APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0303

OSHPD 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 53083

Telephone: (920) 457-4441 Ext 33060 Email: brady.eifrid@kohler.com

Product Information

Product Name: Kohler Power Generators

Product Type: Electrical Power Generators

Product Model Number: 60kW-500kW REOZJ, 550kW REOZV, 2500kW-3250kW REOZD
(List all unique product identification numbers and/or part numbers)

General Description: Diesel Powered Electrical Generators. Seismic enhancement made to test units and modifications required to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: REOZJ: Rigid Floor Mounted Generators with Internal Isolators On or Off UL142 Fuel Tanks With or Without Enclosures. REOZV: Vibration Isolated Open Generator Mounted on Spring Isolators. REOZD: Vibration Isolated Open Generators Mounted on Spring Isolators.

Applicant Information

Applicant Company Name: The VMC Group

Contact Person: Mr. John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: 973-838-1780 Email: john.giuliano@thevmcgroup.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: Date: 8/1/19

Title: President Company Name: The VMC Group

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

Company Name: The VMC Group

Name: Mr. Ken Tarlow California License Number: SE2851

Mailing Address: 113 Main St, Bloomingdale, NJ 07403

Telephone: 973-838-1780 Email: ken.tarlow@thevmcgroup.com

Supports and Attachments Preapproval

☐ Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)

☒ Supports and attachments are not preapproved

Certification Method

☒ Testing in accordance with: ☒ ICC-ES AC156

☐ Other (Please Specify):

Testing Laboratory

Company Name: UC Berkeley-PEER / Clark Testing Lab

Contact Name: Amarnath Kasalanati / J.R. Antenucci

Mailing Address: 1301 South 46th Street, Building 420, Richmond, CA 94804/1801 Route 51, Jefferson Hills, PA 15025

Telephone: (510) 642-6475 / (412) 387-1001 Email: amarnath1@berkeley.edu / jrantenucci@clarktesting.com

Testing Laboratory

Company Name: Dynamic Certification Laboratories

Contact Name: Kelly Laplace

Mailing Address: 1315 Greg Pkwy # 109, Sparks, NV 89431

Telephone: (775) 358-5085 Email: Kelly@shaketest.com

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = REOZ**J**x Models (1.39 Rigid; 4.34 Isolated) / REOZ**V** & REOZ**DB** Models (0.46 Rigid; 1.44 Isolated)

S_{DS} (Design spectral response acceleration at short period, g) = 1.93 (REOZ**J**x); **0.64** (REOZ**V** & REOZ**DB)**

a_p (In-structure equipment or component amplification factor) = 1.0 (rigid); 2.5 (Isolated)

R_p (Equipment or component response modification factor) = 2.5 (rigid); 2.0 (Isolated)

Ω_0 (System overstrength factor) = 2

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1

Equipment or Component Natural Frequencies (Hz) = See Attachment

Overall dimensions and weight (or range thereof) = See Attachment

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) =

S_{DS} (Design spectral response acceleration at short period, g) =

S_{D1} (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Ω_0 (System overstrength factor) =

C_d (Deflection amplification factor) =

I_p (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component Natural Frequencies (Hz) =

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☐ Drawings ☐ Calculations ☒ Manufacturer's Catalog

☐ Other(s) (Please Specify):

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025

Signature: Date: September 22, 2020

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable):

Table 1 - Open & Enclosed Generators On Tanks (External Rigid Mounting)

Model	Max Rating [kW]	Configuration	Max Dimensions [in]			Max Weight [lbs]	S_{DS}	z/h	UUT
			Length	Width	Height				
60REOZJC	60	Open	114.0	42.0	58.6	5,125	1.93	1.0	UUT 1B
		Enclosed	114.0	42.0	92.0	5,725			UUT 1A, UUT 1C
80REOZJF	80	Open	134.0	44.1	64.9	4,140			Interpolated
		Enclosed	134.0	45.5	90.0	4,929			Interpolated
100REOZJF	100	Open	134.0	44.1	64.9	4,380			Interpolated
		Enclosed	134.0	45.5	90.0	5,170			Interpolated
125REOZJG	125	Open	174.0	44.1	79.1	5,122			Interpolated
		Enclosed	174.0	45.5	105.0	6,052			Interpolated
150REOZJF	150	Open	174.0	44.1	79.1	5,515			Interpolated
		Enclosed	174.0	45.5	105.0	6,526			Interpolated
180REOZJG	180	Open	197.2	51.2	83.7	6,630			Interpolated
		Enclosed	197.0	53.0	111.0	14,030			UUT 2A, UUT 2B
200REOZJF	200	Open	197.2	51.2	83.8	8,080			Interpolated
		Enclosed	197.2	52.7	119.0	8,930			Interpolated
230REOZJE	230	Open	210.0	51.2	110.4	9,480			Interpolated
		Enclosed	210.0	52.7	121.0	9,930			Interpolated
250REOZJE	250	Open	210.0	51.2	104.0	9,480			Interpolated
		Enclosed	210.0	52.7	121.0	10,030			Interpolated
275REOZJE	275	Open	210.0	51.2	110.4	9,480			Interpolated
		Enclosed	210.0	52.7	121.0	10,330			Interpolated
300REOZJ	300	Open	220.0	51.2	91.5	9,388			Interpolated
		Enclosed	220.0	52.7	121.0	10,238			Interpolated
350REOZJB	350	Open	343.0	102.0	120.0	16,500			Interpolated
		Enclosed	379.0	102.0	133.0	19,000			Interpolated
400REOZJB	400	Open	343.0	102.0	120.0	16,500			Interpolated
		Enclosed	379.0	102.0	133.0	19,000			Interpolated
500REOZJB	500	Open	343.0	102.0	120.0	16,500			Interpolated
		Enclosed	379.0	59.0	379.0	29,030			UUT 3A, UUT 3B

Table 2 - Open & Enclosed Generators Off Tanks (External Rigid Mounting)

Model	Max Rating [kW]	Configuration	Max Dimensions [in]			Max Weight [lbs]	S_{DS}	z/h	UUT
			Length	Width	Height				
80REOZJF	80	Open	91.9	34.0	47.9	2,480	1.93	1.0	Extrapolated
		Enclosed	111.1	45.5	60.0	3,269			Extrapolated
100REOZJF	100	Open	91.9	34.0	47.9	2,720			Extrapolated
		Enclosed	111.1	45.5	60.0	3,510			Extrapolated
125REOZJG	125	Open	106.3	44.1	60.1	2,702			Extrapolated
		Enclosed	139.0	45.4	69.0	3,632			Extrapolated
150REOZJF	150	Open	116.1	44.1	60.1	3,090			Extrapolated
		Enclosed	139.0	45.4	69.0	4,101			Extrapolated
180REOZJG	180	Open	118.1	51.2	65.7	3,190			Extrapolated
		Enclosed	161.2	51.2	84.0	4,810			UUT 2C
200REOZJF	200	Open	118.1	51.2	65.8	4,240			Interpolated
		Enclosed	161.2	51.2	84.0	5,090			Interpolated
230REOZJE	230	Open	118.1	51.2	74.4	5,400			Interpolated
		Enclosed	162.3	52.7	84.9	5,850			Interpolated
250REOZJE	250	Open	118.1	51.2	74.4	5,400			Interpolated
		Enclosed	162.3	52.7	84.9	5,950			Interpolated
275REOZJE	275	Open	118.1	51.2	74.4	5,400			Interpolated
		Enclosed	162.3	52.7	84.9	6,250			Interpolated
300REOZJ	300	Open	118.1	51.2	66.5	5,400			Interpolated
		Enclosed	162.3	52.7	84.9	6,250			Interpolated
350REOZJB	350	Open	142.9	56.1	78.5	8,600			Interpolated
		Enclosed	232.6	58.4	91.6	11,523			Interpolated
400REOZJB	400	Open	142.9	56.1	78.5	8,600			Interpolated
		Enclosed	232.6	58.4	91.6	11,523			Interpolated
500REOZJB	500	Open	142.9	56.1	78.5	8,600			Interpolated
		Enclosed	232.6	58.4	91.6	9,910			UUT 3C

Table 3 - Open Generators (External Spring Isolated - No Tanks)

Model	Max Rating [kW]	Max Dimensions [in]			Max Weight [lbs]	S_{DS}	z/h	UUT
		Length	Width	Height				
550REOZV	550	145.2	53.0	77.8	11,280	**0.64**	1.0	UUT 4
2500REOZDB	2500	305.0	121.0	130.0	56,500			Interpolated
2800REOZDB	2800	305.0	121.0	130.0	56,500			UUT 5

Table 4 - Enclosure Matrix

Series	kW Range	Type	Silencer	Enclosure Part Number	Internal Silencer Part No.	UUT
REOZJx	60	Steel Weather, CA AQMD	No	GM87406-KA9	N/A	Extrapolated
		Steel Sound Level 2, CA AQMD	No	GM87406-KA8		
		Aluminum Sound Level 2, CA AQMD	No	GM87406-KA12		
		Steel Weather	Yes	GM87406-KA2	GM59115	UUT 1A
		Steel Sound Level 2	Yes	GM87406-KA1		Interpolated
		Aluminum Sound Level 2	Yes	GM87406-KA5		UUT 1C
	80-100	Steel Weather, CA AQMD	No	GM87407-KA5	N/A	Interpolated
		Steel Sound Level 2, CA AQMD	No	GM87407-KA4		
		Aluminum Sound Level 2, CA AQMD	No	GM87407-KA6		
		Steel Weather	Yes	GM87407-KA2	GM59117	Interpolated
		Steel Sound Level 2	Yes	GM87407-KA1		
		Aluminum Sound Level 2	Yes	GM87407-KA3		
	125	Steel Weather, CA AQMD	No	GM87408-KA5	N/A	Interpolated
		Steel Sound Level 2, CA AQMD	No	GM87408-KA4		
		Aluminum Sound Level 2, CA AQMD	No	GM87408-KA6		
		Steel Weather	Yes	GM87408-KA2	GM71385	Interpolated
		Steel Sound Level 2	Yes	GM87408-KA1		
		Aluminum Sound Level 2	Yes	GM87408-KA3		
	150	Steel Weather, CA AQMD	No	GM87409-KA5	N/A	Interpolated
		Steel Sound Level 2, CA AQMD	No	GM87409-KA4		
		Aluminum Sound Level 2, CA AQMD	No	GM87409-KA6		
		Steel Weather	Yes	GM87409-KA2	GM71385	Interpolated
		Steel Sound Level 2	Yes	GM87409-KA1		
		Aluminum Sound Level 2	Yes	GM87409-KA3		
	180-200	Steel Weather, CA AQMD	No	GM87410-KA11	N/A	Interpolated
		Steel Sound Level 2, CA AQMD	No	GM87410-KA10		
		Aluminum Sound Level 2, CA AQMD	No	GM87410-KA12		
		Steel Weather	Yes	GM87410-KA5	GM70083	UUT 2
		Steel Sound Level 2	Yes	GM87410-KA4		Interpolated
		Aluminum Sound Level 2	Yes	GM87410-KA6		

Note: Enclosures Are Certified For Use With or Without Internal Silencers

Table 4 - Enclosure Matrix (Continued)

Series	kW Range	Type	Silencer	Enclosure Part Number	Internal Silencer Part No.	UUT
REOZJx	230-300	Steel Weather, CA AQMD	No	GM87411-KA8	N/A	Interpolated
		Steel Sound Level 2, CA AQMD	No	GM87411-KA7		
		Aluminum Sound Level 2, CA AQMD	No	GM87411-KA9		
		Steel Weather	Yes	GM87411-KA2	GM75600	
		Steel Sound Level 2	Yes	GM87411-KA1		
		Aluminum Sound Level 2	Yes	GM87411-KA3		
	350 - **500**	Steel Weather, CA AQMD	No	GM89339-TA1	N/A	Interpolated
		Steel Sound Level 1, CA AQMD	No	GM89339-TA2		
		Steel Sound Level 2, CA AQMD	No	GM89340-TA1		
		Aluminum Weather, CA AQMD	No	GM89339-TA3		
		Aluminum Sound Level 1, CA AQMD	No	GM89339-TA4		
		Aluminum Sound Level 2, CA AQMD	No	GM89340-TA2		
		Steel Weather	Yes	GM85624-TA1	GM78403	Interpolated
		Steel Sound Level 1	Yes	GM85624-TA2		
		Steel Sound Level 2	Yes	GM85458-TA1	GM86791	
		Aluminum Weather	Yes	GM85624-TA3	GM78403	
		Aluminum Sound Level 1	Yes	GM85624-TA4		
		Aluminum Sound Level 2	Yes	GM85458-TA2	GM86791	UUT 3
Note:	Enclosures Are Certified For Use With or Without Internal Silencers					

Table 5 - Tank Matrix

Series	kW Range	Gallons	Part Number	UUT
REOZJx	60	147	GM74926-2	Extrapolated
		253	GM74925-6	UUT 1
		253	GM74926-3	Interpolated
		372	GM7926-4	
	80-100	215	GM69240-1	
		415	GM69240-2	
	125-150	316	GM70816-1	
		595	GM77834	
	180-200	416	GM71640-1	
		765	GM71640-2	UUT 2
	230-275	555	GM74711-1	Interpolated
		944	GM74929-1	
	300	555	GM74711-1	
		1,074	GM74711-2	
	350	404	GM85993-1	
		774	GM85993-3	
		1,161	GM85993-5	
		1,333	GM85993-6	
	400	404	GM85993-1	
		774	GM85993-3	
		1,161	GM85993-5	
		1,523	GM85993-7	
	500	468	GM85993-2	
		894	GM85993-4	
		1,523	GM85993-7	
		1,763	GM85993-8	UUT 3

Table 6a - Certified Engines

Series	kW Range	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Volvo	TAD1642GE	0.64	1.0	UUT 4
REOZDx	2500	MTU	20V4000 G83			Extrapolated
	2800					UUT 5

Table 6b - Certified Engines

Series	kW Range	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	John Deere	5030HF285	1.93	1.0	UUT 1
	80 - 125	John Deere	4045HF285			Interpolated
	150	John Deere	6068HF285			Interpolated
	180	John Deere	6068HFG82			UUT 2
	200	John Deere	6068HFG85			Interpolated
	230 - 275	John Deere	6090HF484			Interpolated
	300	John Deere	6090HFG86			Interpolated
	350 - 400	John Deere	6135HFG84			Interpolated
	500	John Deere	6135HFG75			UUT 3

Table 7a - Certified Turbo/CAC Compressors

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	John Deere	RE535743	1.93	1.0	UUT 1
	80	John Deere	RE548748			Interpolated
	100	John Deere	RE548748			Interpolated
	125	John Deere	RE528769			Interpolated
	150	John Deere	RE528769			Interpolated
	180	John Deere	RE532384			UUT 2
	200	John Deere	RE532384			Interpolated
	230	John Deere	RE532384			Interpolated
	250	John Deere	RE532384			Interpolated
	275	John Deere	RE532384			Interpolated
	300	John Deere	RE532384			Interpolated
	350	John Deere	RE549073			Interpolated
	400	John Deere	RE549073			Interpolated
	500	John Deere	RE549073			UUT 3

Table 7b - Certified Turbo/CAC Compressors

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Volvo	4043680	0.64	1.0	UUT 4
REOZDx	2500	MTU	XT0210100036			Extrapolated
	2800					UUT 5

Table 8a - Certified Starters

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	John Deere	R520437	1.93	1.0	UUT 1
	80	John Deere	RE59595			Interpolated
	100	John Deere	RE59595			Interpolated
	125	John Deere	RE69704			Interpolated
	150	John Deere	RE69704			Interpolated
	180	John Deere	RE605356			UUT 2
	200	John Deere	RE605356			Interpolated
	230	John Deere	RE605356			Interpolated
	250	John Deere	RE605356			Interpolated
	275	John Deere	RE605356			Interpolated
	300	John Deere	RE605356			Interpolated
	350	John Deere	RE65791			Interpolated
	400	John Deere	RE65791			Interpolated
	500	John Deere	RE65791			UUT 3

Table 8b- Certified Starters

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Volvo	U001T46474	0.64	1.0	UUT 4
REOZDx	2500	MTU	0051510001			Extrapolated
	2800					UUT 5

Table 9a - Certified Fuel Pumps

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	Denso HP3	R523405	1.93	1.0	UUT 1
	80	Denso HP3	RE527528			Interpolated
	100	Denso HP3	RE527528			Interpolated
	125	Denso HP3	RE527528			Interpolated
	150	Denso HP3	RE527528			Interpolated
	180	Denso HP3	RE546126			UUT 2
	200	Denso HP3	RE546126			Interpolated
	230	Denso HP3	RE546126			Interpolated
	250	Denso HP3	RE546126			Interpolated
	275	Denso HP3	RE546126			Interpolated
	300	Denso HP3	RE546126			Interpolated
	350	Denso HP3	R524283			Interpolated
	400	Denso HP3	R524283			Interpolated
	500	Denso HP3	R524283			UUT 3

Table 9b - Certified Fuel Pumps

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Volvo	SX06	0.64	1.0	UUT 4
REOZDx	2500	MTU	X59507300003			Extrapolated
	2800					UUT 5

Table 10a - Certified Fuel Filter Assemblies

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	Racor Industries	RE533026	1.93	1.0	UUT 1
	125	John Deere	RE529643			Extrapolated
	150	John Deere	RE529643			Extrapolated
	180	John Deere	RE539766			UUT 2
	200	John Deere	RE539766			Interpolated
	230	John Deere	RE539766			Interpolated
	250	John Deere	RE539766			Interpolated
	275	John Deere	RE539766			Interpolated
	300	John Deere	RE539766			Interpolated
	350	John Deere	RE523929			Interpolated
	400	John Deere	RE523929			Interpolated
	500	John Deere	RE523929			UUT 3

Table 10b - Certified Fuel Filter Assemblies

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Racor Industries	DRK00123	0.64	1.0	UUT 4
REOZDx	2500	Racor Industries	X54808300001			Extrapolated
	2800					UUT 5

Table 11a - Certified Water Pumps

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	John Deere	RE535043	1.93	1.0	UUT 1
	80	John Deere	R132166			Interpolated
	100	John Deere	R132166			Interpolated
	125	John Deere	R520916			Interpolated
	150	John Deere	R520916			Interpolated
	180	John Deere	R518239			UUT 2
	200	John Deere	R518239			Interpolated
	230	John Deere	R518239			Interpolated
	250	John Deere	R518239			Interpolated
	275	John Deere	R518239			Interpolated
	300	John Deere	R518239			Interpolated
	350	John Deere	R534005			Interpolated
	400	John Deere	R534005			Interpolated
	500	John Deere	R534005			UUT 3

Table 11b - Certified Water Pumps

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Volvo	21568471	**0.64**	1.0	UUT 4
REOZDx	2500	MTU	X52620200081			Extrapolated
	2800					UUT 5

Table 12a - Certified Block Heaters

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	Kim Hotstart	TPS101GT8-001	1.93	1.0	UUT 1
	80	Kim Hotstart	TPS151GT8-001			Interpolated
	100	Kim Hotstart	TPS151GT8-001			Interpolated
	125	Kim Hotstart	TPS151GT8-001			Interpolated
	150	Kim Hotstart	TPS151GT8-001			Interpolated
	180	Kim Hotstart	CB125108-005			UUT 2
	200	Kim Hotstart	CB125108-005			Interpolated
	230	Kim Hotstart	CB125108-005			Interpolated
	250	Kim Hotstart	CB125108-005			Interpolated
	275	Kim Hotstart	CB125108-005			Interpolated
	300	Kim Hotstart	CB125108-005			Interpolated
	350	Kim Hotstart	CB125108-005			Interpolated
	400	Kim Hotstart	CB125108-005			Interpolated
	500	Kim Hotstart	CB125108-005			UUT 3

Table 12b - Certified Block Heaters

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Kim Hotstart	KHCL140808-2XX	**0.64**	1.0	UUT 4
REOZDx	2500	Kim Hotstart	RECSM11208			Extrapolated
	2800					UUT 5

Table 13a - Certified Oil Pumps

Series	kW	Manufacturer	Model Number[1]	S_{DS}	z/h	UUT
REOZJx	60	John Deere	5030HF285	1.93	1.0	UUT 1
	80	John Deere	4045HF285			Interpolated
	100	John Deere	4045HF285			Interpolated
	125	John Deere	4045HF285			Interpolated
	150	John Deere	6068HF285			Interpolated
	180	John Deere	6068HFG82			UUT 2
	200	John Deere	6068HFG85			Interpolated
	230	John Deere	6090HF484			Interpolated
	250	John Deere	6090HF484			Interpolated
	275	John Deere	6090HF484			Interpolated
	300	John Deere	6090HFG86			Interpolated
	350	John Deere	6135HFG84			Interpolated
	400	John Deere	6135HFG84			Interpolated
	500	John Deere	6135HFG75			UUT 3

1) All Oil Pumps are integrated parts of their respective engines

Table 13b - Certified Oil Pumps

Series	kW	Manufacturer	Model Number[1]	S_{DS}	z/h	UUT
REOZVx	550	Volvo	TAD1642GE	0.64	1.0	UUT 4
REOZDx	2500	MTU	X57320500001			Extrapolated
	2800					UUT 5

1) All Oil Pumps are integrated parts of their respective engines

Table 14a - Certified Air Filter Assemblies

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	Baldwin Filters	780004N-10	1.93	1.0	UUT 1
	80	Cummins Filtration	FHG14002-301-140-7			Extrapolated
	100	Cummins Filtration				UUT-10
	125	Cummins Filtration				Extrapolated
	150	Cummins Filtration				Extrapolated
	180	Cummins Filtration				UUT 2
	200	Donaldson Co, Inc	D120038-016-140			Extrapolated
	230	Donaldson Co, Inc				Extrapolated
	250	Donaldson Co, Inc				Extrapolated
	275	Donaldson Co, Inc				Extrapolated
	300	Donaldson Co, Inc				UUT-11
	350	Donaldson Co, Inc	FRG180031-387-140			Extrapolated
	400	Donaldson Co, Inc				Extrapolated
	500	Donaldson Co, Inc				UUT 3

Table 14b - Certified Air Filter Assemblies

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Donaldson Co, Inc	FRG180031-387-140	0.64	1.0	UUT 4
REOZDx	2500	Mann & Hummel	B120376 016-140-7			Extrapolated
	2800					UUT 5

Table 15a - Certified Engine Control Modules

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	John Deere	RE528702	1.93	1.0	UUT 1
	80	John Deere	RE526588			Interpolated
	100	John Deere	RE526588			Interpolated
	125	John Deere	RE526588			Interpolated
	150	John Deere	RE526588			Interpolated
	180	John Deere	RE531808			UUT 2
	200	John Deere	RE531808			Interpolated
	230	John Deere	RE531808			Interpolated
	250	John Deere	RE531808			Interpolated
	275	John Deere	RE531808			Interpolated
	300	John Deere	RE531808			Interpolated
	350	John Deere	RE520954			Interpolated
	400	John Deere	RE520954			Interpolated
	500	John Deere	RE520954			UUT 3

Table 15b - Certified Engine Control Modules

Series	kW	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Volvo	R41400840	**0.64**	1.0	UUT 4
REOZDx	2500	MTU	X00E50205261			Extrapolated
	2800					UUT 5

Table 16a - Certified Alternators

Series	kW Range	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	Kohler	4PX, 4QX	1.93	1	UUT 1
	80	Kohler	4PX, 4RX, 4TX			Interpolated
	100 - 125	Kohler	4RX, 4TX			Interpolated
	150	Kohler	4RX, 4SX, 4TX			Interpolated
	180	Kohler	4SX			UUT 2
	500	Marathon	5M			UUT 3

Table 16b - Certified Alternators

Series	kW Range	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Marathon	5M	**0.64**	1	UUT 4
REOZDx	2500	Marathon	10M			Interpolated
	2800					UUT 5

Table 17a - Certified Radiators

Series	kW Range	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZJx	60	JB Radiator	RS-6026	1.93	1	UUT 1
	80 - 100	JB Radiator	RS-6479			Interpolated
	125	JB Radiator	RS-6889			Interpolated
	150	JB Radiator	RS-5847			Interpolated
	180	JB Radiator	RS-7306			UUT 2
	200	JB Radiator	RS-5849			Interpolated
	230 - 300	JB Radiator	RS-6977			Interpolated
	350 - **500**	JB Radiator	RS-7311			UUT 3

Table 17b - Certified Radiators

Series	kW Range	Manufacturer	Model Number	S_{DS}	z/h	UUT
REOZVx	550	Volvo	TAD1642GE	**0.64**	1	UUT 4
REOZDx	2500	Young Touchstone	YT423458			Extrapolated
	2800					UUT 5

1) The Volvo radiator is an integrated part of the certified Volvo engine

Table 18a - Certified Skids

Series	kW Range	Manufacturer	Material / Thickness	S_{DS}	z/h	UUT
REOZJx	**60** - 275	Kohler	Carbon Steel / 7 Ga.	1.93	1	UUT 1, UUT 2
	300 - **500**	Kohler	Carbon Steel / 0.25"			UUT 3

Table 18b - Certified Skids

Series	kW Range	Manufacturer	Material / Thickness	S_{DS}	z/h	UUT
REOZVx	550	Kohler	Carbon Steel / 0.25"	**0.64**	1	UUT 4
REOZDx	2500	Lakeland Company	Carbon Steel / W18x97			Extrapolated
	2800					UUT 5

Table 19 - Certified Controllers

Series	kW Range	Manufacturer	Model Number	S_{DS}	UUT
REOZJx REOZVx REOZDx	60 - 2800	Kohler	DEC550	1.93	UUT 1, UUT 2
		Kohler	DEC3000		Interpolated
		Kohler	DEC6000		UUT 3
		Kohler	APM603		UUT 6, UUT 7A, UUT 7B, UUT 8, UUT 9

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-01A

Clark EL:8640; Test Setup #1

Model Line	Model Number	Manufacturer
REOZJx	60REOZJC	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 60 kW, Steel Enclosure, and 253 Gallon Carbon Steel 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
5,725	114	42	92	4.7	3.1	8.6

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 2016	ICC-ES AC156	2.46	1	1.5	3.94	2.95	1.65	0.66

Test Mounting Details

The generator was mounted to the seismic test table using two (2) 5/8"-11 strain bolts and two (2) 7/8"-8 strain bolts.

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

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-01B

Clark EL:8640; Test Setup #2

Model Line	Model Number	Manufacturer
REOZJx	60REOZJC	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 60 kW, and 253 Gallon Carbon Steel Tank

Options / Subcomponent Summary

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
5,125	114	42	58.6	--	3.1	8.6

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 2016	ICC-ES AC156	2.46	1	1.5	3.94	2.95	1.65	0.66

Test Mounting Details

The generator was mounted to the seismic test table using two (2) 5/8"-11 strain bolts and two (2) 7/8"-8 strain bolts.

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

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-01C

Clark EL:8640; Test Setup #3

Model Line	Model Number	Manufacturer
REOZJx	60REOZJC	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 60 kW, Aluminum Enclosure, and 253 Gallon Carbon Steel 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
5,500	114	42	92	16.4	18.7	--

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 2016	ICC-ES AC156	2.46	1	1.5	3.94	2.95	1.65	0.66

Test Mounting Details

The generator was mounted to the seismic test table using two (2) 5/8"-11 strain bolts and two (2) 7/8"-8 strain bolts.

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

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-02A

PEER STI 2013-05; UUT-1A

Model Line	Model Number	Manufacturer
REOZJx	180REOZJG	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 180 kW, Steel Enclosure, and 765 Gallon Carbon Steel Tank (Full)

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
14,030	197	53	111	3.0	5.6	8.9

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 2016	ICC-ES AC156	1.96	1	1.5	3.14	2.35	1.31	0.53

Test Mounting Details

Tank is Mounted Directly to the Fixture Using (12) 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-02B

PEER STI 2013-05; UUT-1B

Model Line	Model Number	Manufacturer
REOZJx	180REOZJG	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 180 kW, Steel Enclosure, and 765 Gallon Carbon Steel Tank (Empty)

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
8,290	197	53	111	3.1	5.8	9.2

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 2016	ICC-ES AC156	1.96	1	1.5	3.14	2.35	1.31	0.53

Test Mounting Details

Tank is Mounted Directly to the Fixture Using (12) 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-02C

PEER STI 2013-05; UUT-1C

Model Line	Model Number	Manufacturer
REOZJx	180REOZJG	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 180 kW and Steel Enclosure; No Tank

Options / Subcomponent Summary

Enclosure: 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
4,810	162	53	81	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 2016	ICC-ES AC156	1.96	1	1.5	3.14	2.35	1.31	0.53

Test Mounting Details

Skid is Mounted Directly to the Fixture 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-03A

PEER STI 2013-05, UUT-02A

Model Line	Model Number	Manufacturer
REOZJx	500REOZJB	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 500 kW, Aluminum Enclosure, and 1,763 Gallon Carbon Steel Tank (Full)

Options / Subcomponent Summary

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

UUT Properties

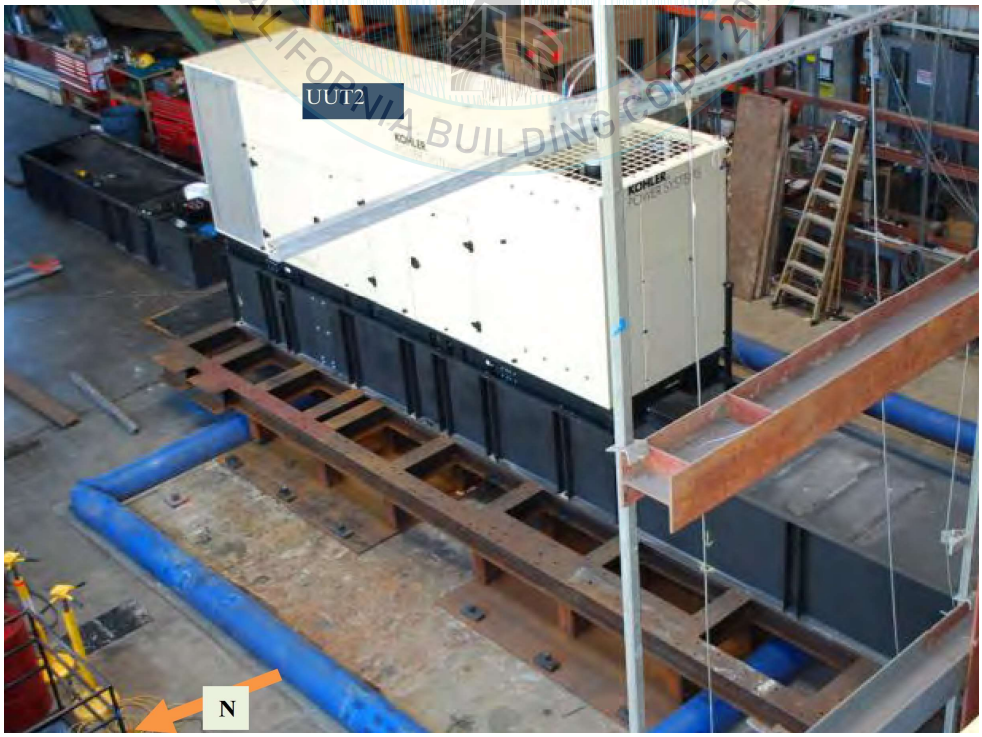
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
29,030	379	59	127	4.6	6.7	11.5

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 2016	ICC-ES AC156	1.95	1	1.5	3.12	2.34	1.30	0.52

Test Mounting Details

Tank is Mounted Directly to the Fixture 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-03B

PEER STI 2013-05, UUT-02B

Model Line	Model Number	Manufacturer
REOZJx	500REOZJB	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 500 kW, Aluminum Enclosure, and 1,763 Gallon Carbon Steel Tank (Empty)

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
15,790	379	59	127	4.3	6.1	11.0

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 2016	ICC-ES AC156	1.98	1	1.5	3.17	2.38	1.32	0.53

Test Mounting Details

Skid is Mounted Directly to the Fixture 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-03C

PEER STI 2013-05, UUT-02C

Model Line	Model Number	Manufacturer
REOZJx	500REOZJB	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 500 kW, Aluminum Enclosure, and Carbon Steel Skid; No Tank

Options / Subcomponent Summary

Enclosure: 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
9,910	230	59	92	4.7	6.3	12.1

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 2016	ICC-ES AC156	1.93	1	1.5	3.09	2.32	1.29	0.52

Test Mounting Details

Skid is Mounted Directly to the Fixture Using (16) 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-04

PEER STI 2011-04, UUT-02

Model Line	Model Number	Manufacturer
REOZx	550REOZV	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 550 kW, Carbon Steel Skid; No Enclosure; No Tank

Options / Subcomponent Summary

Engine: Volvo; Alternator: Marathon; Radiator: Volvo; Controller: Kohler

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
11,280	145	53	78	2.4	1.9	4.3

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 2016	ICC-ES AC156	1.93/0.64	0.0/1.0	1.5	1.93	0.77	1.28	0.52

Test Mounting Details

Skid is Mounted to (6) VMC M2SS-1E Seismic Spring Mounts using (6) 3/4" Grade Bolts. The Mounts are Attached to the Fixture Using (4) 3/4" Diameter Grade 8 Bolts per Mount.

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

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-05

PEER STI 2012-11, UUT-01

Model Line	Model Number	Manufacturer
REOZDx	2800REOZDB	Kohler

Product Construction Summary

Diesel Powered Electrical Generator Set 2800 kW, Carbon Steel Skid; No Enclosure; No Tank

Options / Subcomponent Summary

Engine: MTU; Alternator: Marathon; Radiator: Young Touchstone; Controller: Kohler

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
56,500	305	121	130	2.8	2.3	4.3

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 2016	ICC-ES AC156	2.25/0.75	0.0/1.0	1.5	2.25	0.90	1.50	0.6

Test Mounting Details

Skid is Mounted to (18) VMC M2SSH-1E Seismic Spring Mounts. The Mounts are Attached to the Fixture Using (2) 3/4” & (2) 5/8" Diameter Grade 8 Bolts per Mount.

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

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-06

30827-1801, UUT 1

Model Line	Model Number	Manufacturer
REOZ	APM603	Kohler

Product Construction Summary

Kohler APM603: J-Box Small

Options / Subcomponent Summary

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
179	41	28	41	14.5	13.0	13.5

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 2016	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.68	0.68

Test Mounting Details

UUT Mounted to Table Interface Fixture using (4) 5/16" Diameter, Grade 8 Bolts and Washers, (1) 3"x3"x3/16" Plate Washer

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

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-07A

30827-1801, UUT 2A

Model Line	Model Number	Manufacturer
REOZ	APM603	Kohler

Product Construction Summary

Kohler APM603: J-Box Large

Options / Subcomponent Summary

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
580	69	34	54.5	4.0	7.5	10.0

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 2016	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.68	0.68

Test Mounting Details

UUT Mounted Directly to Table Interface Fixture via Attached C-channel with (12) M8.8 Bolts and Washers

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

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-07B

30827-1801, UUT 2B

Model Line	Model Number	Manufacturer
REOZ	APM603	Kohler

Product Construction Summary

Kohler APM603: J-Box Large

Options / Subcomponent Summary

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
580	69	34	54.5	3.5	3.0	5.0

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 2016	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.68	0.68

Test Mounting Details

UUT Mounted Directly to Table Interface Fixture via Attached C-Channel with (12) M8.8 Bolts and Washers. Table Interface Fixture Bolted to (4) VMC MSSH-1E-825N Isolators using (4) 3/4" Grade 8 Bolts. Isolators Bolted Directly to Shaker Table via (16) 5/8" 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-08

30827-1801, UUT 3

Model Line	Model Number	Manufacturer
REOZ	APM603	Kohler

Product Construction Summary

Kohler APM603: UL Gap Small

Options / Subcomponent Summary

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
1,040	60	52	53	24.0	23	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS} (g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.68	0.68

Test Mounting Details

UUT mounted to table interface fixture with (8) 3/8" diameter, grade 8 bolts and washers

All units were filled with contents and maintained structural integrity and functionality after AC156 test.

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-09

30827-1801, UUT 4

Model Line	Model Number	Manufacturer
REOZ	APM603	Kohler

Product Construction Summary

Kohler APM603: UL Gap Large

Options / Subcomponent Summary

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
115	14	21	44	8.0	8.0	11.5

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS} (g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.68	0.68

Test Mounting Details

UUT mounted to wall frame via 12 gage unistrut with (8) 5/16" diameter, grade 8 bolts and washers (16) washers with (8) spring nuts

All units were filled with contents and maintained structural integrity and functionality after AC156 test.

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-10

Model Line	Model Number	Manufacturer
Emergency Power Generators	100REOZJF	Kohler

Product Construction Summary

100 kW Diesel Genset, Steel Sound Level 2 Enclosure, 816 gallons Fuel Tank

Options / Subcomponent Summary

John Deere Engine, Kohler Alternator, JB Radiators Radiator, Kohler APM603 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
12850	142	72	106.5	5.5	3.5	10

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 2016	ICC-ES AC156	2	1.00	1.5	3.2	2.4	1.34	0.54

Test Mounting Details

UUT rigidly attached to fixture using (14) Grade 8, 3/4" Dia. bolts, 2" x 2" x 1/4" carbon steel plate washer, circular washer and nut. Fixture rigidly attached to shake table.

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

UNIT UNDER TEST (UUT)
Summary Sheet

UUT-11

Model Line	Model Number	Manufacturer
Emergency Power Generators	300REOZJ	Kohler

Product Construction Summary

300 kW Diesel Genset, Steel Sound Level 2 Enclosure, 1074 gallons fuel tank

Options / Subcomponent Summary

John Deere Engine, Kohler Alternator, JB Radiators Radiator, Kohler APM402 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
18000	220	51	116	6.5	4	11

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 2016	ICC-ES AC156	2	1.00	1.5	3.2	2.4	1.34	0.54

Test Mounting Details

UUT rigidly attached to fixture using (14) Grade 8, 3/4" Dia. bolts, 2" x 2" x 1/4" carbon steel plate washer, circular washer and nut. Fixture rigidly attached to shake table.

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