FORELL/ELSESSER ENGINEERS, INC.
Structural Engineers

July 22, 2016

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

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

Mr. Maurer:

Forell/Elsesser has reviewed shake table test report UB-SEESL-2013-01 prepared by the University at Buffalo and dated January 2013, which summarizes testing for the GE Spectra Busway. 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 structural and functional adequacy of the GE Spectra Busway up to the peak ground seismicity (S_{DS}) shown in the table below. Therefore, F/E concludes that the GE Spectra Busway units 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 that shown in the Seismic Parameters table below, at any location within a building.

Seismic Parameters				
Configuration	**Max. Support Spacing**	**z/h**	**S_{DS}**	**IEEE-693 Seismic Level**
Horizontal Trapeze-Mounted	10 ft	1.0	1.97	High
Horizontal Under-Mounted	10 ft	1.0	1.11	Moderate
Vertical	12 ft	1.0	1.97	High
	16 ft	1.0	1.11	Moderate

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

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