

TEXAS EASTERN TRANSMISSION CORPORATION

# Transmission Guidelines

	Guide No.: TG-010.02	Date: 01/08/96
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Title:

## REQUIREMENTS FOR CONSTRUCTION NEAR TEXAS EASTERN PIPELINES

### 1.0 PURPOSE

1.1 This guideline presents the requirements for construction in the vicinity of a Texas Eastern Transmission Corporation (herein referred to as Company) pipeline(s) or easement. These requirements are general in nature whereby specific circumstances may necessitate special considerations. The following areas are addressed.

- 1.0 Purpose
- 2.0 Company Notifications
- 3.0 General Requirements
- 4.0 Utility and Foreign Line Crossings
- 5.0 Blasting and Excavation

1.2 If any of the conditions stated in this document cannot be satisfied, the Company representative shall be advised immediately.

### 2.0 COMPANY NOTIFICATIONS

2.1 The Company considers it essential that developers and contractors know the exact location and depth of the Company's pipeline(s) and requires that the pipeline(s) be shown on the contractor's plans.

2.2 The Company will field locate and stake its pipeline(s) at selected points at no cost to the developer or contractor. However, the cost to excavate the pipeline and restore surface improvements (e.g., pavement, landscaping, sidewalks) shall be the responsibility of the developer or contractor. Note, a Company representative must be present during the excavation to expose the pipeline.

2.3 Copies of any proposed plans or drawings for work within the pipeline easement shall be submitted to the Company for review at least 30 days prior to the commencement of work.

TEXAS EASTERN TRANSMISSION CORPORATION

# Transmission Guidelines

Guide No.:

TG-010.02

Date:

01/08/96

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**REQUIREMENTS FOR CONSTRUCTION NEAR TEXAS EASTERN PIPELINES**

- 2.4 The Company shall be given at least three working days advance notice prior to the actual commencement of any work or excavation over or near its pipeline easement so that the Company may locate its pipeline(s) and have a field representative present during excavation or construction activities.
- 2.5 In addition to complying with the above Company requirements, developers, contractors, utility companies, and landowners shall comply with the provisions of all state and/or local one-call regulations relating to excavation and demolition work in the vicinity of underground facilities.

### 3.0 GENERAL REQUIREMENTS

- 3.1 No building or obstruction may be erected within the pipeline easement. If requested, the Company will furnish information which describes the pipeline easement width.
- 3.2 Wire fencing and decorative fencing that can be easily removed and replaced may cross the pipeline easement with prior written approval from the Company.
- 3.3 Planting of trees is not permitted on the pipeline easement.
- 3.4 Planting of shrubs or bushes on the pipeline easement is discouraged. If shrubs are planted on the Company's pipeline easement, they shall not exceed 4 feet in height.
- 3.5 No drainage swales and no reductions in grade are permitted on the pipeline easement. Limited additional fill may be deposited with prior written approval from the Company.
- 3.6 A Company representative must give prior approval for heavy equipment to cross the Company pipeline(s) at any location. Minimum cover and other requirements will be determined by the Company on an individual basis.

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- 3.7 Parking areas should be planned so as to avoid covering the pipeline easement if at all possible.
- 3.8 No roads, foreign lines, or utilities may be installed parallel to the pipeline within the pipeline easement.
- 3.9 All foreign lines, roads, electrical cables and other utilities must cross the pipeline easement at an angle as near to 90-degrees as practical.
- 3.10 If, in the sole judgement of the Company, the utility's, owner's and/or developer's proposed plans necessitate the installation of casing pipe and/or other alterations to protect the Company's pipeline(s), the utility, owner and/or developer shall pay the Company the estimated cost prior to the Company beginning the alterations. Once the actual costs have been incurred and tabulated by the Company, the Company and the utility, owner and/or developer shall settle any cost variances.

## 4.0 UTILITY & FOREIGN LINE CROSSINGS

- 4.1 All buried foreign lines must be installed as noted below and as stated in Section 3.9, as appropriate.
  - 4.1.1 Foreign lines must be installed below the Company's pipeline(s) with a minimum of 12 inches of clearance except as noted in Section 4.1.2. Additional separation may be required in marshy areas or other areas where the 12 inches of clearance would have a potential for future problems.

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*NOT WITH DUKE  
ANY MORE  
CLIFF BOOTH  
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- 4.1.2 Minor domestic utilities such as sewer lines, water lines, gas lines, electric lines, telephone lines or cable television lines may be installed above the Company's pipeline(s) with prior approval from the Company representative. All such minor domestic utilities shall be installed with a minimum of 12 inches of clearance. The Company will not be responsible for any damage or required repairs which are caused by the Company's operating and maintenance activities when foreign lines are installed above the pipeline(s). Protective measures such as a concrete encasement, ditch marking tape, and/or above ground markers may be required as deemed necessary by the Company representative.
- 4.1.3 Suitable backfill shall be placed between the foreign line and the Company's pipeline(s).
- 4.1.4 All metallic foreign lines must have test leads (two No. 12 THW black insulated solid copper wires) attached at the point of crossing for corrosion control monitoring. Test wires shall be routed underground and terminated at a point specified by the Company.
- 4.2 The following requirements shall be met for fiber optic cables which encroach upon the pipeline easement.
- 4.2.1 The fiber optic cable shall be encased in 6" thick concrete (which has been color-coded with an orange dye) and shall extend across the entire pipeline easement.
- 4.2.2 The top of the 6" thick concrete encasement shall have a minimum of 36 inches of clearance beneath the pipeline(s), except where the pipeline(s) is cased. Fiber optic cables may be installed above pipelines which are cased.

TEXAS EASTERN TRANSMISSION CORPORATION

# Transmission Guidelines

Guide No.:

TG-010.02

Date:

01/08/96

Title:

**REQUIREMENTS FOR CONSTRUCTION NEAR TEXAS EASTERN PIPELINES**

- 4.2.3 Metallic identification tape must be buried a minimum of 12 inches below top of ground (or below plow depth in fields) and shall be positioned above the fiber optic cable across the entire width of the pipeline easement.
- 4.2.4 The fiber optic cable crossing must be clearly and permanently marked with identification signs on both sides of the pipeline easement.
- 4.3 The information listed below shall be furnished to the Company for all proposed electrical cables which will encroach upon the pipeline easement. Specific installation requirements for cables carrying less than 600 volts shall be determined by the Company on a case by case basis. Cables which carry 600 volts or greater shall adhere to the installation requirements described in Section 4.4.
- Number, spacing and voltage of cables
  - Line loading and phase relationship of cables
  - Grounding system
  - Position of cables and load facilities relative to pipeline(s)
- 4.4 The following installation requirements shall be met for electrical cables carrying over 600 volts but less than 7,600 volts. The Company will determine the installation procedures for electrical lines carrying voltages over 7,600 volts on a case by case basis.
- 4.4.1 The electrical cable shall be installed in nonmetallic conduit encased in 6" thick concrete which has been color-coded with a red dye extending across the entire pipeline easement.
- 4.4.2 The electrical cable must be installed a minimum of 36 inches below the Company's pipeline(s) across the entire width of the pipeline easement.
- 4.4.3 The neutral wires shall be externally spirally wound and grounded on each side of the pipeline easement.

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- 4.4.4 Metallic identification tape must be buried a minimum of 12 inches below top of ground (or below plow depth in fields) and shall be positioned above the electric cable across the entire width of the pipeline easement.
- 4.4.5 The electric cable crossing must be clearly and permanently marked with identification signs on both sides of the pipeline easement.
- 4.5 Overhead power line and telephone line installations shall be reviewed by the Company on an individual basis. As a minimum requirement, overhead lines shall be installed with a minimum clearance of 30 feet above the grade of the pipeline easement. The installation of poles will not be permitted on the pipeline easement.

## 5.0 BLASTING AND EXCAVATION

- 5.1 Blasting operations shall be performed in accordance with the guidelines set forth below.
  - 5.1.1 The Company shall be advised of any blasting proposed within 500 feet of its facilities. No blasting is permitted within the pipeline easement, and no blasting shall occur outside the pipeline easement if the Company determines that such blasting may be detrimental to its facilities.
  - 5.1.2 The Company reserves the right to require that the party responsible for blasting furnish a detailed blasting plan at least three working days prior to blasting to allow for evaluation and to make arrangements for witnessing the blasting operation. Blasting codes shall be followed in all cases.
- 5.2 Excavation operations shall be performed in accordance with the guidelines set forth below.

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- 5.2.1 When a contractor excavates near Company pipelines, the Company representative must be on site at all times to witness the excavation, to locate the pipelines, and to determine the depth of cover before and during the excavation (see Section 2.4). The contractor shall not perform any excavation, crossing, backfilling or construction operations unless the Company representative is on site. The Company representative shall have full authority to stop the work if it is determined that the work is being performed in an unsafe manner.
- 5.2.2 Excavation by a third party backhoe or other mechanical equipment shall not be permitted within the Company easement until the excavation procedure has been reviewed and approved by the Company representative. As a minimum, the excavation procedure shall require that a steel plate be welded over the teeth of the backhoe bucket and that the side cutters be removed prior to excavation. Hand shovels shall be used for any excavation above the pipelines.
- 5.3 Federal regulations require that the Company's pipe be inspected whenever it is exposed. OSHA excavation requirements must therefore be met to ensure the safety of the Company representative who must enter the excavation.