



## Information Bulletin:

# BC Hydro Pad-Mounted Transformer Installation on Private Property

## 1.0 Items Covered

This bulletin contains revised and new construction standards for the installation of BC Hydro owned pad-mounted transformers on private property.

ES54	F3-06 R10	BC HYDRO TRANSFORMER PAD ON TOP OF SOIL ON PRIVATE PROPERTY INSIDE BUILDING ALCOVE
ES54	F3-07 R4	BC HYDRO PAD-MOUNTED TRANSFORMER ON PRIVATE PROPERTY NEXT TO CUSTOMER BUILDING
ES54	F3-08 R1	BC HYDRO TRANSFORMER ON TOP OF BUILDING SLAB ON PRIVATE PROPERTY OR INSIDE BUILDING ALCOVE

## 2.0 Overview

This bulletin contains new information regarding the installation of BC Hydro owned pad-mounted type transformers on private property. In particular, the new ES54 F3-08 standard was developed to meet the growing demand for the installation of pad-mounted transformers on top of a building slab. As explained previously, BC Hydro continues to implement an equipotential grounding practice for all construction standards and field verification of HV grounding consistent with IEEE80 and BCEC Section 36.

Based on experience over the past few years, BC Hydro distribution engineering has developed resident knowledge about distribution grounding and made a decision to carry out grounding evaluations and acceptable risk analysis internally. Accordingly, BC Hydro customers are no longer required to submit a stamped grounding report for HV grounding installations for BC Hydro pad-mounted equipment on private property.

The attached revised and new standards require the customer to submit the following documents to the BC Hydro Designer for the area:

- “Fall of Potential” field measurements carried out by an accredited technician;
- “Soil Resistivity” field measurements carried out by an accredited technician, and
- A “Contractor’s Declaration” signed by an accredited contractor.

Primary objectives of the new and improved process are to provide BC Hydro customers with significant savings, reduce the time-consuming data gathering from contractors and consultants and to speed up the issue of the final "Order to Energize".

Moreover, BC Hydro engineers will be undertaking the responsibility for evaluating the HV safety grounding and the risk analysis acceptable to BC Hydro.

### 3.0 Action

Effective July 1, 2018, the new and revised standards listed in Section 1.0 above, shall become mandatory.



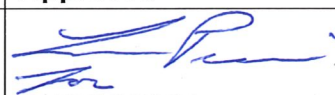
For projects in progress and scheduled for completion before July 1, 2018, HV safety grounding may be completed to comply with the current requirements per applicable standards. Alternatively, subject to agreement with a customer and BC Hydro designer, such projects may be completed to comply with the new and revised standards listed in Section 1 above.

For projects in progress and scheduled for completion after July 1, 2018, BC Hydro customers and their contractors shall comply with the new and revised standards listed in Section 1.0 above.

### 4.0 Distribution Standards Contact

Name: Mark Kelvin	email: <a href="mailto:mark.kelvin@bchydro.com">mark.kelvin@bchydro.com</a>
Phone #: 778-452-6844	Cell #: 604-220-3905

### 5.0 Approval

Recommended		Reviewed		Approved	
 M. KELVIN		 C. PICASSI		 F. DENNERT	
Date:	2018-02-28	Date:	2018-02-28	Date:	2018-02-28