

Take The Test! Does Your Boiler Meet Code?

FAX

PHONE

CONTACT NAME

COMPANY

BOILER DATA

BOILER MFG. NAME: _____ MODEL #: _____ SERIAL #: _____ BTU INPUT: _____

BURNER MFG. NAME: _____ MODEL #: _____ SERIAL #: _____

TODAY'S DATE: _____ CERTIFICATE EXP. DATE: _____

INS. CARRIER: _____

CHECK ONE: Operating Pressure Atmospheric (Natural Draft) Power / Mechanical Draft

Steam Hot Water

ASME SAFETY STANDARD #CSD-1 CONTROLS & SAFETY DEVICES GUIDELINES FOR AUTOMATICALLY GAS FUEL FIRED BOILERS				POWER & MECHANICAL DRAFT BURNERS				ATMOSPHERIC (NATURAL DRAFT) BURNERS				Associated Standard Paragraph	
				Input in Btu/h				Input in Btu/h					
				Less than 400,000 (Including Modular Boilers with maximum inputs of 400,000 per module)	400,000 to 2,500,000	2,500,000 to 5,000,000	5,000,000 to 12,500,000	Less than 400,000 (Including Modular Boilers with maximum inputs of 400,000 per module)	400,000 to 2,500,000	2,500,000 to 5,000,000	5,000,000 to 12,500,000		
INSTALLED	NOT INSTALLED	NOT REQUIRED	SYSTEM CONTROL SPECIFICATIONS										
INTERLOCKS / LIMITS													
			Approved Operating Controllers Steam Boilers (Pressure)	Required ①	Required	Required	Required	Required	Required	Required	Required	Required	CW-120, CW-140 CW-310 (b), CW-620 (b)
			Hot Water Boilers (Temp)	Required ②	Required	Required	Required	Required	Required	Required	Required	Required	CW-120, CW-130 CW-310 (b), CW-620 (b)
			High Limits Steam Boilers (Pressure) (MANUAL RESET)	Required ③	Required	Required	Required	Required	Required	Required	Required	Required	CW-310 (c), CW-620 (a)
			Hot Water Boilers (Temp) (MANUAL RESET)	Required ④	Required	Required	Required	Required	Required	Required	Required	Required	CW-410 (b), CW-640 (a)
			High Gas Pressure (MANUAL RESET)		⑤	Required	Required			Required	Required		CF-162 CW-410 (b), CW-640 (a)
			Low Gas Pressure (MANUAL RESET)		⑤	Required	Required			Required	Required		CF-162, CF-910, CF-410 Tables CF-1, CF-2, CF-4
			Valve Seal Overtravel Interlock (Proof of Closure Switch)		⑥	⑥	⑦			⑥	⑥	⑦	CF-180
			High Fire Switch (Normally located in mod motor)		⑧	⑨	⑨			⑩	⑩	⑩	CF-210 (a) (2) (c), CF-910 Tables CF-1, CF-2, CF-4
			Low Fire Switch (Normally located in mod motor)			Required	Required				Required	Required	CF-610
LOW-WATER FUEL CUTOFFS													
			Low Pressure Steam (MANUAL RESET)	(2) Required ⑪ ⑫ ⑬	(2) Required ⑪	(2) Required ⑪	(2) Required ⑪	(2) Required ⑪ ⑫ ⑬	(2) Required ⑪	(2) Required ⑪	(2) Required ⑪	(2) Required ⑪	CW-120 (a) (b), CF-210 (a) (b), CF-910 (a) (b)
			High Pressure Steam (MANUAL RESET)	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	(2) Required	CF-210 (a), CF-140 (a)
			Hot Water Boilers (MANUAL RESET)	(1) Required ⑭ ⑮	(1) Required	(1) Required	(1) Required	(1) Required ⑭ ⑮	(1) Required	(1) Required	(1) Required	(1) Required	CF-210 (c), CF-130 (a), CF-162, CW-630 (a) (b)
			Forced Circulation (MANUAL RESET)	⑯	⑯	⑯	⑯	⑯	⑯	⑯	⑯	⑯	CF-210 (e), CW-210 (a) (b)
			Supervise Purge Air		Required ⑰	Required ⑱	Required ⑱		⑩	⑩	⑩		CF-210 (a) (b) (c), Tables CF-1, CF-2, CF-4
			Proven Combustion Air	Required	Required	Required	Required						Tables CF-1, CF-2, CF-4
			Action on Loss of Combustion Air	⑰	⑱	Safety Shutdown	Safety Shutdown						Tables CF-1, CF-2, CF-4
PILOT VALVE TRAIN													
			Approved Safety Shutoff Valve(s)	Required	Required	Required	Required	Required	Required	Required	Required	Required	CF-180 (c)
			Manual Shutoff Valve(s)	Required	Required	Required	Required	Required	Required	Required	Required	Required	CF-150 (c)
			Gas Pressure Regulator	Required	Required	Required	Required	Required	Required	Required	Required	Required	CF-110 (a) (1) UL795, 25.15, CF-160, CF-161 (b) Figs B-1, B-2, B-3, B-4
MAIN VALVE TRAIN													
			Approved Safety Shutoff Valve(s)	(1) Required ⑳	(1) or (2) Required ⑳	(1) or (2) Required ㉑	(2) Required ㉑	(1) Required ㉑	(1) or (2) Required ㉑	(1) or (2) Required ㉑	(1) or (2) Required ㉑	(2) Required ㉑	CF-180 (b) (1) (2) (3), ㉑
			Valve Closing Time	5 Sec Max	1 Sec Max	1 Sec Max		5 Sec Max	1 Sec Max	1 Sec Max	1 Sec Max		Tables CF-1, CF-2, CF-4
			Manually Operated Leak Test Valve(s)	(1) or (2) Required ㉒	(1) or (2) Required ㉒	(1) or (2) Required ㉒	(1) or (2) Required ㉒	(1) or (2) Required ㉒	(1) or (2) Required ㉒	(1) or (2) Required ㉒	(1) or (2) Required ㉒	(1) or (2) Required ㉒	CF-150 (d)
			Manual Shutoff Valve(s)	(1) Required	(2) Required	(2) Required	(2) Required	(1) Required	(2) Required	(2) Required	(2) Required	(2) Required	CF-150 (b) (d), ANSI Z21.13: 1.11.4
			Gas Pressure Regulator	Required	Required	Required	Required	Required	Required	Required	Required	Required	CF-150 (b) (d), ANSI Z21.13: 1.15.1 Figs B-1, B-2, B-3, B-4
APPROVED SAFETY CONTROL SPECIFICATIONS													
			Approval Listing Label: ULF/MCSA/AGA	Required	Required	Required	Required	Required	Required	Required	Required	Required	CG-310 and CG-320
			Prepurge Timing	90 Sec ①	②	③	④	⑤	⑥	⑦	⑧	⑨	CF-210 (a) (1) (2) (c), Tables CF-1, CF-2, CF-4
			High Fire Purge Proving Circuit	①	②	③	④	⑤	⑥	⑦	⑧	⑨	CF-210 (a) (1) (2) (c), Tables CF-1, CF-2, CF-4
			Low Fire Start Circuit			Required	Required			Required	Required		CF-610
			Continuous Pilot	Optional	Optional	Not Permitted	Not Permitted	Optional	Optional	Not Permitted	Not Permitted	Not Permitted	Tables CF-1, CF-2, CF-4
			Intermittent Pilot	Optional	Optional	Not Permitted	Not Permitted	Optional	Optional	Optional	Optional	Optional	Tables CF-1, CF-2, CF-4
			Interrupted Pilot	Optional	Optional	Required	Required	Optional	Optional	Optional	Optional	Optional	Tables CF-1, CF-2, CF-4
			Proved Pilot	Required ㉔	Required ㉕	Required ㉖	Required ㉗	Required ㉘	Required ㉙	Required ㉚	Required ㉛	Required ㉜	CF-320 (a) (1)
			Pilot Flame Establishing Period (PFEP) Continuous Pilot	None	15 Sec ㉖	Not Permitted	Not Permitted	None	15 Sec ㉗	10 Sec ㉘	10 Sec ㉙	10 Sec ㉚	Tables CF-1, CF-2, CF-4
			Intermittent Pilot	15 Sec	15 Sec	Not Permitted	Not Permitted	15 Sec	10 Sec	10 Sec	10 Sec	10 Sec	Tables CF-1, CF-2, CF-4
			Interrupted Pilot	15 Sec	15 Sec	10 Sec	10 Sec	15 Sec	10 Sec	10 Sec	10 Sec	10 Sec	Tables CF-1, CF-2, CF-4
			Main Flame Establishing Period (MFEP) Continuous Pilot	None	㉗			None	㉘	㉙	㉚	㉛	Tables CF-1, CF-2, CF-4
			Intermittent Pilot	None	㉗			15 Sec Max	㉘	㉙	㉚	㉛	Tables CF-1, CF-2, CF-4
			Interrupted Pilot	15 Sec Max	15 Sec Max	10 Sec Max ㉘	10 Sec Max ㉙	15 Sec Max	㉚	㉛	㉜	㉝	Tables CF-1, CF-2, CF-4
			Direct Ignition	15 Sec Max	4 Sec Max	4 Sec Max ㉚	4 Sec Max ㉛	15 Sec Max					Tables CF-1, CF-2, CF-4
			Supervise Main Flame	㉜	Required	Required	Required	㉜	㉜	㉝	㉞	㉟	CF-310 (d) (1) (2) (3) (4)
			Flame Failure Response Time (FFRT)	4 Sec Max ㉞	4 Sec Max	4 Sec Max	4 Sec Max	4 Sec Max ㉟	4 Sec Max ㊱	4 Sec Max	4 Sec Max	4 Sec Max	Tables CF-1, CF-2, CF-4
			Action of Flame Failure	Safety Shutdown ㊱	Safety Shutdown ㊲	Safety Shutdown ㊳	Safety Shutdown ㊴	Safety Shutdown ㊵	Safety Shutdown ㊶	Safety Shutdown ㊷	Safety Shutdown ㊸	Safety Shutdown ㊹	Tables CF-1, CF-2, CF-4
			Action on Limit Opening	Safety Shutdown ㊺	Safety Shutdown ㊻	Safety Shutdown ㊼	Safety Shutdown ㊽	Safety Shutdown ㊾	Safety Shutdown ㊿	Safety Shutdown ㋀	Safety Shutdown ㋁	Safety Shutdown ㋂	CF-162 (a), CF220 (a), CW-130 (d), CW-310 (c), CW-410 (c), CF-910



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Do You Have the Right Tool to Trouble Shoot Your System?



S7800A1001

Series 5 Keyboard Display
Module for 7800 SERIES

Can be used with any
RM7800 Controller



RM7800 Controller

S7800A1001 Series 5 Display Module

Display modules are now capable of configuring and displaying special, configurable "Call Service" message, and Communicate 7800 Status on Modbus.

Contains all the standard functions **Plus:**

- A three screen two-row by twenty-column readout set of "Call Service" alpha/numeric directions can be displayed instead of the standard lockout display message. This would give contractors or Distributors the opportunity to input a "business card", requiring a call for service. (Pass Code protected feature).
- This "business card" can be cloned to other displays to save setup time
- Programmable to communicate in ModBus.

Honeywell



Mercury Free Boiler Control Alternative Products

Make the Switch

More and More States are Banning Products Containing Mercury

Across the nation, states are passing legislation affecting the use and sale of products containing mercury. The majority of these laws focus on thermometers, thermostats, button cell batteries, high intensity discharge lamps and automotive switches. They also will apply to boiler controls with mercury switches.

Seven States Have Current Legislation Banning the Sale or Distribution of Mercury Products:

Connecticut, Rhode Island, California, Maine, Vermont, Illinois and New York

Regulatory Compliance:

At the end of the usable life of Series 150 and 42 products, or prior to major boiler replacement, or building demolition, the mercury switches in these products must be removed and recycled in accordance with Local, State and Federal Regulations so that mercury does not find its way into the environment.

If not removed, the entire product must be managed as a mercury-containing solid waste. Do not put in the trash. For a list of mercury recyclers, refer to the following internet sites:

www.des.state.nh.us/nhppp/options.htm
www.nema.org/lamprecycle

With an increasing number of states enacting mercury reduction laws, please refer to individual state statutes or contact the states' Departments of Environmental Protection to determine specific requirements.



ITT Industries

Series 150S

With Snap-Action Switches

- Primary and secondary low water cut-off protection and pump control for commercial and industrial steam boilers
- Best used for boiler applications with stable water levels, high fresh water makeup, or inconsistent boiler water chemical treatment
- Snap-action switches
- Maximum pressure 150 psi (10.5 kg/cm²)



Mercury Free

Model	Part #
150S	171702
150S-M	172702
150S-HD	173003
150S-M-HD	173203
157S	173502



ITT Industries

Series 150E

Electronic Conductance Probe Type

- Primary and secondary low water cut-off protection and pump control for commercial and industrial steam boilers
- Best used for applications with rapidly shifting water levels
- Ideal for vertical tubeless, water tube, process and smaller fire tube boilers
- Conductance probe level detection
- Maintains differentials throughout pressure range
- Internal diagnostics to monitor operation
- Field adjustable burner-off time delay that prevents nuisance shutdowns by compensating for shifting water lines
- CSD-1 compliant
- Maximum pressure – 150 psi (10.5 kg/cm²)
- Water column version (model 157E)



Mercury Free

Model	Part #
150E	171600
150E-M	171610
150E-HD	171640
150E-M-HD	171650
157E	171620



**INTERSTATE
HVAC CONTROLS**



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Bacharach's Institute of Technical Training Seminars

Carbon Monoxide (Co) Analysis, Combustion
Testing And Environmental Monitoring

Topics covered in each four-hour seminar

Carbon Monoxide Safety - includes all currently recommended standards for carbon monoxide in ambient air and in flue gas. Also includes:

- CO alarm standards for all three UL 2034
- CO alarm revisions (since April, 1992)
- Health effects of CO
- Reporting and referring CO atmospheres
- Working with authorities of jurisdiction
- Measuring CO and source investigations
- Saving lives and enhancing service
- Using reporting forms, checklists and other vital documentation
- Educating ourselves and the people we serve

Combustion Analysis - includes diagnosis of flue gases from basic theory to manufacturers' suggested measurements. Also includes:

- Controlling fuel
- Flame temperature and dew point
- Excess air
- NOx emissions and standards of compliance
- Draft, condensation and safety
- Controlling draft
- Combustion testing procedures
- Ensuring safety without jeopardizing efficiency
- Troubleshooting combustion problems
- Customer savings, company profits

Venting and Combustion - includes vent identification and compliance specifications.

- Introduction to sizing Category I, II, III, and IV vent systems.
- Emphasizing Category I Draft and dew point, ensuring code sized systems work as intended
- Vent Tables 1, 2, 3, & 4
- Manufacturers specifications



PCA[®] 2

Affordable, State of the Art
Combustion Analyzer

SMART SENSORS

- Field replaceable
- Pre calibrated
- Easy access
- Quick and accurate response
- Measures Up To 6 Gases
- O₂, CO, CO (High), NO, NO₂, SO₂

Automatic CO Overrange Protection

The PCA[®] 2 is the perfect tool for service technicians and boiler contractors who need to ensure safe operating conditions, determine combustion efficiency or perform emissions testing in combustion applications.



325

Flue gas analyser, incl.
flue gas probe; 180mm long,
case, batteries and calibration

the complete set with flue gas probe and case, measures CO level to 2000 ppm, draught, gas flow pressure and temperature.

330

Flue gas analyser incl.
rechargeable battery
and calibration protocol



The NEW Testo 330-2 combines advanced sensor design, unique gas-path technology and proven electronics for the new age of combustion analysis... all in the palm of your hand!

NEW Solid State Flame Detectors By Honeywell!



C7961E/F

Honeywell

Ultraviolet Flame Detector

C7961E/F Dynamic Self-Check Ultraviolet Flame Detector

Dynamic Self-checking Flame Detectors For Sensing The Ultraviolet Radiation Generated By The Combustion Of Gas, Oil, Or Other Fuels.

The C7012E/F and C7061A/F dynamic self-check ultraviolet flame detectors are widely used for ultraviolet flame detection for gas, oil, or other fuels. New technology has made it possible for Honeywell to develop a dynamic self-check ultraviolet flame detector using solid state technology.

The C7961E/F Dynamic Self-Check Ultraviolet Flame Detector has been developed for use with the R7851C1008 Dynamic Self-Check Amplifier.

PRODUCT DESCRIPTION

The C7961E/F Dynamic Self-Check Ultraviolet Flame Detector and the R7851C Dynamic Self-Check Amplifier are used for sensing the ultraviolet radiation emitted by the combustion of gas, oil and other fuels. **The C7961E/F is a functional replacement for the C7012 and C7061 Dynamic**

Self-Check Ultraviolet Flame Detectors. The C7961E/F Dynamic Self-Check Flame Detector and the R7851C Dynamic Self-Check Amplifier are designed to operate as a system with the 7800 SERIES Controls.

Some of the benefits over other UV Flame Detection Systems include:

- The C7961 sense steady radiation in the 220 to 400 nm spectrum. It rejects hot refractory up to 1800 degrees F.
- Does not respond to x-raying if process requires routine x-ray testing of piping.
- UV solid state technology with a shutter meeting code criteria
- Can work with some hard to sight fuels where the C7012 or C7061 has problems. UV sensitivity range closer to the visible light spectrum.



C7927

Honeywell

Solid State Ultraviolet Flame Detector

The Solid State Ultraviolet Optical Flame Detectors detect the ultraviolet radiation emitted by combustion flames. The flame detectors are used with Honeywell flame safeguard controls to provide flame supervision for gas, oil, or combination gas-oil burners.

Features:

- Properly installed the flame detectors are pressure rated for 5 psi.
- Flame detector is used with only the R7851B Flame Amplifier and the 7800 SERIES controls.
- Has an integral collar threaded (internal 1/2-14 NPSM) for mounting on a one-half inch sight pipe.

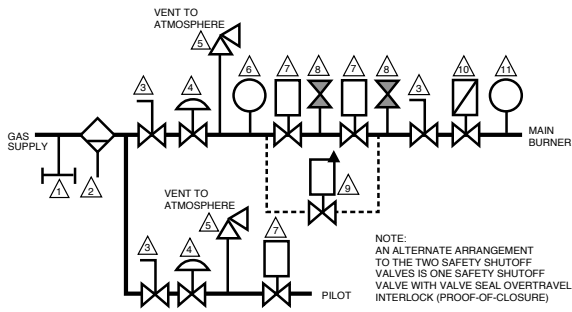


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Footnotes

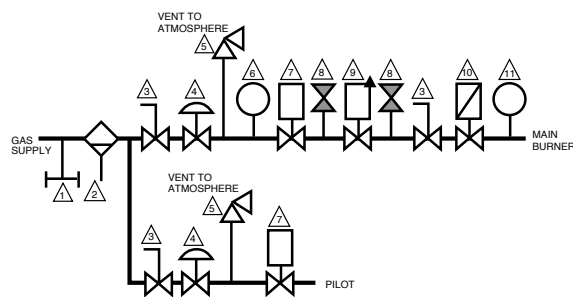
- 1 For modular boilers, each module shall have a pressure control that will shut off the fuel supply when the steam pressure reaches a preset operating pressure.
- 2 For modular boilers, each module shall have at least one temperature actuated control to shut off the fuel supply when the system water reaches a preset operating temperature.
- 3 The assembled modular boiler shall have a high steam pressure limit control that will prevent the generation of steam pressure in excess of the maximum allowable working pressure.
- 4 The assembled modular hot water boiler shall have a high temperature limit control that will prevent the water temperature from exceeding the maximum allowable temperature.
- 5 Required for direct ignition systems. Not required for ignition systems with pilots.
- 6 Optional one safety shutoff valve with valve seal overtravel (proof-of-closure) interlock.
- 7 One of the two safety shutoff valves with valve seal overtravel (proof-of-closure) interlock.
- 8 Four air changes in 90 seconds or four air changes at 60% damper opening with both air flow and damper position proven.
- 9 Four air changes at 60% damper opening with both air flow and damper position proven.
- 10 Units equipped with automatically operated air shutters or dampers which are closed or positioned to restrict air when burner is not firing, shall provide means to open the air shutter or damper to the high fire position for at least 90 seconds prior to light off.
- 11 One of the two low-water fuel cutoffs may be a combined feeder/cutoff device.
- 12 For low pressure steam units with inputs of 400,000 Btu/h or less, only one low-water fuel cutoff is required in gravity return units installed in residences as defined by the authority having jurisdiction.
- 13 For modular low pressure steam boilers, each module shall be equipped with an automatic low-water fuel cutoff. The assembled modular boiler shall have a second low-water fuel cutoff. Operation of this low-water fuel cutoff shall shut off the fuel supply to all modules.
- 14 Except those installed in residences (as defined by the authority having jurisdiction).
- 15 An assembled modular boiler shall be protected by a low-water fuel cutoff located so that it will detect a low-water condition before the level falls below the lowest safe waterline in any module. Operation of the low-water fuel cutoff shall shut off the fuel to all modules.
- 16 In lieu of the requirements for low-water fuel cutoffs in a water tube or coil-type boiler requiring forced circulation, they shall have an accepted sensing device to prevent burner operation at a flow rate inadequate to protect the boiler from overheating. Where there is a definitive waterline, a low-water fuel cutoff shall be provided in addition to the sensing device. Functioning of the low-water fuel cutoff shall cause safety shutdown.
- 17 Close main valve and recycle.
- 18 Safety shutdown and lockout or recycle once only for ignition systems with pilots.
- 19 Two safety shutoff valves in series. May be in single control body.
- 20 Two safety shutoff valves in series or one safety shutoff valve with valve seal overtravel (proof-of-closure) interlock.
- 21 One safety shutoff valve to incorporate valve seal overtravel (proof-of-closure) interlock.
- 22 When two safety shutoff valves are provided in the fuel train, an additional leak test valve is required so that each safety shutoff valve may be tested independently of the other.
- 23 Gas pressure relief valves, where required, shall be located upstream of all operating and safety controls and downstream of the gas pressure regulator in both the main and pilot gas supply system. The relief valve line is to be directed to the atmosphere.
- 24 Water level control alarms, when used, shall be distinctly audible above the ambient noise level and may be used in conjunction with indicating lights.
- 25 When pilot is used.
- 26 Initial start only.
- 27 Pilot only: 15 seconds maximum if interrupted pilot used.
- 28 Pilot only: 15 seconds maximum if interrupted pilot used, 25 to 30 seconds if safety shutoff valve has full opening.
- 29 Pilot only: 10 seconds maximum for modulating or high-low firing.
- 30 Pilot only: 10 seconds maximum.
- 31 Interrupted pilot only.
- 32 Maximum input at light off shall not exceed 2,500,000 Btu/h.
- 33 Required with modulating or high-low firing.
- 34 Required if interrupted pilot.
- 35 If the ignition system includes a relight feature, the relight attempt shall be initiated with: 0.8 second upon loss of flame.
- 36 For power, and mechanical draft, burners and natural draft burners with inputs less than 400,000 Btu/h and a continuous pilot, 180 seconds maximum for pilot flame failure.
- 37 If system has intermittent pilot, wait 5 minutes before resetting ignition system (instructional requirements).
- 38 If system has interrupted pilot or direct ignition and the ignition includes a relight feature, the relight attempt shall be initiated within 0.8 second of loss of flame.
- 39 A single recycle is allowed only for systems with pilots.
- 40 Or, recycle once after 5 minuted time delay.

Call Interstate HVAC Controls For Information About Code Compliance. 617-782-9000



- | | |
|---------------------------------------|--|
| △ DRIP LEG | △ SAFETY SHUTOFF VALVE |
| △ GAS STRAINER (IF REQUIRED) | △ LEAKAGE TEST VALVE |
| △ MANUAL SHUTOFF VALVE | △ SAFETY SHUTOFF VALVE WITH VALVE SEAL OVERTRAVEL INTERLOCK (PROOF-OF-CLOSURE) |
| △ PRESSURE REGULATOR | △ OPTIONAL MODULATING VALVE |
| △ PRESSURE RELIEF VALVE (IF REQUIRED) | △ HIGH GAS PRESSURE SWITCH |
| △ LOW GAS PRESSURE SWITCH | |

Figure 4



- | | |
|---------------------------------------|--|
| △ DRIP LEG | △ SAFETY SHUTOFF VALVE |
| △ GAS STRAINER (IF REQUIRED) | △ LEAKAGE TEST VALVE |
| △ MANUAL SHUTOFF VALVE | △ SAFETY SHUTOFF VALVE WITH VALVE SEAL OVERTRAVEL INTERLOCK (PROOF-OF-CLOSURE) |
| △ PRESSURE REGULATOR | △ OPTIONAL MODULATING VALVE |
| △ PRESSURE RELIEF VALVE (IF REQUIRED) | △ HIGH GAS PRESSURE SWITCH |
| △ LOW GAS PRESSURE SWITCH | |

Figure 5

Comments: _____

ASME CSD-1: Fuel Trains

Figure 4
400,000-5,000,000 BTU/HR

Figure 5
5,000,000-12,500,000 BTU/HR

Survey Company Name: _____

Technician Signature: _____

Customer Signature: _____

Date: _____

Tear Here