In Reply Refer To: MS 5232

Trunkline Gas Company
Attention: Mr. S. L. Horton
Post Office Box 1642
Houston, Texas 77251-1642

Gentlemen:

Your letter dated March 18, supplemented April 21, 1993, requests approval to modify the following pipeline located in the Ship Shoal Area:

<table>
<thead>
<tr>
<th>Pipeline Right-of-Way No.</th>
<th>Size (inches)</th>
<th>Length (feet)</th>
<th>Service</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCS-G 1693 (Seg. No. 9954)</td>
<td>30</td>
<td>80,075</td>
<td>Gas</td>
<td>Platform T-25 Block 139 Unleased</td>
<td>Federal/State Boundary Lease OCS 0058</td>
</tr>
</tbody>
</table>

The original beginning point of Segment No. 3554, which was Trunkline Gas Company's (Trunkline) Platform T-25 in Block 139, Ship Shoal Area, was damaged by Hurricane Andrew. Trunkline proposes to install a new T-25 platform approximately 100 feet east of the old T-25 platform, at coordinates X = 2,181,390 and Y = 43,320 and reconnect the aforementioned pipeline to the new structure.

Specifically, Trunkline proposes to abandon in place 525 feet of 30-inch pipe and install 600 feet of new 30-inch pipe to the remaining pipeline; therefore the total length of Right-of-Way OCS-G 1693, Segment No. 9954, will be 80,075 feet (15.17 miles).

Pursuant to 30 CFR 250.150(b), your request for the aforementioned modification is hereby approved as proposed. Trunkline is reminded that construction reports shall be submitted to this office within 30 days upon completion of this modification.

Based on our analysis of your application, the maximum allowable operating pressure for this pipeline shall remain 1,200 psig.

Sincerely,

(Orig. Sgd.) Kent E. Stauffer

D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: 1502-01 P/L OCS-G 1693 w/orig letter (KFaust) (MS 5232)
     1502-01 P/L OCS-G 1693 w/cy of letter (microfilm) (MS 5033)
     MS 5260 w/attachment
     MS 5232 Carto w/plat

MConner:km:5/13/93
March 18, 1993

Regional Supervisor, Field Operations
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Blvd.
New Orleans, LA 70123-2394

Attn: Mr. Mike Conner

RE: Application for Amendment to Existing Right-of-Way
Ship Shoal, Block 139
OCS No. G-1693, G-1693B, G-4635, G-1852,
G-1693C, G-4628
Offshore Louisiana, Gulf of Mexico

Gentlemen:

Pursuant to the authority granted in Section 5 (e) of the Outer
Continental Shelf Lands Act (67 St. 462) (43 U.S.C. 1331), as
amended (92 St. 629), and in compliance with the regulations
contained in Title 30 CFR, Part 250, Subpart J, Trunkline Gas
Company (TGC) is filing this application in quadruplicate, for an
Amendment to the above referenced subsea pipeline rights-of-way.
This installation is necessary to reconnect the pipelines to the
new T-25 platform from the original T-25 platform that was damaged
by Hurricane Andrew on August 25, 1992. The new platform will be
offset 100 feet and will require modification to the connecting
pipelines. The location of this project is indicated on the
Vicinity Map and Area Plot Plans included in Exhibit A. TGC agrees
that said amendment, if approved, will be subject to the terms and
conditions of said regulation.

In accordance with applicable regulations, we have notified each
lessee or operator of record and right-of-way holder whose lease or
right-of-way is affected by this application. A list of such
lessees or operators of record and right-of-way holders is located
in Exhibit B. In the event we cannot obtain completed return
receipt cards, a letter from the lessee, right-of-way or easement
holder expressing no objection to the proposed project will be
obtained and forwarded to your office. The proposed route of the
right-of-way does not adjoin or subsequently cross state submerged
lands.
For your review, please find enclosed the following maps, drawings and documents:

Exhibit A: Plans, Drawings, and Design Criteria for each of the pipeline modifications (four copies enclosed).

Exhibit B: List of Leaseholders and Operators.

Exhibit C: Proposed Pipeline Construction and Abandonment Procedures.

Exhibit D: Summary of Pipeline Replacement and Abandonment.

Exhibit E: Nondiscrimination in Employment Stipulation (three original signed statements are enclosed).

The company contact on technical points or other information is:

Kathryn Vocke, Division Engineer
Stan Chen, Principal Engineer
Trunkline Gas Company
P.O. Box 1642
Houston, TX 77251-1642
Telephone: (713) 989-2213

As the applicant, TGC agrees to be bound by the forgoing regulations and further agrees to comply with the applicable regulations as set forth in the OCS Pipeline Procedures Guidebook dated September 4, 1984. Additionally, TGC hereby agrees to keep open at all reasonable times for inspection by the Minerals Management Service, the area covered by this right-of-way and all improvements, structures and fixtures thereon and all records relative to the design, construction, operation, maintenance, and repairs or investigations on or with regard to such area.
If the information provided in this application meets with your approval, TGC would appreciate your issuing the necessary decision for the right-of-way modifications at your earliest convenience. Inquiries concerning this application should be directed to the applicant at P. O. Box 1642, Houston, Texas 77251-1642, attention Kathryn Vocke.

Sincerely,

S. L. Horton  
Vice President,  
Engineering and Materials

Attachments

LEE  
OC1MWS T258J38_APP
EXHIBIT A

PIPELINE CONSTRUCTION DRAWINGS

AND

DESIGN CRITERIA
EXHIBIT B

LIST OF LESSEE'S, OPERATOR OF RECORD

AND

RIGHT-OF-WAY HOLDERS
LEASE HOLDERS AND OPERATORS OF RECORD

Ship Shoal 139

Mr. Steve Richardson
Supervisor Engineering
CNG Producing Company
1450 Poydras Street
New Orleans, LA 71102-6000

Mr. Roger Dunham
ANR Pipeline Company
500 Renaissance Center
Detroit, MI 48243
EXHIBIT C

PROPOSED PIPELINE CONSTRUCTION

AND

ABANDONMENT PROCEDURES
PROPOSED PIPELINE CONSTRUCTION AND ABANDONMENT PROCEDURES

Liquids Handling Procedures

Before construction commences, the pipelines will be pigged in order to remove existing natural gas condensate. Cleaning operations will move any existing free liquids to the pipeline facility's liquid terminals located onshore. Each contractor is instructed to have on hand equipment that can be used to remediate moderate accidental spills should they occur.

All of the pipeline sections that will be installed and reconnected will be new pipe. These new sections will be hydrostatically tested using water from the Gulf of Mexico. After the tests have been completed, the water will be discharged back into the Gulf. No chemicals will be used in this test and no contaminants are expected to be present in the discharge water.

Construction Procedures

Construction procedures will be those typically used in the offshore pipeline industry. Construction will be accomplished utilizing conventional offshore construction and derrick barges in the setting of the new platforms and constructing the replacement segments of new pipeline. The subsea pipeline will then be buried to depths of three feet or greater as required for the purpose of tie-in. Jetting of the existing and new pipelines will be done as required to uncover and recover the pipelines.

Abandonment Procedures

Each pipeline segment to be abandoned shall be purged, flooded, capped, and abandoned-in-place. The pipeline segments will be buried from 3 feet up to 8 feet below the natural mudline. Sandbags will be placed to assure proper burial depth of the abandoned pipeline segments if depth is less than 3 feet.
EXHIBIT D

SUMMARY OF PIPELINE REPLACEMENT

AND

ABANDONMENT
# TRUNKLINE GAS COMPANY

## PIPELINE SUMMARY FOR 1993 PIPELINE MODIFICATIONS AND ABANDONMENTS

**AT SHIP SHOAL BLOCK 139, OFFSHORE LOUISIANA**

<table>
<thead>
<tr>
<th>OCS NO./SEG. NO.</th>
<th>TRUNKLINE NO.</th>
<th>ORIGINAL PERMIT LENGTH</th>
<th>MODIFIED LENGTH</th>
<th>ABANDONMENT LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-1693/3554</td>
<td>30* LN 300-1</td>
<td>80,000' (15.15 MI)</td>
<td>80,075' (15.17 MI)</td>
<td>525' (0.1 MI)</td>
</tr>
<tr>
<td>G-4635/6071</td>
<td>30* LN 300-2</td>
<td>118,232' (22.39 MI)</td>
<td>118,312' (22.41 MI)</td>
<td>520' (0.10 MI)</td>
</tr>
<tr>
<td>G-1693/1659*</td>
<td>30* LN 319B-100</td>
<td>50,000' (9.47 MI)</td>
<td>49,935' (9.46 MI)*</td>
<td>1205' (0.24 MI)*</td>
</tr>
<tr>
<td>G-1693C/1649</td>
<td>18* LN 319D-100</td>
<td>95,000' (17.99 MI)</td>
<td>94,930' (17.98 MI)</td>
<td>670' (0.13 MI)</td>
</tr>
<tr>
<td>G-4628/6072</td>
<td>20* LN 319D-500</td>
<td>97,431' (18.45 MI)</td>
<td>97,376' (18.44 MI)</td>
<td>655' (0.12 MI)</td>
</tr>
<tr>
<td>G-1852/1650</td>
<td>26* LN 319A-100</td>
<td>158,122' (29.95 MI)</td>
<td>158,212' (29.96 MI)</td>
<td>510' (0.10 MI)</td>
</tr>
<tr>
<td>G-1693/1648</td>
<td>10* LN 319C-100</td>
<td>8,200' (1.55 MI)</td>
<td>- 0 -</td>
<td>8,200' (1.55 MI)</td>
</tr>
</tbody>
</table>

*INCLUDES ADDITIONAL MODIFICATION AND ABANDONMENT AT SOUTH TIMBALIER BLOCK 72.*

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SSC/TGCSH139.EJF

03/15/93
<table>
<thead>
<tr>
<th>OCS NO./SEG. NO.</th>
<th>TRUNKLINE NO.</th>
<th>ORIGINAL PERMIT LENGTH</th>
<th>MODIFIED LENGTH</th>
<th>ABANDONMENT LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-1693/1658</td>
<td>24&quot; LN 319B-300</td>
<td>38,500' (7.29 MI)</td>
<td>38,715' (7.33 MI)</td>
<td>- 0 -</td>
</tr>
<tr>
<td>G-1693/1660</td>
<td>24&quot; LN 319B-200</td>
<td>115,000' (21.78 MI)</td>
<td>115,245' (21.82 MI)</td>
<td>- 0 -</td>
</tr>
<tr>
<td>G-11709/8906</td>
<td>24&quot; LN 319B-4400</td>
<td>106,323' (20.12 MI)</td>
<td>106,483' (20.17 MI)</td>
<td>- 0 -</td>
</tr>
<tr>
<td>G-1693B/1657</td>
<td>12&quot; LN. 319B-1700</td>
<td>8,000 (1.52)</td>
<td>7,740' (1.47 MI)</td>
<td>260' (0.05 MI)</td>
</tr>
</tbody>
</table>
EXHIBIT E

NONDISCRIMINATION IN EMPLOYMENT STIPULATION
As a condition to the approval of the granting of the subject pipeline right-of-way, the grantee, Trunkline Gas Company, hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

During the performance of this grant, the grantee agrees as follows:

During the performance under this grant, the grantee shall fully comply with paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended, (reprinted in 41 CFR 60-1.4 (a)), which are for the purpose of preventing discrimination against persons on the basis of race, color, religion, sex or national origin. Paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended, are incorporated in this grant by reference.

__________________________
Signature of Grantee
S. L. Horton, Vice President,
Engineering and Materials

Date: 3/7/93
Nondiscrimination in Employment

As a condition to the approval of the granting of the subject pipeline right-of-way, the grantee, Trunkline Gas Company, hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

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[Signature]
Signature of Grantee
S. L. Horton, Vice President,
Engineering and Materials

Date: 3/17/43
United States
Department of the Interior
Minerals Management Service

NonDiscrimination in Employment

As a condition to the approval of the granting of the subject pipeline right-of-way, the grantee, Trunkline Gas Company, hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

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Date: 3/17/83

Signature of Grantee
S. L. Horton, Vice President,
Engineering and Materials
TRUNKLINE GAS COMPANY

ANSWER TO MINERALS MANAGEMENT SERVICE
ADDITIONAL
INFORMATION QUESTIONNAIRE

Proposed Pipeline Modification for 30-Inch Line 300-1
in Ship Shoal 139, Offshore, Louisiana
OCS No. G-1693

1. ENGINEER: S. S. Chen - (713) 989-2122 for technical information
   K. A. Vocke - (713) 989-2213 for other information

2. The description of the line is as follows:
   a) Mainline:
      30.00" O.D. x 0.750" W.T. x 234.51 lbs/ft. API-5L-X60, DSAW pipe.
   b) Pipeline Riser and Fabrication:
      30.00" O.D. x 0.750" W.T. x 234.51 lbs/ft. API-5L-X60, DSAW pipe.

3. Sacrificial anodes will be used to cathodically protect the pipeline. The description of the anodes are as follows:

   Type: Galvalum III
   Weight: 320 Lbs. (Galvalum III net weight)
   Spacing: 3 anode bracelets will be installed, at approximately 300 foot intervals.

4. The water depth along the proposed route is approximately 63'.

5. External Pipe Coating:
   Mainline:
   Thin Film Epoxy, 12-14 mils thickness and 3"-165 lb/cu-ft concrete.
   Riser:
   a) Below Splash Zone
      Same as mainline.
   b) In Splash Zone
      1" thickness of splashtron rubberized coating.
c) Above Splash Zone and Platform Piping
   Inorganic zinc primer, tie-coat and vinyl topcoat paint system.

6. No internal coating will be applied. Corrosion inhibitor will be injected, as deemed necessary.

7. Specific gravity of the empty coated pipe is 1.30 based on seawater at 64.00 lbs/cu. ft.

8. The expected specific gravity of the gas transported is 0.61 based on air at 0.763 lbs/cu. ft. The specific gravity of natural gas condensate is 0.49 based on water at 62.41 lb/cu.ft.

9. The design capacity of the pipeline is approximately 440 MMCFD on the normal operating pressure of 1100 psig.

10. The pipeline will be hydrostatically tested at 2185 psig (+0, -25 psig) for a minimum duration of 8 hours. The pre-installed riser section will be pretested at onshore yard to 2175 psig (+0, -15 psig) for a minimum duration of 8 hours.

11. Maximum allowable operating pressure based on ANSI 600 valves, flanges and fittings is 1440 psig.

12. Maximum allowable operating pressure based on mainline pipe is 2160 psig.

\[
P = \frac{2st \times F \times E \times T}{D}
\]

\[
P = 2 \times 60,000 \times 0.750 \times 0.72 \times 1.0 \times 1.0
\]

\[
P = 2160 \text{ psig}
\]

13. Maximum allowable operating pressure based on riser pipe is 1500 psig.

\[
T = 1.00 \text{ for } 250^\circ\text{F or less}
\]

\[
P = 2 \times 60,000 \times 0.75 \times 0.50 \times 1.0 \times 1.0
\]

\[
P = 1500 \text{ psig}
\]
14. The pipeline will connect to an existing 30-inch pipeline having a MAOP of 1200 psig. Maximum allowable operating pressure as determined in accordance with DOT Title 49, Code of Federal Regulations Part 192, as applicable, is limited to 1200 psig.

15. No pumps or prime movers will be connected to the pipeline.

16. The burial depth is at least 3 feet.

17. All pipeline facilities comply with Title 49 CFR Part 192.

18. Construction information

   a. Estimated offshore starting date: May 1, 1993
   b. Method of Construction: Conventional
   c. Method of Burial: Jet Barge
   d. Estimated time required to lay pipe: 14 days
   e. Estimated time to complete Project: 80 days
THE EXISTING PIPELINE SEGMENT
SHALL BE PURGED, FLOODED, PLUGGED
AND ABANDONED IN-PLACE.

ABANDONMENT PROFILE
PROPOSED TRUNKLINE JUNCTION T-25 PLATFORM SHIP SHOAL BLOCK 139

GENERAL NOTES:
1. TRUNKLINE PIPELINE FACILITIES COMPLY WITH PART 192, TITLE 49 OF CFR.
2. TRUNKLINE PLATFORM FACILITIES COMPLY WITH PART 192 CFR & ANSI 31.8 CODE.
3. ALL VALVES AND FITTINGS ARE ANSI 600 OR BETTER. THE MAOP IS 1200 PSIG.

UNDERWATER TIE-IN SHIP SHOAL BLOCK 139

FLOW SCHEMATIC

TRUNKLINE GAS COMPANY
A Unit of Panhandle Eastern Corporation
5400 Westheimer Ctr. Houston, TX 77056-5310 713-627-5400
BOAT LANDING ELEVATION AT ROW "A" AS SHOWN & NOTED

BOAT LANDING ELEVATION AT ROW "B" AS SHOWN & NOTED

SCALE 1/4"=1'-0"

NOTE:
RUB STRIP NOT SHOWN FOR CLARITY

BOAT LANDING ELEVATION AT ROW "B"
SCALE 1/4"=1'-0"

RISER GUARD

TITLE: PROPOSED PIPELINE MODIFICATION & ABANDONMENT FOR 30° LINE 300-1

LOC.: SHIP SHOAL BLK. 139 - OFFSHORE LA.
CKD. BY ENG. DATE 363 W.O. 014288
DRN. BY KEW SCALE AS SHOWN DWG. NO. SS-P-8627.832

TRUNKLINE GAS COMPANY
A Unit of Panhandle Eastern Corporation
5400 Westheimer Ct, Houston, TX 77056-5310 713-627-5400

SCALE 1"=10'
NOTES:

1. Sandbags to contain cement-sand mix by volume of 1 part cement to 3 parts sand.
2. Sacks to be made of burlap or other material acceptable to the engineer, which will allow water to permeate the mix.
3. After filling the bag it shall be closed by sewing or the equivalent, but not by bunching and tying the ends.

SECTION "A-A"