



SPECIAL SEISMIC CERTIFICATION OF NON-STRUCTURAL
COMPONENTS AND SYSTEMS

IBC CERTIFICATE OF COMPLIANCE

Dynamic Certification Laboratories has qualified the listed units as CERTIFIED for seismic applications in accordance with the applicable codes listed below. The basis of this certification is through testing of the active and energized components per AC156. The seismic values are obtained from the Maximum Considered Earthquake Short Period Spectral Response Acceleration, Sds. For additional information see DCL Report No. 31272-1501b.

Approval for: IBC Special Seismic Certification of Non-Structural Components and Systems
Manufacturer: Cummins Power Generation, 1400 73rd Ave NE, OF143, Minneapolis, MN 55432
Product Line: Gas Gensets
Mounting Description: Rigid base mount

<i>Certified Units</i>											
Model	Power Rating	RPM	Max Weight ¹ (lbs)	INCLUDED SUBCOMPONENT TYPE						Sds (g), z/h=1	Unit
				Engine	Alternator (single or three phase)	Radiator	Enclosure	Chassis / Skid	Control / Connection		
C45 N6	45kW	1800	2,580	5.9-NA or 5.9-T	UC224D-G or UC274C-F	A048U087	Weather, SL1 or SL2	GG06-P1- SKID	PCC1.1	2.50	UUT 7
C50 N6	50kW	1800	2,600								Interpolated
C60 N6	60kW	1800	2,900								Interpolated
C70 N6	70kW	1800	2,870								Interpolated
C80 N6	80kW	1800	3,030								Interpolated
C100 N6	100kW	1800	3,170								UUT 8

¹Note: Maximum weight includes SL2 enclosure

<i>Seismic Test and Certification Parameters</i>								
Applicable Codes	Unit	S _{DS}	z/h	I _p	Aflx-H	Arig-H	Aflx-V	Arig-V
2012 IBC, ASCE 7-10, 2013 CBC, 2012 ICC AC156	UUT7, UUT8	2.50	1.0	1.5	4.00	3.00	1.67	0.67

Note: Certification also complies with the seismic requirements of prior IBC editions.

Mounting Description:

Each unit was rigid base-mounted to the shake table interface frame using four 5/8-inch diameter Grade 8 bolts. Photographs of the UUTs on the shake table are shown in Figures 1



Figure 1 - UUT7



Figure 2 - UUT8



Functionality

The unit was operational before and after shaking, and the unit was tested full of operating content. The structural integrity of the component attachment system and force-resisting systems was maintained.

Site and Project Requirements

It is the responsibility of the Structural Engineer of Record to:

1. Provide engineering for the anchorage and restraint of the unit
2. Validate Certification Design Parameters with actual site conditions
3. Provide engineering of all equipment support structures
4. Confirm component configuration

Certification Issued by: Dynamic Certification Laboratories

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