



Pumps Appliance Data

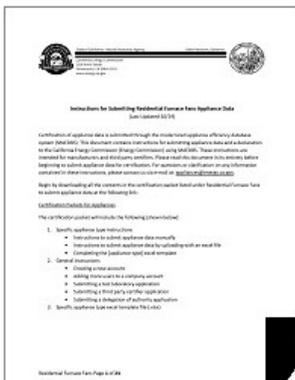
(Last Updated January 2021)

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.

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 Pumps 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

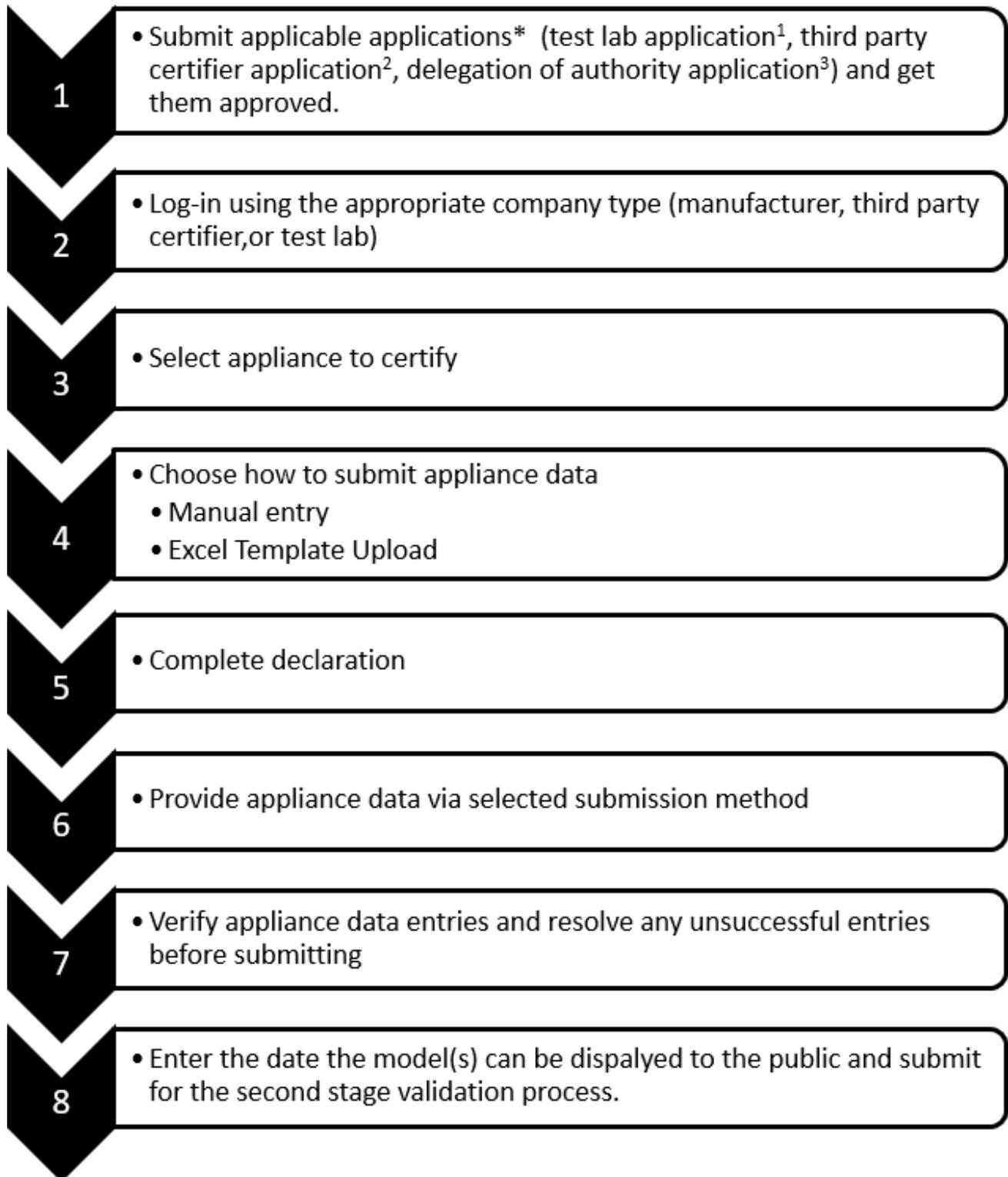


Appliance Type Template

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Process Overview of Submitting Appliance Data using MAEDbS (1st Stage)



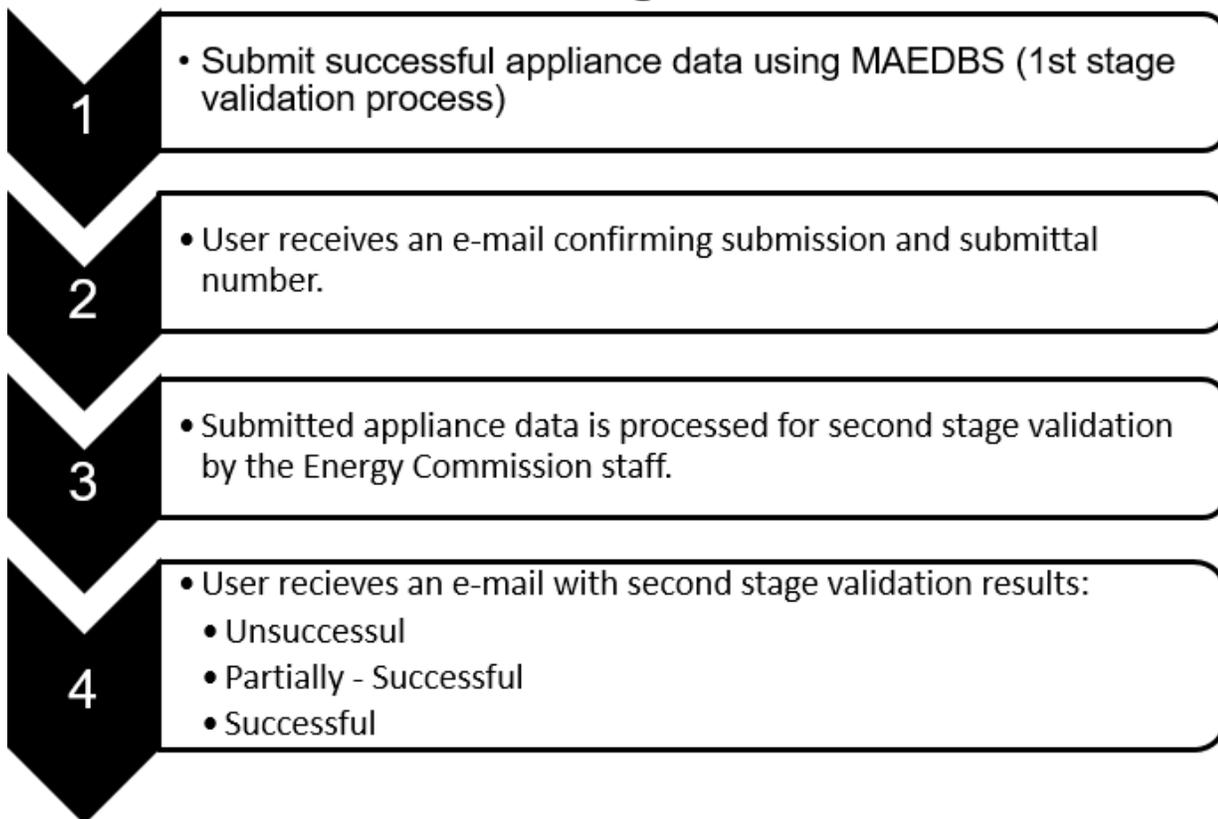
¹The CEC must list a test laboratory before appliance data gathered by them may be certified. To do this the test lab must complete the test laboratory application.

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

³If 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 2nd 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 Pumps (PUMP) certification packet. The excel template included in the certification packet should look like this:

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | | | |
|---|--------|--------------|-------|-------------|------------------|------------------|-------------------|----------------|-------|-------|-------------------|---------------------|---------------------------|--------------------------|------------------------------|-------------------------------|------------------------------|------------------------------------|------------------------------------|-------------------------------------|---------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|------------------------|---------------------------|---|----|----|--|--|--|
| 1 | Action | Manufacturer | Brand | ModelNumber | OtherModelNumber | RegulatoryStatus | PumpConfiguration | EquipmentClass | PEICL | PEIVL | PumpTotalHead(ft) | VolumeFlowRate(gpm) | NominalSpeedRotation(rpm) | BowlDiameter(ST)(inches) | FullImpellerDiameter(inches) | NumberOfStagesTested(RSV)(ST) | PumpEfficiencyBEP(%)Optional | CalcDriverPowerInputLowest(BP)(hp) | CalcDriverPowerInputMiddle(BP)(hp) | CalcDriverPowerInputHighest(BP)(hp) | PERCL(BP)(Optional) | DriverPowerInputLowest(EM)(hp) | DriverPowerInputMiddle(EM)(hp) | DriverPowerInputHighest(EM)(hp) | PEICLCalcORTest(EM)(Optional) | PERCL(EM)(Optional) | DriverPowerInput(25%)(C)(NC)(hp) | DriverPowerInput(50%)(C)(NC)(hp) | DriverPowerInput(75%)(C)(NC)(hp) | DriverPowerInput(100%)(C)(NC)(hp) | PEICLCalcORTest(C)(NC)(Optional) | PERVL(C)(NC)(Optional) | NominalMotorEfficiency(%) | MotorHorsepowerForMotorPumpBeingRated(hp) | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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.

Pumps

Save

Cancel

Instructions

- Key in appliance data according to associated fields in the report 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.
- Brand codes are not accepted.

| | |
|--|--|
| *Action | <input type="text" value="Please Select"/> |
| *Model Number | <input type="text"/> |
| Manufacturer | <input type="text"/> |
| Add Date | <input type="text"/> |
| Brand | <input type="text" value="Please Select"/> |
| New Brand | <input type="text"/> |
| *Regulatory Status | <input type="text" value="Please Select"/> |
| Other Model Number | <input type="text"/> |
| Reference Number | <input type="text"/> |
| Pump Configuration | <input type="text" value="Please Select"/> |
| Equipment Class | <input type="text" value="Please Select"/> |
| PEICL | <input type="text"/> |
| PEIVL | <input type="text"/> |
| Pump Total Head (Ft) | <input type="text"/> |
| Volume Flow Rate (Gpm) | <input type="text"/> |
| Nominal Speed Of Rotation (Rpm) | <input type="text"/> |
| Bowl Diameter In Inches (ST Pumps Only) | <input type="text"/> |
| Full Impeller Diameter In Inches | <input type="text"/> |
| Number Of Stages Tested (RSV And ST Pumps Only) | <input type="text"/> |
| Pump Efficiency At BEP In Percent (%) (Optional) | <input type="text"/> |
| Calculated Driver Power Input Lowest (BP Only) (Hp) | <input type="text"/> |
| Calculated Driver Power Input Middle (BP Only) (Hp) | <input type="text"/> |
| Calculated Driver Power Input Highest (BP Only) (Hp) | <input type="text"/> |
| PERCL (BP Only) (Optional) | <input type="text"/> |
| Driver Power Input Lowest (EM Only) (Hp) | <input type="text"/> |
| Driver Power Input Middle (EM Only) (Hp) | <input type="text"/> |
| Driver Power Input Highest (EM Only) (Hp) | <input type="text"/> |
| PEICL Calculated Or Tested (EM Only) (Optional) | <input type="text" value="Please Select"/> |
| PERCL (EM Only) (Optional) | <input type="text"/> |
| Driver Power Input 25% (C And NC Only) (Hp) | <input type="text"/> |
| Driver Power Input 50% (C And NC Only) (Hp) | <input type="text"/> |
| Driver Power Input 75% (C And NC Only) (Hp) | <input type="text"/> |
| Driver Power Input 100% (C And NC Only) (Hp) | <input type="text"/> |
| PEICL Calculated Or Tested (C And NC Only) (Optional) | <input type="text" value="Please Select"/> |
| PERVL (C And NC Only) (Optional) | <input type="text"/> |
| Nominal Motor Efficiency In Percent (%) | <input type="text"/> |
| Motor Horsepower (Hp) For The Motor With Which The Pump Is Being Rated | <input type="text"/> |
| C-Value | <input type="text"/> |

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 Pumps 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.

| Code | Action | Description |
|-------------|---------------|--|
| 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 sixty (60) 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.

- **Other Model Number (Optional) [OtherModelNumber]*:**

Unique and optional field for additional model number information. Model numbers can have a maximum of sixty (60) characters. Do not include information that is not part of the model number.

- **Regulatory Status [RegulatoryStatus]:**

E: Enter the appropriate code representing the regulatory status. 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.

| Code | Regulatory Status |
|------|--|
| I | The pump is a <u>Federally-Regulated</u> Commercial & Industrial Equipment |

- **Pump Configuration [PumpConfiguration]:**

E: Enter the appropriate code in the column representing the correct Pump Configuration. Other entries not shown in the table

below will result as an unsuccessful entry.

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

| Code | Pump Configuration |
|-------------|---|
| BP | A bare pump |
| EM | A pump sold with an electric motor (no controls) |
| C | A pump sold with a <u>motor & continuous controls</u> |
| NC | A pump sold with a <u>motor & non-continuous controls</u> |

- **Equipment Class [EquipmentClass]*:**

E: Enter the appropriate product group code in the column representing the correct combination of Equipment Family, Nominal Speed of Rotation, and Operating Mode. Other entries not shown in the table below will result as an unsuccessful entry.

M: Select the appropriate product group code from dropdown menu using the options in table below.

| Product Group Code | Equipment Class Abbreviation | Equipment Family | Nominal Speed of Rotation | Operating Mode |
|--------------------|------------------------------|--|---------------------------|----------------|
| 1 | ESCC.1800.CL | End suction close-coupled | 1800 | Constant load |
| 2 | ESCC.3600.CL | End suction close-coupled | 3600 | Constant Load |
| 3 | <u>ESCC.1800.VL</u> | End suction close-coupled | 1800 | Variable Load |
| 4 | <u>ESCC.3600.VL</u> | End suction close-coupled | 3600 | Variable Load |
| 5 | ESFM.1800.CL | End suction frame mounted/own bearings | 1800 | Constant Load |
| 6 | ESFM.3600.CL | End suction frame mounted/own bearings | 3600 | Constant Load |
| 7 | ESFM.1800.VL | End suction frame mounted/own bearings | 1800 | Variable Load |
| 8 | ESFM.3600.VL | End suction frame mounted/own bearings | 3600 | Variable Load |
| 9 | IL.1800.CL | In-line | 1800 | Constant Load |

| | | | | |
|----|-------------|--|------|---------------|
| 10 | IL.3600.CL | In-line | 3600 | Constant Load |
| 11 | IL.1800.VL | In-line | 1800 | Variable Load |
| 12 | IL.3600.VL | In-line | 3600 | Variable Load |
| 13 | RSV.1800.CL | Radially split, multi-stage, vertical, in-line casing diffuser | 1800 | Constant Load |
| 14 | RSV.3600.CL | Radially split, multi-stage, vertical, in-line casing diffuser | 3600 | Constant Load |
| 15 | RSV.1800.VL | Radially split, multi-stage, vertical, in-line casing diffuser | 1800 | Variable Load |
| 16 | RSV.3600.VL | Radially split, multi-stage, vertical, in-line casing diffuser | 3600 | Variable Load |
| 17 | ST.1800.CL | Submersible turbine | 1800 | Constant Load |
| 18 | ST.3600.CL | Submersible turbine | 3600 | Constant Load |
| 19 | ST.1800.VL | Submersible turbine | 1800 | Variable Load |
| 20 | ST.3600.VL | Submersible turbine | 3600 | Variable Load |

- **PEICL [PEICL]**

For pumps subject to test methods prescribed in sect. III-V, enter the Constant Load Pump Energy Index (PEICL). This should be a decimal number greater than zero (0) rounded to the hundredths place (*i.e.*, 0.01).

- **PEIVL [PEIVL]**

For pumps subject to test methods prescribed in sect. VI or VII, enter the Constant Load Pump Energy Index (PEIVL). This should be a

decimal number greater than zero (0) rounded to the hundredths place (*i.e.*, 0.01).

- **Pump Total Head (ft) [PumpTotalHead(ft)]**

Enter the pump total head in feet at best efficiency point (BEP) and nominal speed as determined in accordance with the test procedure in Section 431.464. This should be a decimal number greater than zero (0).

- **Volume Flow Rate (gpm) [VolumeFlowRate(gpm)]:**

Enter the volume per unit time (flow rate) in gallons per minute (gpm) at best efficiency point (BEP) and nominal speed. This should be a decimal number greater than zero (0).

- **Nominal speed of rotation (rpm) [NominalSpeedRotation(rpm)]:**

Enter the Nominal Speed of Rotation in revolutions per minute (rpm). This should be an integer and should either be 1800 or 3600 RPMs as determined by the test procedure.

- **Bowl diameter in inches (ST pumps only) [BowlDiameter(ST)(inches)]:**

For ST Pumps only, enter the bowl diameter in inches. This should be a decimal number greater than zero (0).

- **Full impeller diameter in inches [FullImpellerDiameter(inches)]:**

Enter the full impeller diameter in inches. This should be a decimal number greater than zero (0).

- **Number of stages tested (RSV and ST pumps only) [NumberOfStagesTested(RSV)(ST)]:**

For RSV and ST Pumps only, enter the number of stages tested. This should be an integer greater than zero (0).

- **Pump efficiency at BEP in percent (%) (Optional)**
[PumpEfficiencyBEP(%)(Optional)]:

It is optional to enter the pump efficiency at the best efficiency point in percent. This should be a percentage greater than zero (0) and less than or equal to 100.

- **Calculated Driver Power Input Lowest (BP only) (hp)**
[CalcDriverPowerInputLowest(BP)(hp)]:

For Bare Pumps subject to the test methods prescribed in section III of appendix A to subpart Y of part 431

Enter the Calculated Driver Power Input at the 75% Load Point (or as 65% Load Point if BEP is at Run Out), Corrected to Nominal Speed, in Horsepower (hp). This should be a decimal number greater than zero (0).

- **Calculated Driver Power Input Middle (BP only) (hp)**
[CalcDriverPowerInputMiddle(BP)(hp)]:

For Bare Pumps subject to the test methods prescribed in section III of appendix A to subpart Y of part 431

Enter the Calculated Driver Power Input at the 100% Load Point (or as 90% Load Point if BEP is at Run Out), Corrected to Nominal Speed, in Horsepower (hp). This should be a decimal number greater than zero (0).

- **Calculated Driver Power Input Highest (BP only) (hp)**
[CalcDriverPowerInputHighest(BP)(hp)]:

For Bare Pumps subject to the test methods prescribed in section III of appendix A to subpart Y of part 431

Enter the Calculated Driver Power Input at the 110% Load Point (or as 100% Load Point if BEP is at Run Out), Corrected to Nominal Speed, in Horsepower (hp). This should be a decimal number greater than zero (0).

- **PERCL (BP only) (Optional) [PERCL(BP)(Optional)]:**

For Bare Pumps subject to the test methods prescribed in section III of appendix A to subpart Y of part 431

It is optional to enter the Constant Load Pump Energy Rating (PERCL). This should be a decimal number greater than zero (0) rounded to three significant digits.

- **Driver Power Input Lowest (EM only) (hp) [DriverPowerInputLowest(EM)(hp)]:**

For Pumps Sold with an Electric Motor subject to the test methods prescribed in section IV or V of appendix A to subpart Y of part 431

Enter the Driver Power Input at the 75% Load Point (or at 65% Load Point if BEP is at Run Out), Corrected to Nominal Speed, in Horsepower (hp). This should be a decimal number greater than zero (0).

- **Driver Power Input Middle (EM only) (hp) [DriverPowerInputMiddle(EM)(hp)]:**

For Pumps Sold with an Electric Motor subject to the test methods prescribed in section IV or V of appendix A to subpart Y of part 431

Enter the Driver Power Input at the 100% Load Point (or at 90% Load Point if BEP is at Run Out), Corrected to Nominal Speed, in Horsepower (hp). This should be a decimal number greater than zero (0).

- **Driver Power Input Highest (EM only) (hp) [DriverPowerInputHighest(EM)(hp)]:**

For Pumps Sold with an Electric Motor subject to the test methods prescribed in section IV or V of appendix A to subpart Y of part 431

Enter the Driver Power Input at the 110% Load Point (or at 100% Load Point if BEP is at Run Out), Corrected to Nominal Speed, in Horsepower (hp). This should be a decimal number greater than zero (0).

- **PEICL Calculated or Tested (EM only) (Optional) [PEICLCalcORTest(EM)(Optional)]:**

For Pumps Sold with an Electric Motor subject to the test methods prescribed in section IV or V of appendix A to subpart Y of part 431

E: It is optional to enter the appropriate code in the column representing the correct answer to whether PEICL was calculated or tested. Other entries not shown in the table below will result as an unsuccessful entry.

M: It is optional to select the appropriate code from dropdown menu using the options in table below.

| Code | Was the PEICL Calculated or Tested? |
|------|-------------------------------------|
| C | Enter 'C' if PEICL was Calculated |
| T | Enter 'T' if PEICL was Tested |

- **PERCL (EM only) (Optional) [PERCL(EM)(Optional)]:**

For Pumps Sold with an Electric Motor subject to the test methods prescribed in section IV or V of appendix A to subpart Y of part 431

It is optional to enter the Constant Load Pump Energy Rating (PERCL). This should be a decimal number greater than zero (0) rounded to three significant digits.

- **Driver Power Input 25% (C and NC only) (hp) [DriverPowerInput(25%)(C)(NC)(hp)]:**

For a Pump Sold with a Motor and Continuous or Non-Continuous Controls subject to the test methods prescribed in section VI or VII of appendix A to subpart Y of part 431

Enter the Driver Power Input to the Controls at 25% Load Point in Horsepower (hp) (corrected in accordance with the test procedure, if applicable). This should be a decimal number greater than zero (0).

- **Driver Power Input 50% (C and NC only) (hp)**
[DriverPowerInput(50%)(C)(NC)(hp)]:

For a Pump Sold with a Motor and Continuous or Non-Continuous Controls subject to the test methods prescribed in section VI or VII of appendix A to subpart Y of part 431

Enter the Driver Power Input to the Controls at 50% Load Point in Horsepower (hp) (corrected in accordance with the test procedure, if applicable). This should be a decimal number greater than zero (0).

- **Driver Power Input 75% (C and NC only) (hp)**
[DriverPowerInput(75%)(C)(NC)(hp)]:

For a Pump Sold with a Motor and Continuous or Non-Continuous Controls subject to the test methods prescribed in section VI or VII of appendix A to subpart Y of part 431

Enter the Driver Power Input to the Controls at 75% Load Point in Horsepower (hp) (corrected in accordance with the test procedure, if applicable). This should be a decimal number greater than zero (0).

- **Driver Power Input 100% (C and NC only) (hp)**
[DriverPowerInput(100%)(C)(NC)(hp)]:

For a Pump Sold with a Motor and Continuous or Non-Continuous Controls subject to the test methods prescribed in section VI or VII of appendix A to subpart Y of part 431

Enter the Driver Power Input (measured as the input power to the driver and controls) at 100% Load Point, corrected to Nominal Speed, in Horsepower (hp). This should be a decimal number greater than zero (0).

- **PEICL Calculated or Tested (C and NC only) (Optional)**
[PEICLCalcORTest(C)(NC)(Optional)]:

For a Pump Sold with a Motor and Continuous or Non-Continuous Controls subject to the test methods prescribed in section VI or VII of appendix A to subpart Y of part 431

E: It is optional to enter the appropriate code in the column representing the correct answer to whether PEICL was calculated or tested. Other entries not shown in the table below will result as an unsuccessful entry.

M: It is optional to select the appropriate code from dropdown menu using the options in table below.

| Code | Was the PEICL Calculated or Tested? |
|------|-------------------------------------|
| C | Enter 'C' if PEICL was Calculated |
| T | Enter 'T' if PEICL was Tested |

- **PERVL (C and NC only) (Optional) [PERVL(C)(NC)(Optional)]:**
- *For a Pump Sold with a Motor and Continuous or Non-Continuous Controls subject to the test methods prescribed in section VI or VII of appendix A to subpart Y of part 431*

It is optional to enter the Variable Load Pump Energy Rating (PERVL). This should be a decimal number greater than zero (0) rounded to three significant digits.

- **Nominal motor efficiency in percent (%) [NominalMotorEfficiency(%)]:**
- *For a pump subject to the test methods prescribed in section IV - VII of appendix A to subpart Y of part 431 sold with electric motors regulated by DOE's energy conservation standards for electric motors at §431.25*

If applicable, enter the Nominal Motor Efficiency in Percent (%). This should be a percentage greater than 0 and less than or equal to 100.

- **Motor horsepower (hp) for the motor with which the pump is being rated**

[MotorHorsepowerForMotorPumpBeingRated(hp)]:

For a pump subject to the test methods prescribed in section IV - VII of appendix A to subpart Y of part 431 sold with electric motors regulated by DOE's energy conservation standards for electric motors at §431.25

If applicable, enter the Motor Horsepower (hp) for the Motor with which the Pump is Being Rated. This should be a decimal number greater than zero (0).

- **C-value [C-value]:**

Enter the C-value. This should be a decimal number greater than zero (0).

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.

The screenshot shows the MAEDbS Log In page. At the top left is the CA.GOV logo and the text 'CALIFORNIA ENERGY COMMISSION'. The main content area is titled 'MAEDbS Log In' and contains the following fields and options:

- *User ID * (Required) [input field]
- *Password * (Required) [input field]
- I have read and agree to the Login Policy
- [Forgot your User ID?](#) [Forgot your Password?](#)
-

A callout box points to the Sign In button with the text: "1. Log in with registered account."

Below the login form are three columns of links and descriptions:

- 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.

At the bottom, a footer note states: "Questions related to the new appliance database can be directed to 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 Please Select | Select Appliance Please Select | Type of Entry 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 Please Select | Select Appliance Please Select | Type of Entry 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:** General Pumps
- **Appliance:** Pumps
- **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

| 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 | Select Appliance | Type of Entry |
| Fans and Dehumidifiers ▾ | Residential Furnace Fan: ▾ | 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

Search

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

Search

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 | | |

Add

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

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"/> | Search |

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="text" value="Intertek Testing Service NA, Inc."/> | | <input type="button" value="Search"/> | |
| 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 | | | |

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

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"/>  |

Previous **Next**

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

- 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 |
|-------------|----------------|

Previous **Next**

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).

Federally Regulated Battery Chargers

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.
- **Brand codes are not accepted.**

*Action

*Model Number

Manufacturer

Add Date

Brand

New Brand

*Regulatory Status

Basic Model Number

Product Group Code

Nameplate Battery Voltage of Test Battery in Volts (V)

Nameplate Battery Charge Capacity of Test Battery in Ampere-Hours (Ah)

Nameplate Battery Energy Capacity of Test Battery in Watt-Hours (Wh)

Maintenance Mode Power in Watts (Pm)

Standby Mode Power in Watts (Psb)

Off Mode Power in Watts (Poff)

Battery Discharge Energy in Watt-Hours (Ebatt)

24-Hour Energy Consumption in Watt-Hours (E24)

Duration of the Charge and Maintenance Mode Test in Hours (Tcd)

Unit Energy Consumption (UEC) (kWh/yr)

Unit Energy Consumption (UEC) (kWh/yr) Standard

Manufacturer Of Test Battery

Model Of Test Battery

Manufacturer Of External Power Supply

Model Of External Power Supply

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

| | <input type="checkbox"/> | 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



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
Previous

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 |

Previous

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
Previous

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 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.