

<b>Install Standby Power Controllers – Audio Visual (AV); Residential Only</b>	<b>Activity No.</b>
	<b>SPC1</b>

## 1. ACTIVITY SPECIFIC DEFINITIONS

Approved laboratory test is a test approved by the Essential Services Commission of South Australia (the Commission), and in the absence of the Commission specifying an approved laboratory test is a test that meets the Essential Services Commission of Victoria published testing requirements. The Essential Services Commission of Victoria laboratory testing requirements are provided in the document “Explanatory Note- Laboratory Tests for Standby Power Controllers”, Version 1.2 – 8 October 2012, as amended from time to time, available at:  
[www.veet.vic.gov.au/Public/Public.aspx?id=Publications](http://www.veet.vic.gov.au/Public/Public.aspx?id=Publications)

Mains power switching device means a relay or other device that switches the power to the controlled appliances on or off

Master/slave arrangement means an arrangement where the standby power controller is connected to an uncontrolled master appliance, which’s current or power is solely used to control the electrical input to controlled appliances connected to the standby power controller

Advanced SPC means a product that meets the installed product requirements; and does not operate solely on the basis of a master/slave arrangement; and has been subjected to a field trial approved by the Essential Services Commission of Victoria.

Simple SPC means a product that meets the installed product requirements.

## 2. ACTIVITY DESCRIPTION (SUMMARY)

Install a standby power controller to automatically reduce the standby energy consumption of residential audio visual equipment.

## 3. ACTIVITY ELIGIBILITY REQUIREMENTS

This Activity can be undertaken in any residential household in South Australia where the minimum installation requirements can be met.

## 4. INSTALLED PRODUCT REQUIREMENTS

The standby power controller (AV) must meet the requirements of any applicable Australian Standard in force in respect of standby power controllers. In the absence of any applicable Australian Standard the standby power controller (AV) must, when tested in accordance with an approved laboratory test, be determined to be suitable for use in an audio visual environment and demonstrated to:

- (1) Be capable of controlling the power of at least 4 appliances (whether directly or indirectly);
- (2) Be fitted with a mains power switching device that is rated to a minimum of 50,000 switching cycles;
- (3) Have an electric power consumption of not more than 1 watt when tested in accordance with the laboratory test;

- (4) Automatically disconnect mains power from controlled appliances: (a) In the case of a product that relies on a master/slave arrangement – when the master appliance is turned off; (b) In the case of a product that relies on sensing infra-red signals from the remote controls of controlled appliances – after a period of time specified in the laboratory test when the product does not detect infra-red signals from those remote controls that are triggered by a user.
- (5) Automatically reconnect mains power to the controlled appliances only when: (a) in the case of a product that relies on a master/slave arrangement – when the master appliance is turned on; (b) in the case of a product that relies on sensing infra-red signals from the remote controls of controlled appliances – when any of the controlled appliances are operated by a user.
- (6) Be able, at the time of installation, to disconnect mains power from or reconnect mains power to controlled appliances without having to be set up to have those functions assigned to the operation of an existing appliance remote control; and
- (7) Not require manual setting of a current or power threshold.

## 5. MINIMUM INSTALLATION REQUIREMENTS

- (1) The standby power controller must be connected to at least 2 controlled appliances at the time of installation.
- (2) The total number of standby powers controllers (IT and AV) installed at a premises must not exceed 3.
- (3) Where it can be demonstrated that the occupants have changed at premises where standby power controllers were installed for the purposes of REES, a maximum of 3 further standby power controllers (IT and AV) may be installed at that premises.
- (4) The Commission must approve the manner of installation, and the form and manner of training (including on-going support) that must be provided to the residential customer, prior to the activity being undertaken.
- (5) A person or entity undertaking this activity shall use best endeavours to ensure any installations are targeted at high usage applications in the first instance.

## 6. ACTIVITY ENERGY SAVINGS

The normalised energy saved from this activity per unit installed is equal to:

Normalised Energy Savings (GJ) = The relevant Savings factor in the table below:

Activity Description – type installed	Savings Factor
Advanced SPC	<b>4.25</b>
Simple SPC	<b>2.13</b>