CHAPTER 7

MESAS FUEL GAS CODE

(4248,4640,5055)

4-7-1: INTERNATIONAL FUEL GAS CODE ADOPTED (4248,4640,5055)
4-7-2: PENALTY CLAUSE (4248,4640)

4-7-1: INTERNATIONAL FUEL GAS CODE ADOPTED: (4248,4640)

That certain document known as the International Fuel Gas Code, which has been published as a
together with the following appendices thereto: (4248,4640)

Appendix A - Sizing and Capacities of Gas Piping (IFGS); (4248)

Appendix B - Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods, Category 1 Appliances,
and Appliances Listed for Use with Type B Vents (IFGS); (4248);

Appendix C - Exit Terminals of Mechanical Draft and Direct-Vent Venting Systems (IFGS); (4248,4640)

are hereby referred to, adopted, and made a part hereof as if fully set forth in this Section, with the following
changes in and amendments to said Code: (4248,4640)

(A) Section 101.1 is amended to read as follows: (4248)

101.1 Title. These regulations shall be known as the "Mesa Fuel Gas Code," may be cited as such, and will be
referred to herein as "this Code." For administration of this Code, refer to Title 4, Chapter 1, Mesa
Administrative Code. (4248)

(B) Section 101.2 is amended to read as follows: (4248)

101.2 Intent. It is the express intent of this Chapter to comply with the State of Arizona regulations governing
the design, construction, installation, quality of materials, location, operation, and maintenance or use of gas
equipment and systems. The standards in the International Fuel Gas Code, with the adopted amendments, are
substantially identical to the State Plumbing Code. To the extent differences exist, as allowed in the State
Plumbing Code between the requirements of this Chapter and State of Arizona plumbing requirements, the
more stringent standard or requirement shall govern. (4248)

(C) Sections 101.2.1 through 109.7 inclusive are deleted in their entirety. (4248)

(D) Section 301.2 Energy Utilization is hereby adopted in its entirety. (4248,5055)

(E) Section 406.4 Test Pressure Measurement is amended to read as follows: (4248,4640)

406.4 Test Pressure Measurement. Test pressure shall be measured with a manometer or with a pressure-
measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during
the pressure test period. The source of pressure shall be isolated before the pressure tests are made. (4248)
406.4.1 Test Pressure. The test pressure to be used shall be no less than ten (10) pounds per square inch (68.9 kPa) gauge pressure, or where approved by the Building Safety Director, the piping and valves may be tested at a pressure of at least six inches (6") (152.4 mm) of mercury, measured with a manometer or slope gauge. For welded piping, and for piping carrying gas at pressures in excess of fourteen inches (14") (0.4 m) water column pressure, the test pressure shall not be less than sixty (60) pounds per square inch (413.4 kPa). Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than fifty percent (50%) of the specified minimum yield strength of the pipe. (4248)

406.4.2 Test Duration. Test duration shall be not less than one-half (1/2) hour for each five hundred (500) cubic feet (14 m³) of pipe volume or fraction thereof. When testing a system having a volume less than ten (10) cubic feet (0.28 m³) or a system in a single-family dwelling, the test duration shall not be less than thirty (30) minutes. The duration of the test shall not be required to exceed twenty-four (24) hours. (4248)

406.4.3 Test Gauges. Tests required by this Code that are performed utilizing dial gauges shall be limited to gauges having the following pressure graduations or incrementations: (4248,4640)

406.4.3.1 Required pressure tests of ten (10) pounds (69 kPa) or less shall be performed with gauges of one-tenth (1/10) pound (0.7 kPa) incrementation or less. (4248)

406.4.3.2 Required pressure tests exceeding ten (10) pounds (69 kPa) but less than one hundred (100) pounds (689 kPa) shall be performed with gauges of one (1) pound (6.9 kPa) incrementation or less. (4248)

406.4.3.3 Required pressure tests exceeding one hundred (100) pounds (689 kPa) shall be performed with gauges incremented for two percent (2%) or less of the required test pressure. (4248)

406.4.3.4 Test gauges shall have a pressure range not greater than twice the test pressure applied. (4248)

(F) Section 406.8 Certificate of Inspection is added at the end of Section 406 Inspection, Testing and Purging to read as follows: (4248,4640)

406.8 Certificate of Inspection. (4248)

406.8.1 If, upon final piping inspection, the installation is found to comply with the provisions of this Code, a certificate of inspection shall be issued by the Building Safety Director. (4248)

406.8.2 A copy of the certificate of such final piping inspection shall be issued to the serving gas supplier supplying gas to the premises. (4248)

406.8.3 It shall be unlawful for any serving gas supplier, or person furnishing gas, to turn on, or cause to be turned on, any fuel gas or any gas meter or meters, until such certificate of final inspection, as herein provided, has been issued. (4248)

(G) Chapter 8 Referenced Standards is amended by replacing IECC-06 with IECC-09. (5055)

4-7-2: PENALTY CLAUSE: (4248,4640)

Any person, firm, or corporation who shall violate any of the provisions of this Chapter of the Mesa City Code as amended shall be subject to all penalties and provisions of Section 4-1-9. (4248,4640)