

To whom it may concern

Under the Electricity Safety, Quality and Continuity Regulations (ESQCR) Scottish & Southern Electricity (SSEN) has a responsibility to protect its Electricity Supply equipment from flood events, to maintain Electricity Security.

Various SSEN Substations have been checked and surveyed to determine whether they are liable to flooding when analysed against a 1 in 100 and 1 in 1000-year flooding event as determined by the Environment Agency.

SSEN's Drakes Way Primary Substation at Garrards Way, Swindon has been identified as site at risk of flooding and has a history of flooding to varying levels, with the worst-case projection being circa 450mm above the existing switchroom floor.

The outdoor switchgear, control cabinets, transformer marshalling and tap change cubicles flood to varying levels though to date have survived.

An estimated worse case projection would be a Flood level circa 1145mm above current ground level.

It is proposed to overcome the problems by the construction of a new elevated switchroom within the existing site. In Phase 1 of the works (2019/2020) SSEN will replace all the existing outdoor and indoor switchgear, and all associated control and ancillary equipment with new equipment to be placed within the new elevated switchroom.

The existing 33/11kV Transformers also sit within the risk of flood area so these are to be replaced in new raised positions, surrounded by full height solid concrete bunds which will provide flood protection.

The elevated switchroom will be built on a Steel Frame and clad in Kingspan panels in a standard British Standard colour that is applied throughout the SSEN Region.

Regards,

Sahibzada Umer Design Engineer Network Rail Project Team

T: +44(0) 1753 695752 M: +44(0) 7384 538632

E: sahibzada.umer@sse.com

