

# ASP Safety Alert

## ASP Compliance and Practices



Alert Number: SA01\_19

15 February 2019

Subject: ABB Safelink RMU – Missing earth bond

### Key Messages

**ASP's must ensure that during the installation of a ABB Safelink RMU, an earth bond is installed between the switch unit and the earth bar on the support stand**

### Background

A number of Safelink RMU's have been identified to be missing (not installed) an earth bond, which connects the switch unit to the earth bar located on the support stand.

The body of the switchgear is connected to earth via the earthed frame, however, the earth switches and the switching tank are not connected to earth through a proven low impedance connection as per design requirements unless the bond is installed correctly.

If the bond is not installed correctly, hazardous situations may arise during switching and fault conditions. Additionally, the functionality of earth switches within RMU's with missing earth bonds cannot be guaranteed.



70mm Cu cable (Chamber installation)



Earth bar (KL installation)

### Actions

ASP's must ensure that prior to the completion of a pre electrification inspection, all earthing connections are installed and tightened correctly.

If the earth bond between the switching tank and the support stand earth bar is found to be missing, a 70mm Cu black PVC cable (chamber substations) or 50x6mm Cu bar (kiosk substations) must be installed.

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