

Piping Design and Test Requirements

- (2) A "Gas Pipeline Facilities Strength Test Pressure Report" (see Attachment G) is required for each facility being tested to support a MAOP of 100 psig or greater (see Attachment A).
- (3) If the line is to have a MAOP equivalent to 30% of SMYS or greater, a test chart is required (see Item 9, "Test Chart").
- (4) If any portion of a line is tested to over 90% SMYS, a DWT shall be in service continuously during the test in addition to the pressure recording chart. A log of the DWT reading shall be made every 1/2 hour. The pressure recording chart and the DWT log shall be submitted with the "Gas Pipeline Facilities Strength Test Pressure Report." The DWT log shall be considered the official record of the test. In the event that the DWT fails during the test, the pressure recording chart may be accepted as the official test record.
- (5) "Job Estimate," Form 62-6251, shall be marked by the person preparing the estimate to indicate if the pipe must be strength tested.

B. Facilities Designed to Operate at Less Than 100 psig

For facilities designed to operate at less than 100 psig, test information shall be recorded on the "Gas Service Record" form, on the estimate sketch, and on the work order or other authorized form.

C. For systems being uprated, it is required to complete a test chart according to Item 9.

D. All required test records shall be retained by the responsible operating department for the useful life of the facility.

9. Test Chart

A chart record shall be made of the pressure test on all upratings and on pipelines being tested to support a MAOP equivalent to 30% of SMYS or greater. The procedure for handling the chart, and the minimum information required on the chart, are described below:

- A. The chart shall be designed for the recorder on which it is to be used and shall have appropriate scale and time lines.
- B. The recorder should have been calibrated no more than 6 months before the date of the test. The recorder's calibration records shall be checked before conducting the test.
- C. The chart shall be set on the correct time at the start of the test. The actual time, date, and initials of the person starting the test shall be written on the face of the chart at the start of the test.
- D. The chart shall document a minimum of 8 hours of testing (except where a 4-hour test is permitted in Attachment A). Any discrepancies shall be explained.
- E. At the end of the test, the actual time, date, and initials of the person removing the chart shall be written on the face of the chart.
- F. The section of pipe being tested shall be identified on the face of the chart, along with the job number.
- G. The following information shall be recorded on the back of the chart at the time of the test.
 - (1) job number.
 - (2) location of test.
 - (3) test pressure, date, and duration.
 - (4) size, wall thickness, pipe specification, and length of section tested.
 - (5) serial number of the recorder or other means of identification.
 - (6) date the recorder was last calibrated and serial number of the DWT or other reference standard used.
- H. After the test is completed, the supervisor shall review the chart, and then sign and date it to verify that it complies with the requirements of this gas standard.
- I. The original test chart shall be attached to the original of the "Gas Pipeline Facilities Strength Test Pressure Report," Form 62-4921. A copy of the test chart shall be attached to each copy of the "Gas Pipeline Facilities Strength Test Pressure Report." This record shall be retained for the life of the facility.