

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) X Type: New Renewal Manufacturer Information Manufacturer: **Cummins Power Generation** Manufacturer's Technical Representative: Vyshnav Reveendran 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 Product Sub-Category: Generators Diesel engine powered electrical generator sets, w/ controls, w/ and w/o radiator cooling system. General Description: Seismic enhancements made to the test units required to address anomalies observed during the tests shall be incorporated into the production units. Diesel powered elec gensets-floor mounted on external isolators. PCC 3300 HMI-floor mounted rigid Mounting Description: 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 Contact Person: John Giuliano Mailing Address: 113 Main St, Bloomingdale, NJ 07403 Telephone: (973) 838-1780 Email: john.giuliano@thevmcgroup.com

Title: President



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY 05/02/2025

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OSP-0444



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)								
Company Name:	THE VMC GROU	Р						
Name: Kenneth	Tarlow		California Lice	ense Number: S2851				
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Telephone: (832) 627-2214	En	nail: ken.tarlow@thevm	cgroup.com				
Certification M	ethod							
GR-63-Core	X IC	C-ES AC156	☐ IEEE 344	IEEE 693	NEBS 3			
Other (Pleas	e Specify):							
		E	RCODECO					
Testing Labora	ntory							
Company Name:	U.S. ARMY ENGI RESEARCH LAB			CENTER, CONSTRUCT	ION ENGINEERING			
Contact Person:	James Wilcoski	<u>II</u>	OSP-0444	6				
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Company Name:	CLARK TESTING	LABORATORY, I	NC. 05/02/2025					
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Telephone: (412	2) 387-1001	P/_En	nail: dlohr@clarktesting	j.com				
		VA	BUILDING					



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Seismic Parameters

Design Basis of Equipment or Components	sign Basis of Equipment or Components (Fp/Wp) = Spring Isolated: [4.5 (SDS=2.00, z/h=1.0), 1.80 (SDS=2.40, z/h=0)]; Rigid: [1.5 (SDS=2.00, z/h=1.0), 1.08 (SDS=2.40, z/h=0)]							
SDS (Design spectral response accel	eration at short period, g) = $2.00 (z/h=1), 2.40 (z/h=0)$							
ap (Amplification factor) =	2.5							
Rp (Response modification factor) =	2.0 (Spring Isolated); 6.0 (Rigid)							
Ω_0 (System overstrength factor) =	2.0							
lp (Importance factor) =	1.5							
z/h (Height ratio factor) =	1 and 0							
Natural frequencies (Hz) =	See Attachment							
Overall dimensions and weight =	See Attachment							
	NED MOL							

Date:	5/2/2025	A	USP-0444	1 [m]	
Name:	Timothy Piland		BY: Timothy J. Piland	Title:	Senior Structural Engineer
Special	Seismic Certification V	/alid <mark>Up to:</mark> SDS (g	g) = See Above	z/h =	See Above
Conditio	on of Approval (if applic	able):[DATE: 05/02/2025	N	
		LIFOR.	VIA BUILDING CO	DE	



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OSP-0444

	(1) Skid Power			Max Dimen	sional Data						z/h = 1	z/h = 0	
Model ⁽¹⁾	Туре	Rating [kW 1	Length [in]	Width [in]	Height [in]	Weight [lbs]	Engine	Alternator	Radiator	Controller	S _{DS} (g)	$S_{DS}(g)$	UUT
C3000 D6 /	P80 / S9		311	119	150	67,682					2.00	2.40	UUT-01
		2500 - 3000											
C3000 D6e ⁽¹⁾	DIG		305	119	150	74,060					2.00	2.40	Interpolated
C3250 D6 /	P80 / S9	2500 - 3250	322	125	150	70,218	Cummins	Cummins	Young	Cummins	2.00	2.40	Interpolated
C3250 D6e	DIG	2500 - 3250	341	125	150	79,807	Currinins	Cummus	Touchstone	Cummins	2.00	2.40	Interpolated
<u>C3500 D6</u> /	P80 / S9	2750 - 3500	322	125	150	70,107					2.00	2.40	Interpolated
C3500 D6e ⁽¹⁾	DIG	2750 - 5500	341	125	150	79,807					2.00	2.40	UUT-02

Table 1 - Certified 60Hz Diesel Generator Set with Radiators

Table 2 - Certified 60Hz Diesel Generator Set without Radiators

	Skid	Power		Max Dimen	sional Data						z/b - 1	z/h = 0	
Model ^(1, 2)	Туре	Rating [kW]	Length [in]	Width [in]	Height [in]	Weight [lbs]	Engine	Alternator	Radiator	Controller	S _{DS} (g)	$S_{DS}(g)$	UUT
<u>C3000 D6</u> / C3000 D6e ⁽¹⁾	<u>P80</u> / S9	2500 - 3000	239	82	118	56,218			imins N/A	Cummins	2.00	2.40	Similar to UUT-01
C3000 D66.7	DIG		250	99	B 118 im	o 63,544 P	- Cummins	Cummina			2.00	2.40	Interpolated
C3250 D6 /	P80/ S9	2500 - 3250	239	82	118	56,218					2.00	2.40	Interpolated
C3250 D6e	DIG	2500 - 5250	250	99	118	63,544	Cummus	Cummins	IN/A	Cummus	2.00	2.40	Interpolated
C3500 D6 /	P80 / S9		239	82	D/118 E.	56,218/2					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

Model				z/h - 1	z/h = 0	- 0		
	Length [in]	Width [in]	Height [in]	Weight [lbs]	-	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
<u>C3000 D6</u> / C3000 D6e / C3250 D6 / C3250 D6e / <u>C3500 D6</u> / 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 /	S9M1D-E4 / S9H1D-E4			13,970	Extrapolated
C3250 D6 / C3250 D6e	P80 S			14,065	Extrapolated
	P80 T			14,992	Extrapolated
	S9M1D-F4 / S9H <mark>1D-F</mark> 4			15,070	Extrapolated
C3000 D6 / C3000 D6e /	S9L1D-E4			16,394	Extrapolated
C3250 D6 / C3250 D6e /	S9M1D-G4 / S9H1D-G4			17,086	Extrapolated
C3500 D6 / C3500 D6e	S9L1D-F4			17,346	Extrapolated
	S9M1D-H4 / S9H1D-H4	Cummins		18,078	Extrapolated
	P80 W		Carbon Steel	18,950	Extrapolated
<u>C3000 D6</u> / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	P80 X		Laminations and Copper Windings	19,080	UUT-01
N/A	P80 Y		vindings	19,150	Interpolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	S9L1D-G4			19,216	Interpolated
C3500 D6 / C3500 D6e	DIG C			20,780	Interpolated
C3000 D6 / C3000 D6e /	DIG D			21,510	Interpolated
C3250 D6 / C3250 D6e /	DIG E			22,330	Interpolated
C3500 D6 / C3500 D6e	DIG F			24,760	Interpolated
<u>C3500 D6</u> / 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
<u>C3000 D6</u> / C3000 D6e /	A065K762 / A065K763 / A065K764 / A065K765	84	Coppor Coro		11,500	Interpolated
C3250 D6 / C3250 D6e /	A049E404	84	Copper Core Carbon Steel Structure	Young Touchstone	11,500	UUT-01
<u>C3500 D6</u> / C3500 D6e	A065K759	94			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

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

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	<u>P80</u> / S9	A047N790	Cummins	5,100	UUT-01		
C3500 D6 / C3500 D6e		DIG	A047Y181	Cummins	9,000	UUT-02		
() DATE: 05/02/2025								

Table 8 - Certified Subcomponents: Controller

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

Table 9 - Certified Subcomponents: Air Cleaner

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

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
<u>C3500 D6</u> / C3500 D6e /	DC Distribution Box, A062R012	Cummins	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

Арр	licable Genset Models	Model Number	Manufacturer	Max Weight [lbs]	UUT
Ca	8000 D6 / C3000 D6e / 3250 D6 / C3250 D6e / 3500 D6 / C3500 D6e	M128	Prestolite	38	UUT-06a, UUT-06b
		BY: Timothy DATE: 05/	/02/2025		



UNIT UNDER TEST (UUT) Summary Sheet

UUT-1

kW. Carbon Ste Options / Su mins ; P80X, Ra r: Cummins / No FOR UL Dimensio	ibcomponen adiator: Young	ne nt Summar	-		is Power Ge	neration
kW. Carbon Ste Options / Su mins ; P80X, Ra r: Cummins / No FOR UL Dimensio	eel base fram Ibcomponen adiator: Young	ne nt Summar	-			
kW. Carbon Ste Options / Su mins ; P80X, Ra r: Cummins / No FOR UL Dimensio	eel base fram Ibcomponen adiator: Young	ne nt Summar	-			
Options / Su mins ; P80X, Ra r: Cummins / No FOR UL Dimensio	ibcomponen adiator: Young	nt Summar	-			
mins ; P80X, Ra r: Cummins / No POR UL Dimensio	adiator: Young		-			
r: Cummins / No		g Touchsto	ne ; A049E4			
FOR UL Dimensio				04, Skid: Cu	mmins / A04	17N790,
Dimensio	CODE					
Dimensio		C				
Dimensio		CON				
	JT Propertie	es is				
			T		st Nat. Freq.	
Wic			ight	F-B	S-S	V
	<u>00-044</u>	-	0.00	3.3	3.2	6.7
T Highest Pass	T			•	•	•
2.00	<u>othyz/h]. Pi</u> 1.0	1.5	А _{FLX-Н} 3.20	А_{RIG-Н} 2.40	A _{FLX-V}	A _{RIG-}
2.00	0.50,00/0	0.01-5	3.20	- 2.40	- 1.61	- 0.65
	Mounting De	423		-	1.01	0.05

All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UUT-2

Options / Subcomponent Summary ngine: Cummins / QSK 95 ; Alternator: Cummins / DIG G ; Radiator: Young Touchstone / A048D643 ; Skid: Cummins / A047Y Options / Baving Touchstone / A048D643 ; Skid: Cummins / A047Y Options / Baving Touchstone / A048D643 ; Skid: Cummins / A047Y Options / Baving Touchstone / A048D643 ; Skid: Cummins / A047Y Options / PCC 3300 ; Air Cleaner: Cummins / Heavy Duty UUT Properties UUT Properties UUT Properties Weight Lowest Nat. Freq. [Hz] [Ibs] Length Width Height F-B S-S V 79,807 341.00 125.00 3.3 3.2 6.1 UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h P A _{FLX-H} A _{RIG-H} A _{FLX-V} A _{Rid} CBC 2022 ICC-ES AC156 2.00 1.0 1.5 - - 1.61 0.6	Model Line		N	lodel Numb	ber		Γ	Manufacture	r
esel powered electrical generator set 3500 kW. Carbon Steel base frame Options / Subcomponent Summary options / Subcomponent Summary ugine: Cummins / QSK 95 ; Alternator: Cummins / DIG G ; Radiator: Young Touchstone / A048D643 ; Skid: Cummins / A047Y: UUT Properties UUT Properties UUT Properties Weight Lowest Nat. Freq. [Hz] [Ibs] Length Width Height F-B S-S V OUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h AFLX-H A _{RIG-H} A _{FLX-V} A _{RIK} CBC 2022 ICC-ES AC156 2.00 1.0 1.5 - 1.61 0.0 Test Mounting Details	3000-3500 kW QSK9	5 Gensets		C3500 D6			Cummir	ns Power Ge	neration
ungine: Cummins / QSK 95 ; Alternator: Cummins / DIG G ; Radiator: Young Touchstone / A048D643 ; Skid: Cummins / A047Y ontroller: Cummins / PCC 3300 ; Air Cleaner: Cummins / Heavy Duty UUT Properties Weight Lowest Nat. Freq. [Hz] [Ibs] Length Width Height F-B S-S V 79,807 341.00 125.00 3.3 3.2 6.1 UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h A_FLX-H A_RIG-H A_FLX-V A_RIG CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - Test Mounting Details		I	Product C	onstructio	n Summary				
ungine: Cummins / QSK 95 ; Alternator: Cummins / DIG G ; Radiator: Young Touchstone / A048D643 ; Skid: Cummins / A047Y ontroller: Cummins / PCC 3300 ; Air Cleaner: Cummins / Heavy Duty UUT Properties Weight Lowest Nat. Freq. [Hz] [Ibs] Length Width Height F-B S-S V 79,807 341.00 125.00 150.00 3.3 3.2 6.1 UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps Z/h AFLX-H ARIG-H AFLX-V ARIGH CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - Test Mounting Details	iesel powered electric	al generator set 3500	kW. Carbon St	teel base fra	ame				
ungine: Cummins / QSK 95 ; Alternator: Cummins / DIG G ; Radiator: Young Touchstone / A048D643 ; Skid: Cummins / A047Y ontroller: Cummins / PCC 3300 ; Air Cleaner: Cummins / Heavy Duty UUT Properties Weight Lowest Nat. Freq. [Hz] [Ibs] Length Width Height F-B S-S V 79,807 341.00 125.00 3.3 3.2 6.1 UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h ARIG-H AFLX-V ARIG CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - Test Mounting Details									
Worker in the intervention of t			-	-		-			
Weight [lbs] Lowest Nat. Freq. [Hz] Length Dimensions [in] Lowest Nat. Freq. [Hz] 1 lbs] Length Width Height F-B S-S V 79,807 341.00 125.00 - 4 150.00 3.3 3.2 6.1 UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sos z/h Ie A _{FLX-H} A _{FLX-V} A _{RM} CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - Test Mounting Details					oung Touchs	tone / A048[0643 ; Skid:	Cummins / /	4047Y18
Weight [lbs] Length Dimensions [in] Lowest Nat. Freq. [Hz] [lbs] Length Width Height F-B S-S V 79,807 341.00 125.00 4 150.00 3.3 3.2 6.4 UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sos z/h A _{FLX-H} A _{RIG-H} A _{FLX-V} A _{RIG} CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - CBC 2022 ICC-ES AC156 2.40 0.0 1.5 - - 1.61 0.6	ontroller: Cummins / P	CC 3300 ; Air Cleane	er: Cummins / H	leavy Duty					
Weight [lbs] Length Dimensions [in] Lowest Nat. Freq. [Hz] [lbs] Length Width Height F-B S-S V 79,807 341.00 125.00 4 150.00 3.3 3.2 6.4 UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - - 1.61 0.6 Test Mounting Details			OP	CODE					
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79,807 341.00 125.00 4 150.00 3.3 3.2 6.4 UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h In A _{FLX-H} A _{RIG-H} A _{FLX-V} A _{RIG} CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - CBC 2022 ICC-ES AC156 2.40 0.0 1.5 - - 1.61 0.6	Weight		Dimensi	ons [in]		Y	Lowe	st Nat. Freq.	[Hz]
UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip A _{FLX-H} A _{RIG-H} A _{FLX-V} A _{RIG} CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - CBC 2022 ICC-ES AC156 Z.40 0.0 1.5 - - 1.61 0.6	[lbs]	Length	Wi	dth	He	ight	F-B	S-S	V
Building Code Test Criteria S _{DS} trz/h Iale A _{FLX-H} A _{RIG-H} A _{FLX-V} A _{FLX-V} A _{RIG-H}	79,807	341.00	12:	50P-044	4 4 150	0.00	3.3	3.2	6.6
CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - - - - - 1.61 0.6 Test Mounting Details		UU	JT Highest Pas	sed Seismi	ic Run Inforr	mation			
CBC 2022 ICC-ES AC156 1.61 0.6 Test Mounting Details	Building Code	Test <mark>Criter</mark> ia	BYSDSIM	othy z/h .F	Pilant	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-}
2.40- 0.0 1.5 - - 1.61 0.6 Test Mounting Details	CBC 2022		2.00	1.0	1.5	3.20	2.40	-	-
	000 2022	100-L3 AC130	2.40	05%92/	2021.5		-	1.61	0.65
<image/>			Test	Mounting [Details				
							1	1	



UUT-3

Model Line	9	Model Numbe	r		CERL Test F	lanufacture	er
HMI only on peo		PCC 3300 HN				is Power Ge	
, ,							
MAC mild at all m	adapted been ACTM DO	Product Construction			FCO mild ata		
ivi A36 mila steel p	edestal dase, ASTM B2	21 6063 T-52 Aluminum pe	edestal upr	ight, ASTIM A	.569 mild ste	ei Hivii wrap	per
		Options / Subcomponer	t Summar				
		Options / Oubcomponer	it Guillina	<u>y</u>			
		OD CODE					
		FORCODE	CONA				
		UUT Propertie	IS				
Weight		Dimensions [in]		4	Lowes	st Nat. Freq	. [Hz]
[lbs]	Length	Width		ight	F-B	S-S	v
66	20.00	20.00-044		2.00	7.3	4.3	> 33
		Highest Passed Seismic					1
Building Code	Test Criteria	BY Spsimoth z/h. P	land	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG}
CBC 2022	ICC-ES AC156	2.00 1.0	1.5	3.20	2.40	-	-
		2.40 0.0 Test Mounting De	025^{-5}		-	1.61	0.6
				25			



UUT-4a

DCL Test Report: 31632-2101; UUT-1a Model Line Model Number Manufacturer DC Distribution Box for QSK95 A062R012 **Cummins Power Generation** Gensets **Product Construction Summary** Carbon Steel Enclosure and Mounting Brackets **Options / Subcomponent Summary** Enclosure: Cummins; Mounting Brackets: Cummins **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height F-B S-S ۷ 84 8.25 21.50-04 34.25 N/A N/A N/A **UUT Highest Passed Seismic Run Information Test Criteria** SDS **Building Code** z/h anH A_{FLX-H} A_{RIG-H} A_{FLX-V} A_{RIG-V} 1.0 2.40 2.00 1.5 3.20 --CBC 2022 ICC-ES AC156 0.0 2.40 1.5 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 A062R012 **Cummins Power Generation** Gensets **Product Construction Summary** Carbon Steel Enclosure and Mounting Brackets **Options / Subcomponent Summary** Enclosure: Cummins; Mounting Brackets: Cummins **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Height ۷ Length F-B S-S 84 8.25 21.50 - 0/ 34.25 N/A N/A N/A **UUT Highest Passed Seismic Run Information Test Criteria Building Code** S_{DS} z/h anH A_{FLX-H} A_{RIG-H} A_{FLX-V} A_{RIG-V} 1.0 2.40 2.00 1.5 3.20 --CBC 2022 ICC-ES AC156 0.0 2.40 1.5 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 A055K503 **Cummins Power Generation** Gensets **Product Construction Summary** Carbon Steel Enclosure and Mounting Brackets **Options / Subcomponent Summary** Enclosure: Cummins; Mounting Brackets: Cummins **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Length Width Height ۷ F-B S-S 26 5.75 10.50 - 0/ 21.25 N/A N/A N/A **UUT Highest Passed Seismic Run Information Building Code Test Criteria** S_{DS} A_{FLX-H} z/h anH A_{RIG-H} A_{FLX-V} A_{RIG-V} 1.0 2.40 2.00 1.5 3.20 --CBC 2022 ICC-ES AC156 0.0 2.40 1.5 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 A055K503 **Cummins Power Generation** Gensets **Product Construction Summary** Carbon Steel Enclosure and Mounting Brackets **Options / Subcomponent Summary** Enclosure: Cummins; Mounting Brackets: Cummins **UUT Properties** Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height v F-B S-S 26 5.75 10.50 - 0/ 21.25 N/A N/A N/A **UUT Highest Passed Seismic Run Information Building Code Test Criteria** S_{DS} z/h anH A_{FLX-H} A_{RIG-H} A_{FLX-V} A_{RIG-V} 1.0 2.40 2.00 1.5 3.20 --CBC 2022 ICC-ES AC156 0.0 2.40 1.5 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 to shake table using (4) VMC Group MSSH-1E-530N external spring isolators.





UUT-6a

Summary Sheet

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

Model Line			Ν	lodel Numb	er		Ν	lanufacture	r
Motor Starter for QSK9	5 Gensets			M128				Prestolite	
			Product C	onstruction	n Summary		L		
arbon Steel									
			Options / S	ubcompone	ent Summar	У			
/A									
			FOR	CODE	CO				
			O FO		- OA				
Waight		S		UT Properti ions [in]	es			st Nat. Freq.	[H7]
Weight [lbs]	l en	gth		dth	He	ight	F-B	S-S	V
38		00		50P-044		5.50	N/A	N/A	N/A
			Highest Pas						
Building Code	Test C	riteria	BV S _{DS} im	othy z/h l. F	ilan	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022		AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022	ICC-ES	AC 156	2.40	05%02/	1.5		-	1.60	0.64
			Test	Mounting D	etails				
hake table with (12) Gr	ade 5 M12 t	hreaded roc	is.	UUT-04a		JT-05a			



UUT-6b

Summary Sheet

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

Options / Subcomponent Summary Vi/A UUT Properties Weight [lbs] Lowest Nat. Freq. [Hz] Ibs] Length Width Height F-B S-S V 38 5.00 5.50 15.50 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Spe z/h I P ArLx+H ARLS-H							DCL Te	est Report: 1	9534-2201;	UUT-4b, 5b	
Product Construction Summary Carbon Steel Options / Subcomponent Summary N/A UUT Properties UUT Properties UUT Properties UUT Properties UUT Properties UUT Properties UUT Height F-B S-S V 38 5.00 S.50 N/A N/A N/A Building Code Test Criteria Sos 1 /h Ib Areas Building Code Test Criteria Sos 1 /h Ib Areas Building Code Test Criteria Sos 1 /h Ib Areas Building Code Test Criteria Sos 1 /h Ib Areas CCC-ES AC156 2.00	Model Line			N	lodel Numb	er		Ν	Manufacture	•r	
Options / Subcomponent Summary N/A UUT Properties Weight [lbs] Length Dimensions [in] Lowest Nat. Freq. [Hz] Voltage 0 5.00 5.50 4 15.50 N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sos 2/h Is A FLX-H ARIG-H AFLX-V ARIG Building Code Test Criteria Sos 2/h Is A FLX-H ARIG-H AFLX-V ARIG Building Code Test Criteria Sos 2/h Is A FLX-H ARIG-H AFLX-V ARIG CBC 2022 ICC-ES AC156 2.00 1.0 1.5 - 1.60 0.6 Test Mounting Details Unit is mounted to a 1/4" thick steel mounting plate on the wall fixture with (3) 1/2" Grade 5 b	Motor Starter for QSK95	Gensets			M128				Prestolite		
Options / Subcomponent Summary N/A UUT Properties UUT Properties Weight Dimensions [in] Lowest Nat. Freq. [Hz] [lbs] Length Width Height F-B S-S V 38 5.00 5.50 4 15.50 N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information EBuilding Code Test Criteria Spis 2/h I Is UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - 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 (1) Grade 5 M12 threaded rods.				Product C	onstructior	n Summary					
UUT Properties Weight [Ibs] Dimensions [in] Lowest Nat. Freq. [Hz] [Ibs] Length Width Height F-B S-S V 38 5.00 5.50 -44 15.50 N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps 2.40 - - CBC 2022 ICC-ES AC156 2.00 1.0 1.5 - <th col<="" td=""><th>Carbon Steel</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<th>Carbon Steel</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Carbon Steel									
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Weight [lbs] Dimensions [in] Lowest Nat. Freq. [Hz] [lbs] Length Width Height F-B S-S V 38 5.00 5.50 -04 15.50 N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Aric-H	N/A										
Weight [lbs] Dimensions [in] Lowest Nat. Freq. [Hz] [lbs] Length Width Height F-B S-S V 38 5.00 5.50 -04 15.50 N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Aric-H											
Weight [lbs] Dimensions [in] Lowest Nat. Freq. [Hz] [lbs] Length Width Height F-B S-S V 38 5.00 5.50 -04 15.50 N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Aric-H				OP	CODE						
Weight [lbs] Dimensions [in] Lowest Nat. Freq. [Hz] [lbs] Length Width Height F-B S-S V 38 5.00 5.50 -04 15.50 N/A N/A N/A UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Aric-H				FUR		COL					
[Ibs]LengthWidthHeightF-BS-SV385.005.50-0415.50N/AN/AN/AUUT Highest Passed Seismic Run InformationBuilding CodeTest CriteriaSosZ/hIpAFLX-HARIG-HAFLX-VARIGCBC 2022ICC-ES AC1562.001.01.53.202.40CBC 2022ICC-ES AC1562.001.01.51.600.6Test Mounting DetailsUnit 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 (1 Grade 5 M12 threaded rods.			AL A	U	UT Properti	es					
38 5.00 5.50 4 15.50 N/A N/A N/A UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip AFLX-H ARIG-H AFLX-V ARIG CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - 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 (1) Grade 5 M12 threaded rods. 6 6 6 6	-			Dimensi	ions [in]		K I	Lowe	st Nat. Freq	. [Hz]	
UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip A _{FLX-H} A _{RIG-H} A _{FLX-V} A _{RIG} CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - CBC 2022 ICC-ES AC156 2.40 0.0 1.5 - - 1.60 0.6 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 (1) Grade 5 M12 threaded rods. 0.0 0.0 0.0 0.0 0.0	[lbs]	Len	igth	Wi	dth	He	eight	F-B	S-S	V	
Building Code Test Criteria Sps z/h Ip AFLX-H ARIG-H AFLX-V ARIG CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - CBC 2022 ICC-ES AC156 2.40 0.0 1.5 - - 1.60 0.6 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 (1) Grade 5 M12 threaded rods. 6	38	5.	00	5	50P-044	4 15	5.50	N/A	N/A	N/A	
CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - - - 1.60 0.6 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 (1) Grade 5 M12 threaded rods.				-	sed Seismi	c Run Infor	mation		1		
CBC 2022 ICC-ES AC156 2.40 0.0 1.5 - 1.60 0.6 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 (1) Grade 5 M12 threaded rods.	Building Code	Test C	riteria	BY S _{DSIM}	outy of t				A _{FLX-V}	A _{RIG-V}	
2.40 0.0 1.5 - 1.60 0.6 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 (1) Grade 5 M12 threaded rods.	CBC 2022	ICC-ES	AC156	11111111111111111		TTTTTT	3.20	2.40	-	-	
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 (1 Grade 5 M12 threaded rods.					112/11/1	41/2		-	1.60	0.64	
VMC M2SSH-1E-530N isolators using (4) 3/4" Grade 5 threaded rods. The isolator base plate attached to the shake table with (1 Grade 5 M12 threaded rods.					111111111	TTTTT					
			ng (4) 3/4" C	Grade 5 three	aded rods. T		base plate att	ached to the	∍ shake table	; with (16)	



UUT-7a

Summary Sheet

10,867 100.00 125.00 4 146.00 3.4 4.0 19 UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps of the z/h I and p AFLX-H AFLX-V AFLX-V CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.4 4.0 19			M	odel Numb	ber		N	lanufacture	r
Opper core, carbon steel structure Options / Subcomponent Summary /A UUT Properties Weight [Ibs] Length Dimensions [in] Lowest Nat. Freq. [Hz Weight [Ibs] Length Width Height F-B S-S Y 10,867 100.00 125.00 4 146.00 3.4 4.0 19 UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h IP AFLX-H AFLX-V	Radiator for QSK95	Genset		A076E018				IEA	
Options / Subcomponent Summary /A UUT Properties UUT Properties Weight [Ibs] Length Dimensions [in] Lowest Nat. Freq. [Hz UUT Highest Passed Seismic Run Information S-S Y Building Code Test Criteria S _{DS} z/h Ip A _{FLX-H} A _{FLX-H} A _{FLX-V}			Product C	onstructio	n Summarv				
Weight Dimensions [in] Lowest Nat. Freq. [Hz [lbs] Length Width Height F-B S-S T 10,867 100.00 125.00 -0.4 146.00 3.4 4.0 19 UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information A _{FLX-H} A _{RIG-H} A _{FLX-V} A _R CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - 1.61 0. Test Mounting Details UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the theorem of the section of the s	opper core, carbon ste	el structure							
UUT Properties Weight [Ibs] Dimensions [in] Lowest Nat. Freq. [Hz 10,867 100.00 125.00 4 146.00 3.4 4.0 19 UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information ARIG-H AFLX-V AR CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - 1.61 0. UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the function of the f			Options / Su	ubcompone	ent Summar	у			
Weight [lbs] Lowest Nat. Freq. [Hz [lbs] Length Width Height F-B S-S Y 10,867 100.00 125.00 4 146.00 3.4 4.0 19 UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information A _{RIG-H} A _{FLX-V} A _R CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - VUT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to th Test Mounting Details Test Section of the isolators were connected to the isolators.	'A								
Weight [lbs] Dimensions [in] Lowest Nat. Freq. [Hz [lbs] Length Width Height F-B S-S Y 10,867 100.00 125.00 4 146.00 3.4 4.0 19 UUT Highest Passed Seismic Run Information Building Code Test Criteria S _{DS} z/h Ip A _{FLX-H} A _{RIG-H} A _{FLX-V} A _R CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - 1.61 0. Test Mounting Details UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the thermal state of the state			FOR	CODE	CON				
Ibs Length Width Height F-B S-S M 10,867 100.00 125.00 4 146.00 3.4 4.0 19 UUT Highest Passed Seismic Run Information UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip AFLX-H ARIG-H AFLX-V AR CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - CBC 2022 ICC-ES AC156 2.40 0.0 1.5 - - 1.61 0. Test Mounting Details UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the tot the second se			U	UT Propert	ies				
10,867 100.00 125.00 146.00 3.4 4.0 19 UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h In A _{FLX-H} A _{RIG-H} A _{FLX-V} A _R CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - - 1.61 0.0 Test Mounting Details UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the spring isolators.	Weight		Dimensi	ons [in]		4	Lowes	st Nat. Freq.	[Hz]
UUT Highest Passed Seismic Run Information Building Code Test Criteria Sps z/h Ip AFLX-H ARIG-H AFLX-V AR CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - CBC 2022 ICC-ES AC156 2.40 0.0 1.5 - - 1.61 0. Test Mounting Details UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the splate test of the isolators were connected to the isolators. The isolators were connected to the isolators. The isolators were connected to the isolators.	[lbs]	Length	Wi	dth	He	ight	F-B	S-S	v
Building Code Test Criteria Sps z/h I A A A A FLX-H A A FLX-V A A C C C C C C C C C D C C D C D D D D D <th< td=""><td>10,867</td><td>100.00</td><td>125</td><td>50P-044</td><td>4 14</td><td>6.00</td><td>3.4</td><td>4.0</td><td>19.0</td></th<>	10,867	100.00	125	5 0 P-044	4 14	6.00	3.4	4.0	19.0
CBC 2022 ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 - Test Mounting Details UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the isolators were connected to the isolators.		UUT	Highest Pas	sed Seismi	c Run Infor	mation			
CBC 2022 ICC-ES AC156 2.40 0.0 1.5 1.61 0. Test Mounting Details UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the	Building Code	Test <mark>Criter</mark> ia	BY S _{DS} ime	oth z/h J.F	ilant	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the	CBC 2022	ICC-ESAC156	2.00	1.0	1.5	3 <mark>.20</mark>	2.40	-	-
UT-7a was rigidly mounted by locking (6) VMC Group M2SSHX-1E-5150N spring isolators. The isolators were connected to the	000 2022		2.40	05002/	1.5		-	1.61	0.65
			Test	Mounting D	Details				
	quipment using (1) 3/4	Grade o boit each, an					et weids off		



UUT-7b

Summary Sheet

	Eller	Product C Options / Su FOR		n Summary	y	N	<i>I</i> anufacture	r
copper core, carbon steel structure	Eller	Options / Si	onstruction ubcompone		у		IEA	
	Eller	Options / Si			у			
	Eller	PFOR	CODE	ent Summar	у			
//A	EL.	PFOR	CODE	ent Summar	у			
I/A			CODE	Ca				
			CODE					
	and the second se		CODE					
				$\langle O_{\Lambda} \rangle$				
	and the		UT Propert	ies				
Weight	noth	Dimensi	ons [in]		4	Lowes	st Nat. Freq.	[Hz]
[lbs] Le	ength	Wi	dth	He	ight	F-B	S-S	V
10,867 10	00.00	12:	DP-044	4 146	6.00	3.1	3.6	11.3
	UUT	Highest Pas	sed Seismi	c Run Infor	mation			
Building Code Test	Criteria	BY S _{DS} im	oth z/ ტ.Բ	ilant	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022 ICC-E	SAC156	2.00	1.0	1.5	3 <mark>.20</mark>	2.40	-	-
		2.40	05%02/	1.21.5		-	1.61	0.65
UT-7b was isolated using (6) VM			Mounting D					
ising (1) 3/4" Grade 8 bolt each, a								
All units were filled								