

APPENDIX 6 - GATHERING LINES

Gathering lines not subject to the Federal Minimum Pipeline Safety Standards 49 CFR Part 192 must be designed, constructed, tested, operated and maintained as specified in Appendix 14-k of Part 255.

Appendix 14-k

Any gathering line or portion thereof not subject to Federal regulations under 49 CFR part 192 and located more than 150 feet from a residence or place of public assembly shall be designed, constructed, tested, operated and maintained in conformance with sound engineering practices, including the following:

1. All joints shall be visually inspected for defects and shall have a neat workmanlike appearance. Qualified welders and plastic joiners shall be employed.

2. All pipe shall be installed with a minimum of two feet of cover, except as otherwise provided herein or except where solid rock is encountered, in which case the minimum cover shall be 12 inches. In areas subject to erosion or in locations where future grading is likely, such as at road, highway, railroad and ditch crossings, additional protection shall be provided. In areas actively cultivated for commercial farm purposes in at least two out of the last five years, as identified by the farmland operator¹, all pipe shall be installed with a minimum 40 inches of cover unless the farmland operator agrees that normal agricultural practices, including land fitting (e.g., plowing, subsoiling, disking, etc.) and prospective agricultural engineering projects can be safely accommodated with a cover of less than 40 inches, taking into account the recommended practices and

¹The farmland operator can also designate such support land areas not under active cultivation but subject to land management practices such as, but not limited to, drainage and soil erosion control systems.

standards of the United States Department of Agriculture, Soil Conservation Service² contained in its National Handbook of Conservation Practices and its National Engineering Manual. The farmland operator may require a depth-of-cover greater than 40 inches as a condition of permitting a right-of-way across his or her land where necessary to safely accommodate such practices and projects.

3. Each gathering line must be protected from washouts, floods, unstable soil, landslides or other hazards that may cause the pipeline to be exposed, to move, or to sustain abnormal loads.

4. A suitable conductive wire shall be installed with plastic pipe to facilitate locating it with an electronic pipe locator. Other suitable material or means for accomplishing this purpose may be employed.

5. The maximum allowable operating pressure for plastic pipelines is to be in accordance with the following formula:

$$P = \frac{2st \times 0.32}{(D-t)}$$

Where: D = Specified outside diameter, mm (in.).

P = Design pressure, kPa* (psi).

s = For thermoplastic pipe the long-term hydrostatic strength determined in accordance with the referenced specification at a temperature equal to 23 degrees C (73 degrees F), 38 degrees C (100 degrees F), 49 degrees C (120 degrees F), or 60 degrees C (140 degrees F); for reinforced thermosetting plastic pipe, 75,800 kPa (11,000 psi).

t = Specified wall thickness, mm (in.).

* = kPa is the symbol for Kilopascal 1kPa = 0.14504 psi.

²Information about soil types and applicable agricultural engineering standards and practices may be obtained from the U.S. Department of Agriculture, Soil Conservation Service office, located in the county in which the gathering line is to be installed.

6. All deleterious defects, gouges, dents and grooves shall be eliminated prior to testing.

7. The pipeline shall be subjected to a minimum pressure test of 100 psig or 1 1/2 MAOP, whichever is greater, for two hours. However, the maximum test pressure for plastic pipe may not be more than three times the design pressure of the pipe. Where reservoir pressure of the field is less than these pressures, the reservoir pressure may be the test pressure.

8. Test medium shall be air, inert gas or water. Other media acceptable to the Gas Division may be used with prior approval.

9. Regardless of installation date, pipeline markers shall be installed at each crossing of a public road, railroad, navigable waterway, and wherever else that it is necessary to identify the location of the gathering line so as to reduce a material possibility of damage or interference. In areas used for commercial farm purposes in at least two of the last five years, pipeline markers shall be installed at points which adequately identify the location and direction of the pipeline. Such location points shall be determined in consultation with the farmland operator.

The following shall be written legibly on a background of sharply contrasting color on each line marker:

- (i) the wording "Warning," "Caution," or "Danger" followed by the words "Gas Pipeline"; and
- (ii) the name of the operator and the telephone number (including area code) where the operator can be reached at all times.

10. Maps shall be prepared documenting the location of the line and critical valves.

11. The pipelines shall be patrolled a minimum of every two years for washouts and other hazardous conditions, including a check for area population

development change.

12. The line shall be surveyed for leakage at least once every five years.

13. The adequacy of overpressure protection devices shall be verified annually to ensure safe operation of the line.

14. To abandon the gathering system in place, all sources of gas must be disconnected from the system, the system shall be purged with air or an inert gas and the ends sealed.

15. Sufficient documentation shall be maintained which demonstrates that the intent of these regulations has been met.

Any person intending to construct a line in an area used for commercial farm purposes in at least two of the last five years shall, regardless of the proposed operating pressure of the line, complete the information requested in Appendices 7-G and 7-G(a) of this Title and provide one copy each of Appendices 7-G and 7-G(a) to the affected farmland operator and the local county soil and water conservation district at least 48 hours in advance of the start of construction. The person shall retain a copy of the Appendices 7-G and 7-G(a) for review by any interested party in the future.

APPENDIX 7-G
(Part 255)

NOTIFICATION OF CONSTRUCTION
FOR
GAS GATHERING LINES TO BE SUBJECTED TO
PRESSURE OF 125 PSIG OR MORE
OR
FOR GAS GATHERING LINES TO BE LOCATED IN
AN AREA USED FOR COMMERCIAL FARM PURPOSES

COMPANY _____ DATE _____

DESCRIPTION OF PROJECT _____

LOCATION OF PROJECT (file a copy of the map filed with the Article VII application) _____

ESTIMATED STARTING DATE _____

ESTIMATED COMPLETION DATE _____

PERSON TO BE CONTACTED REGARDING PROJECT _____

ADDRESS _____

TELEPHONE NO. _____

MAXIMUM ALLOWABLE OPERATING PRESSURE _____

LOCATION CLASS* _____

PIPE & COATING DESCRIPTION _____

a. NOMINAL DIAMETER _____

b. NOMINAL WALL THICKNESS _____

c. PIPE SPECIFICATION _____

d. GRADE _____

e. COATING TYPE _____

f. METHOD OF APPLICATION _____

g. LONGITUDINAL JOINT TYPE _____

TEST DATA:

a. TEST MEDIUM _____

b. DURATION _____

c. TEST PRESSURE _____

NAMES AND MAILING ADDRESSES OF AFFECTED FARMLAND OPERATORS:

Name Mailing Address

*If the line is to be constructed within 150 feet of an existing structure used for a residence or place of business that portion of the line must be constructed to transmission line standards. Under these circumstances, contact the Albany Office of the Gas Division prior to construction: (518) 474-5453

APPENDIX 7-G

MINIMUM COVER

For each area used for commercial farm purposes complete Appendix 7-G(a), including the statement of the farmland operator and a copy of a map showing each farmland border, nearest public road and the proposed route of the gathering line. Indicate the proposed depth of cover for all segments of the line and respective length of each such segment.

If minimum prescribed cover cannot be maintained, indicate location, nature of problem, and special precautions to be observed.

I hereby certify that this gathering line will be constructed to the requirements of Appendix 14-K of 16 NYCRR Part 255.

(Signed) _____
Officer of corporation

APPENDIX 7-G(a)

MAP OF AN AREA USED FOR COMMERCIAL FARM PURPOSES
AND
REVIEW OF THE PROPOSED DEPTH-OF-COVER BY THE FARMLAND
OPERATOR

(To be completed for each affected farmland area, as denoted under
"Minimum Cover" in Appendix 7-G)

NAME OF FARMLAND OPERATOR FOR THE AFFECTED AREA: _____

LOCATION OF AFFECTED FARMLAND AREA: _____

(Nearest public road, Town, County)

REVIEW INFORMATION

FARMLAND OPERATOR: I am aware that the local Soil Conservation Agent* is available to discuss with me, prior to executing this document, depth-of-pipeline cover compatible with safe practices and standards of the U.S. Department of Agriculture, Soil Conservation Service, contained in the National Handbook of Conservation Practices and its National Engineering Manual. I have reviewed and have a copy of the proposed map (attached hereto) of the line across my farm.

Date

(Signed) Farmland Operator

* USDA, Soil Conservation Service employee or County Soil and Water Conservation District employee.