



Instructions for Desktop, Thin Client, & Mobile Gaming System Computers

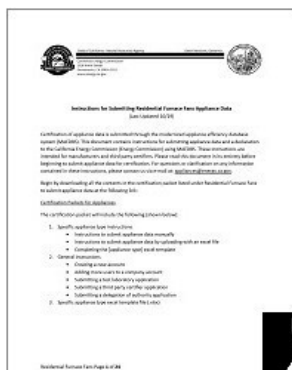
(Last Updated September 2026)

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 2016-2025 JA8 High Efficacy Lighting 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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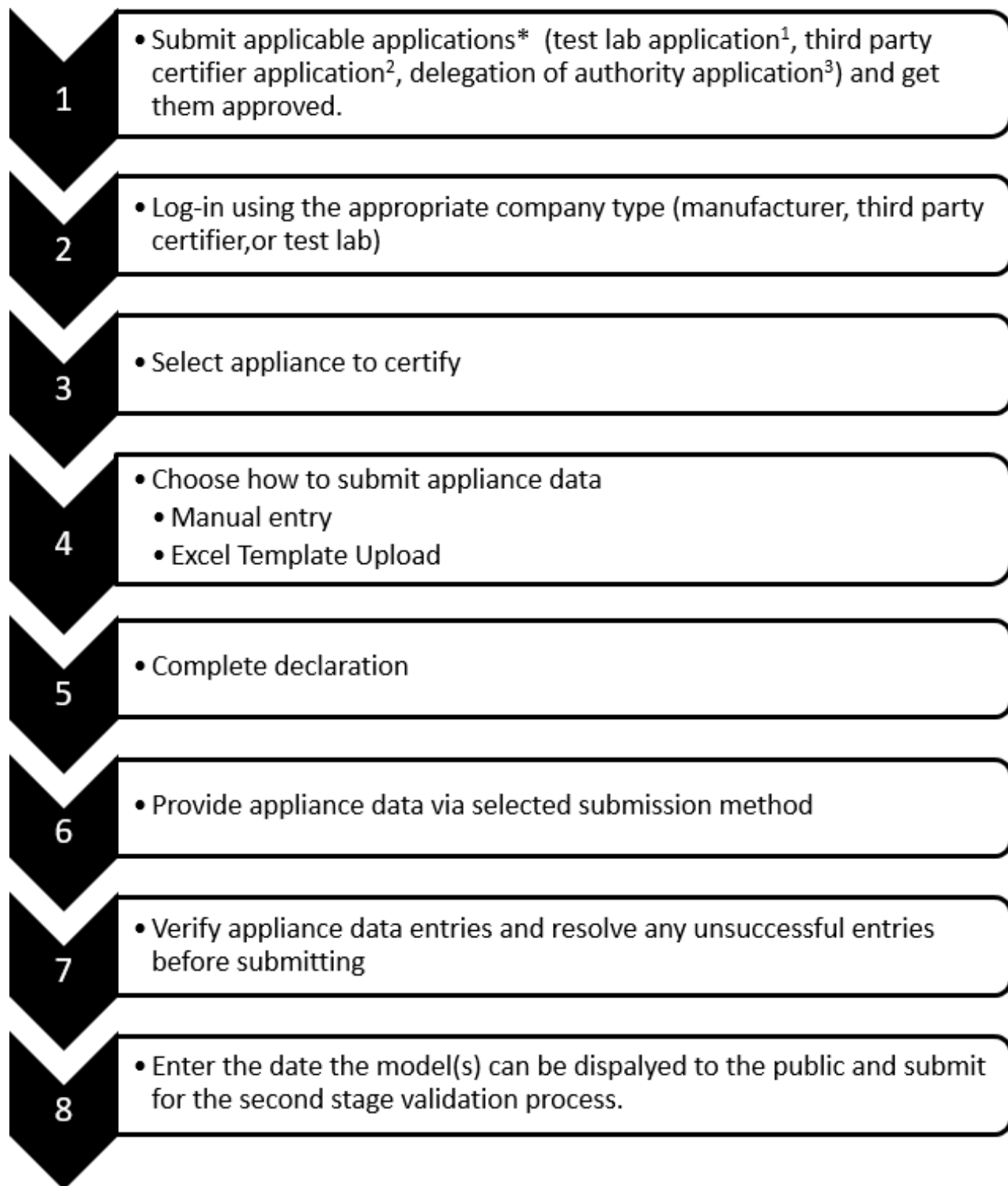
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Process Overview of Submitting Appliance Data using MAEDbS (1st Stage)



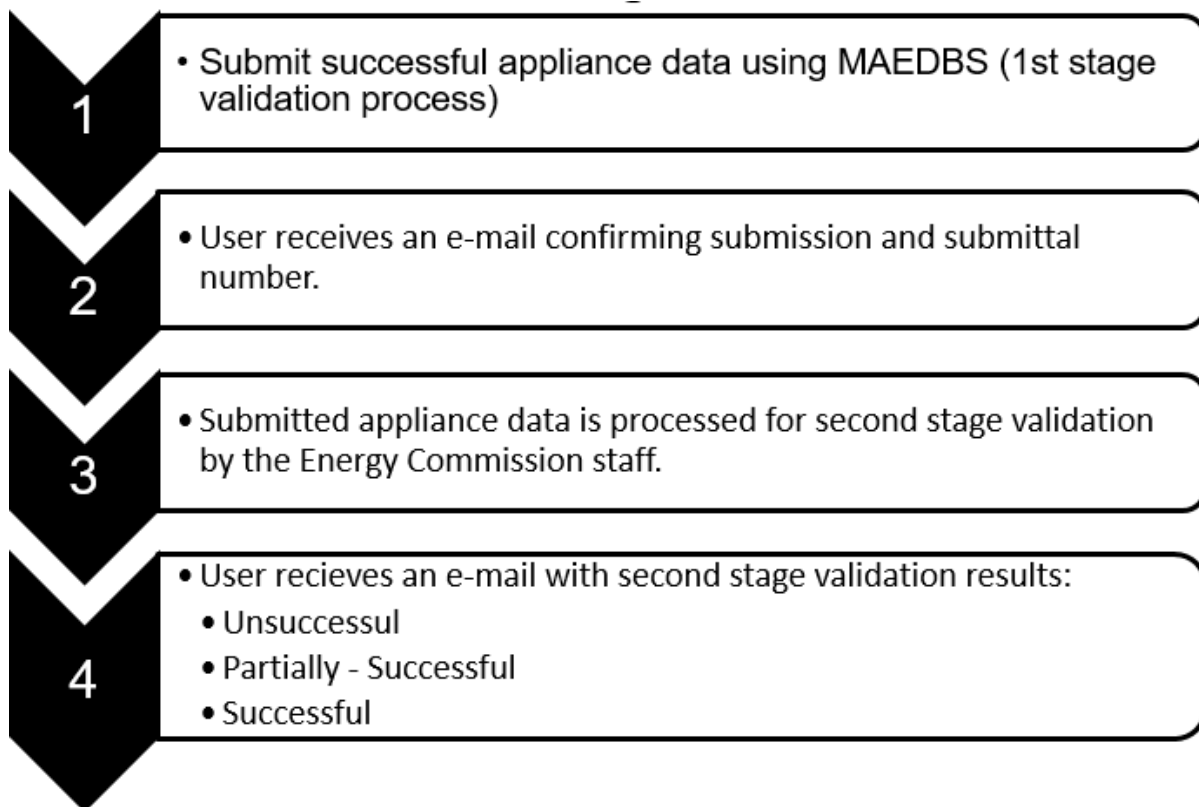
¹The CEC must list a test laboratory before appliance data gathered by them may be certified. To do this the test lab must complete the test laboratory application.

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 Desktop, Thin Client, & Mobile Gaming System Computers (DESK) 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
1	Action	Manufacturer	Brand	ModelNumber	RegulatoryStatus	SmallVolumeManufacturer	ComputerType	ExpandabilityScore	OperatingSystemType	OperatingSystem	MotherboardModelNumber	CoreSpeed	NoOfCPUCores	CPU4ChanMemOr256BitOrGreaterMemInt	NoOf35HDDsandOtherDrives	NoOf25HDDs	NoOfSSDs	NoOfHybridSSDs	DiscreteGPU	1stDiscreteGPUOnCPUSubstrate	1stDiscreteGPUFrameBufferWidth	NoOfDiscreteGPUs	IntegratedDisplay	NoOfIntegratedScreens	ColorGamut	DiagonalScreenSize	ViewableScreenArea	Resolution	EnhancedPerformanceDisplay	Screen2_ColorGamut	Screen2_DiagonalScreenSize	Screen2_ViewableScreenArea	Screen2_Resolution	Screen2_EnhancedPerformanceDisplay
2																																		
3																																		
4																																		
5																																		
6																																		
7																																		

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

Appliance data submitted to 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 500 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.

Desktops, Thin Clients, & Mobile Gaming Systems

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

*Action

Please Select ▼

*Model Number

Manufacturer

Add Date

Brand

Please Select ▼

New Brand

*Regulatory Status

Please Select ▼

Small Volume Manufacturer

None ▼

Computer Type

Please Select ▼

Expandability Score

Operating System Type

Please Select ▼

Operating System

Motherboard Model Number

Core Speed (Gigahertz)

Number Of CPU Cores

CPU Support For 4 Or More Channels Of Memory Or A 256 Bit Or Greater Memory Interface

None ▼

Number Of 3.5" Hard-Disk Drives And Others (Other Than Main Storage)

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 Desktop, Thin Client, & Mobile Gaming System Computers appliance type only. Please read all these instructions carefully.

Manual Entry Field Title [Excel Template Heading]: E:

Excel template specific instructions

M: manual entry specific instructions

- **Action [Action]:**

E: Enter the appropriate code for the action you are performing.
Other entries not shown below will be unsuccessful.

M: Select from the dropdown menu using the options below.

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[A] - Add

[D] - Delete

[C] - Change

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

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.

- **Regulatory Status [RegulatoryStatus]:**

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

M: Select from the dropdown menu using the option below.

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[N] - Non-Federally Regulated

- **Small Volume Manufacturer**

[SmallVolumeManufacturer]:

E: Enter the appropriate code representing whether or not the computer was made by a small volume manufacturer. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] - The computer was made by a small volume manufacturer.

[F] - The computer was not made by a small volume manufacturer

- **Computer Type [ComputerType]:**

E: Enter the appropriate code representing the type of the computer being certified. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[DE] - Desktop Computer

[TC] - Thin Client

[MG] - Mobile Gaming System

- **Expandability Score [ExpandabilityScore]:**

Enter the computer expandability score as determined using the scoring criteria in Table V-1 of Section 1604 in the Appliance Efficiency Regulations. Enter a numeric value and report it as a whole number.

- **Operating System Type [OperatingSystemType]:**

E: Enter the appropriate code representing the type of operating system for the unit. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[L] - Limited Capability

[O] - Other (Full Capability)

[N] - None

- **Operating System [OperatingSystem]:**

If the model is sold with a limited capability operating system or is not sold with an operating system, enter the name of the operating system used during the test.

Enter the name of the operating system. The name of the operating system can have a maximum of fifty (50) characters. Do not include information that is not part of the operating system name.

- **Motherboard model number [MotherboardModelNumber]:**

Enter the model number of the computer's motherboard. Motherboard model numbers can have a maximum of fifty (50) characters. Do not include information that is not part of the model number.

- **Core Speed (gigahertz) [CoreSpeed]:**

Enter the core speed (or base processor core frequency), in gigahertz. The value can be reported up to two (2) decimal places.

- **Number of CPU Cores [NoOfCPUCores]:**

Enter the number of processing cores for the unit. Enter a numeric value and report it as a whole number.

- **CPU Support for 4 or more channels of memory or a 256 bit or greater memory interface**

[CPU4ChanMemOr256BitOrGreaterMemInt]:

E: Enter the appropriate code representing whether or not the CPU has support for 4 or more channels of memory or a 256 bit or greater memory interface. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – CPU and motherboard support 4 or more channels of memory with 8 GB or more of compatible system memory installed, or 8 GB or more of system memory are installed on a 256 bit or greater memory interface

[F] – CPU and motherboard do not support 4 or more channels of memory with 8 GB or more of compatible system memory installed, and do not have 8 GB or more of system memory installed on a 256 bit or greater memory interface

- **Number of 3.5" hard-disk drives and Others (other than main storage)**
[NoOf35HDDsandOtherDrives]:

Enter the number of 3.5" hard-disk drives and "Other" types (not 3.5" HDD, 2.5" HDD, SSD, or hybrid SSD) of storage drives (not including the main storage). Enter a numeric value and report it as a whole number. If there are no 3.5" hard-disk drives (not including the main storage), please enter a zero.

- **Number of 2.5" hard-disk drives (other than main storage)**
[NoOf25HDDs]:

Enter the number of 2.5" hard-disk drives (not including the main storage). Enter a numeric value and report it as a whole number. If there are no 2.5" hard-disk drives (not including the main storage), please enter a zero.

- **Number of solid-state drives (other than main storage) [NoOfSSDs]:**

Enter the number of solid-state drives (not including the main storage). Enter a numeric value and report it as a whole number. If there are no solid-state drives (not including the main storage), please enter a zero.

- **Number of hybrid solid-state drives (other than main storage) [NoOfHybridSSDs]:**

Enter the number of hybrid solid-state drives (not including the main storage). Enter a numeric value and report it as a whole number. If there are no hybrid solid-state drives (not including the main storage), please enter a zero.

- **Discrete GPU(s) present in system [DiscreteGPU]:**

E: Enter the appropriate code representing whether or not there is a discrete GPU present in the system. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – A discrete GPU is present in the system

[F] – A discrete GPU is not present in the system

- **First Discrete GPU is packaged on the same substrate as the CPU [1stDiscreteGPUonCPUsubstrate]:**

If the model has a discrete GPU, this field is voluntary and may be left blank. If no discrete GPU is present in the system, this field should be left blank.

E: Enter the appropriate code representing whether or not the first discrete GPU is packaged on the same substrate as the CPU. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – The first discrete GPU is packaged on the same substrate as the CPU

[F] – The first discrete GPU is not packaged on the same substrate as the CPU

- **First Discrete GPU Frame Buffer Bandwidth (rounded to nearest gigabyte per second) [1stDiscreteGPUFrameBufferBwidth]:**

If the model has a discrete GPU, this field is required. Otherwise, it should be left blank.

Enter the frame buffer bandwidth of the first discrete GPU, in gigabytes per second. Enter a numeric value and report it to the nearest whole number.

- **Total Number of Discrete GPUs [NoOfDiscreteGPUs]:**

If the model has a discrete GPU, this field is required. Otherwise, it should be left blank.

Enter the total number of discrete GPUs. Enter a numeric value and report it as a whole number.

- **Integrated Display [IntegratedDisplay]:**

E: Enter the appropriate code representing whether or not there is an integrated display present in the system. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – An integrated display is present in the system

[F] – An integrated display is not present in the system

- **Number of integrated screens [NoOfIntegratedScreens]:**

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Note: If the computer has more than two integrated screens, please email us at Appliances@energy.ca.gov.

Enter the total number of integrated screens for the computer. Enter a numeric value and report it as a whole number.

- **Color Gamut (if computer has integrated display) [ColorGamut]:**

If the model has an integrated display, this field is required. Otherwise, it should be left blank.

E: Enter the appropriate code representing the color gamut of the integrated display present in the system. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[A] ≤ 32.9% of CIELUV

[B] > 32.9% of CIELUV (99% or more of defined sRGB colors)

[C] > 38.4% of CIELUV (99% or more of defined Adobe RGB colors)

- **Diagonal screen size (inches) (if computer has integrated display) [DiagonalScreenSize]:**

If the model has an integrated display, this field is required. Otherwise, it should be left blank.

Enter the diagonal screen size of the computer's integrated display, in inches. The value can be reported up to one (1) decimal place.

- **Viewable screen area (square inches) (if computer has integrated display) [ViewableScreenArea]:**

If the model has an integrated display, this field is required. Otherwise, it should be left blank.

Enter the viewable screen size of the computer's integrated display, in square inches. Enter a numeric value and report it to the nearest whole number.

- **Resolution (megapixels) (if computer has integrated display) [Resolution]:**

If the model has an integrated display, this field is required. Otherwise, it should be left blank.

Enter the resolution of the computer's integrated display, in megapixels. The value can be reported up to one (1) decimal place.

- **Enhanced Performance (if computer has integrated display) [EnhancedPerformanceDisplay]:**

If the model has an integrated display, this field is required. Otherwise, it should be left blank.

E: Enter the appropriate code representing whether or not the computer has an enhanced performance integrated display. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – An enhanced performance integrated display is present in the system

[F] – An enhanced performance integrated display is not present in the system

- **Screen 2 Color Gamut (if computer has integrated display) [Screen2_ColorGamut]:**

If the model has two integrated displays, this field is required. Otherwise, it should be left blank.

E: Enter the appropriate code representing the color gamut of the 2nd integrated display present in the system. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[A] $\leq 32.9\%$ of CIELUV

[B] $> 32.9\%$ of CIELUV (99% or more of defined sRGB colors)

[C] $> 38.4\%$ of CIELUV (99% or more of defined Adobe RGB colors)

- **Screen 2 Diagonal screen size (inches) (if computer has integrated display) [Screen2_DiagonalScreenSize]:**

If the model has two integrated displays, this field is required. Otherwise, it should be left blank.

Enter the diagonal screen size of the computer's 2nd integrated display, in inches. The value can be reported up to one (1) decimal place.

- **Screen 2 Viewable screen area (square inches) (if computer has integrated display) [Screen2_ViewableScreenArea]:**

If the model has two integrated displays, this field is required. Otherwise, it should be left blank.

Enter the viewable screen size of the computer's 2nd integrated display, in square inches. Enter a numeric value and report it to the nearest whole number.

- **Screen 2 Resolution (megapixels) (if computer has integrated display) [Screen2_Resolution]:**

If the model has two integrated displays, this field is required. Otherwise, it should be left blank.

Enter the resolution of the computer's 2nd integrated display, in megapixels. The value can be reported up to one (1) decimal place.

- **Screen 2 Enhanced Performance (if computer has integrated display) [Screen2_EnhancedPerformanceDisplay]:**

If the model has two integrated displays, this field is required. Otherwise, it should be left blank.

E: Enter the appropriate code representing whether or not the computer has enhanced performance for the 2nd integrated display. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – The model's 2nd integrated display is an enhanced performance integrated display

[F] – The model's 2nd integrated display is not an enhanced performance integrated display

- **Model has Ethernet interface (T/F) [EthernetInterface]:**

E: Enter the appropriate code representing whether or not the model has an Ethernet interface. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – An Ethernet interface is present in the model

[F] – An Ethernet interface is not present in the model

- **Energy Efficient Ethernet Capability [EnergyEfficientEthernetCapability]:**

If the model has an Ethernet interface, this field is required. Otherwise, it should be left blank.

E: Enter the appropriate code representing whether or not the computer has

energy efficient Ethernet capability. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – Energy efficient Ethernet capability is present in the system

[F] – Energy efficient Ethernet capability is not present in the system

- **Total Number of Add-in Cards [NoOfAddInCards]:**

Enter the number of add-in cards (not including categories of cards such as Video Surveillance Cards or Wired Ethernet or Fiber Cards with a transmit rate of 10 GB/s or greater.) Enter a numeric value and report it as a whole number.

- **Video Surveillance Card [VideoSurveillanceCard]:**

If the model has at least one add-in card, this field is required. Otherwise, it should be left blank.

E: Enter the appropriate code representing whether or not the computer has a video surveillance card. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – A video surveillance card is present in the system

[F] – A video surveillance card is not present in the system

- **Total Number of Video Surveillance Cards [NoOfVideoSurveillanceCards]:**

If the model has at least one video surveillance card, this field can be filled

or left blank. Note: the number will be used to determine any applicable adders.

Enter the number of video surveillance cards. Enter a numeric value and report it as a whole number.

- **Wired Ethernet or Fiber Card with a transmit rate of 10 GB/s or greater [WiredEtherOr10GBsFibCardOrGreater]:**

E: Enter the appropriate code representing whether or not the computer has wired Ethernet or a fiber card with a transmit rate of 10 GB/s or greater. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – Wired Ethernet or a fiber card with a transmit rate of 10 GB/s or greater is present in the system

[F] – Wired Ethernet or a fiber card with a transmit rate of 10 GB/s or greater is not present in the system

- **Total Number of Wired Ethernet or Fiber Card with a transmit rate of 10 GB/s or greater [NoOfWiredEtherOr10GBsFibCardOrGreater]:**

If the model has at least one wired Ethernet or fiber cards with a transmit rate of 10 GB/s or greater, this field can be filled or left blank. Note: the number will be used to determine any applicable adders.

Enter the number of wired Ethernet or fiber cards with a transmit rate of 10 GB/s or greater. Enter a numeric value and report it as a whole number.

- **Wired Ethernet port with transmit rate above 1 Gb/s and less than 10 Gb/s (non Add-in card) [WiredEtherMoreThan1GBsLessThan10GBs]:**

E: Enter the appropriate code representing whether or not the computer has a wired Ethernet port with a transmit rate above 1 Gb/s and less than 10 Gb/s (non Add-in card). Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – The model has a wired Ethernet port with a transmit rate above 1 Gb/s and less than 10 Gb/s (non Add-in card)

[F] – The model does not have a wired Ethernet port with a transmit rate above 1 Gb/s and less than 10 Gb/s (non Add-in card)

- **Data transmission rate wired Ethernet port above 1 Gb/s less than 10 Gb/s (non Add-in card) (Gb/s) [TransmissionRateWiredEther]:**

If the model has a wired Ethernet port with a transmit rate above 1 Gb/s and less than 10 Gb/s (non Add-in card), this field is required. Otherwise, it should be left blank.

Enter the data transmission rate of the wired Ethernet port above 1 Gb/s and less than 10 Gb/s (non Add-in card). Enter a numeric value and report it as a whole number.

- **System memory bandwidth (gigabytes/second) [SystemMemoryBandwidth]:**

Enter the sum of system memory bandwidth, in gigabytes per second, of all the system memory channels used. The value can be reported up to two (2) decimal places.

- **4 GB or more of system memory with a bandwidth greater than or equal to 146 GB/s (T/F) [4GBofSysMemBwidthGrtThanorEqTo146GBs]:**

Note: The “System Memory Bandwidth”, “Total Number of System Memory Channels Used”, and each individual channel’s information fields should reflect how this field is filled, whether it be True or False. Please see Appendix A of the [Computers, Monitors, & Signage Displays F.A.Q.s](#) found at our [Appliances Outreach & Education](#) webpage.

E: Enter the appropriate code representing whether or not the computer has 4 gigabytes or more of system memory with a bandwidth of 146 GB/s or greater. Other entries not shown below will be unsuccessful.

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

Acceptable Inputs:

[Code] - Manual drop down selection

[T] – The computer has 4 gigabytes or more of system memory with a bandwidth of 146 GB/s or greater

[F] – The computer does not have 4 gigabytes or more of system memory with a bandwidth of 146 GB/s or greater

- **Total Number of System Memory Channels Used**
[NoOfSysMemChannelsUsed]:

Note: The following 24 fields will be required or should be left blank in accordance with the number of system memory channels used. If the computer uses more than 8 memory channels, please email us at Appliances@energy.ca.gov.

Enter the total number of system memory channels used. Enter a numeric value and report it as a whole number.

- **First channel system memory type [1stChanSysMemType]:**

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[D] – DDR
[G] – GDDR
[H] – HBM
[O] – Other

- **First channel system memory bandwidth (gigabytes/second) [1stChanSysMemBwidth]:**

Enter the bandwidth for the first system memory channel, in gigabytes per second. The value can be reported up to two (2) decimal places.

- **First channel system memory (gigabytes) [1stChanSysMem]:**

Enter the amount of memory for the first system memory channel, in gigabytes. Enter a numeric value and report it to the nearest whole number.

- **Second channel system memory type [2ndChanSysMemType]:**

If the model has less than two system memory channels being used, this field should be left blank.

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[D] – DDR
[G] – GDDR
[H] – HBM
[O] – Other

- **Second channel system memory bandwidth (gigabytes/second) [2ndChanSysMemBwidth]:**

If the model has less than two system memory channels being used, this field should be left blank.

Enter the bandwidth for the second system memory channel, in gigabytes per second. The value can be reported up to two (2) decimal places.

- **Second channel system memory (gigabytes) [2ndChanSysMem]:**

If the model has less than two system memory channels being used, this field should be left blank.

Enter the amount of memory for the second system memory channel, in gigabytes. Enter a numeric value and report it to the nearest whole number.

- **Third channel system memory type [3rdChanSysMemType]:**

If the model has less than three system memory channels being used, this field should be left blank.

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[D] – DDR
[G] – GDDR
[H] – HBM
[O] – Other

- **Third channel system memory bandwidth (gigabytes/second) [3rdChanSysMemBwidth]:**

If the model has less than three system memory channels being used, this field should be left blank.

Enter the bandwidth for the third system memory channel, in gigabytes per second. The value can be reported up to two (2) decimal places.

- **Third channel system memory (gigabytes) [3rdChanSysMem]:**

If the model has less than three system memory channels being used, this field should be left blank.

Enter the amount of memory for the third system memory channel, in gigabytes. Enter a numeric value and report it to the nearest whole number.

- **Fourth channel system memory type [4thChanSysMemType]:**

If the model has less than four system memory channels being used, this field should be left blank.

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[D] – DDR
[G] – GDDR
[H] – HBM
[O] – Other

- **Fourth channel system memory bandwidth (gigabytes/second) [4thChanSysMemBwidth]:**

If the model has less than four system memory channels being used, this field should be left blank.

Enter the bandwidth for the fourth system memory channel, in gigabytes per second. The value can be reported up to two (2) decimal places.

- **Fourth channel system memory (gigabytes) [4thChanSysMem]:**

If the model has less than four system memory channels being used, this field should be left blank.

Enter the amount of memory for the fourth system memory channel, in gigabytes. Enter a numeric value and report it to the nearest whole number.

- **Fifth channel system memory type [5thChanSysMemType]:**

If the model has less than five system memory channels being used, this field should be left blank.

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[D] – DDR
[G] – GDDR
[H] – HBM
[O] – Other

- **Fifth channel system memory bandwidth (gigabytes/second)**

[5thChanSysMemBwidth]:

If the model has less than five system memory channels being used, this field should be left blank.

Enter the bandwidth for the fifth system memory channel, in gigabytes per second. The value can be reported up to two (2) decimal places.

- **Fifth channel system memory (gigabytes) [5thChanSysMem]:**

If the model has less than five system memory channels being used, this field should be left blank.

Enter the amount of memory for the fifth system memory channel, in gigabytes. Enter a numeric value and report it to the nearest whole number.

- **Sixth channel system memory type [6thChanSysMemType]:**

If the model has less than sixth system memory channels being used, this field should be left blank.

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[D] – DDR
[G] – GDDR
[H] – HBM
[O] – Other

- **Sixth channel system memory bandwidth (gigabytes/second)**

[6thChanSysMemBwidth]:

If the model has less than sixth system memory channels being used, this field should be left blank.

Enter the bandwidth for the sixth system memory channel, in gigabytes per second. The value can be reported up to two (2) decimal places.

- **Sixth channel system memory (gigabytes) [6thChanSysMem]:**

If the model has less than sixth system memory channels being used, this field should be left blank.

Enter the amount of memory for the sixth system memory channel, in gigabytes. Enter a numeric value and report it to the nearest whole number.

- **Seventh channel system memory type [7thChanSysMemType]:**

If the model has less than seven system memory channels being used, this field should be left blank.

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[D] – DDR
[G] – GDDR
[H] – HBM
[O] – Other

- **Seventh channel system memory bandwidth (gigabytes/second) [7thChanSysMemBwidth]:**

If the model has less than seven system memory channels being used, this field should be left blank.

Enter the bandwidth for the seventh system memory channel, in gigabytes per second. The value can be reported up to two (2) decimal places.

- **Seventh channel system memory (gigabytes) [7thChanSysMem]:**

If the model has less than seven system memory channels being used, this field should be left blank.

Enter the amount of memory for the seventh system memory channel, in gigabytes. Enter a numeric value and report it to the nearest whole number.

- **Eighth channel system memory type [8thChanSysMemType]:**

If the model has less than eight system memory channels being used, this field should be left blank.

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[D] – DDR
[G] – GDDR
[H] – HBM
[O] – Other

- **Eighth channel system memory bandwidth (gigabytes/second) [8thChanSysMemBwidth]:**

If the model has less than eight system memory channels being used, this field should be left blank.

Enter the bandwidth for the eighth system memory channel, in gigabytes per second. The value can be reported up to two (2) decimal places.

- **Eighth channel system memory (gigabytes) [8thChanSysMem]:**

If the model has less than eight system memory channels being used, this field should be left blank.

Enter the amount of memory for the eighth system memory channel, in gigabytes. Enter a numeric value and report it to the nearest whole number.

- **Computer sleep mode type [SleepModeType]:**

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[A] – ACPI S3

[O] – Other (Alternative Sleep Mode)

- **Length of time of user inactivity before computer entering sleep (minutes) [InactivityTimeBeforeCompSleep]:**

Enter the length of time of user inactivity before the computer enters sleep, in minutes. Enter a numeric value and report it to the nearest whole number.

- **Length of time of user inactivity before placing display into sleep (minutes) [InactivityTimeBeforeDisplaySleep]:**

Enter the length of time of user inactivity before the computer places a connected display into sleep, in minutes. Enter a numeric value and report it to the nearest whole number.

- **Computer off mode power (watts) [OffModePower]:**

If the model was made by a small volume manufacturer, this field may be left blank.

Enter the off-mode power, in watts. The value can be reported up to two (2) decimal places.

- **Computer sleep mode power (watts) [SleepModePower]:**

If the model was made by a small volume manufacturer, this field may be left blank.

Enter the sleep mode power, in watts. The value can be reported up to two (2) decimal places.

- **Long-idle power (watts) [LongIdlePower]:**

If the model was made by a small volume manufacturer, this field may be left blank.

Enter the long-idle power, in watts. The value can be reported up to two (2) decimal places.

- **Short-idle power (watts) [ShortIdlePower]:**

If the model was made by a small volume manufacturer, this field may be left blank.

Enter the short-idle power, in watts. The value can be reported up to two (2) decimal places.

- **Meets full capability mode weighting criteria [MeetsFullCapModeWeightCriteria]:**

Each unique model can meet only one mode weighting criteria (conventional, remote wake, or full capability). If neither the full capability nor remote wake mode weighting criteria is met, the model is implied to have met the conventional mode weighting criteria.

E: Enter the appropriate code representing whether or not the unit meets the full capability mode weighting criteria. Other entries not shown below will be unsuccessful.

M: Select the appropriate code from the dropdown menu of options below. Acceptable Inputs:

[Code] - Manual drop down selection

[T] – The computer meets the full capability mode weighting criteria

[F] – The computer does not meet the full capability mode weighting criteria

- **Meets remote wake mode weighting criteria [MeetsRemWakeModeWeightCriteria]:**

Each unique model can meet only one mode weighting criteria (conventional, remote wake, or full capability). If neither the full capability nor remote wake mode weighting criteria is met, the model is implied to have met the conventional mode weighting criteria.

E: Enter the appropriate code representing whether or not the unit meets the remote wake mode weighting criteria. If the unit meets the full capability mode weighting criteria, then use 'F' (False) for this entry. Other entries not shown

below will be unsuccessful.

M: Select the appropriate code from the dropdown menu of options below. Acceptable Inputs:

[Code] - Manual drop down selection

[T] – The computer meets the remote wake mode weighting criteria

[F] – The computer does not meet the remote wake mode weighting criteria

- **Power supply model number [PSUModelNumber]:**

This field is required for all models regardless of the power supply type.

Enter the model number of the computer's power supply. Power supply model numbers can have a maximum of fifty (50) characters. Do not include information that is not part of the model number.

- **Power supply type [PowerSupplyType]:**

E: Enter the appropriate code in the column that matches the unit's description. Other entries not shown below will result as an unsuccessful entry.

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

Acceptable Inputs:

[Code] - Manual Dropdown Selection

[I] – Internal

[E] – External

- **Internal power supply size (watts) [InternalPowerSupplySize]:**

If the computer has an internal power supply, this field is required. Otherwise, it should be left blank.

Enter the internal power supply size, in watts (if applicable). Enter a numeric value and report it to the nearest whole number.

- **Power Supply Meets Table V-9 or Level VI [PSUMeetsTableV9OrLevelVI]:**

Since these power supply requirements apply only to Servers, Workstations, and High Expandability Computers, “True” (T) or “False” (F) are both acceptable answers for this field.

E: Enter the appropriate code representing whether or not the Power supply meets Table V-9 or Level VI. Other entries not shown below will be unsuccessful.

M: Select the appropriate code from the dropdown menu of options below. Acceptable Inputs:

[Code] - Manual drop down selection

[T] – Power supply meets Table V-9 or Level VI

[F] – Power supply does not meet Table V-9 or Level VI

- **Power factor at full load of the computer’s PSU that is not a fed-regulated ext. PSU [PowerFactorAtFullLoadOfNonFedPSU]:**

If the model was made by a small volume manufacturer, this field may be

left blank.

Enter the power factor at full load of the computer's PSU (that is not a fed-regulated ext. PSU). The value can be reported up to two (2) decimal places.

- **Median power factor during short-idle of the computer's PSU that is not a fed-regulated ext. PSU [ShortIdleMedianPFactorOfNonFedPSU]:**

If the model was made by a small volume manufacturer, this field may be left blank.

Enter the median power factor during short-idle of the computer's PSU (that is not a fed-regulated ext. PSU). The value can be reported up to two (2) decimal places.

- **Nameplate output power of Ext. Power Supply (watts) (notebook comp., portable all-in-one, and mob. gaming systems only) [EPSNameplateOutputPower]:**

This field applies only to models with an external power supply. Otherwise, it should be left blank.

Enter the nameplate output power of the model's external power supply, in watts. Enter a numeric value and report it to the nearest whole number.

- **Total Batt. Cap. (watt-hours) (notebook comp., portable all-in-one, and mob. gaming systems only) [TotalBatteryCapacity]:**

This field applies only to models with a battery. Otherwise, it should be left blank.

Enter the total battery capacity, in watt-hours. Enter a numeric value and report it to the nearest whole number.

- **Total Annual Energy Consumption (kilowatt hours per year) [TotalAnnualEnergyConsumption]:**

If the model was made by a small volume manufacturer, this field may be left blank.

Enter the computer's total annual energy consumption, in kilowatt hours per year.
The value can be reported up to two (2) decimal places.

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**

The screenshot shows the MAEDBS Log In page. At the top is the California Energy Commission logo with the text "CA .GOV" and "CALIFORNIA ENERGY COMMISSION". The main heading is "MAEDBS Log In". Below this are two input fields: "*User ID * (Required)" and "*Password * (Required)". Below the password field is a checkbox labeled "I have read and agree to the Login Policy". Below the checkbox are two links: "Forgot your User ID?" and "Forgot your Password?". At the bottom of the login box is a "Sign In" button. To the right of the login box is a callout box with the text "1. Log in with registered account." Below the login box are three sections: "Don't have an account" with a "Register new account" button, "Public Search" with an "Appliance Search" button, and "3rd Party and Test Laboratory Approvals" with a "Search" button. At the bottom of the page is a footer with contact information: "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 type (if applicable) and continue to the next section.



CALIFORNIA ENERGY COMMISSION

Company Login

Company Type

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

- ☒ Manufacturer ☐ Test Lab ☐ 3rd Party Certifier



CALIFORNIA ENERGY COMMISSION

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:** Lighting Products
- **Appliance:** 2016-2025 JA8 High Efficacy Lighting
- **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

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

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 	Country Please Select ▼	Company Type Test Lab ▼	Appliance Type Residential Furnace Fan: ▼
Company Status Approved ▼	Approval Start Date 	Approval End Date 	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 Please Select ▼	Company Type Test Lab ▼	Appliance Type Residential Furnace Fan: ▼
Company Status Approved ▼	Approval Start Date 	Approval End Date 	Search

Search Results 1 record(s) found

Export To:

☐	Company	Type	Address1	City	State	Country
☒	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 Intertek Testing Service NA, Inc.				Search
Address 1 3933 US RT 11		Address 2 		
City Cortland	State NY	ZIP/Postal Code 13045	Country USA	
Company Website (URL) 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

☐	Name	Test Methods	
☐	Intertek Testing Service NA, Inc.	10 C.F.R. section 430.23(cc) (Appendix AA to Subpart B of part 430)	Add 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

☐	Name	Test Methods
No records found		
Add Delete		
☐ 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
		

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).

2016 & 2019 JAS High Efficacy Lighting Save Cancel

Instructions

- Key in appliance data according to associated fields in the input 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 C&C staff processing.
- Model data must first be processed by C&C prior to any submittals to change or delete previously submitted model data.
- [Delete codes are not accepted.](#)

*Action Please Select ▼	
*Model Number 	
Manufacturer 	Add Date
Brand Please Select ▼	New Brand
*Regulatory Status Please Select ▼	
Light Source Technology Please Select ▼	Product Type Please Select ▼
Connection Type Please Select ▼	Light Source Dimming Type Please Select ▼
Light Source Initial Efficacy (lumens/watt) 	Rated Correlated Color Temperature (CCT)
DUV 	Color Rendering Index
Color Rendering R9 	Start Time (milliseconds)
Power Factor 	Ambient or Elevated Temperature Test Please Select ▼
Rated life (hours) 	Lumen Maintenance After 6,000 Hour Test (percent)
Survival Rate After 6,000 Hour Test (percent) 	IES LM-B0 and TM-21 Projected L70 (Inoperable SSL luminaires only) (hours)
Minimum Dimming Level (percent) 	Audible Noise at 100% Light Output (dba)
Audible Noise at 20% Light Output (dba) 	Flicker - Percent Amplitude at 100% Light Output (percent)
Flicker - Percent Amplitude at 100% Light Output and 1000Hz Cutoff Frequency (percent) 	Flicker - Percent Amplitude at 100% Light Output and 400Hz Cutoff Frequency (percent)
Flicker - Percent Amplitude at 100% Light Output and 200Hz Cutoff Frequency (percent) 	Flicker - Percent Amplitude at 100% Light Output and 90Hz Cutoff Frequency (percent)
Flicker - Percent Amplitude at 100% Light Output and 40Hz Cutoff Frequency (percent) 	Flicker - Percent Amplitude at 20% Light Output (percent)
Flicker - Percent Amplitude at 20% Light Output and 1000Hz Cutoff Frequency (percent) 	Flicker - Percent Amplitude at 20% Light Output and 400Hz Cutoff Frequency (percent)
Flicker - Percent Amplitude at 20% Light Output and 200Hz Cutoff Frequency (percent) 	Flicker - Percent Amplitude at 20% Light Output and 90Hz Cutoff Frequency (percent)
Flicker - Percent Amplitude at 20% Light Output and 40Hz Cutoff Frequency (percent) 	Flicker - Percent Amplitude at Minimum Light Output (percent)
Flicker - Percent Amplitude at Minimum Light Output and 1000Hz Cutoff Frequency (percent) 	Flicker - Percent Amplitude at Minimum Light Output and 400Hz Cutoff Frequency (percent)
Flicker - Percent Amplitude at Minimum Light Output and 200Hz Cutoff Frequency (percent) 	Flicker - Percent Amplitude at Minimum Light Output and 90Hz Cutoff Frequency (percent)
Flicker - Percent Amplitude at Minimum Light Output and 40Hz Cutoff Frequency (percent) 	Marking Requirement Met (T/F) None ▼
Also Certified to MAEDbS as a Title 20 Appliance (T/F) None ▼	

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	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	1	California Energy Commission	A
Select	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	2	California Energy Commission	A
Select	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	3	California Energy Commission	A
Select	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	4	California Energy Commission	A
Select	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	5	California Energy Commission	A
Select	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	6	California Energy Commission	A
Select	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	7	California Energy Commission	A
Select	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	8	California Energy Commission	A
Select	☐	Add	Fans and Dehumidifiers	ResidentialFurnaceFans	9	California Energy Commission	A
Select	☐	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

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.

