

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0444 **HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: **Cummins Power Generation** Manufacturer's Technical Representative: Vyshnav Raveendran Mailing Address: 1400 73rd AVE NE, Fridley, MN 55432 Telephone: (763) 574-5000 Email: Vyshnav.Raveendran@cummins.com **Product Information** Product Name: QSK95 Diesel Generator Sets Product Model Number(s): C3000 D6, C3000 D6e, C3250 D6, C3250 D6e, 3500 D6, C3500 D6e, and PCC3300 HMI **Product Category:** Emergency and Standby Power Systems 4 Product Sub-Category: Generators General Description: Diesel engine powered electrical generator sets, w/ controls, w/ and w/o radiator cooling system. Mounting Description: Floor mounted on external isolators. PCC 3300 HMI is rigidly floor mounted. Seismic enhancements made to the test units and/or modifications required to address Tested Seismic Enhancements: anomalies during the tests shall be incorporated into the production units. **Applicant Information** Applicant Company Name: VMC Group

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Contact Person: John Giuliano

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Email: john.giuliano@thevmcgroup.com

Title: President

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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)							
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Certification Method							
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3							
Other (Please Specify):							
OR CODE CO							
Testing Laboratory							
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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Seismic Parameters

Design Basis of Equipment or Components (Fp/Wp) = 4.5 (SDS=2.0, z/h=1.0), 1.80 (SDS=2.4, z/h=0)] Spring Isolated [1.5 (SDS=2.0, z/h=1.0), 1.08 (SDS=2.4, z/h=0)] Rigid

Sps (Design spectral response acceleration at short period, g) = 2.00 (z/h=1), 2.40 (z/h=0)

ap (Amplification factor) =

Rp (Response modification factor) = 2.0 (Spring Isolated); 6.0 (Rigid)

 Ω_0 (System overstrength factor) = 2.0

1.5 Ip (Importance factor) =

1 and 0 z/h (Height ratio factor) =

Natural frequencies (Hz) = See Attachment

See Attachment Overall dimensions and weight =

HCAI Approval (For Office Use Only) - Approval Expires on 01/31/2031

Date: 1/31/2025

Mohammad Karim Name: Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.0z/h =

Condition of Approval (if applicable):



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

Table 1 - Certified 60Hz Diesel Generator Set with Radiators

	Skid	Power		Dimensi	ional Data						z/h = 1	z/h = 0	
Model ⁽¹⁾	Type	Rating	•		•	Max Weight	Engine	Alternator	Radiator	Controller	$S_{DS}(g)$	$S_{DS}(g)$	UUT
	715	[kW]	[in]	[in]	[in]	[lbs]					DO(O)	B0(0)	
C3000 D6 /	P80	2500 - 3000	311	119	150	67,682					2.00	2.40	UUT-01
C3000 D6e ⁽¹⁾	DIG	2300 - 3000	305	119	150	74,060					2.00	2.40	Interpolated
C3250 D6 /	P80	2500 - 3250	322	125	150	70,218	Cummine	Cummins	Young	Cummins	2.00	2.40	Interpolated
C3250 D6e	DIG	2300 - 3230	341	125	150	79,807	Cullillins	Cultillins	Touchstone	Cultillins	2.00	2.40	Interpolated
C3500 D6 /	P80	2750 - 3500	322	125	150	70,107					2.00	2.40	Interpolated
C3500 D6e ⁽¹⁾	DIG	2730 - 3300	341	125	150	79,807					2.00	2.40	UUT-02

Table 2 - Certified 60Hz Diesel Generator Set without Radiators

l Claid l	Power			ional Data						z/h = 1	z/h = 0		
Model ^(1, 2)	Type	Rating [kW]	Max Length [in]	Max Width [in]	Max Height [in]	Max Weight [lbs]	Engine	Alternator	Radiator	Controller	S _{DS} (g)	$S_{DS}(g)$	UUT
C3000 D6 /	P80	2500 - 3000	239	82	118	56,218					2.00	2.40	Similar to UUT-01
C3000 D6e ⁽¹⁾	DIG		250	99	118	63,544					2.00	2.40	Interpolated
C3250 D6 /	P80	2500 - 3250	239	82	118 Vo	har56,218 K	Cummins	Cummins	N/A	Cummins	2.00	2.40	Interpolated
C3250 D6e	DIG	2300 - 3230	250	99	118	63,544	Cullillins	Cullillins	IN/A	Cullillins	2.00	2.40	Interpolated
C3500 D6 /	P80		239	82	118	56,218					2.00	2.40	Interpolated
C3500 D6e ⁽¹⁾	DIG	2750 - 3500	250	99	118	64,816					2.00	2.40	Similar to UUT-02

Table 3 - Certified PCC3300 HMI Pedestal Mounted

		Dimensions						
Model	Max Length [in]	Max Width [in]	Max Height [in]	Max Weight [lbs]	Manufacturer	$z/h = 1$ $S_{DS}(g)$	$z/h = 0$ $S_{DS}(g)$	UUT
PCC3300 HMI (Pedestal Mounted)	20	20	52	64	Cummins	2.00	2.40	UUT-03

Notes

- 1) The only differences between the "e" and non-"e" models is software.
- 2) Generator sets listed in Table 2 are identical to those listed in Table 1 except that they lack a radiator.
- 3) UUT-01 & UUT-02 are floor mounted on spring isolators.

Table 4 - Certified Subcomponents: Engine

Applicable Genset Models	Model Number	Max Weight [lbs]	Manufacturer	Optional Engine Features	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	QSK 95	29,321	Cummins	Duplex Fuel Filters Non-Duplex Fuel Filters Cartridge Lube Oil Filter DC Prelube Device Standard Electric Starter Redundant Electric Starter Coalescing Breather	UUT-01, UUT-02

Table 5 - Certified Subcomponents: Alternator

Applicable Genset Models	Model Number	Manufacturer	Material	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e /	S9 E			13,970	Extrapolated
C3250 D6 / C3250 D6e	P80 S			14,065	Extrapolated
	P80 T			14,992	Extrapolated
C3000 D6 / C3000 D6e /	S9 F			15,070	Extrapolated
C3250 D6 / C3250 D6e /	S9 G			17,086	Extrapolated
C3500 D6 / C3500 D6e	S9 H			18,078	Extrapolated
	P80 W			18,950	Extrapolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	P80 X		Carbon Steel	19,080	UUT-01
N/A	P80 Y	Cummins	Laminations	19,150	Interpolated
C3500 D6 / C3500 D6e	DIG C	Guillillis	and Copper	20,780	Interpolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	DIG D		Windings	21,510	Interpolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	DIG E			22,330	Interpolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	DIG F			24,760	Interpolated
C3500 D6 / C3500 D6e	DIG G			26,032	UUT-02

Table 6 - Certified Subcomponents: Radiator

Applicable Genset Models	Part Number	Core Size [ft²]	Material	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e /	A065K762 / A065K763 / A065K764 / A065K765	84	Copper Core	Young Touchstone	11,500	Interpolated
C3250 D6 / C3250 D6e /	A049E404	84	Carbon Steel Structure		11,500	UUT-01
C3500 D6 / C3500 D6e	A065K759	94	Carbon Steel Structure		13,140	Interpolated
	A048D643	94			13,140	UUT-02
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	A076E018	87	Copper Core Carbon Steel Structure	IEA	10,867 ¹	UUT-07a, 07b

¹⁾ A076E018 IEA Radiator weight includes isolator weight

Table 7 - Certified Subcomponents: Skid

Applicable Genset Models	Material	Skid Type	Part Number	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	Structural Carbon Steel -	P80	A047N790	Cummins	5,100	UUT-01
C3500 D6 / C3500 D6e /		DIG	A047Y181		9,000	UUT-02

Table 8 - Certified Subcomponents: Controller 31/2025

Applicable Genset Models	Model Number	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	PCC 3300	Cummins	250	UUT-01, UUT-02
C3500 D6 / C3500 D6e	PCC 3300 HMI ONLY, ON PEDESTAL	Cummins	65	UUT-03

Table 9 - Certified Subcomponents: Air Cleaner

Applicable Genset Models	Description	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	Normal Duty	Cumming	1,000	UUT-01
C3500 D6 / C3500 D6e	Heavy Duty	Cummins	1,400	UUT-02

²⁾ A076E018 IEA Radiator must be installed structurally independent from the rest of the generator set.

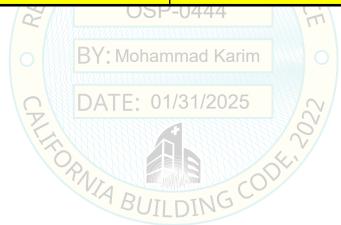
Table 10 - Certified Subcomponents: Power Distribution Boxes

Applicable Genset Models	Description	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	AC Distribution Box, A055K503	Cummins	26	UUT-05a, UUT-05b ¹
C3500 D6 / C3500 D6e /	DC Distribution Box, A062R012	Cumillins	84	UUT-04a,UUT-04b ¹

¹⁾ UUT-04 and UUT-05 tested in rigid wall and flexible wall configuration to certify the boxes to be mounted to the side of the genset. Newly tested boxes mount to the same location on the genset as tested in the full genset models UUT-01 and UUT-02.

Table 11 - Certified Subcomponents: Motor Starter

Applicable Genset Models	Model Number	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e /				
C3250 D6 / C3250 D6e /	M128	Prestolite	38	UUT-06a, UUT-06b
C3500 D6 / C3500 D6e				





UUT-1

CERL Test Report: VMA-49625-01E

Model Line Model Number		Manufacturer
3000-3500 kW QSK95 Gensets	C3000 D6	Cummins Power Generation

Product Construction Summary

Diesel powered electrical generator set 3000 kW. Carbon Steel base frame

Options / Subcomponent Summary

Engine: Cummins ; QSK 95, Alternator: Cummins ; P80X, Radiator: Young Touchstone ; A049E404, Skid: Cummins / A047N790, Controller: Cummins / PCC 3300, Air Cleaner: Cummins / Normal Duty

		FOR	CODECC	01				
		U	UT Properties	10,				
Weight	(4)	Dimensi	ons [in]		Lowe	st Nat. Freq	. [Hz]	
[lbs]	Length	Width		Height	F-B	S-S	V	
67,682	311.00	119.00 - 0444		150.00	3.3	3.2	6.7	
	UUT Highest Passed Seismic Run Information							
Building Code	Test <mark>Criter</mark> ia	BYSDSO	am z/h ad Karl	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2022	ICC-ES AC156	2.00	1.0 1	.5 3.20	2.40	-	-	
	ICC-E3 AC 130	2.40	01991/2021	.5 -	-	1.61	0.65	

Test Mounting Details

Unit is mounted to test fixture using (18) VMC M2SSHX-1E spring isolators. Isolators are welded to the fixture.





UUT-2

CERL Test Report: VMA-49625-01E

Model Line	Model Line Model Number			
3000-3500 kW QSK95 Gensets	C3500 D6	Cummins Power Generation		

Product Construction Summary

Diesel powered electrical generator set 3500 kW. Carbon Steel base frame

Options / Subcomponent Summary

Engine: Cummins / QSK 95 ; Alternator: Cummins / DIG G ; Radiator: Young Touchstone / A048D643 ; Skid: Cummins / A047Y181 ; Controller: Cummins / PCC 3300 ; Air Cleaner: Cummins / Heavy Duty

		FOR	CODEC	010				
		u	UT Properties	10/				
Weight	(4)	Dimens	ions [in]		Low	est Nat. Fred	ı. [Hz]	
[lbs]	Length	Width		Height	F-B	S-S	V	
79,807	341.00	125.00 - 0444		150.00	3.3	3.2	6.6	
	UUT Highest Passed Seismic Run Information							
Building Code	Test <mark>Criter</mark> ia	BYSDS	am z/h ad Kar	I _{PT} A _{FL}	X-H A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2022	ICC-ES AC156	2.00	1.0	1.5 3.2	2.40	-	-	
	ICC-E3 AC 130	2.40	01991/202	l.5 -	-	1.61	0.65	

Test Mounting Details

Unit is mounted to test fixture using (20) Caldyn RJEHD spring isolators. Isolators are welded to the fixture.





UUT-3

CERL Test Report: VMA-49625-01E

Model Line	Model Number	Manufacturer
HMI only on pedestal	PCC 3300 HMI	Cummins Power Generation

Product Construction Summary

ASTM A36 mild steel pedestal base, ASTM B221 6063 T-52 Aluminum pedestal upright, ASTM A569 mild steel HMI wrapper

Options / Subcomponent Summary

N/A

UUT Properties

Weight	Dimensions [in]				Lowest Nat. Freq. [Hz]			
[lbs]	Length	Width	Height	F-B	S-S	V		
66	20.00	20.00 - 0444	52.00	7.3	4.3	> 33.3		
HUT Highest Deced Criestic Dury Information								

UUT Highest Passed Seismic Run Information

Building Code	Test <mark>Criter</mark> ia	Systoh	am z/h ad	Karlm	A _{FLX-H}	A_{RIG-H}	A_{FLX-V}	\mathbf{A}_{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022		2.40	019.91/3	1.5		-	1.61	0.65

Test Mounting Details

Unit is mounted to test fixture using (4) M12 Grade 8 Bolts.





UUT-4a

DCL Test Report: 31632-2101; UUT-1a

Model Line	Model Number	Manufacturer
DC Distribution Box for QSK95 Gensets	A062R012	Cummins Power Generation

Product Construction Summary

Carbon Steel Enclosure and Mounting Brackets

Options / Subcomponent Summary

FOR CODE COA

Enclosure: Cummins; Mounting Brackets: Cummins

		L	JUT Propert	ies	9/			
Weight		Dimens	ions [in]			Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	W W	Width			F-B	S-S	V
84	8.25	21.50 - 044		4 34	1.25	N/A	N/A	N/A
	UUT	Highest Pas	sed Seismi	c Run Infor	mation			
Building Code	Test Criteria	BYSpsiol	ham z/h ad	Karlm	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
	100-E3 AC 130	2.40	01991/	2021.5	W ₅ ,	-	1.61	0.65

Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A043D580). Mounting brackets were fastened to the unit, via (8) anti-vibration mounts (PN# A045Y867), M8 bolts, and round washers. Unit was mounted to the wall fixture using (8) 3/8" Grade 5 bolts and (8) manufacturer provided bushings (PN# A052N277). Wall fixture attached directly to shake table.





UUT-4b

DCL Test Report: 31632-2101; UUT-1b

Model Line	Model Number	Manufacturer
DC Distribution Box for QSK95 Gensets	A062R012	Cummins Power Generation

Product Construction Summary

Carbon Steel Enclosure and Mounting Brackets

Options / Subcomponent Summary

Enclosure: Cummins; Mounting Brackets: Cummins

		FOR CODE	COA						
		UUT Properties							
Weight	(4)	Dimensions [in]		Lowe	st Nat. Freq	. [Hz]			
[lbs]	Length	Width	Height	F-B	S-S	V			
84	8.25	21.50 - 0444	34.25	N/A	N/A	N/A			
	UUT Highest Passed Seismic Run Information								
Building Code	Test <mark>Criter</mark> ia	BY Spslohamz/had k	arlen A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}			
CBC 2022	ICC-ES AC156	2.00 1.0	1.5 3.20	2.40	-	-			
	100-E3 AC 130	2.40 . 0.01/3	21.5	-	1.61	0.65			

Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A043D580). Mounting brackets were fastened to the unit, via (8) anti-vibration mounts (PN# A045Y867), M8 bolts, and round washers. Unit was mounted to the wall fixture using (8) 3/8" Grade 5 bolts and (8) manufacturer provided bushings (PN# A052N277). Wall fixture attached to shake table using (4) VMC Group MSSH-1E-530N external spring isolators.





UUT-5a

DCL Test Report: 31632-2101; UUT-2a

Model Line	Model Number	Manufacturer
AC Distribution Box for QSK95 Gensets	A055K503	Cummins Power Generation

Product Construction Summary

Carbon Steel Enclosure and Mounting Brackets

Options / Subcomponent Summary

Enclosure: Cummins; Mounting Brackets: Cummins

		FOR	CODE	COA				
		U	UT Properti	es				
Weight	(4)	Dimensi	ons [in]		4	Lowes	st Nat. Freq	. [Hz]
[lbs]	Length	Width		Height		F-B	S-S	V
26	5.75	10.50 - 044		4 21	.25	N/A	N/A	N/A
	UUT Highest Passed Seismic Run Information							
Building Code	Test <mark>Criter</mark> ia	BYSpsloh	am z/h ad	Karlm	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
GBG 2022	ICC-E3 AC 190	2.40	01991/2	21.5		-	1.61	0.65

Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A052V294 [top] and A053M862 [bottom]). Mounting brackets were fastened to the unit, via (4) anti-vibration mounts (PN# A043E678), M6 bolts, and round washers. Unit was mounted to the wall fixture using (7) 3/8" Grade 5 bolts and (7) manufacturer provided bushings (PN# A043U714). Wall fixture attached directly to shake table.





UUT-5b

DCL Test Report: 31632-2101; UUT-2b

Model Line	Model Number	Manufacturer		
AC Distribution Box for QSK95 Gensets	A055K503	Cummins Power Generation		

Product Construction Summary

Carbon Steel Enclosure and Mounting Brackets

Options / Subcomponent Summary

Enclosure: Cummins; Mounting Brackets: Cummins

		FOR CODE	COA					
		UUT Propertie	s					
Weight	141	Dimensions [in]		5	Lowe	st Nat. Freq	. [Hz]	
[lbs]	Length	Width	Heig	ght	F-B	S-S	V	
26	5.75	10.50 - 0.44	4 21.:	25	N/A	N/A	N/A	
	UUT Highest Passed Seismic Run Information							
Building Code	Test <mark>Criter</mark> ia	BY Soslohamz/had	Karlm	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2022	ICC-ES AC156	2.00 1.0	1.5	3.20	2.40	-	-	
ODO 2022	ICC-E3 AC 130	2.40	21.5	Wall	-	1.61	0.65	

Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A052V294 [top] and A053M862 [bottom]). Mounting brackets were fastened to the unit, via (4) anti-vibration mounts (PN# A043E678), M6 bolts, and round washers. Unit was mounted to the wall fixture using (7) 3/8" Grade 5 bolts and (7) manufacturer provided bushings (PN# A043U714). Wall fixture attached to shake table using (4) VMC Group MSSH-1E-530N external spring isolators.





UUT-6a

DCL Test Report: 19534-2201; UUT-4a, 5a

Model Line	Model Number	Manufacturer				
Motor Starter for QSK95 Gensets	M128	Prestolite				
Product Construction Summary						
Carbon Steel						

Options / Subcomponent Summary

N/A

		FOR	CODE	COA				
		U	UT Properti	es	0,			
Weight	(4)	Dimensi	ons [in]		6	Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	Width		Height		F-B	S-S	V
38	5.00	5.50P-044		4 15	5.50	N/A	N/A	N/A
	UUT	Highest Pas	sed Seismi	Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	BYSpslot	am z/h ad	Karlm	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CDC 2022	ICC-E3 AC 190	2.40	019-91/2	1.5		-	1.60	0.64

Test Mounting Details

Unit is mounted to a 1/4" thick steel mounting plate on the wall fixture with (3) 1/2" Grade 5 bolts. The wall fixture attached to the shake table with (12) Grade 5 M12 threaded rods.





UUT-6b

DCL Test Report: 19534-2201; UUT-4b, 5b

Model Line	Model Number	Manufacturer			
Motor Starter for QSK95 Gensets	M128	Prestolite			
Product Construction Summary					

Carbon Steel

Options / Subcomponent Summary

N/A

		FOR	CODE	COA				
		U	UT Properti	es				
Weight	(4)	Dimensi	ions [in]		6	Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	Width		Height		F-B	S-S	V
38	5.00	5.50P-044		4 15	5.50	N/A	N/A	N/A
	UUT	Highest Pas	sed Seismic	Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	BYSpslok	am z/h ad	Karlm	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CDC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022	100-E3 AC 130	2.40	049.04/0	1.5		-	1.60	0.64

Test Mounting Details

Unit is mounted to a 1/4" thick steel mounting plate on the wall fixture with (3) 1/2" Grade 5 bolts. The wall fixture attached to (4) VMC M2SSH-1E-530N isolators using (4) 3/4" Grade 5 threaded rods. The isolator base plate attached to the shake table with (16) Grade 5 M12 threaded rods.





UUT-7a

1.61

0.65

Clark Test Report: JID 24-01395-R; UUT-8a

Model Line	Model Number	Manufacturer		
Radiator for QSK95 Genset	A076E018	IEA		

Product Construction Summary

Copper core, carbon steel structure

Options / Subcomponent Summary

N/A

UUT Properties Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height ٧ F-B S-S 10,867 100.00 125.00 - 4 146.00 3.4 4.0 19.0 **UUT Highest Passed Seismic Run Information Building Code Test Criteria** SDS arler z/h A_{FLX-H} A_{RIG-H} A_{FLX-V} A_{RIG-V} 1.0 1.5 3.20 2.40 2.00 CBC 2022 ICC-ES AC156

0.0 **Test Mounting Details**

1.5

UUT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the equipment using (1) 3/4" Grade 8 bolt each, and were connected to the shake table using 3/8" fillet welds on all four sides.

2.40





UUT-7b

Clark Test Report: JID 24-01395-R; UUT-8b

Model Line	Model Number	Manufacturer		
Radiator for QSK95 Genset	A076E018	IEA		

Product Construction Summary

Copper core, carbon steel structure

Options / Subcomponent Summary

N/A

UUT Properties Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height ٧ F-B S-S 10,867 100.00 125.00 - 4 146.00 3.1 3.6 11.3 **UUT Highest Passed Seismic Run Information Building Code Test Criteria** SDS arlm z/h A_{FLX-H} A_{RIG-H} A_{FLX-V} A_{RIG-V}

 Building Code
 Test Criteria
 Sps of anz/had Karlen
 AFLX-H
 ARIG-H
 AFLX-V
 ARIG-V

 CBC 2022
 ICC-ES AC156
 2.00
 1.0
 1.5
 3.20
 2.40

 2.40
 0.0
 1.5
 1.61
 0.65

Test Mounting Details

UUT-7b was isolated using (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the equipment using (1) 3/4" Grade 8 bolt each, and were connected to the shake table using 3/8" fillet welds on all four sides.

