



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

March 26, 2014

Sirjan Xhurxhi  
Design Engineer  
General Electric  
41 Woodford Avenue  
Plainville, CT 06062

Re: GE Load Interrupter Switchgear  
ASCE 7-10, 2012 IBC, and IEEE-693-2005 Seismic and Special Seismic Certification

Forell/Elmesser has reviewed shake table test reports 5989 and 3380 prepared by Clark Testing Laboratory (formerly Astro Nuclear/Dynamics, Inc.) dated October 2000 and February 2014 respectively, which summarizes testing for the GE Load Interrupter Switchgear. 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,  $a_p=2.5$ ,  $R_p=6.0$ , and  $Z/h = 1.0$ . In accordance with ASCE 7-10, which contains the seismic provisions of the 2012 International Building Code [IBC], 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 all IBC seismic design requirements for electrical equipment.

Using AC156 procedures, F/E determined that the test results demonstrate the adequacy of the GE Load Interrupter Switchgear up to the peak ground seismicity ( $S_{DS}$ ) in the table below. Therefore, F/E concludes that the test data demonstrates that the GE Load Interrupter Switchgear are certified for installation in accordance with the seismic provisions of the 2012 IBC 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>BreakMaster Load Interrupter Switchgear</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>
600A-1200A	15"-40"	50"-60"	60"-127"	1,608 lbs max.	2.41	High

Notes:

1. Enclosures are indoor (NEMA-1) or outdoor (NEMA-3R) enclosures
2. Dimensions are for individual sections. Sections may be installed alone or bayed together.
3. The height does not include the top hat box 32" high, NEMA 3R units are 99", NEMA 1 units are 90"
4. All enclosures are rigid floor mounted

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

