## NATURAL GAS SYSTEMS INSPECTION, TESTING, AND PURGING

Reference: 2002 Edition National Fuel Gas Code National Fire Protection Association (NFPA 54) Section 7.1

Facili	ityCity		
1.	<b>Test Pressure.</b> 7.1.4  A. Was a pressure test measured with a manometer or with a pressure measuring device designed and calibrated to read, record, or indicate a pressure loss due to leakage during the pressure test? The source of pressure shall be isolated before the pressure tests are made.	□ YES	□ NO
	B. Was the test pressure used no less than 1 ½ times the proposed maximum working pressure, but not less than 3 psi (20kPa), irrespective of design pressure? Where the test pressure exceeds 125 psi (862 kPa), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.		
	C. Test duration shall be not less than $\frac{1}{2}$ hour for each 500 ft <sup>3</sup> (14 m <sup>3</sup> ) of pipe volume or fraction thereof. When testing a system having a volume less than 10 ft <sup>3</sup> (0.28 m <sup>3</sup> ) or a system in a single-family dwelling, the test duration shall be a minimum of 10 minutes. The duration of the test shall not be required to exceed 24 hours.		
2.	Detection of Leaks and Defects. 7.1.5  Did the piping system withstand the test pressure specified without showing any evidence of leakage or other defects? Any reduction of test pressure as indicated by pressure gauges shall be deemed to indicate the presence of a leak unless such reduction can be readily attributed to some other cause. Leakage shall be located by means of an approved gas detector, a noncorrosive leak detection fluid, or other approved leak detection methods. Note: Matches, candles, open flames, or other methods that provide a source of ignition shall not be used.	□ YES	□ NO
3.	<b>System and Equipment Leakage Test.</b> 7.2 A. Test Gases. Was a piping system pressure tested when fuel gas is used for leak checks?	□ YES	□ NO
	B. Before Turning Gas On. Before gas is introduced into a system of new gas piping, was the entire system inspected to determine that there are no open fittings or ends and that all valves at unused outlets are closed and plugged or capped?		
	C. Test for Leakage. Immediately after the gas is turned on into a new system or into a system that has been initially restored after an interruption or service, was the piping system tested for leakage?		
	D. Placing Equipment in Operation. Gas utilization equipment shall not be placed in operation until after the piping system has been tested and purged.		

4.	<b>Purging.</b> 7.3 A. Removal from Service. When the ga addition, a modification, or for service, turned off from the gas supply at the near pressure vented to the outdoors or to vero prevent accumulation of flammable mix over 2 ½ inches in size displaced with a 7.3.1?	was the section to be worked on arest convenient point and the line ntilated areas of sufficient size to ctures? Was remaining gas in piping	□ YES	□ NC
	B. Placing in Operation. Was piping furinert gas prior to placing it in operation with fuel gas provided that a moderately gas is introduced at one end of the line at The fuel gas flow shall be continued with is free of air. The point of discharge shapurging. After purging was the vent cloudiameter see Table 7.3.2.			
	C. Discharge of Purged Gases. The open purged shall not discharge into confined sources of ignition unless precautions as after manner by ventilation of the space, elimination of all hazardous conditions.	I spaces or areas where there are re taken to perform this operation in a control of purging rate, and		
	D. Placing Equipment in Operation. W placed in operation after the piping has			
5.	When was the system tested?	Date		
	Who conducted the testing?			
	Did anyone witness the test?	□ YES □ NO		
		Name		
6.	Name of person completing report?	Please print Phone #		
Sou Off	ase return to: ath Dakota Dept of Health ice of Licensure and Certification	Signature		
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		E-mail Address		