



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0082

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Kohler Power Systems

Manufacturer's Technical Representative: Brady Eifrid

Mailing Address: N 7650 Lakeshore Road, Sheboygan, WI 93083

Telephone: (920) 457-4441

Email: brady.eifrid@kohler.com

Product Information

Product Name: Emergency and Standby Power Systems

Product Type: Generators

Product Model Number: 20kW through 2000kW REOZ, KD800, and KD2500

General Description: Diesel-powered electrical generator with or without fuel tanks and/or enclosures.

Mounting Description: See Certified Product Tables, Floor Mounted

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: The VMC Group

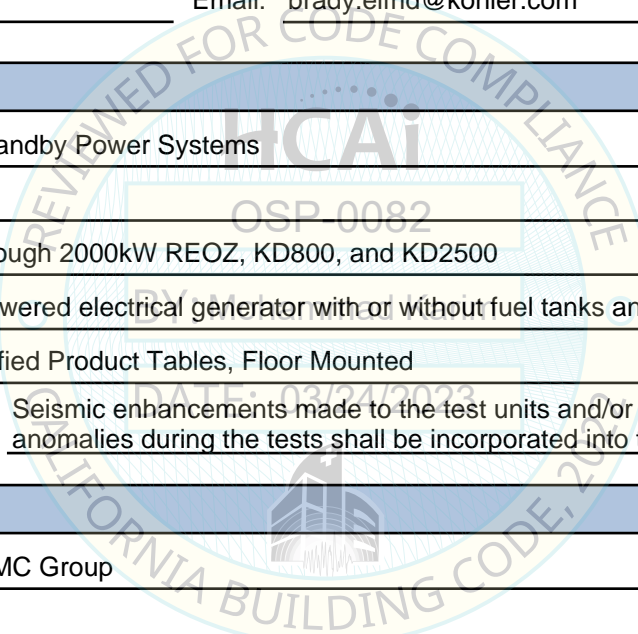
Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780

Email: john.giuliano@thvmcgroup.com

Title: President





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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: THE VMC GROUP
Name: Kenneth Tarlow California License Number: S2851
Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814
Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

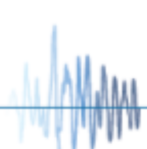
Testing Laboratory

Company Name: U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, CONSTRUCTION ENGINEERING RESEARCH LABORATORY (CERL)
Contact Person: James Wilcoski
Mailing Address: 2902 Newmark Dr., Champaign IL 61822-1076
Telephone: (217) 352-6511 Email: James.wilcoski@usace.army.mil

Company Name: CLARK TESTING LABORATORY, INC.
Contact Person: Suzanne Mazon
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025
Telephone: (412) 387-1001 Email: smazon@clarktesting.com

Company Name: Pacific Earthquake Engineering Research Center (PEER)
Contact Person: Amarnath Kasalanati
Mailing Address: 1301 South 46th St., Bldg. 420, Richmond CA 94720-1729
Telephone: (510) 642-3437 Email: Amarnath1@berkeley.edu

Company Name: UNIVERSITY OF NEVADA, RENO (UNR)
Contact Person: Gokhan Pekcan
Mailing Address: 1664 N. Virginia Street, Reno NV 89557
Telephone: (775) 784-6937 Email: peckcan@unr.edu





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) =	0.87 (rigid @ $z/h=0$), 1.45 (isolated @ $z/h=0$), 0.62 (rigid @ $z/h=1$), 1.94 (isolated @ $z/h=1$)
SDS (Design spectral response acceleration at short period, g) =	1.93 @ $z/h=0$, 0.86 @ $z/h=1$
a_p (Amplification factor) =	2.5 (Isolated), 1.0 (Rigid)
R_p (Response modification factor) =	2.0 (Isolated), 2.5 (Rigid)
Ω_0 (System overstrength factor) =	2.0
I_p (Importance factor) =	1.5
z/h (Height ratio factor) =	1 and 0
Natural frequencies (Hz) =	See Attachment
Overall dimensions and weight =	See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 03/24/2029			
Date:	<u>3/24/2023</u>		
Name:	<u>Mohammad Karim</u>	BY: <u>Mohammad Karim</u>	Title: <u>Supervisor, Health Facilities</u>
Special Seismic Certification Valid Up to:	SDS (g) = <u>See Above</u>	z/h =	<u>See Above</u>
Condition of Approval (if applicable):	<u>DATE: 03/24/2023</u>		

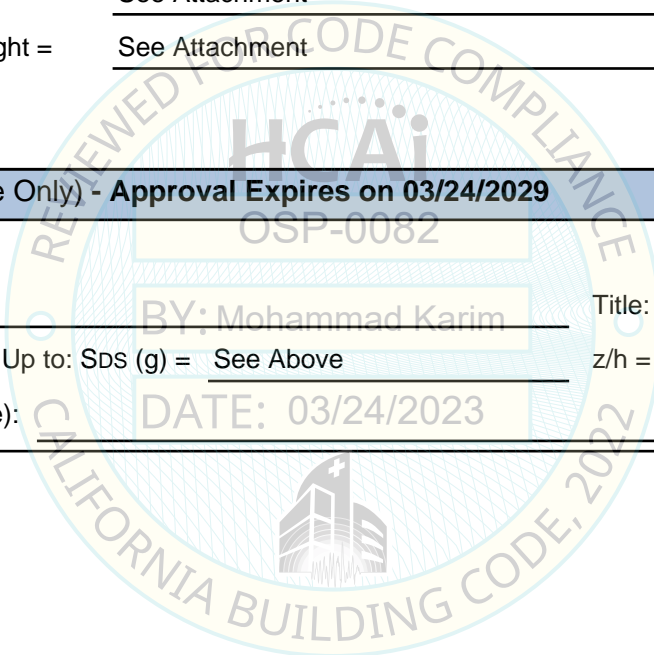


Table 2 - Certified Subcomponents: Enclosures

Applicable Genset Model	Type	Material	Level	Part Number	Manufacturer	Weight [lbs]	UUT
20REOZ(JC)	WEATHER	Steel	N/A	GM65479-KA4	Kohler	575	UUT-04
40REOZ(JC)		Steel	N/A	GM65479-KA4	Kohler	575	Interpolated
50REOZ(JD)		Steel	N/A	GM65479-KA4	Kohler	575	Interpolated
20REOZ(JC)	SOUND	Steel	N/A	GM65479-KA3	Kohler	600	Interpolated
40REOZ(JC)		Aluminum	N/A	GM65479-KA6	Kohler	375	Interpolated
		Steel	N/A	GM65479-KA3	Kohler	600	Interpolated
50REOZ(JD)		Aluminum	N/A	GM65479-KA6	Kohler	375	Interpolated
180REOZJG	SOUND	Steel	N/A	GM87410-KA5	Kohler	1290	UUT-20
550REOZ(V)	WEATHER	Steel	N/A	GM70448-TA2	Kohler	2400	Interpolated
500REOZJ	WEATHER	Steel	N/A	GM83850-TA2	Kohler	2593	Interpolated
		Aluminum	N/A	GM83850-TA6	Kohler	1374	Interpolated
500REOZJ	WEATHER	Steel	SL1	GM83850-TA3	Kohler	2673	Interpolated
		Aluminum	SL1	GM83850-TA5	Kohler	1454	Interpolated
500REOZJ	SOUND	Steel	SL2	GM83850-TA1	Kohler	2923	UUT-10
		Aluminum	SL2	GM83850-TA4	Kohler	1694	Interpolated
550REOZ(V)	SOUND	Steel	SL2	GM70448-TA1	Kohler	3100	UUT-13
		Aluminum	SL2	GM70448-TA3	Kohler	2000	Interpolated
600REOZ(V)	SOUND	Steel	SL2	GM81040-TA1	Kohler	2924	UUT-01
		Aluminum	SL2	GM70448-TA3	Kohler	2000	Interpolated
KD800	SOUND	Aluminum	SL2	114010035XX	Kohler	6900	UUT-17
KD2500	SOUND	Aluminum	SL1	114010263XX	Kohler	16240	UUT-18
60REOZK	SOUND	Aluminum	SL1	GM8762-KA6	Nelson Global Products	375	UUT-19

Table 3 - Certified Subcomponents

Component (MFR)	kW Range	Part/Model Number	Notes	Max Weight [lbs]	UUT
Fuel Tank ^{1,2} [KOHLER]	20REOZJ(C),40,50	GM74926-1	116 Gallons	934	UUT-04
	40,50	GM74926-4	372 Gallons	1162	Interpolated
	60	GM74926-2	147 Gallons	1184	Interpolated
	20,40,50	GM74926-3	253 Gallons	1328	Interpolated
	500	GM77323-2	468 Gallons	2727	Interpolated
	500	GM77323-4	894 Gallons	3257	Interpolated
	60 (ZK)	GM93355-5	535 Gallons	2156	UUT-19
	550REOZV	GM74179-1	551 Gallons	3916	UUT-13
	500	GM77323-7	1,523 Gallons	4640	Interpolated
	500REOZJ	GM77323-8	1,763 Gallons	4902	UUT-10
	500	GM77323-9	2,644 Gallons	7713	Interpolated
	500REOZVC 550REOZVB 600REOZVB	GM113950-KA2	3,052 Gallons	9270	UUT-01
	800-1000kW	10503000600-KA6	4,973 Gallons	15497	UUT-17
2000-2500kW	10503009000	4,143 Gallons	18571	UUT-18	
Engine [JOHN DEERE]	20	4024TF281	Dry Engine	553	UUT-04
	40	4024HF285	Dry Engine	553	Interpolated
	50	4024HF285	Dry Engine	553	Interpolated
	180	6068HFG82	Dry Engine	1340	UUT-20
	500	6135HFG75	Dry Engine	2941	UUT-10
Engine [VOLVO-PENTA]	500REOZVC	TAD1641GE-B	Dry-engine includes radiator	3680	UUT-01
	550REOZVB	TAD1642GE-B			
	600REOZVB	TWD1644GE			
Engine [KOHLER]	40-60kW	KDI3404TM	Dry Engine	900	UUT-19
	800, 900, 1000kW	KD27V12	Dry Engine	4947	UUT-17
	2000, 2250, 2500kW	KD62V12	Dry Engine	20502	UUT-18
Engine [MITSUBISHI]	2000REOZM(D)	S16R-Y2PTAW2-1	Dry Engine	13671	UUT-14
Alternator [KOHLER]	20REOZJC, 40(JC)	4P	N/A	380	UUT-04
	50(JD)	4PX, 4QX, 4Q10X	N/A	607	UUT-19
	40(JC)	4P,4Q	N/A	660	Interpolated
	180	4SX	N/A	1077	UUT-20
Alternator [MARATHON]	500(VC)	5M	5M4024	2580	Interpolated
			5M4027	2690	
			5M4162	2690	
			5M4164	3250	
			5M4270	2690	
	500(VC), 550(VB)		5M4028	3050	UUT-13
	500 (VC), 550(VB), 600(VB)		5M4030	2960	Interpolated
			5M4032	3250	
			5M4164	3250	
	600 (VB)		5M4272	2960	UUT-01
5M4276	3620				
2000REOZM(D)	7M	7M4058	9048	UUT-14	
Alternator [MeccAlte]	800kW	KH03450TO4D	ECO43-2S	2090	UUT-17
Alternator [KATO]	2500kW	KH09270TO4D	4P6.7-3400	17015	UUT-18
Radiator ² [JB RADIATOR SPECIALTIES]	20(JC)	RS-6128	Dry	55	UUT-04
	40(JC)	RS-6026	Dry	89	Interpolated
	50(JD)	RS-6026	Dry	89	Interpolated
	60(ZK)	RS-7748	Dry	68	UUT-19
	500REOZJ	RS-6913	Dry	460	UUT-10
Radiator ² [VOLVO-PENTA]	500REOZVC 550REOZVB 600REOZVB	Included w/ Engine	Dry	Included w/ Engine	UUT-13
	800kW	50C	Dry	1311	UUT-17
		2500kW	50C	Dry	7275
Radiator ² [MITSUBISHI]	2000REOZM(D)	YT4277811	Dry	4000	UUT-14
Controller [KOHLER]	20-600	DEC3	DEC3+	10	UUT-04
	20-600	DEC3000	DEC3000	5	UUT-19
	20-600	DEC550	DEC550	10	UUT-10, UUT-20
	600REOZVB	APM603	APM603	80	UUT-01
	2500kW	116010000945	APM802	132	UUT-17

Notes:

- 1) Tank weight is for dry tank. Tank material is carbon steel.
- 2) Coil material is aluminum, frame material is carbon steel.

Table 1 - Certified Components: Generator Sets

Model	Configuration	Max Rating [kW]	Max Package Dimensions [in]			Max Weight [lbs]	Installation Method	UUT
			Length	Width	Height			
20REOZJC	Open / Enclosed	20	114.0	41.0	66.0	3,645	Rigid / Isolated	Extrapolated
20REOZJC	Enclosed	20	114.0	41.0	66.0	4,000	Rigid	UUT-04
180REOZJG	Enclosed	180	162.0	53.0	81.0	4,810	Rigid	UUT-20
20REOZJC	Open / Enclosed	20	114.0	42.0	83.0	5,237	Rigid / Isolated	Interpolated
40REOZJC	Open / Enclosed	40	114.0	42.0	92.0	6,597	Rigid / Isolated	Interpolated
50REOZJD	Open / Enclosed	50	114.0	42.0	92.0	6,769	Rigid / Isolated	Interpolated
60REOZK	Enclosed	60	158.3	42.1	93.7	8,981	Rigid	UUT-19
550REOZV	Enclosed	550	282.0	86.0	120.0	23,940	Rigid	UUT-13
550REOZV	Open / Enclosed	550	282.0	86.0	120.0	23,482	Rigid / Isolated	Interpolated
500REOZJ	Enclosed	500	300.0	68.0	131.0	29,900	Rigid	UUT-10
2000REOZM	Open	2000	268.0	109.0	122.0	36,000	Isolated	UUT-14
500REOZJ	Open / Enclosed	500	301.0	102.0	138.0	41,181	Rigid / Isolated	Interpolated
550REOZV	Open / Enclosed	550	328.0	93.0	133.0	46,565	Rigid / Isolated	Interpolated
500REOZVC	Enclosed	500	353.0	107.0	145.0	46,565	Rigid / Isolated	Interpolated
550REOZVB	Enclosed	550	353.0	107.0	145.0	46,565	Rigid / Isolated	Interpolated
600REOZVB	Open / Enclosed	600	353.0	107.0	145.0	46,565	Rigid / Isolated	Interpolated
600REOZVB	Enclosed	600	355.5	85.8	140.5	45,490	Rigid	UUT-01
KD800	Enclosed	800	360.0	103.0	171.9	74,052	Rigid	UUT-17
KD2500	Enclosed	2500	535.5	137.0	207.0	119,997	Isolated	UUT-18

Notes:

- 1) Rigid mounted generator sets shall be mounted on UL142 tanks. Vibration isolated generator sets are certified without sub-base fuel tank.
- 2) Rigid mounted generator sets are certified with and without enclosures. Vibration isolated generator sets are certified without enclosures.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-4

Test Report: Trentec Q0026.0; UUT-Q0023-01-01-01

Model Line	Model Number	Manufacturer
REOZJ	20REOZJC	Kohler

Product Construction Summary

Carbon Steel Enclosure, Carbon Steel Fuel Tank

Options / Subcomponent Summary

Enclosure: Kohler, Fuel Tank: Kohler, Engine: John Deere, Alternator: Kohler, Radiator: JB Radiator Specialties, Controller: Kohler

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
4,000	114.0	41.0	66.0	3.5	2.8	2.8

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2022	ICC-ES AC156	0.00	0.0	1.5	-	-	-	-	
		2.00	0.0	1.5	2.00	0.80	1.34	0.54	

Test Mounting Details

UUT-4 was rigidly mounted to the shake table using (6) 5/8" diameter Grade 5 bolts.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-10

Test Report: PEER STI/2011-16; UUT-1

Model Line	Model Number	Manufacturer
REOZJ	500REOZJ	Kohler

Product Construction Summary

Carbon Steel Enclosure, Carbon Steel Fuel Tank

Options / Subcomponent Summary

Enclosure: Kohler, Fuel Tank: Kohler, Engine: John Deere, Alternator: Marathon, Radiator: JB Radiator Specialties, Controller: Kohler

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
29,900	300.0	68.0	131.0	4.3	5.5	5.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	1.93	1.0	1.5	3.09	2.32	1.29	0.52
		-	-	-	-	-	-	-

Test Mounting Details

UUT-10 was rigidly mounted to the fuel tank using (10) 7/8" diameter Grade 8 bolts. The tank was rigidly connected to the shake table using (14) 3/4" Grade 8 bolts.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-13

Test Report: PEER - STI/2011-04; UUT-2

Model Line	Model Number	Manufacturer
REOZV	550REOZV	Kohler

Product Construction Summary

Carbon Steel Enclosure, Carbon Steel Fuel Tank

Options / Subcomponent Summary

Enclosure: Kohler, Fuel Tank: Kohler, Engine: Volvo-Penta, Alternator: Marathon, Radiator: Volvo-Penta, Controller: Kohler

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
23,940	282.0	86.0	120.0	5.0	5.0	7.9

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	1.21	1.0	1.5	1.94	1.45	-	-
		1.93	0.0	1.5	-	-	1.29	0.52

Test Mounting Details

UUT-13 was rigidly mounted to the shake table using (18) 3/4" diameter Grade 8 bolts.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-14

Test Report: PEER-STI/2011-15; UUT-1

Model Line	Model Number	Manufacturer
REOZM	2000REOZMD	Kohler

Product Construction Summary

Carbon Steel Skid

Options / Subcomponent Summary

Engine: Mitsubishi, Alternator: Marathon, Radiator: Mitsubishi

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
36,000	268.0	109.0	122.0	3.0	3.4	4.4

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2022	ICC-ES AC156	1.21	1.0	1.5	1.94	1.45	-	-	
		1.93	0.0	1.5	-	-	1.29	0.52	

Test Mounting Details

UUT-14 was isolated using (12) VMC Group M2SSH-1E 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 (4) 3/4" diameter Grade 8 bolts per isolator.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-17

Test Report: VMA-50771-01E; UUT-1

Model Line	Model Number	Manufacturer
KD	KD800	Kohler

Product Construction Summary

Aluminum Enclosure, Carbon Steel Fuel Tank. Engine and alternator were internally isolated with mounts provided by the manufacturer.

Options / Subcomponent Summary

Enclosure: Kohler, Fuel Tank: Kohler, Engine: Kohler, Alternator: MeccAlte, Radiator: Wabtec

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
74,052	360.0	103.0	171.9	4.0	3.8	9.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	0.86	1.0	1.5	-	1.03	-	-
		2.00	0.0	1.5	2.00	-	1.34	0.54

Test Mounting Details

UUT-17 was rigidly mounted to the shake table using (18) 7/8" diameter Grade 8 bolts.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-18

Test Report: VMA-50771-01E; UUT-2

Model Line	Model Number	Manufacturer
KD	KD2500	Kohler

Product Construction Summary

Aluminum Enclosure, Carbon Steel Fuel Tank

Options / Subcomponent Summary

Enclosure: Kohler, Fuel Tank: Kohler, Engine: Kohler, Alternator: Kato, Radiator: Wabtec

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
119,997	535.5	137.0	207.0	7.3	2.8	5.3

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	0.96	1.0	1.5	-	1.15	-	-
		2.00	0.0	1.5	2.00	-	1.34	0.54

Test Mounting Details

UUT-18 was isolated using (12) VMC Group M2SSH-1E spring isolators. The isolators were connected to the equipment using (1) 3/4" Grade 8 bolt each, and were connected to the tank using (4) 3/4" diameter Grade 8 bolts per isolator. The tank was rigidly connected to the shake table using (20) 7/8" Grade 8 bolts.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-19

Test Report: VMA-50224-02E; UUT-2

Model Line	Model Number	Manufacturer
REOZK	60REOZK	Kohler

Product Construction Summary

Aluminum Enclosure, Carbon Steel Fuel Tank

Options / Subcomponent Summary

Enclosure: Nelson Global Products, Fuel Tank: Kohler, Engine: Kohler, Alternator: Kohler, Radiator: JB Radiator Specialties

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
8,981	158.3	42.1	93.7	6.1	7.0	10.1

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS}	z/h	I _p	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	-	-
		2.50	0.0	1.5	-	-	1.68	0.68

Test Mounting Details

UUT-19 was rigidly mounted to the shake table using (8) 7/8" diameter Grade 8 bolts.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-20

Test Report: PEER STI 2013-05; UUT-1C

Model Line	Model Number	Manufacturer
REOZJG	180REOZJG	Kohler

Product Construction Summary

Steel Enclosure

Options / Subcomponent Summary

Enclosure: Kohler, Engine: John Deere, Alternator: Kohler

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
4,810	162.0	53.0	81.0	3.1	6.0	9.1

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	1.93	1.0	1.5	3.09	2.32	1.29	0.52
		-	-	-	-	-	-	-

Test Mounting Details

UUT-20 was rigidly mounted to the shake table using (14) 3/4" diameter Grade 8 bolts.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-1

Test Report: 19865-2201; UUT-01

Model Line	Model Number	Manufacturer
REOZV	600REOZVB	Kohler

Product Construction Summary

Painted Carbon Steel

Options / Subcomponent Summary

Engine, Radiator (Diesel), Alternator, Controller, 24V Battery, Breaker, Block Heater, Skid Base, Air Filter, Fuel Tank, Louvers and Light Kit

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
45,490	350.5	85.8	140.5	6.0	4.5	9.5

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	0.00	0.0	1.5	-	-	-	-
		1.93	0.0	1.5	1.93	0.77	1.29	0.52

Test Mounting Details

UUT-1 was rigidly mounted to the shake table using (20) 3/4" diameter Grade 8 bolts.



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