



Attestation 702 1A and 2A

Attestation of Electric Storage Operation limited to and in compliance with NEC Section 702 and applicable provisions as outlined in Energy Storage Guidance 1 and 2 Documents

Purpose of Attestation

Historically Distributed Energy Resources (DER) were assembled from discrete components or functional assemblies where the logic and operational approaches could be seen and analyzed. Today, much of the functionality is handled by an on-board computer following firmware and software instructions in order to achieve the desired results. To determine these actions requires extensive detailed review of the operating manuals and often inquiries with the manufacturer. Attestations are used to affirm the desired functionality is present in lieu of extensive and time consuming documentation interconnection reviews. An update to the firmware which modifies or adds operation modes or changes the required functionality is considered a facility modification and subject to a partial or full interconnection review. This applies to all sources, whether generators or energy storage.

Guidance Document 1, configuration 1A energy storage is not capable of operating in parallel with the grid. The attestation allows interconnection of the energy storage device without an interconnection review. Guidance Document 2, configuration 2A energy storage is not capable of operating in parallel with the grid. The attestation allows interconnection of the energy storage portion without an interconnection review.¹ The renewable energy source portion of the facility, if present, must be reviewed and is subject to an Interconnection Agreement.

Definitions

"Parallel Operation of Energy Storage" — is considered a source operated in parallel with the grid when it is connected to the distribution grid and can supply energy to the customer simultaneously with the Company's supply of energy.

"Energy Storage Guidance Documents" — Guidance documents for the interconnection of electric storage based on agreed to terms from CO PUC Proceeding No. 15AL-0048.

Declaration

I, (print name and title of installer/developer) _____

declare that the electric storage system identified below complies with National Electric Code (NEC) section 702 for optional standby power and complies with the applicable provisions of Xcel Energy Storage Guidance Documents for systems that have no Parallel Operation of Energy Storage. (Applicable sections of the Energy Storage Guidance Documents are those addressing Guidance Document 1, configuration 1A or Guidance Document 2, configuration 2A.)

1. Applicable state or local safety inspections have been obtained, including specific inspection as to compliance to National Electric Code (NEC) Article 702 for optional standby power.

Installer/developer initials _____

2. System software and programming that is required to meet NEC section 702 and Energy Storage Guidance provisions are inaccessible and/or password protected, with access restricted to manufacturer/developer/installer. This may include locks or other physical security or other means of securing the settings; or as mutually agreed upon on a case-by-case basis and identified in this attestation.

Installer/developer initials _____

3. Xcel Energy has the right to conduct an inspection to verify compliance at a later date if problems arise or indications of possible non-compliance to NEC section 702 or the applicable Energy Storage Guidance Document provisions are present.

Installer/developer initials _____

Electric storage system details:

This attestation covers the following electric storage system in whole or part as identified below:

Energy storage equipment details

This attestation covers the following electric storage system in whole or part as identified below:

Customer information

Name _____

Address _____ City _____ State _____ ZIP _____

Phone _____ Fax _____

Email* (Optional) _____

*By providing your email address, you are granting Xcel Energy permission to send further emails regarding our programs and services.

¹ Example: If the storage portion is added later to an existing PV facility and complies with 2A, no review, with an attestation, or an Interconnection agreement is required.

Energy storage facility information

Facility name _____

Address _____ City _____ State _____ ZIP _____

Location _____ Premise _____

Customer ID _____

Energy storage equipment details**1. Battery type, part number**

Manufacturer	
Model numbers	
UL listings	
Energy capacity (kWh)	
Maximum current at AC terminals	
Frequency at AC terminals (Nominal)	
Real power, max continuous charge (kW)	
Real power, recovery charge rate after utility outage (kW)	
Real power, max continuous discharge (kW)	
Real power, peak output (kW)	
Peak output duration capability (Sec)	
Apparent power, max continuous for charging (kVA)	
Apparent power, peak during discharge (kVA)	
Peak output duration capability (Sec)	
Power factor output range (+/- range)	+/-
Power factor capability at full-rated real power (+/- range)	+/-
Charging: using rectifier or inverter	
Charge rate kW (Maximum continuous)	
Charge rate kW (Recovery charge rate)	
Firmware version	
Operating modes available	
Operating modes enabled	

2. Additional energy storage hardware: description, model and part number and general specifications.

Model numbers	
Model names	
UL listings	
Firmware version	

Signatures**Installer or developer**

I, (print name and title of installer/developer) _____

certify that I have personal knowledge of the facts stated in this Attestation and have the authority to make this Attestation on behalf of the customer.

I further certify that all of the statements and representations made in this attestation are true and correct.

Installer/developer signature _____ Date _____

Residential customers

I, (print name of customer) _____

authorize the above identified Installer/Developer to represent the declarations in this attestations on my behalf and will operate and maintain the system within the requirements set forth in this attestation for the life of the system.

Customer signature _____ Date _____

