



FORELL/ELSESSER ENGINEERS, INC.
Structural Engineers

April 3, 2014

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

Re: GE Limitamp MV Motor Control Center
ASCE 7-10, 2012 IBC, and IEEE-693-2005 Seismic and Special Seismic Certification

Forell/Elmesser has reviewed shake table test report 47920-1 and 46293-1 prepared by Wyle Laboratories dated December 31, 2002 and August 11, 1997 respectively, which summarizes testing for the GE Limitamp MV Motor Control Centers. 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 Limitamp MV Motor Control Centers up to the peak ground seismicity of $S_{DS} = 1.84g$. Therefore, F/E concludes that the test data demonstrates that the GE Limitamp MV Motor Control Centers 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 1.84g and at any location within a building. GE Limitamp MV Motor Control Centers are seismically qualified to the IEEE-693-2005 high seismic level.

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

