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Government of South Australia

Department for Energy and Mining

In reply please quote Doc: 2022D099152
Enquiries to George Nesic
Telephone 08 8429 3295

**ENERGY & TECHNICAL
REGULATION**

**OFFICE OF THE
TECHNICAL REGULATOR**

Mr Alex Marks
Director of Policy (Global)
Allume Energy PTY LTD
1/1 Bromham Place
RICHMOND VIC 3121

GPO Box 320
ADELAIDE SA 5001

Telephone: 08 8226 5500
Facsimile: 08 8226 5866
www.sa.gov.au/otr

Dear Mr Marks,

Re: Additional tests on electrical installations of the Allume Energy SolShare product in South Australia.

In addition to SA Power Networks Testing and Commissioning requirements for Embedded Generation connections, an additional 2 tests are required by the Office of the Technical Regulator (OTR); Refer to *SolShare additional OTR tests* attachment.

Our office will review the requirements of this letter in due course and may amend accordingly.

If you have any further queries, please contact me on (08) 8429 3314.

Yours sincerely

A handwritten signature in blue ink, reading "George Nesic", with a stylized flourish underneath.

George Nesic
Technical Standards and Safety Officer

5 October 2022



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SolShare additional OTR tests

The following 2 tests are to be conducted when the inverter energy system is exporting power:

	Failure mode description	Test Method
Test 1	The tails of a SolShare Current Transformer (CT) in a building meter board are disconnected from the SolShare; or the tails are cut inadvertently or deliberately by an Electrical Worker.	Removal of a CT tail at the SolShare. The PV inverter's anti-islanding protection needs to operate within 120 seconds of removal of the SolShare's CT tail. The test must be conducted on each phase, at least once, for each SolShare installed at the site.
Test 2	Electrical Worker isolates a single unit at the meter isolator without isolating solar supply to that unit beforehand. If the PV inverter does not shutdown there is risk of electric shock.	Open a single meter isolator. The PV inverter's anti-islanding protection must operate within 2 seconds. The test must be conducted on each phase, at least once, for each SolShare installed at the site.

The additional tests are to be witnessed by SA Power Networks personnel where applicable e.g., where SAPN attend site to witness commissioning and compliance testing.

The test results are to be recorded on the Electronic Certificate of Compliance by the commissioning electrical contractor / worker.

The electrical worker/s conducting the 'removal of CT' test, must follow applicable safe working procedures in accordance with relevant safe work Regulations.

The OTR tests are intended to simulate a random and partial test of the SolShare product during its normal operation. This does not exempt other more comprehensive testing from being carried out by the electrical installer, to ensure the SolShare product functions safely and as intended. The SolShare product must also be commissioned and tested in accordance with the manufacturer's instructions and AS/NZS 3000 *Wiring Rules*.

5 October 2022