

# Indiana WX Gas Boiler Inspection Guide

Client: \_\_\_\_\_ Job #: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

**Client Interview:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Comments / Billing Information:**  Standard Inspection / Clean and Tune

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Follow-Up:**  Emergency / Boiler Replacement

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Fuel Type:**  Natural Gas  L.P. Gas **Boiler Type:**  Gravity or  Pump

**Water Heater:**  Boiler  Gas  Electric **Boiler Type:**  Draft Hood Equipped  High Efficiency

**Number of Zones and Location of Thermostats:** \_\_\_\_\_

\_\_\_\_\_

**BTUH Input Ratings: Boiler:** \_\_\_\_\_ **W.H.:** \_\_\_\_\_ **Other (describe):** \_\_\_\_\_

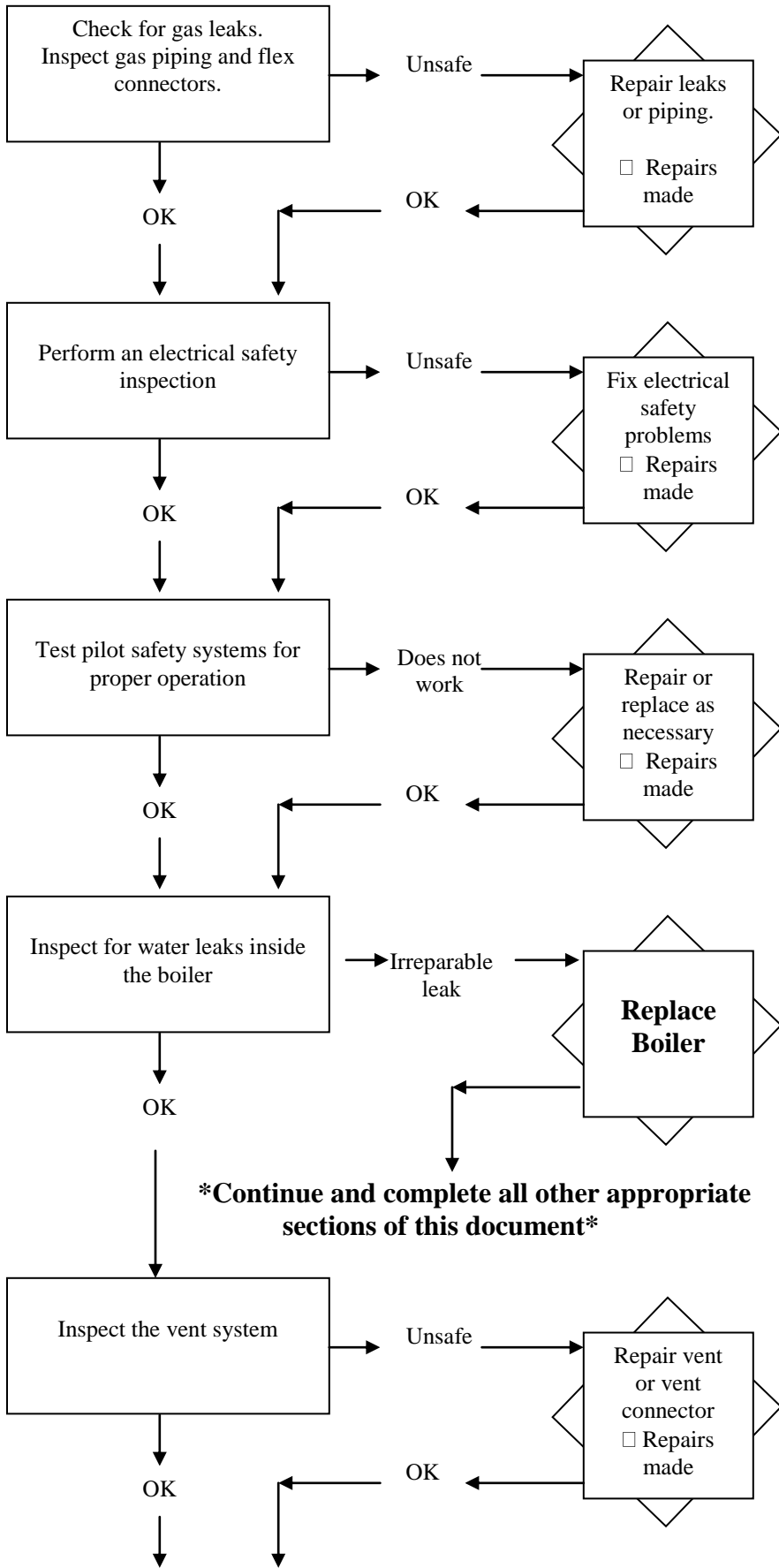
**Define the CAZ (s):** \_\_\_\_\_

**Describe Venting System (s):** \_\_\_\_\_

\_\_\_\_\_

**Is this the final inspection of a new boiler installation?**  Yes  No

**\* Please draw a sketch on the reverse side of the last page as necessary for any descriptions \***



**Technician**

Gas System:  
 OK

Operational shut-off switch?  
 Yes

Electrical polarity correct?  
 yes

Appliance grounded?  
 yes

Pilot safety systems operational?  
 Yes  N/A

L.P. system 100% shut-off?  
 Yes

Hole in a boiler section?  
 Yes

**Replace Boiler**

Vent system:  
 OK

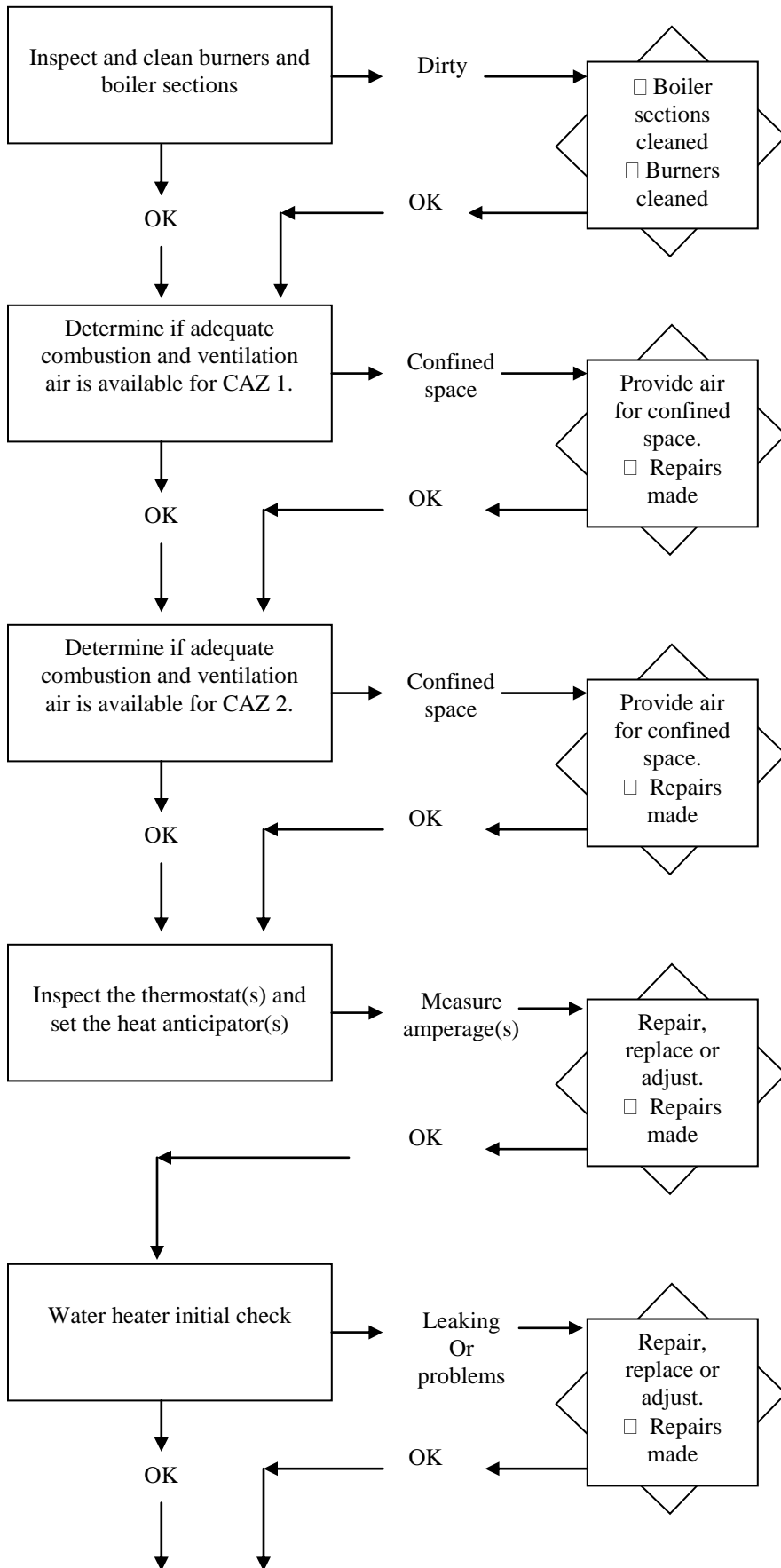
**Inspector**

Gas System:  
 OK

Electrical system:  
 OK

Pilot safety systems:  
 OK

Vent system:  
 OK



**Technician**

Burners and boiler sections:  
 OK

Total BTUH in CAZ 1 \_\_\_\_\_ BTUH

Volume of air needed:  
\_\_\_\_\_ Cu.Ft.  
(Total BTUH divided by 20)

Volume available:  
\_\_\_\_\_ Cu.Ft.  
(L x W x H)

**Document methods for providing air, if needed, in the "Comments" section, including pipe and grille sizes.**

Total BTUH in CAZ 2 \_\_\_\_\_ BTUH

Volume of air needed: \_\_\_\_\_ Cu.Ft.

Volume available: \_\_\_\_\_ Cu.Ft.

Combustion air work done by others.

Measured amperage at the thermostat(s): \_\_\_\_/\_\_\_\_/\_\_\_\_ Amps

Heat anticipator reset?  
 Yes  No  
 N/A

Properly installed temperature and pressure relief valve?  
 Yes

Water temperature: \_\_\_\_\_ Deg. F.

Adjusted?  
 Yes  No

**Inspector**

Burners and boiler sections:  
 OK

Proper amount of combustion and ventilation air provided for CAZ 1?  
 Yes

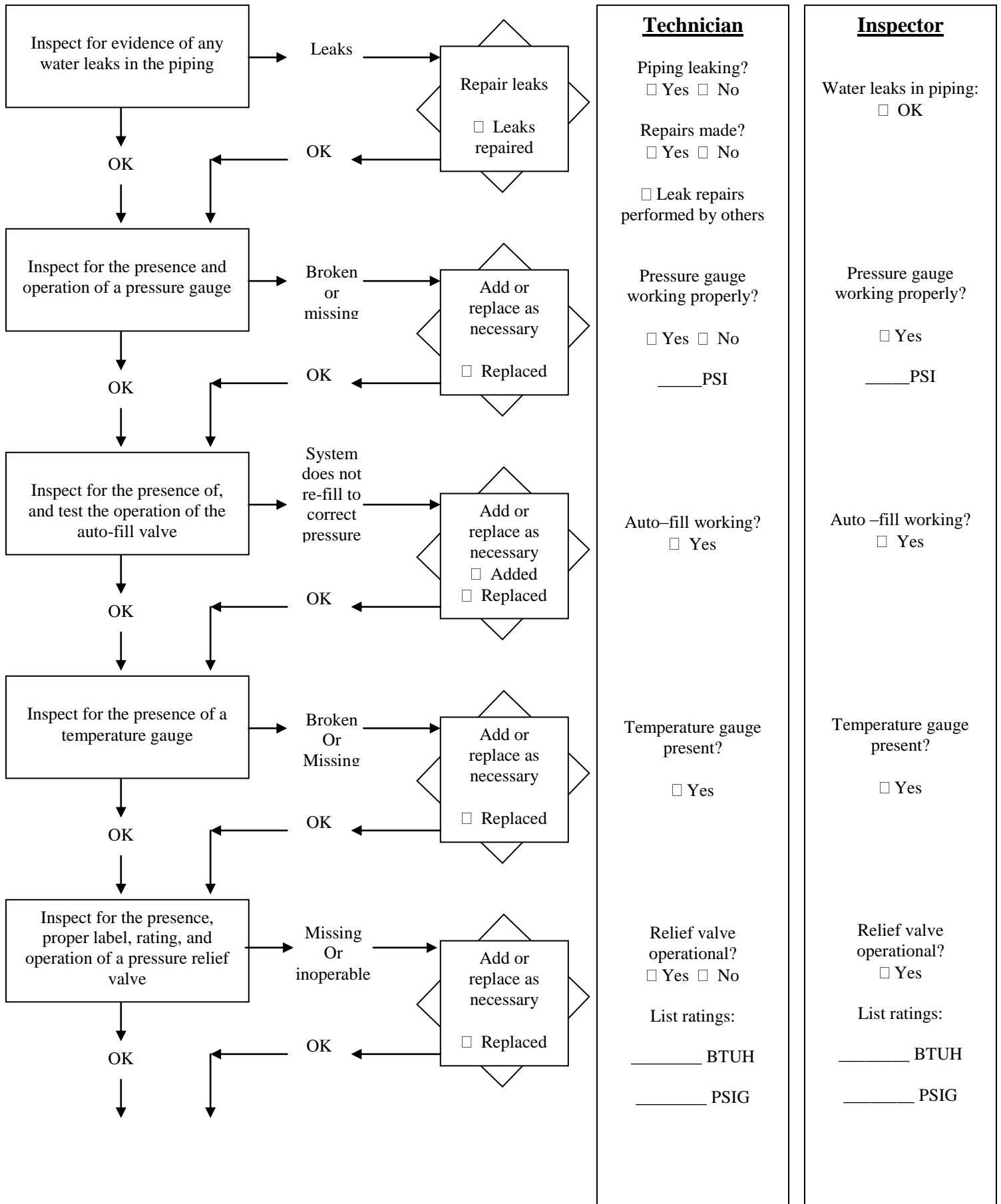
Proper amount of combustion and ventilation air provided for CAZ 2?  
 Yes

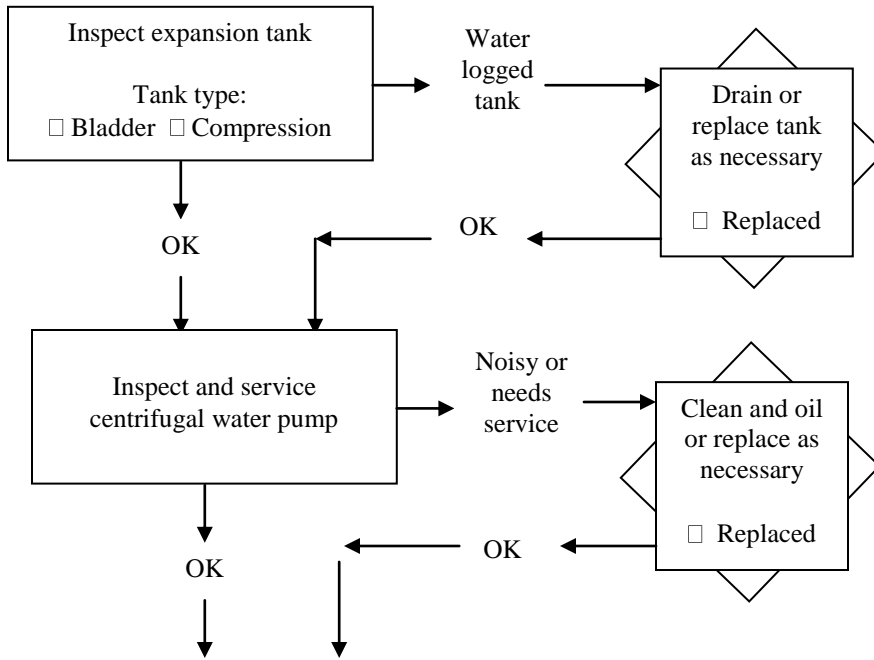
Heat anticipator setting:  
\_\_\_\_/\_\_\_\_/\_\_\_\_ Amps  
 N/A

Properly installed temperature and pressure relief valve?  
 Yes

Water temperature: \_\_\_\_\_ Deg. F.

Adjusted?  
 Yes  No





**\* Perform a “Worst Case Depressurization” test of the CAZ \***

<u>Set-Up</u>	<u>Technician</u>	<u>Inspector</u>
Boiler and water heater off?	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
All exterior windows and doors closed?	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Fireplace or wood stove dampers closed?	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Clothes dryer and all exhaust fans operating? (Do not operate whole house exhaust fans)	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Doors to rooms with no exhaust fans closed?	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Blower door being used to simulate 300 CFM fireplace flow?	<input type="checkbox"/> N/A <input type="checkbox"/> Yes	<input type="checkbox"/> Yes

<u>“Worst Case” CAZ Depressurization Test</u>	<u>Technician</u>
Is there a door from the interior to the CAZ?	<input type="checkbox"/> Yes <input type="checkbox"/> No
CAZ pressure WRT outside / CAZ door to interior open.	_____ Pa
CAZ pressure WRT outside / CAZ door to interior closed.	_____ Pa

Set up the CAZ under “Worst Case” depressurization conditions before testing the combustion appliances.

<u>Technician</u>
Expansion tank operational: <input type="checkbox"/> Yes
Pump serviced and functional: <input type="checkbox"/> Yes
“Worst Case” set-up complete? <input type="checkbox"/> Yes
“Worst Case” depressurization measurement of the CAZ: _____ Pa

<u>Inspector</u>			
Expansion tank operational: <input type="checkbox"/> Yes			
Pump serviced and functional: <input type="checkbox"/> Yes			
“Worst Case” set-up complete? <input type="checkbox"/> Yes			
<table border="1"> <thead> <tr> <th><u>Inspector</u></th> </tr> </thead> <tbody> <tr> <td>_____ Pa</td> </tr> <tr> <td>_____ Pa</td> </tr> </tbody> </table>	<u>Inspector</u>	_____ Pa	_____ Pa
<u>Inspector</u>			
_____ Pa			
_____ Pa			
Final “Worst Case” depressurization measurement of the CAZ: _____ Pa			

**Note:** Initial combustion safety testing must be completed. If it is found that the appliances will not work under “Worst Case” conditions, then continue testing and repair under “normal operating conditions” and document in the “Follow-up” section of this guide.

Perform Safety testing on the gas appliances in the appropriate order.

**Important:** Test the lowest BTUH appliance in the CAZ first

**Water Heater “5 Minute” Test Procedure**

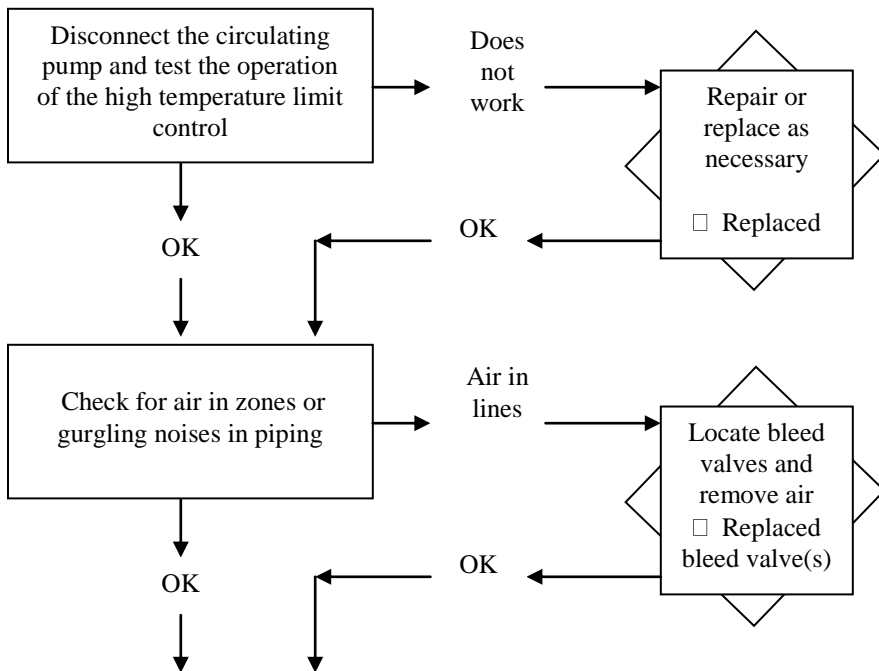
**Technician Initial Test**

Fire the water heater.  
 Was initial flow established in the vent?  Yes  No  
 Was there spillage after two minutes?  Yes  No  
 Draft pressure after five minutes: \_\_\_\_\_ Pa or \_\_\_\_\_ “ W.C.  
 Carbon monoxide after five minutes: \_\_\_\_\_ / \_\_\_\_\_ PPM  
 N/A  Repairs made

**Heating Appliance “5 Minute” Test Procedure**

**Technician Initial Test**

Fire the heating appliance.  
 Was initial flow established in the vent?  Yes  No  
 Was there spillage after two minutes?  Yes  No  
 Did operation of the heating appliance cause spillage or a reduction in draft at any other appliance in the CAZ?  N/A  Yes  No  
 Water temperature gauge operational?  Yes  No  Replaced  
 Draft pressure after five minutes: \_\_\_\_\_ Pa or \_\_\_\_\_ “ W.C.  
 Carbon monoxide after five minutes: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ PPM  
 Flame roll-out/incorrectly cleaned  Repairs made



**Technician**

Not tested under “Worst Case” conditions

Outdoor air temp: \_\_\_\_\_ Deg. F.

**Water heater:** Able to establish flow in vent?

Yes

Spillage?

No

Draft pressure: \_\_\_\_\_ Pa / \_\_\_\_\_ “ W.C.

Carbon monoxide: \_\_\_\_\_ / \_\_\_\_\_ PPM

**Heating appliance:** Able to establish flow in vent?

Yes

Spillage?

No

Temperature gauge operational?

Yes

Draft pressure: \_\_\_\_\_ Pa / \_\_\_\_\_ “ W.C.

Carbon monoxide: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ PPM

Limit control operational?

Yes

Piping free of trapped air?

Yes

**Inspector**

Not tested under “Worst Case” conditions

Outdoor air temp: \_\_\_\_\_ Deg. F.

**Water heater:** Able to establish flow in vent?

Yes

Spillage?

No

Draft pressure: \_\_\_\_\_ Pa / \_\_\_\_\_ “ W.C.

Carbon monoxide: \_\_\_\_\_ / \_\_\_\_\_ PPM

**Heating appliance:** Able to establish flow in vent?

Yes

Spillage?

No

Temperature gauge operational?

Yes

Draft pressure: \_\_\_\_\_ Pa / \_\_\_\_\_ “ W.C.

Carbon monoxide: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ PPM

Limit control operational?

Yes

Piping free of trapped air?

Yes







