

## 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):** \_\_\_\_\_

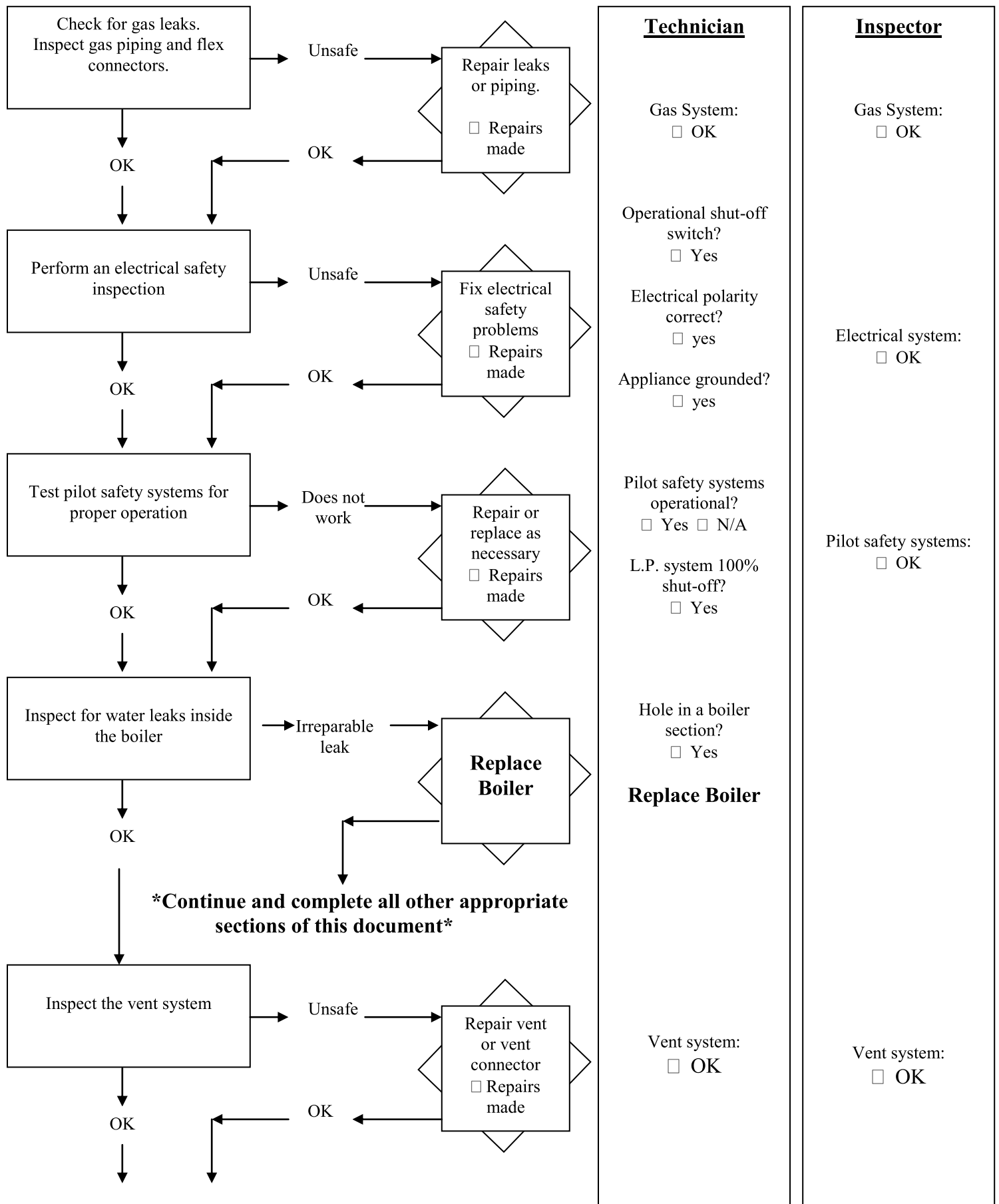
**Define the CAZ (s):** \_\_\_\_\_

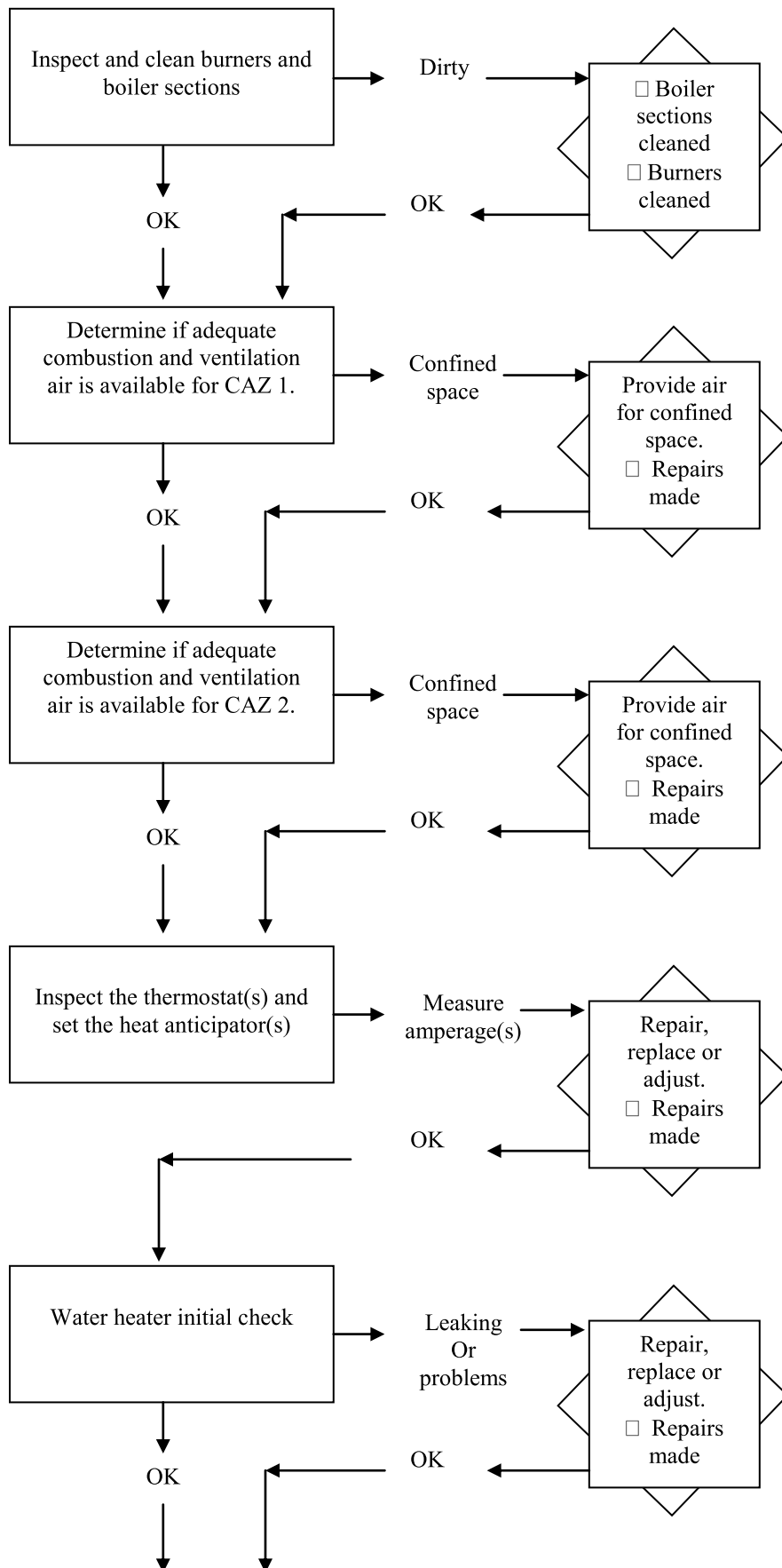
**Describe Venting System (s):** \_\_\_\_\_

\_\_\_\_\_

**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

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

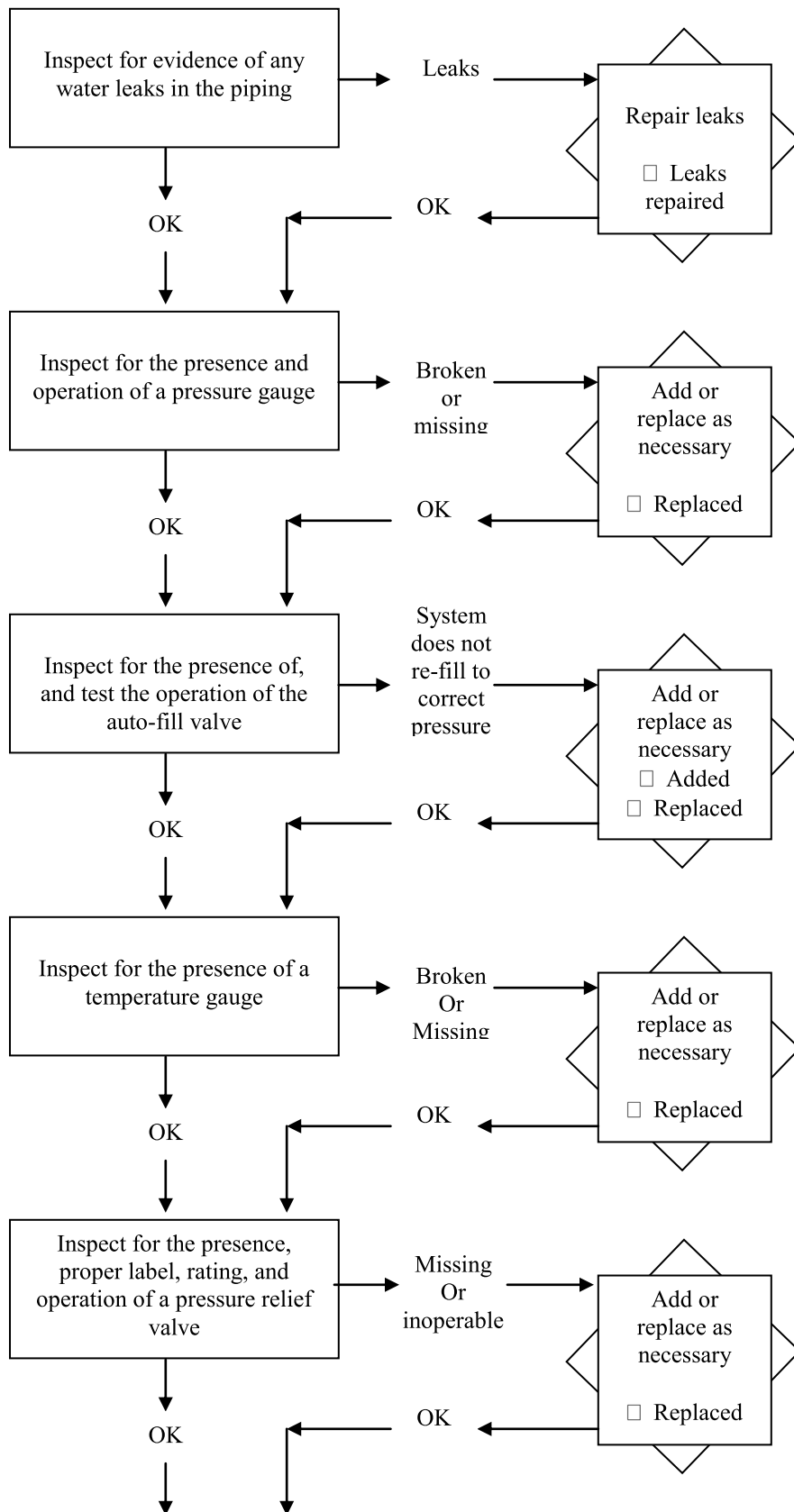
Proper amount of combustion and ventilation air provided for CAZ 2?  
☐ Yes

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

Properly installed temperature and pressure relief valve?  
☐ Yes

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

Adjusted?  
☐ Yes ☐ No



### Technician

Piping leaking?

☐ Yes ☐ No

Repairs made?

☐ Yes ☐ No

☐ Leak repairs performed by others

Pressure gauge working properly?

☐ Yes ☐ No

\_\_\_\_ PSI

Auto-fill working?

☐ Yes

Temperature gauge present?

☐ Yes

Relief valve operational?

☐ Yes ☐ No

List ratings:

\_\_\_\_ BTUH

\_\_\_\_ PSIG

### Inspector

Water leaks in piping:

☐ OK

Pressure gauge working properly?

☐ Yes

\_\_\_\_ PSI

Auto-fill working?

☐ Yes

Temperature gauge present?

☐ Yes

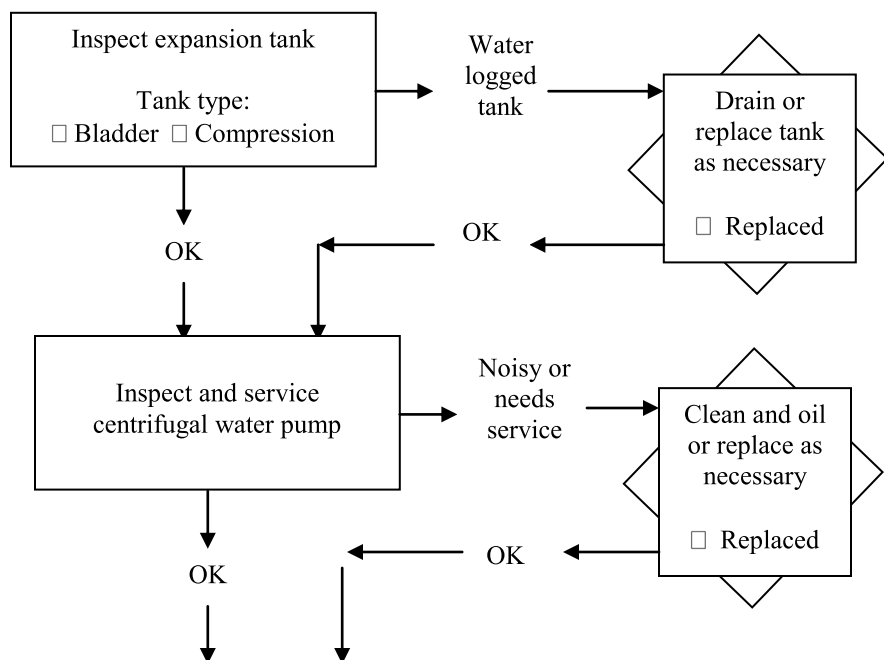
Relief valve operational?

☐ Yes

List ratings:

\_\_\_\_ BTUH

\_\_\_\_ PSIG



**\* 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?<br>(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<br>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.

### Technician

Expansion tank operational:  
☐ Yes

Pump serviced and functional:  
☐ Yes

“Worst Case” set-up complete?  
☐ Yes

“Worst Case” depressurization measurement of the CAZ:  
\_\_\_\_\_ Pa

### Inspector

Expansion tank operational:  
☐ Yes

Pump serviced and functional:  
☐ Yes

“Worst Case” set-up complete?  
☐ Yes

### Inspector

\_\_\_\_\_ 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:

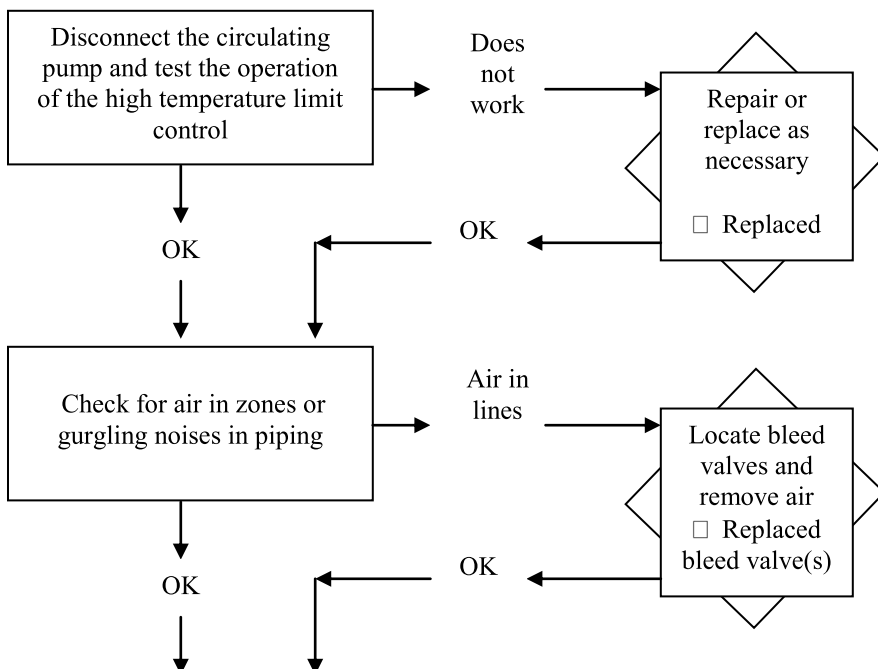
\_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ PPM

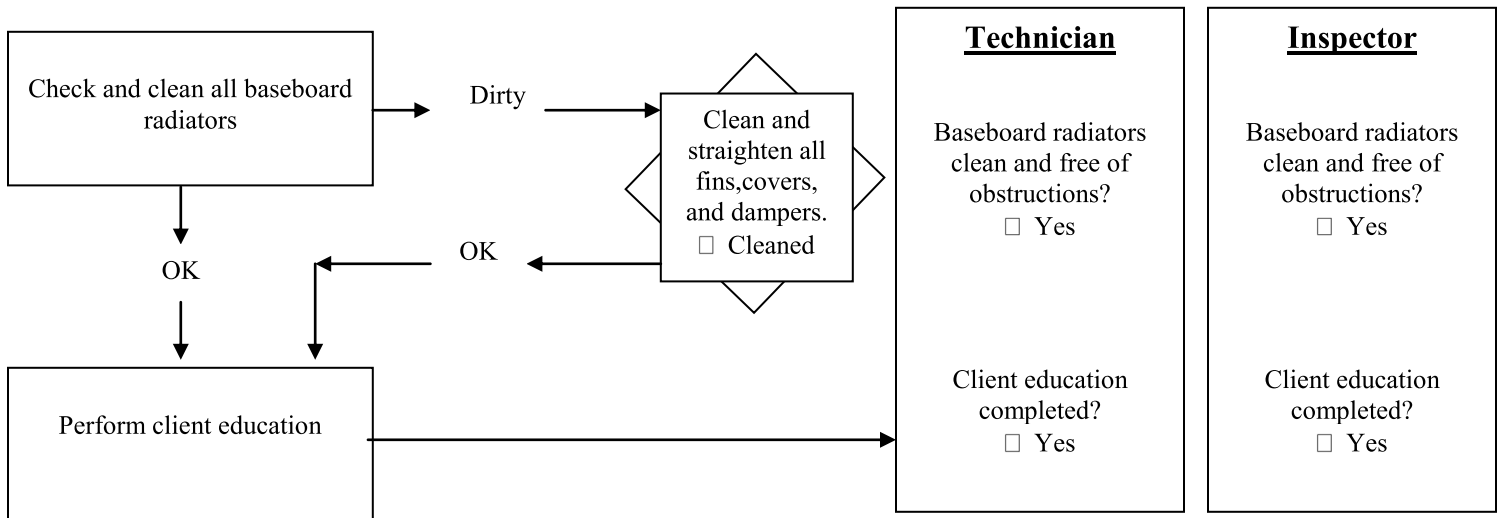
Limit control operational?

☐ Yes

Piping free of trapped air?

☐ Yes





**Optional:** Clocking the gas meter

Dial used: \_\_\_\_\_ Ft.                      Seconds for four revolutions: \_\_\_\_\_ Seconds  
 Average seconds for one revolution: \_\_\_\_\_ Seconds      Cubic feet per hour (from chart): \_\_\_\_\_ Cubic Ft.  
 Cubic feet per hour X \_\_\_\_\_ (local BTUH content/cubic foot) = \_\_\_\_\_ BTUH measured input rate  
 Nameplate input: \_\_\_\_\_ BTUH

Technician: \_\_\_\_\_ Date: \_\_\_\_\_

Final Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

Agency reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

Additional comments: \_\_\_\_\_  
 \_\_\_\_\_  
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Revision date: 4/14/03



