



FORELL/ELSESSER ENGINEERS, INC.
Structural Engineers

July 21, 2016

William Maurer
Design Engineer
General Electric
41 Woodford Avenue
Plainville, CT 06062

Re: GE Enclosed Controls
ASCE 7-10, 2015 IBC, 2016 CBC, and IEEE-693-2005 Seismic and Special Seismic Certification

Mr. Maurer:

Forell/Elmesser has reviewed shake table test report 10277 prepared by Clark Testing Laboratory and dated October 2012, which summarizes testing for the GE Enclosed Controls. The testing was performed according to both the requirements of ICC-ES AC156 and IEEE-693-2005 and demonstrated that the equipment satisfied testing requirements for $I_p=1.5$, Site Class D, and $Z/h = 1.0$. In accordance with ASCE 7-10, which contains the seismic provisions of the 2015 International Building Code [IBC] and 2016 California Building Code [CBC], AC156 is an acceptable test procedure for determining the seismic certification of equipment. ASCE 7-10, Section 13.2.1.2.b allows for testing alone to be used to satisfy IBC and CBC seismic qualification requirements for electrical equipment.

Using AC156 procedures, F/E determined that the test results demonstrate the adequacy of the GE Enclosed Controls up to the attached peak ground seismicity of $S_{DS}=2.33g$. Therefore, F/E concludes that the test data demonstrates that the GE Enclosed Controls are certified for installation in accordance with the seismic provisions of the 2015 IBC and 2016 CBC for any site with a site-specific S_{DS} equal to or less than 2.33 g and at any location within a building. GE Enclosed Controls are seismically qualified to the IEEE-693-2005 high seismic level.

Should you any questions or need further information please do not hesitate to contact us.

Thank you.

Sincerely,

FORELL/ELSESSER ENGINEERS, INC.

Marco Scanu, SE #4454
Principal

