh areas north of Hester canal. 75% of the structure has been washed away.
Replacement of the structure with reef shell does not appear to be practical because of the inaccessible location of the plug. Replacement with a timber structure using marsh type equipment is practical and would have a longer life, but it’s cost would be high.


This structure has also been virtually destroyed and allows direct access of waters from the Gulf of Mexico into Transco Canal and the marsh areas south of Hester Canal. Approximately 75% of the structure has been washed away, but the reef shell appears to have been retained in the canal.

Because of the seriousness of the condition, the structure is to be reconstructed as a part of the authorized Phase III project using O&M funds. The work is under contract and is scheduled to start in April 2000.

Replacement will involve reconstruction of the plug using the reef shell remaining in Transco Canal and armoring the completed plug with articulated concrete mats to protect against erosion. The concrete mats are currently being fabricated.


The structure is in an advanced stage of failure. It is bowed approximately 7 feet 7 inches; sheet piles have separated; and the structure and piles have dropped up to 6 inches in elevation in at least two locations. Timber walers have broken, and it is likely that additional walers, sheet piling, and some timber piles will also break because of the stresses placed upon them.


The structure has a slight bow at the north end, but it is in good condition without deterioration or corrosion.


The structure does not have batter piles, and a bow has developed on the south quarter of the structure. The potential for partial failure is present, and the structure needs to be monitored on a regular basis. Repairs and the addition of batter piling is practical and at a reasonable cost, because the structure is accessible by marine equipment.

A more serious immediate problem is that water can bypass the structure at both ends. At the south end, there is a tidal channel 48 inches wide and 30 inches deep. At the north end there is a smaller channel that will pass water only at or above normal high tides. The condition will worsen with time and could become very expensive to correct. To correct adequately and with better assurance of success, the bulkhead piling and sheeting should be extended into the marsh at both ends. Placement of concrete bags or mats within the channel and on the marsh is also being considered. This weir structure would reduce further erosion and allow water to flow into and out of Hester Canal that
CONCLUSION

TRANSCO PIPELINE CANAL STRUCTURES:

The loss of oyster reef shell Plug 3A and Plug 4 permit high salinity waters to freely enter the central area of the protected marsh and move with little restriction into the areas east and west of the canal. Flow velocities are also expected to increase. Plug 6, although close to the point of failure, continues to prevent the interchange of water between that section north of Hester Canal and the section south of Hester Canal. It would appear that a significant percentage of the total protected marsh area of 3,764 acres is being adversely impacted. The rehabilitation of Plug 4 should restore protection to the impacted marsh. This interchange of water should be significantly reduced and possibly eliminated.

HESTER CANAL STRUCTURES:

Plugs 1, 2, and 7 are in good condition and are functioning properly. Plug 8 is in good condition; however, the erosion at the ends of the structure allow some interchange of water between the canal and Bay Castagnier, and this has some adverse impact upon the adjacent marsh to the north and south of the canal.

GENERAL:

Serious consideration should be given to replacement of Plug 3A, rebuilding or replacement of Plug 6, plugging the channels at each end of Plug 8, and adding batter piles to Plug 8 to stop the bowing action that was observed.
INSPECTION REPORT

Project: Point au Fer Island (TE-22), Phase I
Location: Terrebonne Parish, Louisiana
DNR/CRD Investigators: Brian Kendrick, Arthur Long, Douglas Morgan, John Rapp
Inspection Type: Annual Operation and Maintenance
Trip Date: 17 June 1999
Weather Conditions: Partly Cloudy, mid 90's
Last Inspected: May 1997

Comments:

Point au Fer Island is located approximately 6.2 miles (10 kilometers) southeast of the Atchafalaya River delta and is bordered by the Gulf of Mexico to the south, Atchafalaya Bay to the west, Four League Bay to the north and northeast, and Oyster Bayou to the east. The Point au Fer Island Hydrologic Restoration project (TE-22) consists of two phases. Phase I is designed to restore the natural hydrology of the project area by placement of seven new canal plugs and maintenance of one existing plug along two oil and gas access canals. Phase II is a shoreline protection project and requires the placement of riprap along 3,600 linear feet (1,100 meters) of shoreline located in the southwestern portion of the island.

The objective of the trip was to perform an annual operation and maintenance inspection of the Phase I portion of the project. Inspection of the water control structures included all of the following seven (7) structures.
INSPECTION REPORT

Project: Point au Fer Island (TE-22), Phase II
Location: Terrebonne Parish
DNR/CRD Investigators: David Burkholder and Douglas Morgan
Inspection Type: Annual Operation and Maintenance
Trip Date: 21 June 1999
Weather Conditions: Partly cloudy, mid 90's
Last Inspected: 10 March 1998

On 18 June 1999, I learned that David Burkholder and Jose’ Galeas, an engineer with Burk-Kleinpeter, were taking a trip to Point au Fer Island on Monday, the 21st, to survey a shoreline breach at the dredge pipeline corridor of project TE-26 (Lake Chapeau). Since they would be in the area near Phase II of TE-22 (Point au Fer Island), I asked David if it would be okay for me to accompany them in order to perform an annual inspection of the Phase II portion of TE-22. David agreed, and we planned the trip for 21 June 1999.

We left the Berwick landing at 9:30 a.m. and arrived at Point au Fer Island at 10:45 a.m. David and Jose’ started their survey around 11:00 a.m. and completed it by 11:30. We then proceeded to the Phase II area of the island, arriving at 11:45 a.m. Inspection of the shoreline protection system was performed between 11:50 a.m. and 1:00 p.m. We arrived back at Berwick landing at approximately 2:30 p.m.

Discussion:

Phase II of the project included approximately 600 yards of a narrow beach on the western portion of Point au Fer Island. The beach separated the Gulf of Mexico from an oil well access canal, known as the Mobil Canal. The beach is experiencing overwash from the Gulf of Mexico allowing saltwater intrusion
into the intermediate marsh. Approximately 1,900 acres of wetlands would be protected by filling in Mobil Canal. However, further development of Phase II proved that filling Mobil Canal was economically unfeasible. Therefore, the project changed to a shoreline protection system. Approximately 2200 linear feet of shoreline has been armored with stone rip-rap to prevent the continued erosion of the shore. During construction, Mobil Oil and Exploration Company offered to construct a concurrent shoreline protection project in an effort to increase the amount of protection offered by this work. The Mobil project was designated "Area 3" and encompassed an additional 1400 linear feet of shoreline, resulting in a total of 3600 linear feet of shoreline protected.

The Phase II shoreline protection system consists of a continuous 3600-foot shoreline breakwater, constructed of 200 pound class stone, underlain by either a geotextile grid and filter cloth or geotextile woven fabric. The structure width is typically 25 or 33 feet with an average thickness of 32 inches. The project is comprised of three areas, designated: Areas 1, 2 and 3. Figures 1 and 2 presents a vicinity map and project layout, respectively.

AREA 1

Area 1 is located on the eastern end of the project and is 1800 feet in length (station 91+00 to 109+00). This segment was determined to be the critical segment because it contained the section which had initially breached during Hurricane Andrew. Mobil Oil had repaired the breach, but the segment remained a weak spot and ultimately breached again just prior to construction. The breakwater is 25 feet wide from station 91+00 to 93+00, then is typically 33 feet wide to station 109+00, excluding a 300-foot section commonly referred to as the Breach Area, which runs from station 98+00 to 101+00. The breach area is 35 to 45 feet wide and varies in section thickness between 3 and 4 feet.

Based on our field observations, there has been little or no erosion along the very eastern end of the project. The rock structure located within Area 1 was observed to be in good condition and no major changes were recorded when compared to the annual inspection report performed in March, 1998. The only change in the Breach Area was that it was easier to recognize that during severe storm events the waves from the Gulf are over-topping the structure and flowing into Mobil Canal. This was apparent due to the increased amount of sand and debris atop the structure. The Breach Area is approximately one (1) to two (2) feet lower than the rest of the structure. Photos 1 through 7 present current conditions in Area 1, including the Breach Area.

AREA 2

Area 2 is located on the western end of the project at the end of the north-south pipeline canal and is 400 feet in length (station 123+00 to 127+00). This rock structure is 33 feet wide, 32 inches thick and protects a 200-foot wide stub canal running perpendicular to the Gulf. A wooden bulkhead, approximately 150 feet in length, was constructed several years prior to the rock placement to protect the canal end. The bulkhead is parallel to the shoreline and is located approximately 15 feet south of the rock
structure. Erosion of the shoreline, on both sides of the bulkhead, was observed prior to construction of the rock structure; particularly west of the bulkhead where a small cove had formed.

Visual observations made during our sight visit revealed further erosion occurring along the west end of the structure. The shortest distance from the Gulf to the stub canal was approximately 100 feet immediately following construction in April 1997. By April, 1998, this distance had decreased to 85 feet resulting in a loss of 15 feet of shoreline over the one year period. After another 15 months approximately another 15 feet has been lost. We observed some overtopping between the Gulf and stub canal west of the structure that probably occurred during last year’s severe storm events.

Overall, the rock structure located within Area 2 was observed to be in good condition and no change was recorded when compared to the annual inspection performed in 1998, with the exception of the erosion noted west of the structure. Photos 11 through 17 present current conditions in Area 2.

AREA 3

The rock structure in Area 3 is 1400 feet long and ties into both ends of rock structures located in Area 1 and Area 2, thereby forming a continuous rock protection for 3600 linear feet of shoreline. This rock structure is 25 feet wide, 32 inches thick and is located between stations 109+00 and 123+00. The structure was constructed by Mobil Oil Corporation and is technically not part of the TE-22 project. However, DNR is responsible for maintenance and monitoring since we incorporated Mobil’s project into our permit.

Visual observations made during our sight visit revealed little or no erosion occurring along this structure. The rock structure located within Area 3 was observed to be in good condition and no change was recorded when compared to the annual inspection performed in March, 1998. Photos 8 through 10 present current conditions in Area 3.

FINDINGS:

Overall, the structure is performing as expected. The structure itself is in excellent condition. However, another phase of this project is being planned to prevent possible breaches. This phase, referred to as Phase III, will see an additional 600 linear feet of rock placed on the west end of the project, 3000 linear feet are planned for the east end and also, an additional placement of rock atop the Breach Area. The placement of rock, at the ends of the project, was recommended so that a breach does not form between the Gulf and the stub canals found at either end. The placement of additional rock atop the Breach Area will increase the elevation and reduce the potential of waves breaking into Mobil Canal during moderate to severe storm events.

Erosion was not observed (behind the rock structures) on either the 25 or 33' (foot) wide structures. It appears that a 25' (foot) wide structure is adequate to protect the shoreline.