



FORELL/ELSESSER ENGINEERS, INC.
Structural Engineers

July 21, 2016

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

Re: GE Panelboards
ASCE 7-10, 2015 IBC, 2016 CBC 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 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 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 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.

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

