

## **Appendix J**

### **Delfin LNG Unanticipated Discoveries Plans**

Offshore Unanticipated Discoveries Plan

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## Unanticipated Discoveries Plan

Delfin LNG LLC (Delfin), has undertaken a systematic review of the high-resolution geophysical data for the proposed Port Delfin LNG Project (Project) area to minimize the discovery of cultural resources, either in the form of historic shipwrecks or high-probability areas for prehistoric archaeological sites, in accordance with Bureau of Ocean Energy Management (BOEM) Gulf of Mexico Outer Continental Shelf (OCS) Region (Notice to Lessee [NTL] 2005-G07) regulations. These assessments have been prepared although the Project area is currently not included in an area with a high potential for archaeological resources, as designated by the BOEM Gulf of Mexico OCS Region (NTL 2005-G10).

It is possible that small features representing high-probability areas for prehistoric archaeological sites and historic shipwreck materials may not be detected by the geophysical instruments or may not be detected during interpretation of the datasets. A number of offshore historic period cultural resources have been discovered in areas not determined to have a high potential for archaeological resources during the process of post development inspections, rather than during the predevelopment phases. Such findings may include the following:

- Anomalous and distinct mounds of lithic material, which could represent ballast material from a shipwreck;
- Intact articulated wooden ship timbers or sections of iron, steel, or metal-clad hulls;
- Substantial cargo remains, which may be scattered or closely grouped, that may include armaments, ammunitions, wooden crates and barrels, ceramics, glass, and other cultural materials;
- A widely scattered debris field comprised of ship's rigging and other structural components, as well as cargo;
- Anomalous mounds of mollusk shell that may include prehistoric lithic or worked shell material; and
- Human skeletal remains.

In order to be in full compliance with all federal regulations regarding the protection of cultural resources, an unanticipated discovery plan must be prepared. Below are steps that should be followed in the event that unrecorded shipwreck sites and/or other underwater archaeological resources are discovered during the Project.

1. In the event that a suspected shipwreck or other site is uncovered during construction activity, activity shall immediately be halted (36 Code of Federal Regulations [CFR] 800.11 [b][3]) in the area of the find until it can be determined whether the object is a shipwreck or other underwater archaeological resource and if it represents a potentially significant feature or site.
2. The Project field staff will immediately notify Delfin LNG upon the suspension of work activities in the area of the find. Notification will include the specific location in which the potential feature is located. An avoidance zone of at least 1,000 feet (305 meters) will be established around the site.
3. Delfin LNG will immediately contact the Project's cultural resource management consultant to review the information. On-site personnel will provide information on the location and any

discernable characteristics of the potential cultural resource (the target), and any survey data depicting the find.

4. If the Project archaeologist determines that the site, feature, or target is not potentially cultural in origin, the project field staff, through Delfin LNG, will be notified by the project archaeologist that work can resume. The Project archaeologist will also notify the BOEM, Louisiana Division of Archaeology (LDA) and the State Historic Preservation Office (SHPO) of this determination.
5. If, based upon both previously acquired and current remote sensing survey data, or other indications (e.g. timbers, etc.), it is determined that the new target is possibly a shipwreck or other potential cultural resource, the project archaeologist will inform Delfin LNG who will inform the project field staff that work may not resume at the given location until notified in writing. All applicable state and federal review agencies, including the BOEM, LDA, SHPO, and the Advisory Council for Historic Preservation (ACHP) (if applicable) will be notified of this determination within 2 business days.
6. A visual inspection by trained archaeological divers or remotely operated vehicle (ROV) will be conducted to determine if the site is potentially eligible for listing in the National Register of Historic Places (NRHP). The results of the survey will be formally submitted to the BOEM, LDA, SHPO, and the ACHP (if applicable) for final review and comment. The BOEM has posted guidelines for the conduct of ROV investigations at the following website:  
<http://www.boem.gov/gom-archaeology/>.
7. (a) If it is determined that the target, feature, or site does not represent a potentially significant resource, and Delfin LNG is in receipt of *written comment from the review agency(s)*, work may resume in the area.  
  
(b) If a NRHP determination cannot be made in accordance with Step 6, Delfin LNG may either undertake additional research to satisfy Step 6 or exercise Step 8 (avoidance).
8. If agency review concurs or concludes that the site may be important and is potentially NRHP eligible, Delfin LNG will develop avoidance measures to eliminate the site from the Area of Potential Effect (APE). Any proposed avoidance measures will be made available to the applicable state and federal review agencies, BOEM, SHPO, LDA, and the ACHP for review and comment.
9. If avoidance measures cannot be developed and executed, the resource may be excavated and/or removed only under a memorandum of agreement with all interested parties including BOEM, State Archaeologist/Deputy SHPO, LDA Director, and Delfin LNG, and, if applicable, the ACHP. This memorandum will outline an adequate data recovery plan that specifies a qualified research team and an appropriate research design. All appropriate permits must also be secured prior to conducting any further disturbance to the site.

*State and Federal contacts are listed below.*

U.S. Department of the Interior  
Bureau of Ocean Energy Management  
Gulf of Mexico OCS Region  
Office of Leasing and Environment  
Attention: Social Sciences Unit (5411)  
1201 Elmwood Park Boulevard  
New Orleans, Louisiana 70123-2394

Dr. Jack Irion, (504) 736 1742, [jack.irion@boem.gov](mailto:jack.irion@boem.gov)  
Mr. Douglas Jones, (504) 736 2859, [david.ball@boem.gov](mailto:david.ball@boem.gov)

Louisiana Division of Archaeology  
State Archaeologist & Director  
P.O. Box 44246  
Baton Rouge, Louisiana 70804

Dr. Charles “Chip” McGimsey, (225) 219-4598, [cmcgimsey@crt.la.gov](mailto:cmcgimsey@crt.la.gov)

State Historic Preservation Office  
P.O. Box 44247  
Baton Rouge, Louisiana 70804

Ms. Pam Breaux, (225) 342-8160, [pbreaux@crt.la.gov](mailto:pbreaux@crt.la.gov)

## **Onshore Unanticipated Discoveries Plan**

## UNANTICIPATED DISCOVERIES PLAN

### Delfin Onshore Facilities

#### I. INTRODUCTION

Delfin LNG LLC (Delfin LNG; *also* the Applicant), a Louisiana limited liability company, is proposing to develop a deepwater port (DWP) terminal (referred to herein as Port Delfin) and associated offshore pipeline (collectively, the DWP) in the Gulf of Mexico to serve the liquefied natural gas (LNG) export market, all as more fully described in Delfin's application for authorization from the Secretary of Transportation, as delegated to the Maritime Administration (MARAD) and the United States Coast Guard (USCG), pursuant to the Deepwater Port Act of 1974, as amended (DWPA). The DOF and DWP are referred to collectively as the Project (Project).

In connection with the Project, Delfin is seeking authorization from FERC under Section 7(c) of the NGA to site, construct, and operate the DOF, which includes onshore pipelines and associated metering and compression facilities, the purpose of which is to measure and deliver gas into the offshore pipeline for the DWP. The DOF comprises the following facilities on the landward side of the mean, high water mark in Cameron Parish, Louisiana:

**Onshore UTOS Pipeline.** The UTOS pipeline is an existing approximately 1.1 mile section of the onshore portion of the former UT offshore system (UTOS)<sup>1</sup> pipeline, located landward of the high water mark to Transcontinental Gas Pipe Line, LLC (Transco) Station 44, that will be reactivated. Other existing appurtenant facilities associated with the former UTOS pipeline include a mainline block valve and blowdown site located south of Louisiana Highway 82.

**Meter Station.** Delfin proposes to install a new meter station located on the Transco Station 44 property that will meter and regulate pipeline-quality gas to be supplied by interconnections with existing natural gas pipelines at Transco Station 44, which include ANR Pipeline Company, Natural Gas Pipeline Company of America, Tennessee Gas Pipeline, and Transco. The meter station and interconnecting piping will be located entirely within the fence of the existing Transco Station 44 property. The meter station would meter all supply gas entering the facility from the supply gas header.

**Supply Header.** A new supply header would connect the meter station at Transco Station 44 and the new compression station, consisting of 0.25 mile of new 42-inch pipeline to connect the former UTOS pipeline to the new metering facilities and 0.6 mile of new 30-inch twin pipelines to connect to the compressor station.

**Compressor Station.** The compressor station would consist of the following equipment or facilities:

- Four 32,000 ISO-rated horsepower (hp) Solar Titan 250 gas turbine-driven compressors
  - Three 60- kilowatt (kW) Waukesha VHP 3604 generators with Waukesha F3524GSI engines
  - Two control buildings
  - Office and warehouse buildings
  - Pig launcher
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- Check meter.

The location of the facilities is more fully set forth in Exhibit F to the Application. Section 1.3, RR 1, describes the DOF in greater detail. Figure 1.2-2 in RR 1 provides an aerial overview of the DOF.

## **II. UNANTICIPATED DISCOVERY PLAN FOR CULTURAL RESOURCES**

If cultural resources are discovered, Delfin LNG will stop work and make reasonable efforts to avoid or minimize any potential damage to the cultural resource (36 CFR 800.11 [b][3]). If cultural resources are discovered, the SHPO will be contacted immediately and he/she would be advised, and FERC also would be informed. As much information as possible concerning the cultural resource, such as resource type (archaeological or architectural), location, and size, as well as any information on its eligibility, will be provided to the SHPO and to FERC. If the resource is determined to be an historic property and avoidance is not feasible, a treatment plan will be prepared and submitted to the SHPO and to the FERC archaeologist for review and comment.

## **III. UNANTICIPATED DISCOVERY PLAN FOR UNMARKED BURIALS**

The discovery and/or disturbance of human remains is a sensitive issue that must be addressed if the situation arises. It is possible that human remains could be encountered if an unmarked grave or a cemetery is impacted by the planned undertaking. If human remains are discovered or cannot be avoided, the Louisiana State guidelines outlined in the applicable portions of the Unmarked Human Burial Sites Preservation Act (La. R.S. 8:671–681) and the Louisiana Historic Cemetery Preservation Act (La. R.S. 25:931–943) will be followed.

In practice, Delfin LNG would make a reasonable effort to identify and locate parties who can demonstrate direct kinship with the interred individuals. If such people are located, Delfin LNG would consult with them in a timely manner to determine the most appropriate treatment of the recovered burials. If the discovery consists of Native American human remains or associated funerary remains, then Delfin LNG would consult the SHPO and the FERC archaeologist immediately regarding the appropriate measures to handle such a discovery. If it can be determined adequately that the disturbed burials have an affinity to any federally recognized Native American group or to other ethnic groups, a reasonable effort would be made to identify, locate, and notify leaders or representatives of these groups.

If an association with a specific Native American group or other ethnic group cannot be made, then Delfin LNG would make a reasonable effort to locate and notify group(s) that may have a legitimate interest in the disposition of the remains based on a determination of generalized cultural affinity by a recognized professional. Qualified groups would be provided an opportunity to consult in determining the appropriate treatment of the interment. It would be the claimant's responsibility, however, to document and validate their claim.

Delfin LNG or its agents would treat all discovered human remains with dignity and respect until they are reinterred. Any costs that accrue as a result of consultation, treatment, curation, etc., would be the responsibility of Delfin LNG. If human remains are exposed during construction, Delfin LNG would proceed as in the case of a normal emergency discovery situation. The county medical examiner or coroner would be notified; the SHPO and the FERC also would be contacted immediately. A qualified professional archaeologist would investigate the reported discovery within two days. Written authorization of excavation or re-interment of any historic graves also would be obtained.

#### **IV. CONTACT INFORMATION**

1. Federal Energy Regulatory Commission Contact: Laurie Boros, Staff Archaeologist, 202-502-8046, [laurie.boros@ferc.gov](mailto:laurie.boros@ferc.gov)
2. Louisiana State Historic Preservation Officer: Mr. Phil Bogan, SHPO, Louisiana Division of Archaeology, Attn. Section 106 Consultation; Telephone 225-342-8170; Fax 225-342-4480; email: [archaeology@crt.state.la.us](mailto:archaeology@crt.state.la.us)
3. Delfin LNG Contact: William H. Daughdrill, Director of Health Safety and Environment, 850 933-1720; [w.daughdrill@fairwoodlng.com](mailto:w.daughdrill@fairwoodlng.com)
4. Additional Contacts to be updated post filing with current project contacts.