NATURAL GAS SYSTEMS

INSPECTION, TESTING, AND PURGING

Reference: 2012 Edition National Fuel Gas Code National Fire Protection Association (NFPA 54) Section 8

Facilit	ty City	
1.	Test Pressure. 8.1.4 A. Was a pressure test measured with a manometer or with a pressure measure device designed and calibrated to read, record, or indicate a pressure loss due the pressure test? The source of pressure shall be isolated before the pressure	to leakage during
	B. Was the test pressure used no less than 1 ½ times the proposed maximum value but not less than 3 psi (20kPa), irrespective of design pressure? Where the test 125 psi (862 kPa), the test pressure shall not exceed a value that produces a hopiping greater than 50 percent of the specified minimum yield strength of the	t pressure exceeds pop stress in the
	C. Test duration shall be not less than ½ hour for each 500 ft ³ (14 m ³) of pipe thereof. When testing a system having a volume less than 10 ft ³ (0.28 m ³) or a family dwelling, the test duration shall be a minimum of 10 minutes. The dura shall not be required to exceed 24 hours.	a system in a single-
2.	Detection of Leaks and Defects. 8.1.5 Did the piping system withstand the test pressure specified without showing a leakage or other defects? Any reduction of test pressure as indicated by pressure deemed to indicate the presence of a leak unless such reduction can be readily other cause. Leakage shall be located by means of an approved gas detector, a detection fluid, or other approved leak detection methods. Note: Matches, candles, open flames, or other methods that provide a southall not be used.	are gauges shall be attributed to some noncorrosive leak
3.	System and Equipment Leakage Test. 8.2 A. Test Gases. Was a piping system pressure tested when fuel gas is used for	□ YES □ NO leak checks?
	B. Before Turning Gas On. Before gas is introduced into a system of new gas entire system inspected to determine that there are no open fittings or ends an unused outlets are closed and plugged or capped?	
	C. Test for Leakage. Immediately after the gas is turned on into a new system that has been initially restored after an interruption or service, was the piping leakage?	•
	D. Placing Equipment in Operation. Gas utilization equipment shall not be pla	aced in operation

until after the piping system has been tested and purged.

	or for service, was the section to be veconvenient point and the line pressur	☐ YES ☐ NO e gas piping is to be opened for an addition, a modification worked on turned off from the gas supply at the nearest revented to the outdoors or to ventilated areas of sufficing mable mixtures? Was remaining gas in piping over 2 ½ t gas as required by Table 8.3.1?	ent
	placing it in operation? The air can be rapid and continuous flow of fuel gas the other end. The fuel gas flow shall	full of air displaced with fuel gas or inert gas prior to be safely displaced with fuel gas provided that a moderate is is introduced at one end of the line and air is vented out be continued without interruption until the vented gas hall not be left unattended during purging. After purging in diameter see Table 8.3.1.	ut at
	into confined spaces or areas where t	open end of piping systems being purged shall not discharge there are sources of ignition unless precautions are taken ner by ventilation of the space, control of purging rate, a ons.	n to
	D. Placing Equipment in Operation. the piping has been placed in operati	Was all equipment purged and then placed in operation ion?	afteı
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 #	
Please return to: South Dakota Dept of Health Office of Licensure and Certification 600 E Capital Pierre, SD 57501 (605)773-3356 (605)773-6667 Fax		Signature	
		Name of Firm Phone #	
		E-mail Address	