



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

February 11, 2014

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

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

Forell/Elmesser has reviewed shake table test reports 10276, and 2346B-R Rev. 2 prepared by Clark Testing Laboratory and test report 46922-1 and 52868-1 prepared by Wyle Laboratories, which summarizes testing for the GE Panelboards. 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 Panelboards up to the peak ground seismicity ( $S_{DS}$ ) in the table below. Therefore, F/E concludes that the test data demonstrates that the GE Panelboards 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.

A-Series Lighting Panelboards						
Width	Ampacity	Depth	Height	Weight	$S_{DS}(g)$	IEEE-693 Seismic Level
8.75"-30"	100A-800A	5"-8"	25"-77"	266 lbs max.	2.50	High
6.5"-30"	100A-800A	5"-8"	25"-89"	310 lbs max.	2.15	High
6.5"-30"	100A-800A	5"-8"	25"-89"	368 lbs max.	1.54	High

Spectra, Integrated Submetering, & Gentower						
Width	Ampacity	Depth	Height	Weight	$S_{DS}(g)$	IEEE-693 Seismic Level
27"-44"	100A-1200A	11.5"-20"	65"-96"	800 lbs max.	2.50	High

Notes:

1. All enclosures are indoor (NEMA 1 and 2) or outdoor (NEMA 3R, 4, 12, 4X) enclosures.
2. All enclosures are rigid wall 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

