

Inverter Approval Accepted by OESC

Distribution Company Awareness

The intent of this bulletin is to clarify ESAs permission to accept inverters certified to UL standard, UL 1741 SA (2016 or any subsequent revisions) if a customer installs grid support inverters as required by the Electrical Distributor.

Background

UL standard, UL 1741 was updated in 2016 to incorporate the new Supplement SA for “Grid Support Utility Interactive Inverters”.

Grid support inverters are inverters whose AC output is intended for use in parallel with an electric utility or other electricity supply authority network, whether the inverter injects net power into the utility or supply network or not and helps support system stability. Grid supporting invertors include advanced interconnection requirements such as to be able to ride through abnormal voltages/frequencies, and source/consume reactive power from Distributed Energy Resources.

ESA Direction

To support the LDC requirements, an inverter certified to UL 1741 SA (2016 or any subsequent revisions) and marked as “Grid support utility interactive inverter”, or equivalent, will be acceptable to ESA. This permission is an addition to accepting inverters approved to Canadian standard C22.2 No.107.1.

ESA Inspectors will not issue a defect and will provide connection authorizations for installed inverters certified to UL 1741 SA (2016 or any subsequent revisions), when grid supporting inverters are required by the Electrical Distributor.

This permission is effective October 1, 2020 and until further notice. ESA will be reviewing this permission when CSA standard C22.2 No.107.1 for inverters is revised to include provisions for “Grid Support Utility Interactive Inverters”.

Additional Information

For more information regarding “Distributed Energy Resources” and “Distributed Energy Resource Systems” as they relate to Regulation 22/04, please see the “Guideline for Distributed Energy Resources (DER)” within the “Utilities” section of ESA’s www.esasafe.com website.