



PERMIT APPLICATION

Permit # 909 (Assigned by Department)

The Louisiana Department of Wildlife and Fisheries' Scenic Rivers program is authorized by LRS title 56, Chapter 9 Part II. This law requires permits authorizing activities in or affecting rivers that have been designated by the Louisiana Legislature as Natural and Scenic. Information provided on this form will be used in evaluating the application for a permit. Information in this application is made a matter of public record through issuance of a public notice. Disclosure of the information requested is voluntary, however, the data requested are necessary in order to communicate with the applicant and to evaluate the permit application. If necessary information is not provided, the permit application cannot be processed nor can a permit be issued.

APPLICANT INFORMATION

Name of Applicant	Entergy Louisiana, L.L.C.	Name of Agent (if any)	Fred O. Dunham
Address	1000 Harimaw Court West	Address	KourCO Environmental Services Inc.
Address		Address	3131 Cameron Street
City, State, Zip	Metairie, Louisiana 70001	City, State, Zip	Lafayette, Louisiana 70506
Phone	504.219.4204	Phone	337.257.6107

DESCRIPTION OF THE PROPOSED ACTIVITY

Brief summary of the description and purpose of the proposed activity (details to be attached as a separate document)

To conduct emergency repairs to three electrical transmission structures on the Pearl River WMA which requires access from the West Pearl River on the transmission line right-of-way.

Is any portion of the activity complete? YES NO (If yes indicate month and year of completion)

LOCATION OF PROPOSED ACTIVITY

Stream Name	West Pearl River	Names, Addresses, Phone Numbers of Adjacent Property Owners
Parish	St. Tammany Parish	LDWF, P.O.Box 98000, Baton Rouge, La
Section	9	
Township	9S	
Range	15E	
Latitude/Longitude	30 16' 50.1" 89 41' 43.62"	

ENVIRONMENTAL ASSESSMENT

Must be a separate document. See the attached instruction sheet for completing the assessment.

CONFIRMATION OF INFORMATION ACCURACY

Application is hereby made for a Scenic River Use Permit to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that, to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities, or I am acting as the duly authorized agent of the applicant.

Fred Dunham

Signature

8-18-2014

Date



State of Louisiana

BOBBY JINDAL
GOVERNOR

DEPARTMENT OF WILDLIFE AND FISHERIES

ROBERT J. BARHAM
SECRETARY

Dear Scenic River Permit Applicant:

Please review and concur on the following statement regarding the issuance of permits by the Louisiana Department of Wildlife and Fisheries. This agreement must be signed and returned before a Scenic River Permit can be issued.

"I have been advised and do understand that by applying for and accepting a Scenic Rivers permit issued by the Louisiana Department of Wildlife and Fisheries, I am being allowed to engage in an activity which would otherwise be prohibited by law or for which a permit is required. I understand that the permit is not a license and confers no property right upon me. I specifically agree to abide by all State and Federal fish and wildlife laws and regulations, and all State and Federal laws and regulations which relate to this permit or the permitted activity, and by all other terms and conditions of this permit. I understand that the permit for which I am applying may be suspended, annulled, withdrawn or revoked and that I may be assessed civil penalties, all in accordance with the provision of the Louisiana Administrative Procedure Act, and that I may be denied future permits as a consequence of my failure to fully and completely comply with the terms and conditions of the permit, as well as other laws and regulations pertinent thereto. If served with or notified of a cease and desist order signed by the Scenic Rivers Administrator, I agree to immediately and without delay cease all activities and operations which relate to the permitted activity or which are impacting the Scenic River, until such time as the matter can be resolved in an adjudicatory hearing pursuant to the Louisiana Administrative Procedure Act. I understand and agree that any permit issued to me by the Louisiana Department of Wildlife and Fisheries is in the nature of a privilege which is being voluntarily extended to me by the Department and the failure on my part to cooperate with the Department can result in the loss of the privilege conferred and the denial of future requests for permits. By accepting this permit, I evidence my agreement to be bound by all conditions and stipulations set forth herein."

Authorized Signature

Permit Agent

Date

REV. 12/7/98

**EMERGENCY SCENIC RIVER PERMIT APPLICATION
ENTERGY LOUISIANA, L.L.C
TO CONDUCT MAINTENANCE OPERATION ON THE
FRENCH BRANCH-STATE LINE TRANSMISSION LINE EAST OF THE
WEST PEARL RIVER**

**PREPARED BY
FRED DUNHAM
KOURCO ENVIRONMENTAL SERVICES INC**

Entergy Louisiana, L.L.C. (Entergy) is applying for An emergency scenic river permit to conduct maintenance on their existing French Branch-State Transmission Line. (See Figure 1) As a result of an engineering survey conducted during August 2014, significant structure integrity issues were found associated with the foundations of 3 tower structures. These structures are located east of the east bank of the West Pearl River downstream of I-10. (See Figure 2)

This electrical transmission line was permitted by the Corps of Engineers and built in the late 60's prior to the enactment of the Scenic Rivers Act. This line provides electrical power to the Mississippi area. The proposed maintenance work will be conducted during a fourteen day period.

The Federal Energy Regulatory Commission (FERC), the North American Electrical Reliability Corporation (NERC) and the South East Reliability Corporation (SERC) require Entergy to maintain a high level of reliability. In order to meet this reliability level, Entergy is required to maintain their transmission lines. From the engineering survey, Entergy has determined that the existing foundations require immediate replacement. In replacing the foundations, the tower structures also have to be changed in order to meet the current standards for towers.

Structures 108, 109 and 111 require the emergency repairs due to structural failure issues. Each of these structures has to be access via the existing cleared right-of-way from the West Pearl River. These structures are greater than 10,000 feet from the river bank.

Airboats and marsh buggies will be required to wreck out the existing tower structure and to install the new foundation & tower structure. This equipment will travel down the right-of-way and working at each structure site. Then the equipment will return to the West Pearl River. Therefore two crossings of the buggies will occur at the river.

As the buggies and airboats enter or exit the river, lumber will be placed on the river bank for the airboats and buggies to track on to prevent damage to

the river banks. After the airboats and buggies have completed their crossing of the bank, the lumber will be removed from the area. (See Figure 3)

All maintenance activity will occur within the existing transmission line right-of-way. No new clearing will occur. No dredging will occur with this maintenance activity.

Emergency permit applications have been submitted to the Louisiana Department of Natural Resources Office of Coastal Management and to the Vicksburg District of the Corps of Engineers. In addition, coordination with Louisiana Department of Wildlife and Fisheries concerning the Pearl River Wildlife Management Area (PRWMA) staff has also occurred.

ENVIRONMENTAL ASSESSMENT

A. Existing Land Use – The east bank of the river is a cypress-tupelo wetland forest except for the existing transmission line right-of-way which was converted to an herbaceous wetlands when the transmission was installed in the 60's.. The west bank is a resident subdivision, while the east bank is also a boundary of the PRWMA which is owned and managed by the Louisiana Department of Wildlife and Fisheries. The west bank is privately owned.

The land use for the east side of the river is for consummative and non-consummative recreation use, while the west bank is residential. No changes in the land use will occur therefore no impacts will occur to these land uses.

The maintenance activity will not change or impact the existing land use on either side of the river since the structures are simply being replaced.

B. Historical/Archeological Sites – There are no known historical/archeological sites within the existing transmission line right-of-way at or near the river crossing.

There are no potential adverse impacts to historical/archeological sites since all maintenance activity will occur within the existing transmission right-of-way and no dredging will occur.

C. Economic Impact of the Project – The maintenance activity will ensure the reliability of the transmission line which provides electrical power to the Mississippi area.

Failure to maintain this line will result in significant power outages to the Mississippi area which will affect both residential and commercial facilities. FERC, NERC & SERC requires Entergy to maintain this transmission line to specific national reliability standards.

The maintenance of this transmission line will ensure the continuing positive economic impact to the area. Failure to conduct the maintenance of this line will cause economic impact when there is a structural failure. A structural failure of either structure will cause adverse economics to both the Mississippi area and to the recreational users of the river until emergency repairs can be made.

No economic impact from this planned maintenance will occur since there will be no changes in the land use or the recreation opportunities occurring on the river or adjacent wetlands.

D. Wilderness/Rural Quality – The existing wilderness/rural quality is forested wetland with the transmission right-of-way being an herbaceous wetland.

The maintenance activity will not adversely impact these qualities since the maintenance activity will be within the transmission line right-of-way and the temporary impacts to the herbaceous wetlands will recover within one full growing season.

E. Scenic/Aesthetic Value – The scenic and aesthetic value of the river has remained basically the same since the time that the river was designated a scenic river. The electrical transmission line was installed prior to the Scenic River Act. The initial reviewers and developers of the Scenic Rivers Program and Act determined that this portion of the

river should be included into the program and act. They concluded that the electrical transmission line did not have a significant adverse impact to any of the qualities, values or functions that qualifies the river to be a natural and scenic river.

The proposed maintenance will not lower the value of these qualities, values or functions. In addition, protective measures will be used to maintain these qualities on the east river bank.

The protective measures will be the use of lumber for the airboats and marsh buggies to track on as it crosses the river bank. These measures will maintain the integrity of the river bank while allowing the buggies to travel.

F. Recreational Use/Opportunities – Currently the river in this area is mainly used for recreational boating, hunting and fishing. The forested wetlands provide opportunities for both consummative and non-consummative recreation uses.

The proposed maintenance activity will not have any impact on these uses or opportunities. During the crossing of the river bank by equipment, Entergy will take measures to ensure safety to recreational users as well as its maintenance crews.

Ecological Systems Present -This part of the river is surrounded by a cypress-tupelo swamp which is noted for its dense stand of forested wetlands. The transmission line right-of-way contains herbaceous wetland species.

The proposed maintenance will not have an adverse impact to the ecosystem since all of the maintenance work will occur within the existing cleared right-of-way. The herbaceous vegetation within the right-of-way will be temporarily impacted but will recover within one full growing season.

G. Fish and Wildlife in the Area – Some of the fish species found in the Tangipahoa River and adjacent waterways in and near the crossing of the transmission line are alligator gar (*Atractosteus spatula*), bluegill

(*Lepomis macrochirus*), bowfin (*Amia calva*), white crappie (*Pomoxis annularis*), chain pickerel (*Esox* spp.), sunfish (*Lepomis* spp.), largemouth bass (*Micropterus salmoides*), and spotted gar (*Lepisosteus oculatus*).

Wildlife species in and around the lower Tangipahoa River are such as white-tailed deer, raccoon, squirrel, nutria, egret, heron, water snake, water moccasin, alligator, turtle, frog, Bald Eagle (*Haliaeetus leucocephalus*), snapping turtle, osprey, ibis, and numerous waterfowl & Neotropical birds.

Impacts to wildlife will on be temporary as the maintenance crew work down the right-of-way. No long term or adverse impacts will occur to any of the wildlife or fish species and their habitat.

H. Botanical Elements (Vegetation) – Currently the forested wetlands around the river contain bald cypress (*Taxodium distichum*), tupelo gum (*Nyssa aquatic*), swamp blackgum (*Nyssa biflora*), green ash (*Fraxinus pennsylvanica*), swamp red maple (*Ace rubrum* var. *drummondii*), buttonbush (*Cephalanthus occidentalis*), black willow (*Salix nigra*), cutgrass (*Zizaniopsis* spp.) and water elm (*Planera aquatic*),

The herbaceous wetlands of the right-of-way consist of vegetation species common to fresh water marsh areas such as maiden cane (*Panicum hemitomon*), spikes edge (*Elecocharis* spp.), bull tongue (*Sagittaria* spp.), alligator weed (*Alternanthera philoxeroides*), flatsedge (*Cyperus* spp.), pickerel weed (*Pontederia cordata*), pennyworts (*Hydrocotyle* spp.), white waterlily (*Nymphaea odorata*), cattail (*Typha* spp.), and deer pea (*Vigna luteola*).

No impacts will occur to the forested wetlands since no work will occur in them. All maintenance work will be within the herbaceous wetlands of the existing right-of-way. The impacts to these wetlands will be temporary and will recover within one full growing season.

I. Geological Features – The soil found on the east side of the river is classed by the U.S. Department of Agriculture, Natural Resources

Conservation Service as Arat Silty Clay Loam with a 0 to 1 % slope and frequently flooded. This soil is also classed as hydric in assessing its qualities in relation to wetlands as defined under the Clean Water Act.

No adverse impacts will occur to this soil type since no dredging will occur during the maintenance activity. In addition, preventative measures will be incorporated at the river banks to maintain their integrity.

J. Hydrological Features – The West Pearl River before reaching the crossing of the transmission right-of-way has changed its characteristics from a shallow fast flowing river with sand and gravel bars to a slower moving river in a swamp ecosystem with deeper water depths over a combination of sandy and loam soils. The river has also become tidally influenced by the tidal actions in Lake Borgne which is connected to the river.

No impacts will occur to the hydrological features of the river since no actual work, blockage, diversion, reduction, or similar action will occur in the river.

K. Water Quality/Quantity – The water quality and quantity of the West Pearl River varies depending on rainfall in the immediate area and its upper watershed which extends into the State of Mississippi. Typically during moderate to heavy rainfall within the watershed, the water quality is lower as the higher volume of water travels down river carrying higher suspended solids loads. At times the river has been negatively impacted from man-made discharges; however, the quality of these discharges has been greatly improved through various water quality enhancement programs of natural resource agencies and entities along the river.

The proposed maintenance and crossing of the river bank should have no adverse or long term impacts to the water quality or quantity. Possible limited and short impact from suspending soil sediments in the water may occur as the airboats and buggies enter and exit the river.

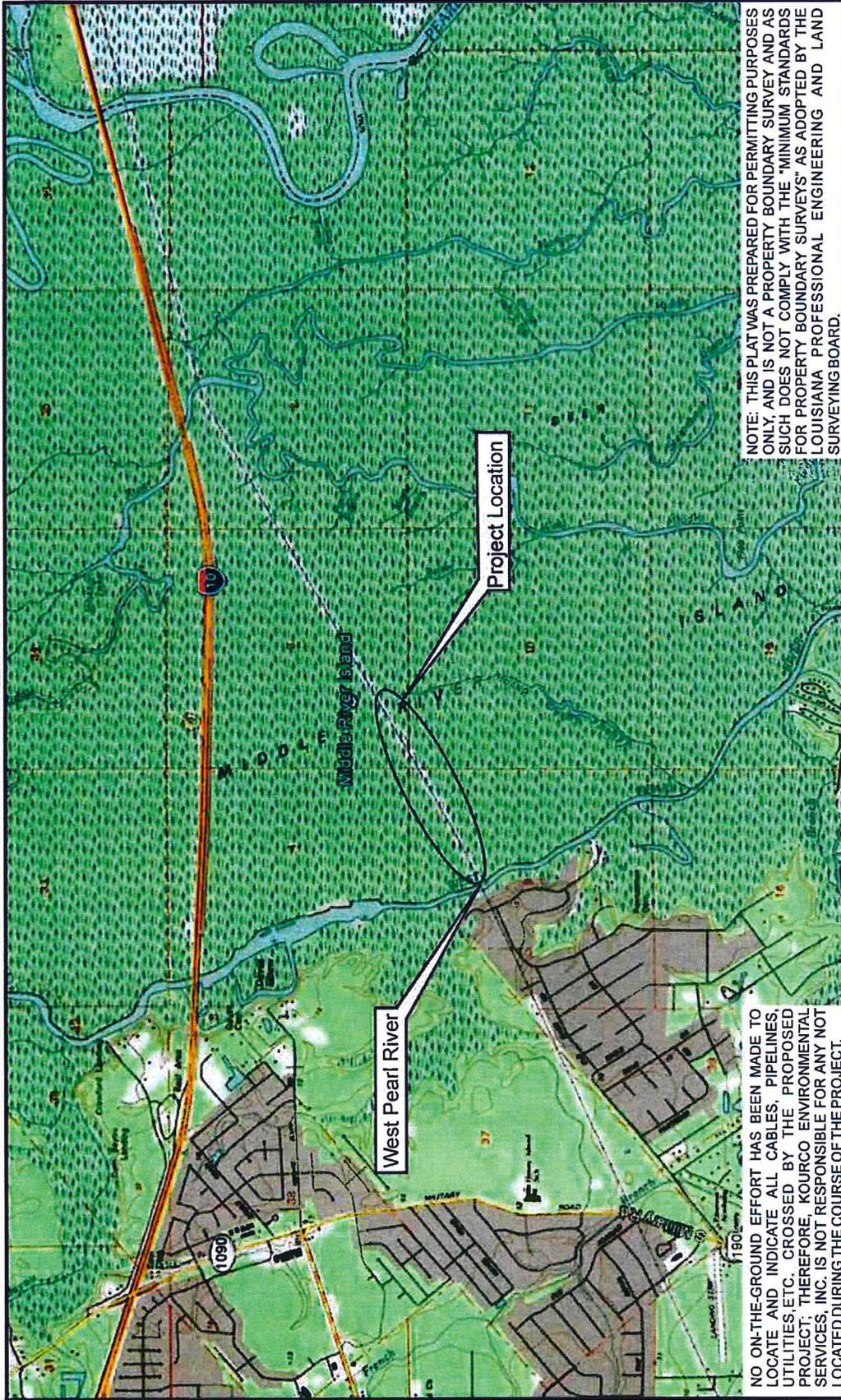
COMPLIANCE HISTORY

Entergy has adhered to each of the Scenic River Permits and their conditions as issued by the Administrator. No citation of violation of the Scenic Rivers Act has occurred as a result of Entergy's actions.

AVOIDANCE, MINIMIZATION AND OFFSETS OF POTENTIAL IMPACTS

Entergy has taken the following steps to avoid, minimize and/or offset potential impacts to the West Pearl River:

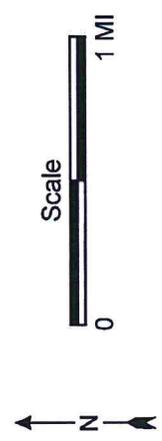
1. Entergy identified the specific potential structural issue with each tower structure. This was accomplished by conducting an on-the-ground engineering survey of each structure and its foundation.
2. Entergy identified various access route alternatives to achieve structural integrity, maintain reliability and protect the West Pearl River and the adjacent wetlands. The shortest route is from the West Pearl River down the existing right-of-way. Other routes would be longer within the wetlands of the Pearl River Basin and the PRWMA.



NOTE: THIS PLAT WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE "MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS" AS ADOPTED BY THE LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD.

	
Project: ENTERGY LOUISIANA LLC French Branch-State Line STRs 108,109,& 111	
Date: 08/18/2014	Project No.: 141101-01
Drawn By: MKM	
Figure Title: PROJECT VICINITY MAP	
Figure No.: 1 of 3	

Sections 3 and 10
 T09S R15E
 St. Tammany Parish



STRUCTURE NO. 111
(NAD27)
LAT. 30°17'16.62"N
LONG. 89°40'48.61"W

Middle River Island

STR 111

STRUCTURE NO. 108
(NAD27)
LAT. 30°17'4.21"N
LONG. 89°41'13.66"W

STR 109

STRUCTURE NO. 109
(NAD27)
LAT. 30°17'8.45"N
LONG. 89°41'5.23"W

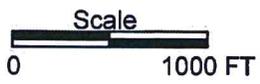
STR 108

ACCESS ROUTE
25' x 5,538' on Marsh

Blue Crab Drive
White Star Dr
Paradise Point
Swift Dr

NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, UTILITIES, ETC. CROSSED BY THE PROPOSED PROJECT; THEREFORE, KOURCO ENVIRONMENTAL SERVICES, INC. IS NOT RESPONSIBLE FOR ANY NOT LOCATED DURING THE COURSE OF THE PROJECT.

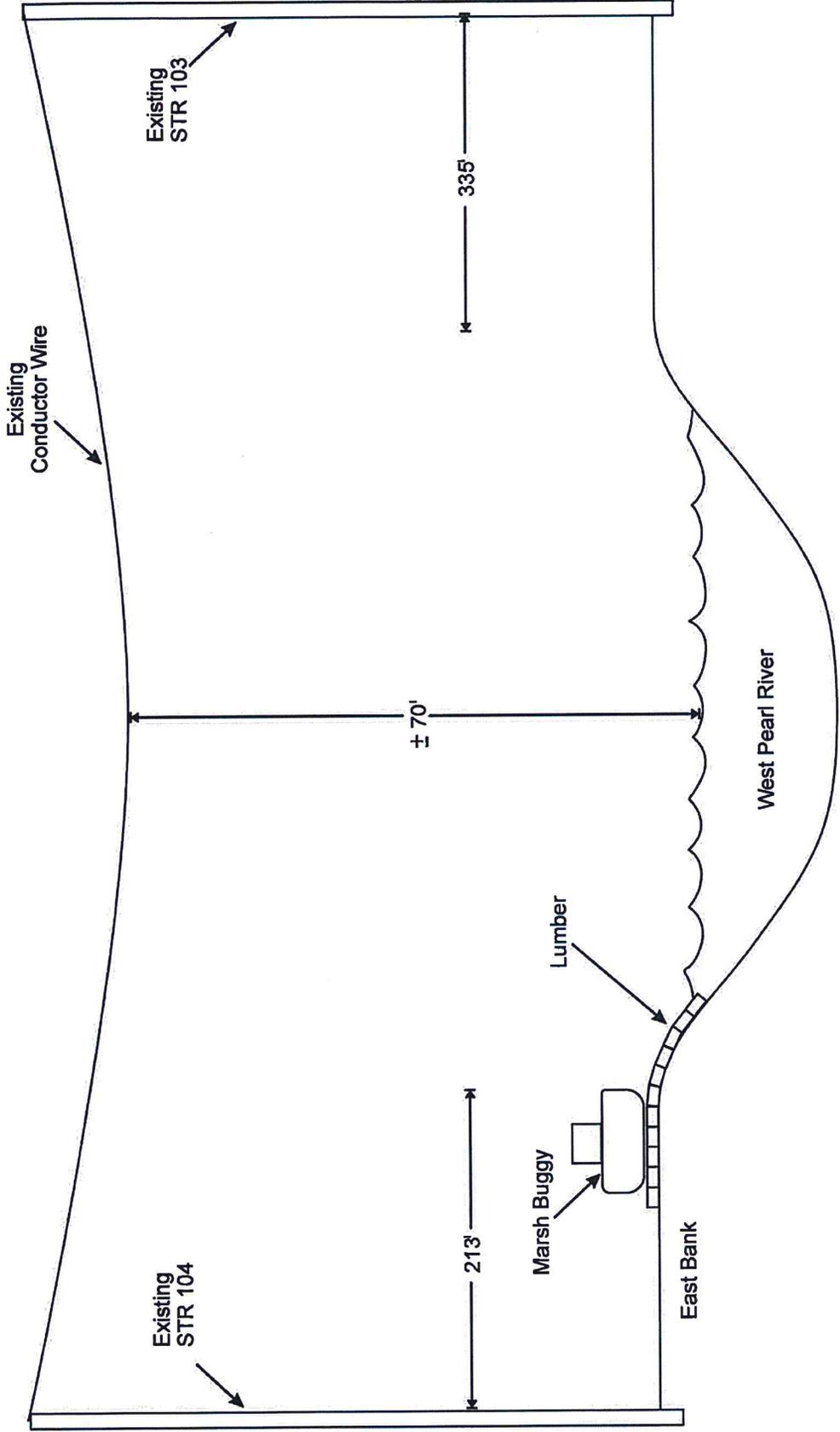
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Sections 3 and 10
T09S R15E
St. Tammany Parish



Project: ENTERGY LOUISIANA LLC French Branch-State Line STRs 108, 109, & 111	
Date: 08/18/2014	Project No.: 141101-01
Drawn By: MKM	Scale = N.T.S.
Figure Title: PROJECT SITE MAP	Figure No.: 2 of 3



TYPICAL PROTECTIVE MEASURE FOR CROSSING EAST BANK OF SCENIC RIVER
NOT TO SCALE

	
Project: ENERGY LOUISIANA LLC French Branch-State Line STRs 108,109,& 111	
Date: 08/18/2014	Project No.: 141101-01
Drawn By: MKM	
Figure Title: Typical Protective Measure for Crossing East Bank of Scenic River	
Figure No.: 3 of 3	