

# 11-E Maximum Allowable Operating Pressure

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### **1.0 SCOPE**

The *Maximum Allowable Operating Pressure (MAOP)* is the maximum pressure to which a line *may* be operated. This procedure provides the criteria used in establishing and operating within the MAOP for DENC and DESC pipelines.

### **2.0 REGULATORY REFERENCES**

49 CFR Part 192 §§ [192.607](#), [192.619](#).

### **3.0 DETERMINING THE MAXIMUM ALLOWABLE OPERATING PRESSURE [[192.619](#)]**

#### [3.1 Steel and Plastic Pipelines \[192.607\]](#)

#### **3.1 Steel and Plastic Pipelines [[192.607](#)]**

- (a) DENC and DESC *shall* operate each segment of *pipeline* at a pressure that is less than or equal to its established maximum allowable operating pressure (MAOP).
- (b) The MAOP for pipelines installed on or after July 1, 1970 shall not exceed the lowest of the following pressures:
  - 1. The design pressure of the weakest element in the pipeline, or
  - 2. The test pressure divided by a factor of 1.5 or as required by [Chapter 9 - Pressure Test Requirements](#).
- (c) The MAOP for pipelines installed prior to July 1, 1970 shall not exceed the highest actual operating pressure that the pipeline was subjected to between July 1, 1965 and July 1, 1970, unless the pipeline was uprated in accordance with [Chapter 10 - Uprating Maximum Allowable Operating Pressure](#).

- (d) In no case shall a pipeline be operated at a pressure determined to be unsafe. The maximum safe pressure *should* consider and account for material properties considered in [192.607](#), the history of the line. Review of the line history should include but is not limited to the review of corrosion records, *leak* history records and operating pressure charts.
- (e) Over-pressure protection devices shall be installed on each pipeline in a manner that will prevent the MAOP plus allowable build-up from being exceeded. Regulators and reliefs should be sized to the *upstream* main's MAOP. See [Chapter 12-G Pressure Limiting and Regulating Stations](#).

#### 4.0 TRAINING/QUALIFICATIONS

See the appropriate system Operator Qualification Program.

#### 5.0 DOCUMENTATION/FORMS [[192.619](#)]

System specific forms should be used where applicable.

*Engineering* shall determine and maintain the records that verify the MAOP. These records will be retained for the life of the pipeline in accordance with [192.619](#)(f). Such documentation may include:

##### State Specific: South Carolina

- [Determination of System MAOP](#) (PDF file)

#### 6.0 RELATED DOCUMENTS

None at this time.

#### 7.0 APPENDICES

None at this time.

(UNCONTROLLED IF PRINTED)