

# Agenda – Afternoon Session

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## Afternoon Session: 1:00 – 2:30 pm

- Deemed Measure Property Data
- New Measure Updates
  - Deemed Strategy for Modified Lighting Calculator (Willdan)
  - Business Energy Reports (ICF)
- Meeting Wrap-up

## Meeting materials:

- [www.caltf.org](http://www.caltf.org) > TF Meeting Materials

# Deemed Measure Property Data



**CALIFORNIA**  
TECHNICAL FORUM

**AUGUST 25, 2022**  
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**CAL TF STAFF**

# Overview

- Issue and Opportunity
- *Draft* Statewide Process
- Next Steps

# Issue and Opportunity – Existing Process

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Deemed Measure Claims

*Implementer/Customer*



Product  
Catalog

Claim  
Package

*Program Administrator*

QA/QC  
Process

Verification /  
Eligibility  
Requirements

Submitted  
Claims

*CPUC/CEC*

Rejected or Request for  
Additional Information

# Product Catalog

Information extracted from eTRM's Characterization fields for:

- Program Requirements
- Program Exclusions
- Data Collection Requirements

## Business Rebate Catalog



### Commercial Ventilation

#### Variable Frequency Drives for HVAC Fans

##### Requirements:

- The variable frequency drive (VFD) must be applied to existing HVAC supply, return or exhaust air fan motors.
- VFD must be applied to HVAC applications in which there is a call for varying air flow demand. Motor speed shall be controlled to automatically adapt to varying air flow demand.
- VFDs must be applied to single-speed motors.
- Throttling devices, such as inlet vanes or bypass dampers, must be removed or permanently disabled.
- Installation must follow manufacturer's guidelines and instructions.
- Rebate only applies to the following building types: secondary schools, community colleges, universities, hospitals, hotels, nursing homes, large offices, multistory large retail and grocery. For building types that do not apply, rebates for Advanced Rooftop HVAC Controls may be applicable.
- Installation address must have a commercial electric account with PG&E.
- Rebate must be submitted within 60 days of purchase, install or account establishment, whichever is latest.

##### Exclusions:

- Rebates are not eligible for constant fan speed applications.
- HVAC fan motors less than 3 horsepower (hp) or greater than 100 hp are not eligible for this rebate. (For HVAC fan motors less than 3 hp, rebates for Advanced Rooftop HVAC Controls may be applicable.)
- Applications where variable speed fans are required by code are not eligible for this rebate.
- Applications on cooling tower fans are not eligible for this rebate.

##### Additional details:

- Place the VFD as close to the motor as possible (ideally less than 15 ft) when applying VFD to a standard duty NEMA motor. Failure to do so may result in premature motor failure.
- Maintain sufficient air flow through the motor to prevent overheating.
- Comply with the practices and requirements of ANSI/IEEE 519-2014.

Rebate Code	Description	Rebate/Unit Measure
U170	Variable Frequency Drive for HVAC Fan	\$/hp

# QA/QC Process

Example of  
Validation List Item:

Input Rating = “Fan  
motor rated power”

**eTRM**  
OFFICIAL SOURCE  
CA Energy Efficiency  
Measure Data

CHARACTERIZATION DEPENDENCIES SUPPORTING DATA

**ELIGIBLE PRODUCTS**

This measure requires the installation of a VSD and associated controls on a motor driving a ventilation fan. Eligibility requirements include:

- The fan motor rated hp must be  $\leq 100$  hp.
- As an *add-on equipment installation*, the VSD must be applied to the HVAC supply or return air system.

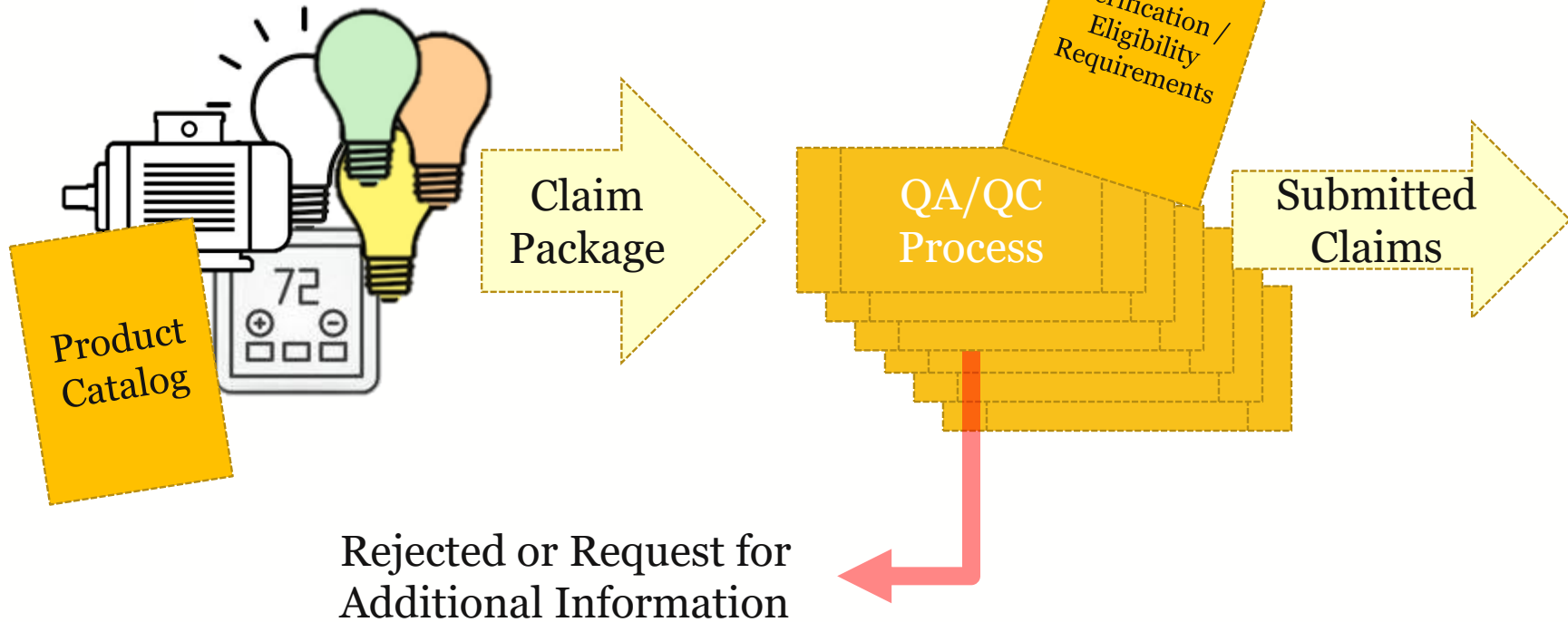
<b>Property Name</b>	Input Rating (HP)
<b>Property - Label</b>	Input rating (HP)
<b>Property - Installation - Control Type</b>	Numeric Value
<b>ValidationRule</b>	Must be $\leq 100$ hp
<b>Validation Checkpoint</b>	Inspections
<b>Validation Verification</b>	Photograph the nameplate of the HVAC Fan to capture the power rating, hp (if accessible); if the fan is inaccessible, inform the processor to verify the power rating via the manufacturer spec sheet
<b>Pass Criteria</b>	Use the nameplate power rating (hp) to validate what is listed in EECF; the power rating must be $\leq 100$ hp
<b>Alternate Validation Checkpoint</b>	QA Checklist
<b>Alternate Validation Verification</b>	Use photographs of the fan motor nameplate or manufacturer spec sheet to validate the power rating (hp) of the fan motor
<b>Alternate Pass Criteria</b>	The power rating of the fan must be $\leq 100$ hp

# Issue and Opportunity – Process

## *Consider Many Measure / Many Versions*

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Deemed Measure Claims

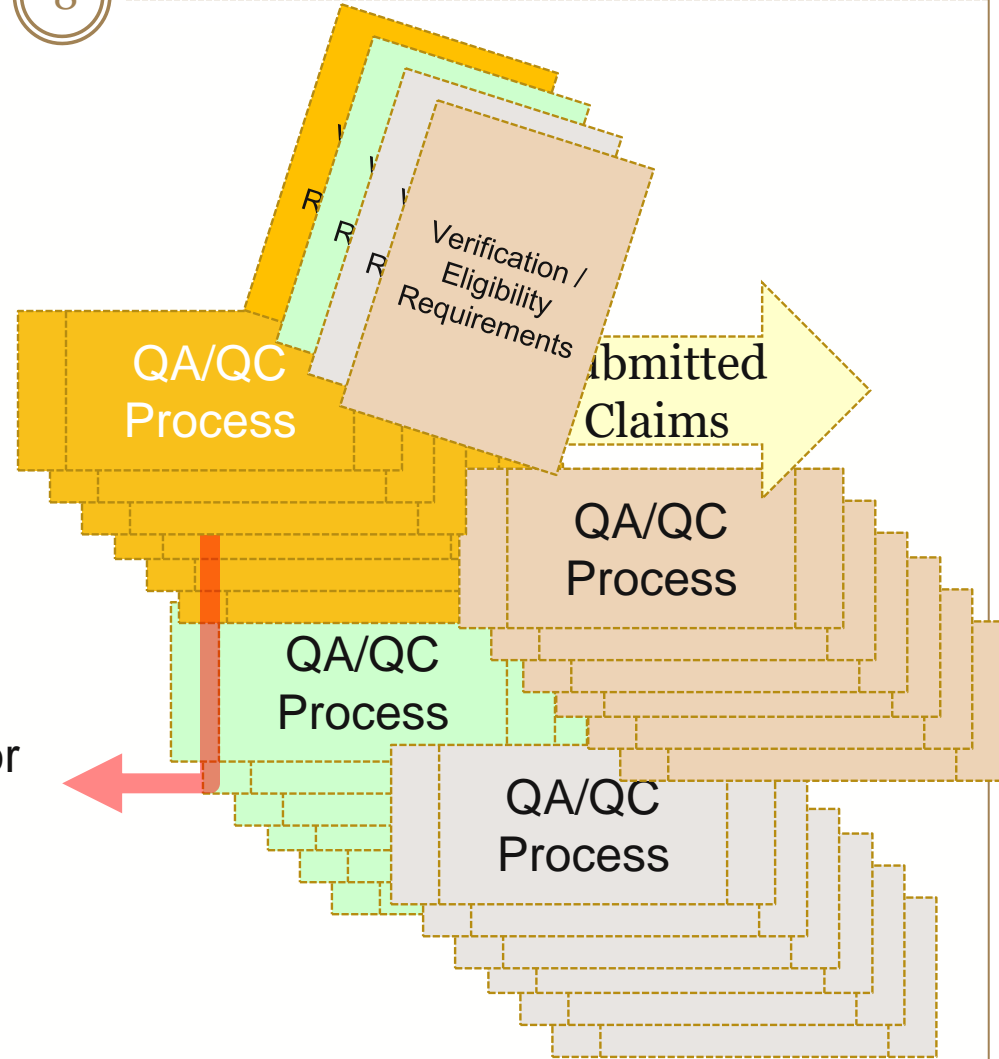
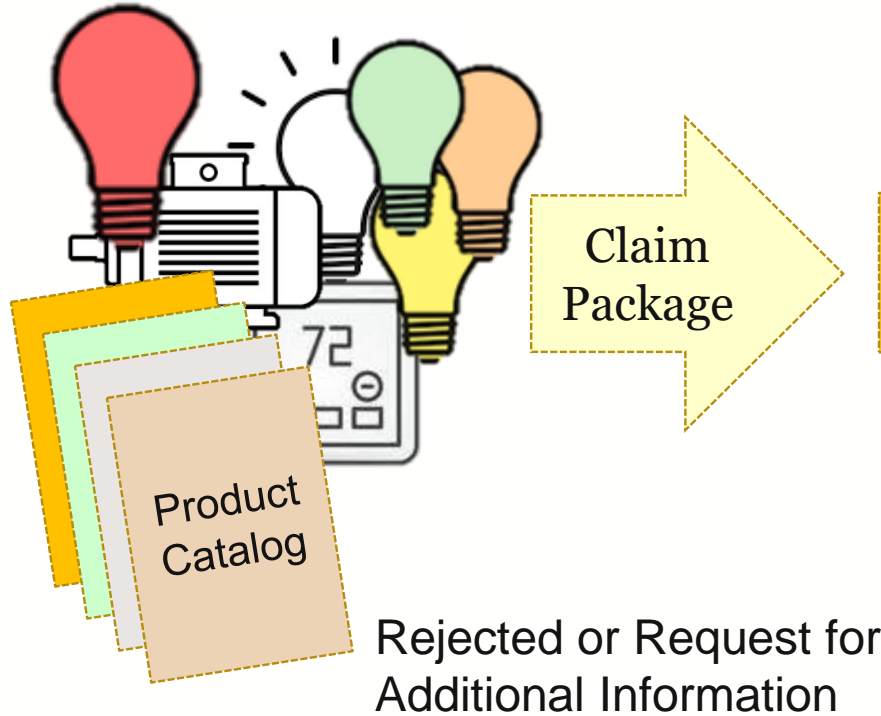


# Issue and Opportunity – Process

## *Consider Multiple PAs*

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Deemed Measure Claims



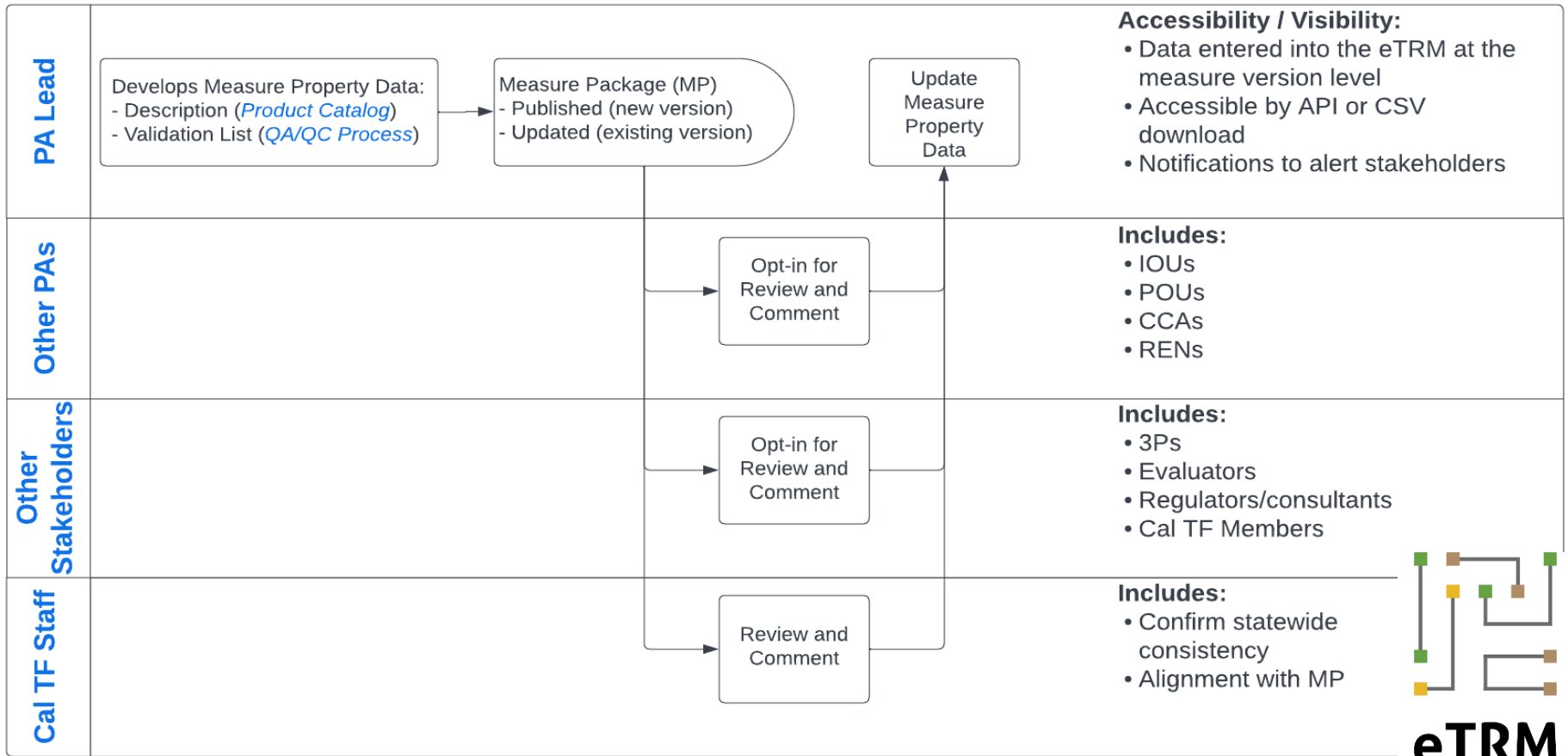
### Consider adding:

- 2 Large POUs
- CCAs and RENs
- 50+ Smaller POUs



# Draft Statewide Process

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**eTRM**

OFFICIAL SOURCE

CA Energy Efficiency Measure Data

# Next Steps

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- Creating a Memo on this approach
- Requesting feedback on the Memo to include:
  - Workflow / Timing
  - Visibility / Data Access
  - Scope of Stakeholder Review & Comment (within workflow)
- Focused short-term effort to catch-up
  - Establishing Measure Property Data Subcommittee
  - Goals:
    - ✦ Review/Comment on first drafts (*not creating Measure Property Data*)
    - ✦ Incorporate lessons learned from the early process

# Meeting Wrap-Up

- Next Meetings
  - Cal TF Meeting (Sept 22<sup>nd</sup>)
    - ✦ Afternoon session may be earlier than normal to avoid a conflict other meetings
  - Custom Charette (Oct 27<sup>th</sup>)
  - New Measure Screening Committee (Sept 15<sup>th</sup>, Oct 20<sup>th</sup>)
- Subcommittee Start-up
  - Custom (mid Sept)
  - New Measure (late Sept)
  - Measure Property Data (late Sept)
- Measure Property Data Memo (mid Sept)