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O&M Section # 17	SCUD Task # 40
Section: Construction/Operations	Revision Date: 09/06/16

Installation of Plastic Pipe by Plowing/Pulling

SCOPE AND PURPOSE

This procedure is to provide personnel installing plastic pipe by plowing with a safe and effective procedures to ensure the integrity of the piping system.

RESPONSIBILITY

The Service Line Supervisor, or other designee, is responsible to ensure that plowing operations are performed as described in this procedure.

PERSONNEL SAFETY (Where Applicable)

Ensure that the work zone/area is setup to protect the public and SCUD employees from danger. Ensure that all applicable safety equipment is being utilized as per company policy.

EQUIPMENT AND MATERIALS

Mechanized equipment designed for plowing in plastic pipe
 Plastic pipe
 Tracer wire
 Safety Equipment

OPERATOR QUALIFICATION

This activity is a covered task under the Operator Qualification Plan and may only be performed by or directed and observed by an individual who is currently qualified to perform this task. Refer to the OQ Plan for specific qualification requirements.

INSTRUCTIONS

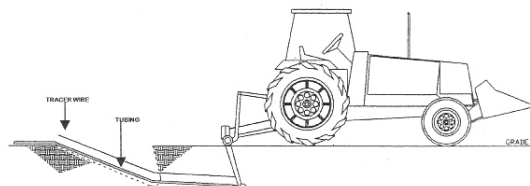
Prior to Plowing

- Expose all underground facilities in the path of the plowing operation to verify location and depth
- Protect the pipe so it will not be scratched or gouged during the plow-in operation.
- Seal the leading edge of the plastic pipe to be plowed in.

For installation by pulling

During a pulling operation the pipe is attached to a plow blade and is pulled through the soil. This creates a potential for pipe damage due to friction between the soil and the pipe. The following steps will minimize the risk of damage to the pipe.

- Dig an entry trench long enough to lower the pipe to burial depth without causing excessive strain on the pipe (see below).



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- Attach the pipe to be pulled in to the pulling head (see step j below if a “weak link” is to be attached).
- Care must be taken not to put excessive strain on the pipe being pulled in.
- Tracer wire must be pulled in along with the plastic pipe.
- Protect the plastic pipe that is above ground before it enters the entry trench from damage.
- Take caution to prevent kinking or buckling of the pipe. Any section of pipe containing a kink or buckle must be cut out.
- The pipe must be pulled at a depth to give the proper amount of cover:
 - A. 24 inches of cover over mains.
 - B. 18 inches of cover over service lines on ROW or under roads and alleys.
 - C. 12 inches of cover over service lines on private property. We try to be 18 inches deep on private property.
- During the pull, the pipe must be continually monitored as it feeds into the ground to make sure it feeds smoothly and does not kink or stop moving. If the pipe stops feeding into the ground while the equipment is moving, the pipe will stretch and be damaged. If this happens the stretched section must be cut out.
- Check the tracer wire for continuity. If the tracer wire has broken make necessary repairs.
- Pressure test according to SCUD procedures.

REPORTING/NOTIFICATION

Complete documentation in accordance with Operation and Maintenance Manual.

ABNORMAL OPERATING CONDITIONS

AOC Main Category (Examples of Specific AOCs)	Reactions to AOC, as appropriate	
<i>Unplanned escape of product from a pipeline</i> <ul style="list-style-type: none"> • Blowing/Escaping gas/Grade I leak 	<ul style="list-style-type: none"> ➤ Protect life & Property ➤ Prevent accidental ignition ➤ Notify appropriate personnel ➤ Notify Fire/Emergency Responders ➤ Initiate Emergency Plan 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC ➤ Use appropriate PPE ➤ Stop gas flow ➤ Make repairs/eliminate AOC
<i>Fire or Explosion</i> <ul style="list-style-type: none"> • Fire on a pipeline • Explosion 	<ul style="list-style-type: none"> ➤ Protect life & Property ➤ Prevent accidental ignition ➤ Notify appropriate personnel ➤ Notify Fire/Emergency Responders ➤ Initiate Emergency Plan 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC ➤ Use appropriate PPE ➤ Stop gas flow ➤ Make repairs/eliminate AOC
<i>Pipeline Damage</i> <ul style="list-style-type: none"> • Gouges, Scrapes, etc. 	<ul style="list-style-type: none"> ➤ Protect life & Property ➤ Prevent accidental ignition 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC



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	➤ Notify appropriate personnel	➤ Make repairs/eliminate AOC
<i>Unplanned Flow Rate Deviation</i> <ul style="list-style-type: none"> • Unplanned Decrease in Flow & or No Flow 	<ul style="list-style-type: none"> ➤ Protect life & property ➤ Notify appropriate personnel ➤ Initiate Emergency Plan as Needed 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC ➤ Make repairs/eliminate AOC
<i>Inadequate Odorization or Reports of Gas Odor</i> <ul style="list-style-type: none"> • Low odorization • Over odorization • Odor complaint 	<ul style="list-style-type: none"> ➤ Protect life & property ➤ Prevent accidental ignition ➤ Notify appropriate personnel 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC ➤ Make repairs/eliminate AOC

RELATED PROCEDURES

CONST005 – Pressure Testing Facilities