

#### **Overview: Combustion Appliance** Safety Testing Requirements

### GoGreen Home Energy Financing Program

Administered by the State of California

Supported by California's Investor-Owned Utilities (IOUs)

# **Combustion Appliance Safety Testing**

Depending on several conditions, combustion appliance safety tests may be required for your project.

Combustion safety tests verify that atmospherically vented combustible appliances are working properly and not venting dangerous gases, such as carbon monoxide, in the living space.

There are two common standard combustion appliance safety tests:

- Combustion Appliance Zone (CAZ)/Combustion Appliance Safety (CAS) Tests
- Natural Gas Appliance Test (NGAT)

Note: Home Energy Rating System (HERS) testing does NOT count as a safety test!



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## Safety Testing Triggers and Tester Requirements

The following two project conditions trigger combustion safety tests:

• The project includes whole building air sealing, duct sealing, AND/OR duct sizing/optimization EEMs

AND

• An atmospherically-vented combustion appliance is present within the sealed building envelope

A safety test must be performed by someone who meets one of the following qualifications:

- 1. Approved to participate in an IOU, REN, or CCA whole house retrofit program
- 2. Certified by the Building Performance Institute (BPI)
  - Find a list of BPI certified contractors in your area or become BPI certified yourself.
- 3. Certified and proficient in accepted standards for combustion safety and ventilation testing, such as Natural Gas Appliance Testing (NGAT)

Test results are required as a part of project Quality Assurance reviews. You may use your own form or GoGreen Home's <u>Combustion</u> Appliance Safety Test Form.

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		сом	BUSTIO	N APPLI	ANCE	SAFET	Y TEST	FORM					
ection 1: Projec	ct Information												
a) Customer Name:													
b) Customer Address:						(c) City:			(d	(d) Zip:			
e) GoGreen Home Contractor Name:						(f) Contractor Phone:							
<ol> <li>Are there any <u>a</u></li> <li>Are carbon me</li> </ol>	bustion Appliance Sat unvented combustion onoxide alarms installe	heating appliant ed in the home?	ces? 🔲 1	Yes 🔲 No	4a. If	f Bad, identi	fy the applian	iood (blue a	PRE-TEST and defined) o	or 🔲 Bad (ye			
	ustion appliance vention	-	a code? 🔲 Y	fes 🗀 No		ndoor Temp			°F				
	e:	AMBIENT READING IN PPM ON EACH FLOOR OF HOME			GAS LEAK CHECK	LEAK CAZ TEST			SPILLAGE FLUE GAS CO			GAS CO	
Appliance	Zone	PERSONAL CO MONITOR READING	CO MEASURED IN CAZ	LOWER EXPLOSIVE LIMIT	(P /F/NA)	BASELINE (Pascals)	WCD (Pascals)	P/F/NA	WCD (P /F/NA)	NAT (P/F/NA)	PPM	(P /F/NA)	
Water Heater							1						
FurnaceBoiler													
Range/Oven													
Other 1:							_						
Other 2:													
P = Pass	F = Fail   NA = Ne	ot Applicable	CAZ = Combu	stion Appliance 2	Lone   N	NCD = Worst	Case Depressu	station	NAT = Natural	PPM = Pr	arts Per Mi	illion	
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## Atmospherically-Vented Combustion Appliances

An atmospherically-vented, or natural draft, combustion appliance draws air for combustion from the inside of the home and relies upon the draft of warm air rising up a flue to carry dangerous combustion gases out of the home.\*

- Commonly labelled as Category I on the manufacturer's nameplate.
- Can have a draft hood, draft diverter, or a fan-assisted combustion system, but their presence within the sealed building envelope will still trigger safety testing.

Note: a gas range is not generally considered an atmospherically-vented combustion appliance. However, CAEATFA recommends that contractors test gas ranges for excess carbon monoxide if a project includes either air sealing and/or duct sealing EEMs.



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