**Measure Implementation Data Gathering Requirements & POE**

**SCE17HC028.1 – Brushless Fan Motor**

SCE offers the installation of Central brushless fan motors (BFM) as a drop in retrofit replacement for standard permanent split capacity (PSC) residential furnace fan motors. Retrofits are performed via direct install at no-cost to participants by trained and authorized HVAC contractors under contract to SCE.

Participants must have electricity distributed by SCE to the installation service address. Prior to performing retrofit, authorized contractors will verify that the following pre-requisites are met before the measure can be implemented:

* Unit must be operational as intended by the application and drawing power
* Unit and system must be capable of delivering a supply air flow rate of at least 350 cfm/ton
* Unit must have a condenser over ambient temperature (COAT) of at least 3 degrees
* The existing motor must be functional and operating as intended.
* Replacement motor must match capacity (hp) of existing motor and be commissioned to operate as intended, maintaining programmed level airflows under both cooling and/or heating.

The following residential building type are eligible:

* Single-family (SFM)
* Manufactured Homes (DMO), and
* Multifamily (MFM)

**Following describes data collection requirements for supporting all Early Retirement (ER) measures**

**Data Collection Requirements:**

1. **Existing HVAC System and Motor**
   * Motor type/class
   * Motor nameplate: Rated Output (HP); Volt; Full Load Amps (FLA); RPM
   * NEMA Nominal Efficiency
   * Voltage (Volt)/Amperage (Amps) at steady state condition
   * HVAC system volumetric flow rate (CFM)
2. **Upgraded HVAC System and Motor** 
   * Motor type/class
   * Motor nameplate: Rated Output (HP); Volt; Full Load Amps (FLA); RPM
   * NEMA Nominal Efficiency
   * Voltage (Volt)/Amperage (Amps) at steady state condition
   * HVAC system volumetric flow rate (CFM) at steady state condition

**Preponderance of Evidence (POE)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rubric |  |  |  |  |  |
|  | **Questions** | | | | |
| 1 | What was the condition of the existing HVAC motor prior to being replaced? | | | | |
| **Functional** | Functional with repairs | Condition Unknown | Functional with issues | **Not Functional and needed replacement** |
|  | 2 | 1 | 0 | -1 | -2 |
| 2 | The primary reason I agreed to replace my existing HVAC motor with an energy efficient motor was to save energy and reduce my electric bill. | | | | |
| **Agree Strongly** | Agree Somewhat | Neither Agree nor Disagree | Disagree Somewhat | **Disagree Strongly** |
| 2 | 1 | 0 | -1 | -2 |
| 3 | Without SCE’s energy efficiency program, I would have continued to use the existing motor in the normal operation of the HVAC system. | | | | |
| **Agree Strongly** | Agree Somewhat | Neither Agree nor Disagree | Disagree Somewhat | **Disagree Strongly** |
| 2 | 1 | 0 | -1 | -2 |
| 4 | Before learning about SCE’s program, I had no plans to replace the HVAC motor. | | | | |
| **Strongly Agree** | Agree Somewhat | Neither Agree nor Disagree | Disagree Somewhat | **Disagree Strongly** |
| 2 | 1 | 0 | -1 | -2 |
| 5 | Without the no-cost installation and energy savings information, I likely would have… | | | | |
| **Installed a new one at the same time** | Installed new one in less than one year | Installed a new one in more than a year | **Waited until it stopped working** | Not sure what I would have done |
| -2 | -1 | 1 | 2 | 0 |

|  |  |
| --- | --- |
| Add up the total score using the following points: | |
|          **Bold blue** = | 2 |
|          Non-bold blue = | 1 |
|          Black = | 0 |
|          Non-bold red = | -1 |
|          **Bold Red** = | -2 |

A 0 or positive total score demonstrates “preponderance of evidence” (POE) and shows that the project may also claim early retirement. A negative total score means the project does not meet POE and may not claim early retirement.