



# Instructions for Duct Furnaces & Unit Heaters Appliance Data

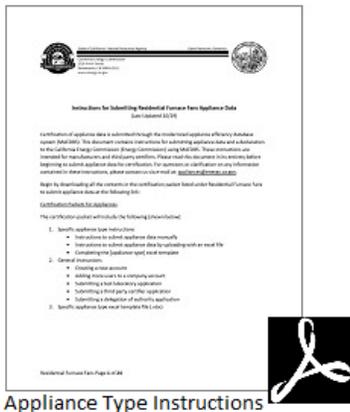
(Last Updated April 2020)

## Introduction

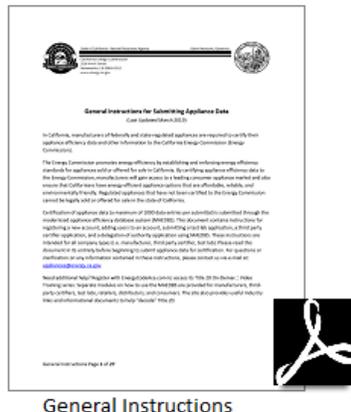
Certification of appliance data to the California Energy Commission (CEC) is done through the Modernized Appliance Efficiency Database System (MAEDbS). This document contains instructions for submitting appliance data and declarations to the CEC using MAEDbS. These instructions are for manufacturers and third-party certifiers. Please read this document in its entirety before submitting appliance data for certification. For questions or clarification on any information contained in these instructions, please contact us via e-mail at [appliances@energy.ca.gov](mailto:appliances@energy.ca.gov).

The certification packet you have downloaded includes the following (shown below):

1. These specific appliance type instructions
  - Instructions to submit appliance data manually
  - Instructions to complete and submit the Duct Furnaces & Unit Heaters excel template
2. General instructions
  - Creating a new account
  - Adding additional users to a company account
  - Submitting a test laboratory application
  - Submitting a third-party certifier application
  - Submitting a delegation of authority application
3. Specific appliance type excel template file (.xlsx)



Appliance Type Instructions



General Instructions



Appliance Type Template

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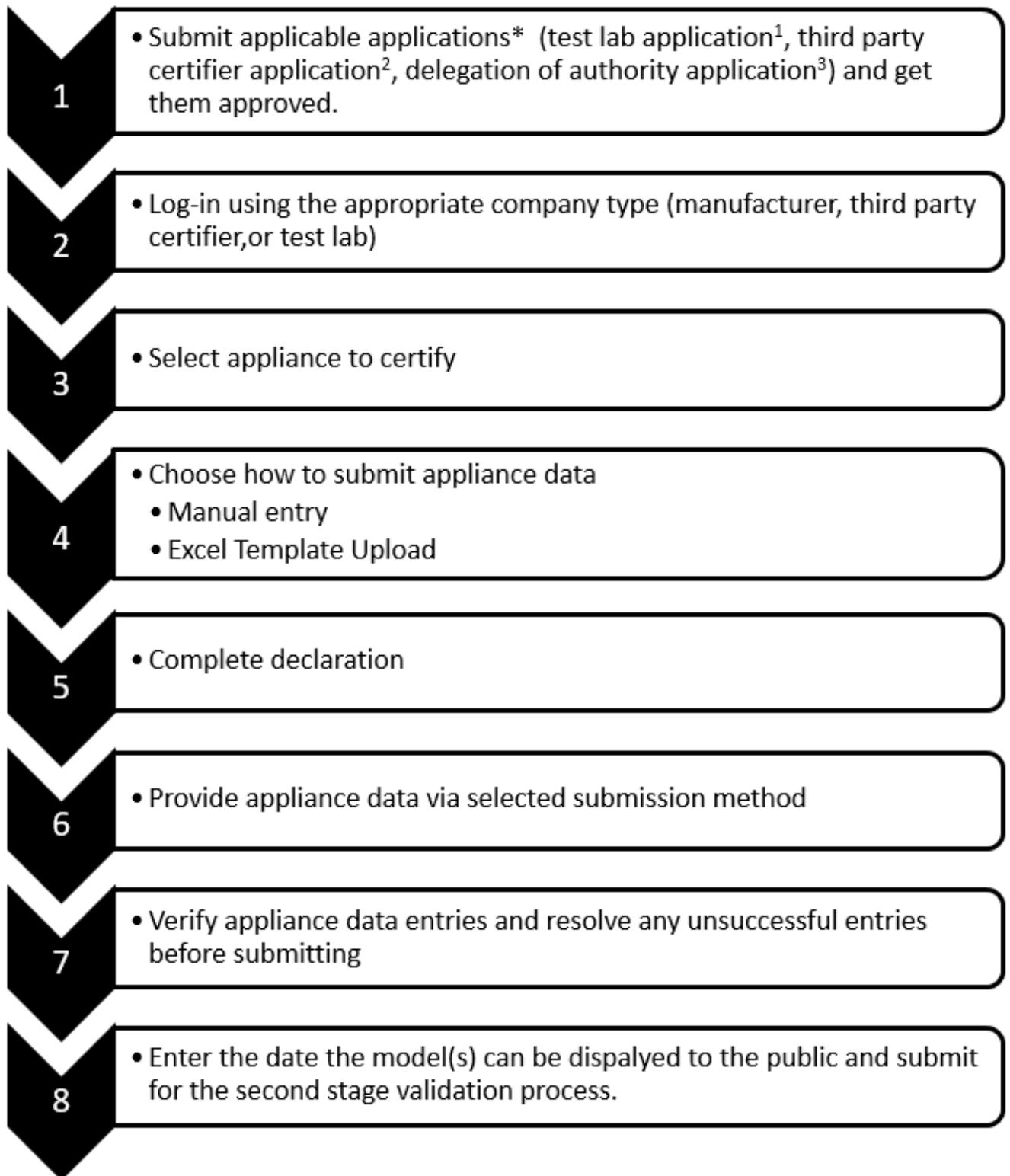
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## Process Overview of Submitting Appliance Data using MAEDbS (1<sup>st</sup> Stage)



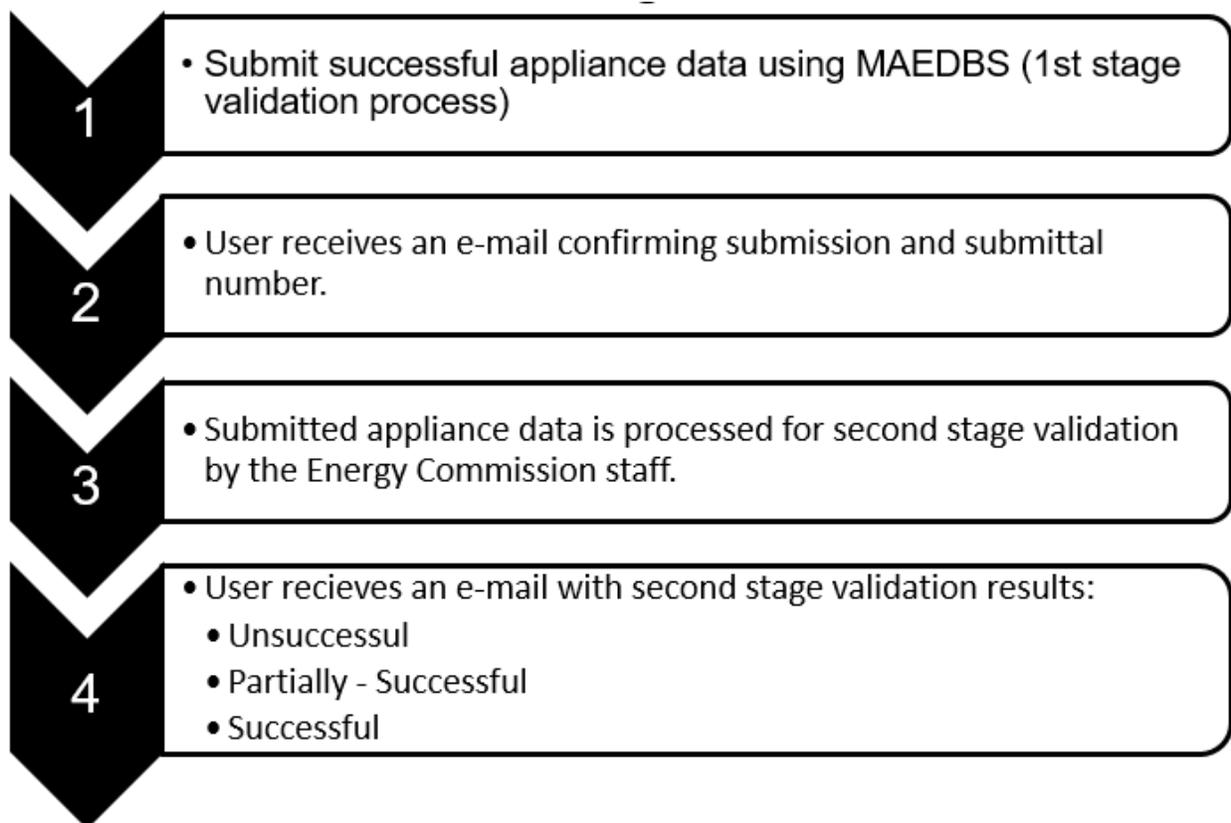
<sup>1</sup>The CEC must list a test laboratory before appliance data gathered by them may be certified. To do this the test lab must complete the test laboratory application.

<sup>2</sup>A third-party Certifier application must be approved by the CEC before a Third-party Certifier may submit on a manufacturer's behalf.

<sup>3</sup>If a manufacturer elects to provide data through a Third-party certifier, the manufacturer must submit a delegation of authority application giving the Third-party certifier permission to submit appliance data on behalf of the manufacturer.

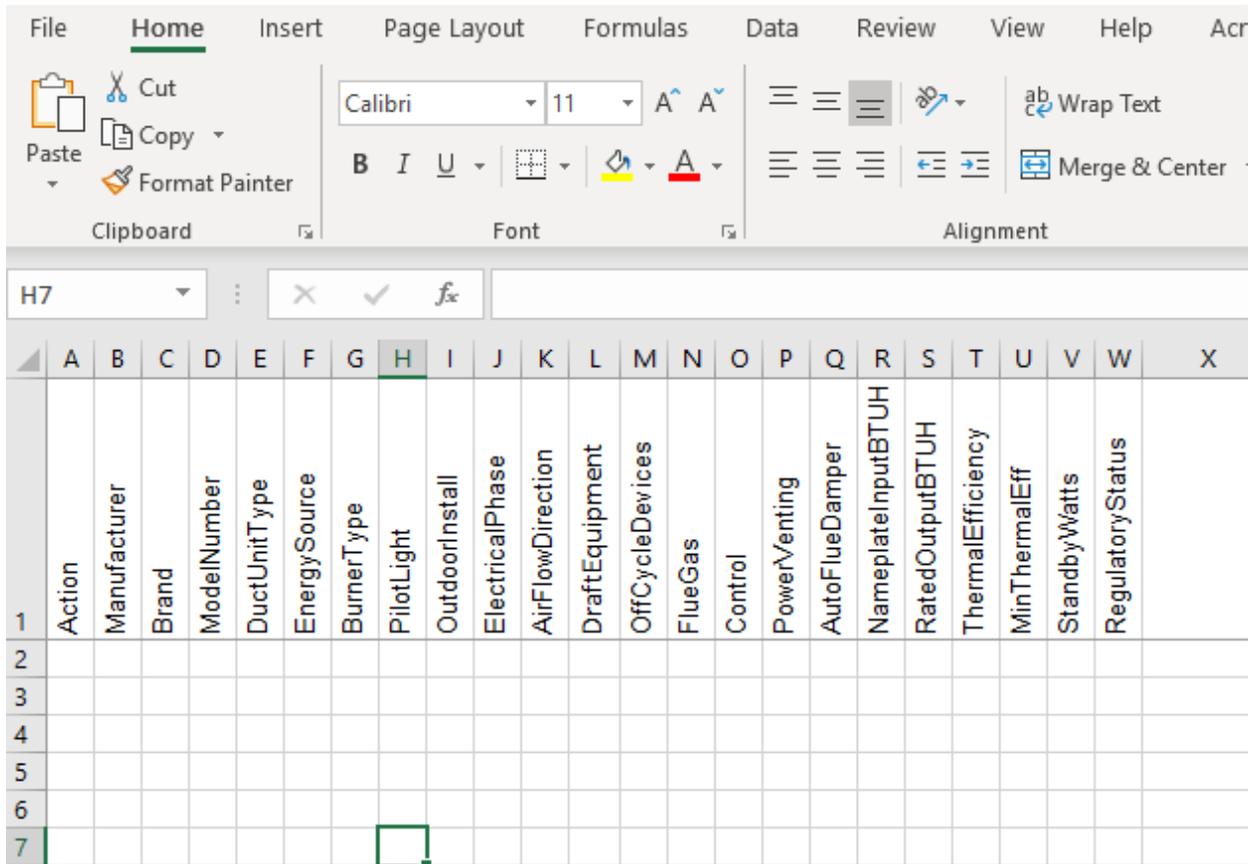
\*For more information on applications, refer to the general instructions in the certification packet.

## Overview of the 2<sup>nd</sup> Stage Validation Process



## Completing the Excel Template & Manual Entry Page

To upload your data using the excel template, begin by downloading and completing the provided spreadsheet in the Duct Furnaces & Unit Heaters (UDFR) certification packet. The excel template included in the certification packet should look like this:



**Note:** Excel submittal template name cannot exceed 75 characters in length.

## Appliance data submitted to the MAEDBS must adhere to the following rules:

- The file format must be Excel 2010 or higher (.xlsx) file.
- **Only one model per row is permissible.** Multiple models submitted in a single row will fail the entire submission.
- Only 1000 models per excel template file are permitted.
- Do not leave any blank rows between rows containing data.
- The top row (Row 1) must contain the prefilled column titles, starting at the top-left cell (cell A1).
- Do not change the column titles in the spreadsheet.
- All column titles must be present in the spreadsheet or the submission will fail.
- For numeric values, do not format the cell to 'round' to meet a desired number length, enter the value as described in the instructions below.
- Do not include any special characters (i.e. `!@#\$%^&\*;/?+-) unless otherwise indicated in the instructions.
- If you are adding and deleting the same model, do not include both the add and delete submissions in the same excel file. They must be submitted separately.

For manual entries, the manual data entry page should look like the image below for the appliance type.

## Duct Furnaces & Unit Heaters

**Save** **Cancel**

### Instructions

- Key in appliance data according to associated fields in the import template provided in the instructions for this specific appliance type. If the appliance brand name does not appear in the dropdown, enter it in the free entry field, this will be added to the system after CEC staff processing
- Model data must first be processed by CEC prior to any submissions to change or delete previously submitted model data

\*Action

\*Model Number

Manufacturer

Add Date

Brand

New Brand

\*Regulatory Status

DuctUnitType

Energy Source

Burner Type

Pilot Light? (T/F)

Outdoor Install

Electrical Phase

Air Flow Direction

Draft Equipment

Off Cycle Devices

Flue Gas

Control

PowerVenting

AutoFlueDamper

Nameplate Input BTUH

Rated Output BTUH

Thermal Efficiency

Thermal Efficiency Std

Min Thermal Efficiency

Min Thermal Efficiency Std

Standby Watts

Standby Std

The following instructions are for completing the excel spreadsheet **and** the manual data entry page by entering the data needed to certify your appliance. These instructions are for the Duct Furnaces & Unit Heaters (UDFR) appliance type only. Please read all these instructions carefully.

**KEY: Manual Entry Field Title [Excel Template Column Heading]:**

**E:** Excel template specific instructions

**M:** manual entry specific instructions

- **Action [Action]:**

**E:** Enter the appropriate code in the column representing the action you are performing. Other entries not shown in the table below will be unsuccessful.

**M:** Select the appropriate code from the dropdown menu of options in the table below.

<b>Code</b>	<b>Action</b>	<b>Description</b>
A	Add	Adding a new model to the database
D	Delete	Deleting a model currently in the database
C	Change	Changing a model currently in the database

**Important:** For changes, the manufacturer name, model number, brand name, and all unchanged fields must match the original submission. Only fields with actual changes should differ from the original submission. For deletions, all unique fields are required and must match the original data submission. Unique fields will be identified with an asterisk (\*) in the instructions.

- **Manufacturer [Manufacturer]\*:**

**E:** Enter the full name of the manufacturer as it appears in the database or in the company account.

**M:** The manufacturer name is populated automatically using the information from the declaration.

- **Brand [Brand]\*:**

**E:** Enter the full name of the brand which will appear on the appliance and under which the appliance is sold. If both the manufacturer name and the brand name are identical, do not leave the brand field blank.

**M:** Locate the brand name from the dropdown menu. If it does not appear, enter the full name of the brand which will appear on the appliance and under which the appliance is sold in the 'New Brand' field box.

- **Model Number [ModelNumber]\*:**

Enter the model number of the appliance as it will appear on the appliance itself (or on its packaging). Model numbers can have a maximum of thirty (30) characters. Do not include information that is not part of the model number.

**Using asterisks as wildcards:**

Models that have identical data but different model numbers due to features unrelated to energy use can be certified with a single listing through the use of asterisks.

An asterisk in a model number can represent any single character, including special characters and blanks. Note, though, that asterisks are the only wildcard that our system is able to recognize.

If you choose to use asterisks, use one asterisk for each character being replaced. Asterisks may not be used for the first four characters; the first four characters of a model number must always be entered. Lastly, asterisks should only replace the characters that are different between model numbers.

For example, if your model comes in three different exterior finishes, it may have three different model numbers:

ZZ-179853-WHT  
ZZ-179853-BLK  
ZZ-179853-RED

You could use a single listing to cover all three colors by using asterisks for the characters that change, but that do not reflect energy use:

ZZ-179853-\*\*\*

Remember, asterisks are appropriate only for models with identical data, and that one asterisk must be used for each character in the model number that can change.

- **Duct Unit Type [DuctUnitType]\*:**

**E:** Enter the appropriate code in the column representing the type of heater or furnace being certified. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate type of heater or furnace from the dropdown menu using the options in the table below.

<b>Code</b>	<b>Type</b>
DF	Duct Furnace
ULS	Low Static Unit Heater
UHS	High Static Unit Heater
UFM	Floor Mounted Unit Heater

- **Energy Source [EnergySource]\*:**

*Models designed to use either natural gas or liquefied petroleum gas (LPG) must be entered twice, once for each fuel type.*

**E:** Enter the appropriate code in the column representing the energy source of the heater or furnace being certified. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate energy source from the dropdown menu using the options in the table below.

<b>Code</b>	<b>Energy Source</b>
G	Natural Gas
L	Liquefied Petroleum Gas (LPG)
O	Oil

- **Burner Type [BurnerType]\*:**

**E:** Enter the appropriate code in the column representing the burning type of the unit. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate burner type from the dropdown menu using the options in the table below.

<b>Code</b>	<b>Burner Type</b>
I	Induced Draft
L	Luminous Burner
N	Injection Type Burner
P	Power Burner
R	Pressure Burner

- **Pilot Light? (T/F) [PilotLight]\*:**

**E:** Enter the appropriate code in the column representing whether the unit has a continuously burning pilot light. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate option from the dropdown menu using the options in the table below.

Code	Action	Description
T	True	Unit has a continuously burning pilot light.
F	False	Unit does <b>not</b> have a continuously burning pilot light.

- **Outdoor Install [OutdoorInstall]\*:**

**E:** Enter the appropriate code in the column representing the unit is designed to be installed or located outdoors. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate option from the dropdown menu using the options in the table below.

Code	Action	Description
T	True	Unit is designed to be installed outdoors.
F	False	Unit is <b>not</b> designed to be installed outdoors.

- **Electrical Phase [ElectricalPhase]\*:**

Enter the appropriate code representing whether the unit operates on a single-phase or three-phase system. Other entries not shown in the table below will result as an unsuccessful entry.

Code	Electrical Phase
1	Single-Phase
3	Three-Phase

- **Air Flow Direction [AirFlowDirection]\*:**

**E:** Enter the appropriate code in the column representing the air flow direction of the unit. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate air flow direction of the unit from the dropdown menu using the options in the table below.

<b>Code</b>	<b>Air Flow Direction</b>
D	Down
H	Horizontal
L	Lowboy
U	Up

- **Draft Equipment [DraftEquipment]:**

*This field is voluntary and may be left blank.*

**E:** Enter the appropriate code in the column representing the unit's draft equipment. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate draft equipment from the dropdown menu using the options in the table below.

<b>Code</b>	<b>Draft Equipment</b>
B	Barometric Regulator
D	Draft Diverter
H	Draft Hood
X	None

- **Off Cycle Devices [OffCycleDevices]:**

**E:** Enter the appropriate code in the column representing the unit’s off-cycle devices. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate off-cycle devices from the dropdown menu using the options in the table below.

<b>Code</b>	<b>Off-Cycle Devices</b>
F	Electro-Mechanical Flue Damper
I	Electro-Mechanical Inlet Damper
S	Stack Damper
X	None

- **Flue Gas [FlueGas]:**

**E:** Enter the appropriate code in the column representing whether the unit has a condensing or non-condensing flue gas system. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate flue gas system from the dropdown menu using the options in the table below.

<b>Code</b>	<b>Flue Gas</b>
C	Condensing
N	Non-Condensing

- **Control [Control]:**

**E:** Enter the appropriate code in the column representing the unit’s general type of control. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate general type of control from the dropdown menu using the options in the table below.

<b>Code</b>	<b>Control</b>
1	Single-Stage
2	Two-Stage Modulating
3	Step Modulating

- **PowerVenting [PowerVenting]:**

*Required only for all unit heaters and for gas-fired duct furnaces, otherwise this field is voluntary and may be left blank for all other units.*

**E:** Enter the appropriate code in the column representing whether the unit has a power venting mechanism. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate option from the dropdown menu using the options in the table below.

Code	Action	Description
T	True	Unit has power venting.
F	False	Unit does <b>not</b> have power venting.

- **AutoFlueDamper [AutoFlueDamper]:**

*Required only for all unit heaters and for gas-fired duct furnaces, otherwise this field is voluntary and may be left blank for all other units.*

**E:** Enter the appropriate code in the column representing whether the unit has an automatic flue damper. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate option from the dropdown menu using the options in the table below.

Code	Action	Description
T	True	Unit has an automatic flue damper or vent damper*.
F	False	Unit does <b>not</b> have an automatic flue damper or vent damper*.

\*An automatic vent damper is an acceptable alternative to an automatic flue damper for those unit heaters where combustion air is drawn from the conditioned space.

- **Nameplate Input BTUH [NameplateInputBTUH]:**

Enter the unit's nameplate-listed input rating, in Btu per hour. The entry must be a numeric value and should be reported to the nearest whole number.

- **Rated Output BTUH [RatedOutputBTUH]:**

Enter the unit's rated output, in Btu per hour. The entry must be a numeric value and should be reported to the nearest whole number.

- **Thermal Efficiency [ThermalEfficiency]:**

*Required only for duct furnaces (type code: DF), otherwise this field is voluntary and may be left blank for all other units.*

Enter the thermal efficiency with the heating controls at the maximum allowed by the unit. The entry must be a numeric value and should be reported to one (1) decimal place.

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- **Min Thermal Efficiency [MinThermalEff]:**

*Required only for duct furnaces (type code: DF), otherwise this field is voluntary and may be left blank for all other units.*

Enter the thermal efficiency with the heating controls at the minimum allowed by the unit. The entry must be a numeric value and should be reported to one (1) decimal place.

- **Standby Watts [StandbyWatts]:**

*Required only for gas-fired or LPG-fired duct furnaces; for unit heaters, the field is voluntary and may be left blank. Leave blank for oil-fired duct furnaces.*

Enter the energy consumed while the unit is in standby\* over a one hour period as determined using the appropriate test method. The entry must be a numeric value and should be reported to the nearest whole number.

\*To calculate maximum energy consumption during standby, measure the gas energy used in one hour (in Btus) and the electrical energy used (in watt-hours) over a one-hour period, when the main burner is off. Divide Btus and watt-hours by one hour to obtain Btus per hour and watts. Divide Btus per hour by 3.412 to obtain watts. Add watts of gas energy to watts of electrical energy to obtain standby energy consumption in watts.

- **Regulatory Status [RegulatoryStatus]:**

**E:** Enter the appropriate code representing the regulatory status. Other entries not shown in the table below will result as an unsuccessful entry.

**M:** Select the appropriate regulatory status from the dropdown menu from the options in the table below.

<b>Code</b>	<b>Regulatory Status</b>
I	Unit heaters, which are federally regulated commercial or industrial equipment.
N	Duct furnaces, which are not federally regulated.

Save the excel file as .xlsx format in a location where you will be able to find it when it is time to upload the data file.

## **Submitting Appliance Data**

### **Log-in**

To begin making data submittals, start by signing in to your MAEDbs account.

- If you have not created an account, refer to the general instructions on how to create an account.
- If you have already created an account and the CEC has approved it, log in. Once in your registered account, **select the appropriate company type (if applicable)** and continue to the next section.

**CA .GOV CALIFORNIA ENERGY COMMISSION**

### MAEDBS Log In

\*User ID \* (Required)

\*Password \* (Required)

I have read and agree to the [Login Policy](#)

[Forgot your User ID?](#) [Forgot your Password?](#)

1. Log in with registered account.

#### Don't have an account

Create an authorized CEC account if you are responsible for certifying or testing any products.

An account is not required for searching the database.

#### Public Search

Search for publicly available appliance information

#### 3rd Party and Test Laboratory Approvals

Search for publicly available approval information for 3rd party certifiers and test labs.

Test lab applications for the next certification year become available on November 1st each year.

Questions related to the new appliance database can be directed to [Appliances@energy.ca.gov](mailto:Appliances@energy.ca.gov) or to the Appliances Hotline, toll free at (888) 838-1467 or outside California (916) 651-7100 (9 AM to 4:30 PM PST).



## Company Login

### Company Type

---

Please select the company type you would like to proceed as:

- Manufacturer  Test Lab  3rd Party Certifier



## Company Login

### Company Type

---

Please select the company type you would like to proceed as:

- Manufacturer  Test Lab  3rd Party Certifier

## Selecting Appliance Type to Certify

After logging in, hover over the 'Applications' tab and select the 'Submit Appliance Data' link.



You will be redirected to the [Select Appliance](#) page (shown below).

### Select Appliance

Check here if you are submitting data for Title 24

Select Category	Select Appliance	Type of Entry
Please Select	Please Select	Please Select



### Manufacturer User

#### Select Appliance

##### Instructions

- If the manufacturer is not listed below, please contact them to submit a Delegation of Authority application.

Check here if you are submitting data for Title 24

Select Category	Select Appliance	Type of Entry
Please Select	Please Select	Please Select

Please select the manufacturer you are submitting on behalf of

Please Select
---------------



## Third-party Certifier User

Choose the following from the dropdown menus:

- **Category:** Heating Products
- **Appliance:** Duct Furnaces & Unit Heaters (UDFR)
- **Type of Entry:** Choose either 'Manual' or 'Upload Excel'  
**Note:** Choose 'Manual' if you would like to input the data you have collected using the MAEDBS data entry form. Alternatively, Choose 'Upload Excel' if you would like to upload your data using the excel spreadsheet template.
- **Manufacturer you are submitting on behalf of** (for third-party certifier user only): Select the manufacturer you are submitting appliance data on behalf of.  
**Note:** The manufacturer will only be available from the dropdown menu after the manufacturer has submitted a Delegation of Authority application in MAEDBS to allow the third-party certifier to submit appliance data on behalf of them.

After making your selections, click the '**Next**' button to begin the appliance submittal declaration.

# Completing the Appliance Submittal Declaration

After selecting the appliance type and the type of entry, you will be redirected to the [Appliance Submittal Declaration](#) page.

## Appliance Submittal Declaration

To meet the requirements of Title 20, companies wishing to certify appliances with the California Energy Commission must provide complete and accurate contact information for themselves and for the test laboratory used to produce the certification data. Companies must then sign this Declaration on the following page. If a test lab was not used (for example, if a manufacturer is requesting only that models be deleted from the certification database), or if an appropriate exception has been met, the Test Laboratory section may be left blank.

### Certifying Company

\*Certifying Company Name

Search

Address 1

Address 2

City

State

ZIP/Postal Code

Country

Company Website (URL)

\*Contact First Name

\*Contact Last Name

Search

Phone Number

Fax

Email Address

### Manufacturer (if different from Certifying Company)

\*Manufacturer Company Name

Search

Address 1

Address 2

City

State

ZIP/Postal Code

Country

Company Website (URL)

Contact First Name

Contact Last Name

Search

Phone Number

Fax

Email Address

### Test Laboratory

<input type="checkbox"/>	Name	Test Methods
No records found		

Add

With each appliance data submission, the appliance submittal declaration application must be completed. By completing and submitting the Declaration application, you are certifying that the appliance efficiency data you have collected is a true and accurate statement of your product's performance. After the Declaration, you will continue to submit data either by entering the information manually or uploading an excel spreadsheet.

The following set of instructions is for completing each section in the appliance submittal declaration.

## **Section 1 – Certifying Company**

- The certifying company name and location information will be pre-populated with the profile information of the user logged in. The contact person information will also be pre-populated with the profile information of the user logged in. To change the contact person to another user associated with the certifying company, click '**Search**' button and select the person from the list. Only approved contact personnel will be appear in the list.

## **Section 2 – Manufacturer (if different from Certifying Company)**

*This section applies to third-party certifiers' only.*

- The manufacturer name and location information will be pre-populated with the information of the manufacturer you selected when selecting your appliance type and type of entry. An example is shown below:

## Select Appliance

### Instructions

- If the manufacturer is not listed below, please contact them to submit a Delegation of Authority application.

Check here if you are submitting data for Title 24

Select Category: Fans and Dehumidifiers  
Select Appliance: Residential Furnace Fan:  
Type of Entry: Upload Excel

Please select the manufacturer you are submitting on behalf of

Please Select  
Please Select  
California Energy Commission – 1516 9th St

Next

### Manufacturer (if different from Certifying Company)

\*Manufacturer Company Name

California Energy Commission

Address 1: 1516 9th St  
Address 2:

City: Sacramento State: CA ZIP/Postal Code: 95814 Country: USA

Company Website (URL):

Contact First Name: Patino Contact Last Name: Christian

Phone Number: 9165552636 Fax: Email Address: christian.patino@energy.ca.gov

- The contact information is pre-populated to the default user associated with that company. To change the contact to another user associated with the company, click the **'Search'** button and select the person from the list. Only approved contact personnel will be appear in the list.

## Section 3 – Test Laboratory

To add an approved test laboratory, click the **'Add'** button.

### Test Laboratory

	Name	Test Methods
No records found		

Check this to skip adding Test Labs if submittal is for Deleting appliances only

**Add**

The Company Search page will appear:

- Enter the name of the company or a variation of the company name in the Company Name box and click the **'Search'** button to locate the correct Test Laboratory.
- You can also narrow down your search by selecting the country and/or the appliance type.

### Company Search

Enter company search criteria and click search to view results

Company Name <input type="text"/>	Country Please Select ▼	Company Type Test Lab ▼	Appliance Type Residential Furnace Fan: ▼
Company Status Approved ▼	Approval Start Date <input type="text"/>	Approval End Date <input type="text"/>	<b>Search</b>

### Search Results

	Company	Type	Address1	City	State	Country
There are no Companies with the given Search Criteria						

**Previous**

When you have located the approved test laboratory for the appliance data being certified click the **'Select'** link.

## Company Search

Enter company search criteria and click search to view results

Company Name	Country	Company Type	Appliance Type
<input type="text"/>	Please Select ▼	Test Lab ▼	Residential Furnace Fan: ▼
Company Status	Approval Start Date	Approval End Date	<input type="button" value="Search"/>
Approved ▼	<input type="text"/>	<input type="text"/>	

**Search Results** 1 record(s) found

Export To:

<input type="checkbox"/>	Company	Type	Address1	City	State	Country
<input checked="" type="checkbox"/>	Intertek Testing Service NA, Inc.	Test Lab	3933 US RT 11	Cortland	New York	USA

You will then be automatically redirected back to the [Test Lab Search](#) page. The test laboratory's information and the test method(s) they are listed for will appear. Select the appropriate test method in the Test Methods Performed section and click **'Next'** button to continue.

## Test Lab Search

### Instructions

Click the search button to search through CEC approved Test Laboratories

### Search Approved Test Labs

Test Laboratory Name		<input type="button" value="Search"/>	
<input type="text" value="Intertek Testing Service NA, Inc."/>			
Address 1	Address 2		
<input type="text" value="3933 US RT 11"/>	<input type="text"/>		
City	State	ZIP/Postal Code	Country
<input type="text" value="Cortland"/>	<input type="text" value="NY"/>	<input type="text" value="13045"/>	<input type="text" value="USA"/>
Company Website (URL)			
<input type="text" value="http://www.intertek.com"/>			

### Test Methods Performed

10 C.F.R. section 430.23(cc) (Appendix AA to Subpart B of part 430)

The approved test laboratory that was selected will then appear in the test laboratory section in the appliance submittal declaration page. To add more than one approved test laboratory click the **'Add'** button and repeat the previous steps.

#### Test Laboratory

<input type="checkbox"/>	Name	Test Methods	
<input type="checkbox"/>	Intertek Testing Service NA, Inc.	10 C.F.R. section 430.23(cc) (Appendix AA to Subpart B of part 430)	<input type="button" value="Add"/> <input type="button" value="Delete"/>

If your data submission is only for deleting appliance models currently in the database, a test laboratory is not required. Simply, check the box stating that you are deleting appliance models only.

#### Test Laboratory

<input type="checkbox"/>	Name	Test Methods	
No records found			
<input type="button" value="Add"/> <input type="button" value="Delete"/>			
<input type="checkbox"/> Check this to skip adding Test Labs if submittal is for Deleting appliances only			

## Section 4 – Declaration

To complete the appliance submittal declaration application:

- Enter your full first name and last name
- Enter your job title
- Select the date

Then click the **'Next'** button to submit the appliance submittal declaration application and to begin submitting the appliance data.

## Declaration

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I declare under penalty of perjury of the laws of the State of California that:

1. All the information in this statement is true, complete, accurate, and in compliance with all applicable provisions of Sections 1601 – 1609 of Title 20 of the California Code of Regulations.
2. Units of each basic model of appliance for which certification is requested have been tested in accordance with all applicable requirements of Sections 1603 – 1604 of Title 20 of the California Code of Regulations.
3. Section 1606(g) of Title 20 of the California Code of Regulations have been and are being complied with.
4. All units manufactured, distributed or otherwise intended for sale within the State of California have been and are being marked as required by Section 1607 of Title 20 of the California Code of Regulations.
5. The (i) manufacturer's name or brand name or trademark; (ii) model number; and (iii) date of manufacture are permanently, legibly, and conspicuously displayed on an accessible place on each unit.
6. The appliance complies with the applicable energy efficiency, energy consumption, energy design, water efficiency, water consumption, and water design standards in Sections 1605.1, 1605.2, and 1605.3 of Title 20 of the California Code of Regulations.

*Name	*Title	*Date	
<input type="text"/>	<input type="text"/>	<input type="text"/>	

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## Uploading Data via the Excel Template

After completing the appliance submittal declaration, you will be redirected to the [Upload Document](#) page (shown below). This page only appears if you selected '**Upload Excel**' while selecting the appliance type (the step before completing the submittal appliance declaration). Click the '**Choose File**' button to locate and upload your completed excel template. After locating and selecting your excel file, click the '**Next**' button to upload the appliance data to the MAEDBS.

### Instructions

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- Model data must first be processed by CEC prior to any submissions to change or delete previously submitted model data.
- Upload appliance data using the import template provided by the instructions for this specific appliance type.
- Please note that only one excel file can be added at a time.
- **Brand codes are not accepted.**

Choose File	No file chosen
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After clicking the '**Next**' button, the system will upload the appliance data, which could take several minutes depending on the amount of data being uploaded. Once uploaded, you will be redirected to the [Appliance Data List](#) page, which will list all the appliance models in the excel file.

Continue to the [Results of the First Stage Validation Process](#) section in this document.

## Uploading Data Manually

After completing the appliance submittal declaration, you will be redirected to the Appliance Type page (shown below). This page only appears if you selected the type of entry to be **'Manual'** while selecting the appliance type (the step before completing the submittal appliance declaration).

### Duct Furnaces & Unit Heaters

Save

Cancel

#### Instructions

- Key in appliance data according to associated fields in the import template provided in the instructions for this specific appliance type. If the appliance brand name does not appear in the dropdown, enter it in the free entry field, this will be added to the system after CEC staff processing
- Model data must first be processed by CEC prior to any submissions to change or delete previously submitted model data

\*Action

Please Select ▼

\*Model Number

Manufacturer

Add Date

Brand

Please Select ▼

New Brand

\*Regulatory Status

Please Select ▼

DuctUnitType

Please Select ▼

Energy Source

Please Select ▼

Burner Type

Please Select ▼

Pilot Light? (T/F)

None ▼

Outdoor Install

None ▼

Electrical Phase

Air Flow Direction

Please Select ▼

Draft Equipment

Please Select ▼

Off Cycle Devices

Please Select ▼

Flue Gas

Please Select ▼

Control

Please Select ▼

PowerVenting

None ▼

AutoFlueDamper

None ▼

Nameplate Input BTUH

Rated Output BTUH

Thermal Efficiency

Thermal Efficiency Std

Min Thermal Efficiency

Min Thermal Efficiency Std

Standby Watts

Standby Std

Please refer to section [Completing the Excel Template & Manual Entry Page](#) in this document to complete the manual data entry page (shown above).

When the required entries are entered, click on the **'Save'** button to save the entry. You will then be redirected to the [Appliance Data List](#) page where you can continue to add more models.

Continue to the [Results of the First Stage Validation Process](#) section in this document.

## **Results of the First Stage Validation Process**

On the [Appliance Data List](#) page, you are able to:

- Review your data before submitting,
- Modify your data by clicking the **'Select'** link next to a specific model,
- Delete a specific model by checking the box next to the model and clicking the **'Delete'** button, and
- Add a new model to your submission by clicking the **'Add'** button (this redirects you to the manual entry page; see the previous section for instructions).

**Note:** Multiple excel files cannot be submitted simultaneously.

When you are finished, click the **'Next'** button to submit the data for the first stage validation process.

## Appliance Data List

	Action	Appliance Category	Appliance Type	Model #	Manufacturer	Brand
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	1	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	2	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	3	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	4	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	5	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	6	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	7	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	8	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	9	California Energy Commission	A
Select	<input type="checkbox"/> Add	Fans and Dehumidifiers	ResidentialFurnaceFans	10	California Energy Commission	A

Delete Add  
Previous Next

After the system processes the appliance data, you will be redirected to the results page. If all entries pass first stage:

- Select the date the models can be displayed to the public
- Then click the **Submit** button to submit the appliance data for the second stage validation process.

### Results

Submit Cancel

#### Display-By Date

\*Please enter the date these models can be displayed to the public



**Passed** 8 record(s) found

Appliance Type	Model #	Manufacturer	Brand
ResidentialFurnaceFans	1	California Energy Commission	A
ResidentialFurnaceFans	2	California Energy Commission	A
ResidentialFurnaceFans	3	California Energy Commission	A
ResidentialFurnaceFans	4	California Energy Commission	A
ResidentialFurnaceFans	5	California Energy Commission	A
ResidentialFurnaceFans	6	California Energy Commission	A
ResidentialFurnaceFans	7	California Energy Commission	A
ResidentialFurnaceFans	8	California Energy Commission	A

For cases that result in failed appliance data, please refer to the Troubleshooting section in this document.

## First Stage vs. Second Stage Validation

### First Stage Validation

- The first stage validation process is the process of submitting data through MAEDBS for quality check of the appliance data.

### Second Stage Validation

- CEC staff next process successful submissions to the MAEDBS.
- The second stage validation process verifies if the appliance data meets federal and state standards.

### Troubleshooting

If some or all models fail, they will appear in the Failed section in the results page (shown below). The reasons for failing are applicable to both types of entries. To view the reasons why the model(s) failed, click the **'View Failure Reasons by Category'** link.

Results

Cancel

Display-By Date

\*Please enter the date these models can be displayed to the public

Passed 8 record(s) found

Appliance Type	Model #	Manufacturer	Brand
ResidentialFurnaceFans	1	California Energy Commission	A
ResidentialFurnaceFans	2	California Energy Commission	A
ResidentialFurnaceFans	3	California Energy Commission	A
ResidentialFurnaceFans	4	California Energy Commission	A
ResidentialFurnaceFans	5	California Energy Commission	A
ResidentialFurnaceFans	6	California Energy Commission	A
ResidentialFurnaceFans	7	California Energy Commission	A
ResidentialFurnaceFans	8	California Energy Commission	A

Failed 2 record(s) found

Appliance Type	Model #	Manufacturer	Brand
Select ResidentialFurnaceFans	9	California Energy Commission	A
Select ResidentialFurnaceFans	10	California Energy Commission	A

[View Failure Reasons by Category](#)

Re-Upload

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The Failure Reasons List page will appear (shown below) showing the reason(s) why a specific model was unsuccessful. After determining the reason of failure, if the data can be corrected, click the 'Previous' button (bottom right of the page) to return to the 'Results' page.

Failure Reasons List

Furnace Fan Type must be 1, 2, 3, 4, 5, 6, 7, 8.

Manufacturer	Brand	Model #
California Energy Commission	A	9
California Energy Commission	A	10

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From the Results page, select 'Re-Upload' to upload the corrected version of your excel file or click the 'Select' next to the model you wish to correct. Using the latter will open the manual data entry page.

## Results

Cancel

### Display-By Date

\*Please enter the date these models can be displayed to the public

### Passed 8 record(s) found

Appliance Type	Model #	Manufacturer	Brand
ResidentialFurnaceFans	1	California Energy Commission	A
ResidentialFurnaceFans	2	California Energy Commission	A
ResidentialFurnaceFans	3	California Energy Commission	A
ResidentialFurnaceFans	4	California Energy Commission	A
ResidentialFurnaceFans	5	California Energy Commission	A
ResidentialFurnaceFans	6	California Energy Commission	A
ResidentialFurnaceFans	7	California Energy Commission	A
ResidentialFurnaceFans	8	California Energy Commission	A

### Failed 2 record(s) found

	Appliance Type	Model #	Manufacturer	Brand
Select	ResidentialFurnaceFans	9	California Energy Commission	A
Select	ResidentialFurnaceFans	10	California Energy Commission	A

[View Failure Reasons by Category](#)

Re-Upload

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Many 'reasons of failure' can be corrected by following the instructions in the [Completing the Excel Template & Manual Entry Page](#) section in this document.

For more help you can also view our most frequently asked questions document at <http://energy.ca.gov/appliances/forms/index.html>.

## Contact Information

For any questions, assistance, or clarification, please contact us via email at [appliances@energy.ca.gov](mailto:appliances@energy.ca.gov) or by calling our Appliances Hotline toll free at (888) 838-1467 or outside California at (916) 651-7100. Our normal operating hours are from Monday-Friday from 9am to 12pm and 1pm to 4:30pm.