



**FORELL/ELSESSER ENGINEERS, INC.**  
Structural Engineers

July 21, 2016

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

Re: GE Safety Switches  
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 10282 prepared by Clark Testing Laboratory and dated October 2012, which summarizes testing for the GE Safety Switches. 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 Safety Switches up to the attached peak ground seismicity ( $S_{DS}$ ) in the table below. Therefore, F/E concludes that the test data demonstrates that the GE Safety Switches 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 or less than the attached  $S_{DS}$  table and at any location within a building.

<b>Spec Setter General Duty/ Heavy Duty/ Mill Duty/ Double Throw Safety Switches and EverGold Solar Duty Safety Switches</b>							
<b>NEMA Rating</b>	<b>Ampacity</b>	<b>Width</b>	<b>Depth</b>	<b>Height</b>	<b>Weight</b>	<b><math>S_{DS}(g)</math></b>	<b>IEEE-693 Seismic Level</b>
1/3R/5/12	30A - 100A	6"-10"	3"-5"	9"-17"	0 lbs - 13 lbs	2.71	High
	200A - 600A	13"-25"	5"-12"	28"-60"	0 lbs - 230 lbs	1.58	High
	800A - 1200A	30"-47"	10"-13"	52"-77"	0 lbs - 550 lbs	1.21	High
4/4X	30A - 600A	7"-25"	5"-8"	11"-60"	0 lbs - 215 lbs	1.22	High

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

