



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0371-10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Baldor Generators

Manufacturer's Technical Representative: David Sawasky

Mailing Address: 3815 Oregon Street, Oshkosh, WI 54902

Telephone: 920-230-1272 Email: david.sawasky@baldor.abb.com

Product Information

Product Name: Baldor Generators

Product Type: Diesel Powered Electrical Generators

Product Model Number: 30 kW to 400 kW IDLC

(List all unique product identification numbers and/or part numbers)

General Description: Diesel powered electrical generators; on or off of UL 142 fuel tanks; with or without enclosures.

Seismic enhancements made to the test units and modifications to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Base mounted on or off of UL 142 Fuel Tanks, with or without enclosures.

Applicant Information

Applicant Company Name: The VMC Group

Contact Person: John P. Giuliano, P.E.

Mailing Address: 113 Main St., Bloomingdale, NJ 07403

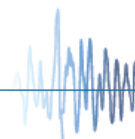
Telephone: 973-838-1780 Email: john.giuliano@thevcgroup.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant:  Date: 11/13/13

Title: President Company Name: The VMC Group

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dvnamic Needs"



osHPD



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FACILITIES DEVELOPMENT DIVISION**

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

Company Name: The VMC Group

Name: Mr. Ken Tarlow, S.E. 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): _____

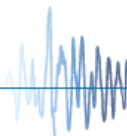
Testing Laboratory

Company Name: UC Berkeley – PEER

Contact Name: Wesley Neighbour

Mailing Address: 1301 South 46th Street, Building 420, Richmond, CA 94804

Telephone: 510-665-3409 Email: wdn@berkeley.edu





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Seismic Parameters

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

Design Basis of Equipment or Components (F_p/W_p) = 4.50 ($S_{DS} = 2.0$ g, $z/h = 1.0$) ; 1.875 ($S_{DS} = 2.5$ g, $z/h = 0.0$)

S_{DS} (Design spectral response acceleration at short period, g) = 2.0 ($z/h = 1.0$) ; 2.5 ($z/h = 0.0$)

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 2.0

Ω_0 (System overstrength factor) = 2.5

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = See Attachments

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

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, 2010: 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, 2019

Signature:  Date: 2/18/2013

Print Name: M. R. Karim Title: SHFR

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

Condition of Approval (if applicable): _____

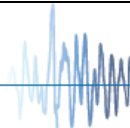


Table 1 - Certified Gensets On Tanks

Model	Max Rating (kW)	Configuration	EPA Rating	Dimensional Data				S _{DS}	z/h	UUT
				Max Length (in)	Max Width (in)	Max Height (in)	Max Weight (lbs)			
IDLC30-3J IDLC30-3JU	30	Open	Tier IT4	84.0	48.0	71.0	3,350	2.50	1.0	2A / 2B
	30	Enclosed	Tier IT4	118.5	50.0	92.5	5,180	2.50	1.0	1A / 1B
IDLC40-3J IDLC40-3JU	40	Open	Tier 3	96.0	54.0	83.0	3,885	2.50	1.0	Interpolated
	40	Enclosed	Tier 3	130.5	56.0	104.5	6,088	2.50	1.0	Interpolated
IDLC50-3J IDLC50-3JU	50	Open	Tier 3	96.0	54.0	83.0	4,188	2.50	1.0	Interpolated
	50	Enclosed	Tier 3	130.5	56.0	104.5	6,510	2.50	1.0	Interpolated
IDLC60-3J IDLC60-3JU	60	Open	Tier 3	96.0	54.0	83.0	4,735	2.50	1.0	Interpolated
	60	Enclosed	Tier 3	130.5	56.0	104.5	7,150	2.50	1.0	Interpolated
IDLC80-3J IDLC80-3JU	80	Open	Tier 3	111.0	54.0	88.0	5,435	2.50	1.0	Interpolated
	80	Enclosed	Tier 3	159.0	56.0	110.0	8,418	2.50	1.0	Interpolated
IDLC100-3J IDLC100-3JU	100	Open	Tier 3	111.0	54.0	88.0	6,085	2.50	1.0	Interpolated
	100	Enclosed	Tier 3	159.0	56.0	110.0	9,243	2.50	1.0	Interpolated
IDLC125-3J IDLC125-3JU	125	Open	Tier 3	120.0	54.0	104.0	6,937	2.50	1.0	Interpolated
	125	Enclosed	Tier 3	166.0	56.0	125.5	9,720	2.50	1.0	Interpolated
IDLC150-3J IDLC150-3JU	150	Open	Tier 3	120.0	54.0	104.0	7,487	2.50	1.0	Interpolated
	150	Enclosed	Tier 3	166.0	56.0	125.5	10,265	2.50	1.0	Interpolated
IDLC180-3J IDLC180-3JU	180	Open	Tier 3	135.0	54.0	104.0	8,657	2.50	1.0	Interpolated
	180	Enclosed	Tier 3	184.0	56.0	137.5	11,243	2.50	1.0	Interpolated
IDLC200-3J IDLC200-3JU	200	Open	Tier 3	135.0	54.0	104.0	8,907	2.50	1.0	Interpolated
	200	Enclosed	Tier 3	169.0	56.0	137.5	11,593	2.50	1.0	Interpolated
IDLC225-4J IDLC225-4JU	225	Open	Tier 3	135.0	72.0	102.0	10,261	2.50	1.0	Interpolated
	225	Enclosed	Tier 3	184.0	74.0	143.0	12,718	2.50	1.0	Interpolated
IDLC250-4J IDLC250-4JU	250	Open	Tier 3	135.0	72.0	102.0	10,770	2.50	1.0	Interpolated
	250	Enclosed	Tier 3	184.0	74.0	143.0	13,202	2.50	1.0	Interpolated
IDLC275-4J IDLC275-4JU	275	Open	Tier 3	135.0	72.0	102.0	12,347	2.50	1.0	Interpolated
	275	Enclosed	Tier 3	184.0	74.0	143.0	14,069	2.50	1.0	Interpolated
IDLC300-3J IDLC300-3JU	300	Open	Tier 3	159.0	72.0	128.0	13,496	2.50	1.0	Interpolated
	300	Enclosed	Tier 3	227.5	74.0	158.5	16,940	2.50	1.0	Interpolated
IDLC350-3J IDLC350-3JU	350	Open	Tier 3	159.0	72.0	128.0	13,974	2.50	1.0	Interpolated
	350	Enclosed	Tier 3	227.5	74.0	158.5	18,084	2.50	1.0	Interpolated
IDLC400-3J IDLC400-3JU	400	Open	Tier 3	159.0	72.0	128.0	14,716	2.50	1.0	4A / 4B
	400	Enclosed	Tier 3	227.5	74.0	158.5	19,193	2.50	1.0	3A / 3B



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Table 2 - Certified Gensets Off Tanks

Model	Max Rating (kW)	Configuration	EPA Rating	Dimensional Data				S _{DS}	z/h	UUT
				Max Length (in)	Max Width (in)	Max Height (in)	Max Weight (lbs)			
IDLC30-3J IDLC30-3JU	30	Open	Tier IT4	84.0	48.0	49.0	1,850	2.50	1.0	2C
	30	Enclosed	Tier IT4	118.5	50.0	70.5	3,680	2.50	1.0	Extrapolated
IDLC40-3J IDLC40-3JU	40	Open	Tier 3	96.0	54.0	50.0	2,085	2.50	1.0	Interpolated
	40	Enclosed	Tier 3	130.5	56.0	71.5	4,288	2.50	1.0	Extrapolated
IDLC50-3J IDLC50-3JU	50	Open	Tier 3	96.0	54.0	50.0	2,188	2.50	1.0	Interpolated
	50	Enclosed	Tier 3	130.5	56.0	71.5	4,510	2.50	1.0	Extrapolated
IDLC60-3J IDLC60-3JU	60	Open	Tier 3	96.0	54.0	50.0	2,535	2.50	1.0	Interpolated
	60	Enclosed	Tier 3	130.5	56.0	71.5	4,950	2.50	1.0	Extrapolated
IDLC80-3J IDLC80-3JU	80	Open	Tier 3	111.0	54.0	50.0	3,035	2.50	1.0	Interpolated
	80	Enclosed	Tier 3	159.0	56.0	74.0	6,018	2.50	1.0	Extrapolated
IDLC100-3J IDLC100-3JU	100	Open	Tier 3	111.0	54.0	50.0	3,185	2.50	1.0	Interpolated
	100	Enclosed	Tier 3	159.0	56.0	74.0	6,343	2.50	1.0	Extrapolated
IDLC125-3J IDLC125-3JU	125	Open	Tier 3	120.0	54.0	56.0	3,937	2.50	1.0	Interpolated
	125	Enclosed	Tier 3	166.0	56.0	79.5	6,720	2.50	1.0	Extrapolated
IDLC150-3J IDLC150-3JU	150	Open	Tier 3	120.0	54.0	56.0	4,187	2.50	1.0	Interpolated
	150	Enclosed	Tier 3	166.0	56.0	79.5	6,965	2.50	1.0	Extrapolated
IDLC180-3J IDLC180-3JU	180	Open	Tier 3	135.0	54.0	58.0	4,757	2.50	1.0	Interpolated
	180	Enclosed	Tier 3	184.0	56.0	91.5	7,343	2.50	1.0	Extrapolated
IDLC200-3J IDLC200-3JU	200	Open	Tier 3	135.0	54.0	58.0	4,907	2.50	1.0	Interpolated
	200	Enclosed	Tier 3	184.0	56.0	91.5	7,593	2.50	1.0	Extrapolated
IDLC225-4J IDLC225-4JU	225	Open	Tier 3	135.0	72.0	62.0	5,886	2.50	1.0	Interpolated
	225	Enclosed	Tier 3	184.0	74.0	95.0	8,343	2.50	1.0	Extrapolated
IDLC250-4J IDLC250-4JU	250	Open	Tier 3	135.0	72.0	62.0	6,220	2.50	1.0	Interpolated
	250	Enclosed	Tier 3	184.0	74.0	95.0	8,652	2.50	1.0	Extrapolated
IDLC275-4J IDLC275-4JU	275	Open	Tier 3	135.0	72.0	62.0	6,497	2.50	1.0	Interpolated
	275	Enclosed	Tier 3	184.0	74.0	95.0	9,219	2.50	1.0	Extrapolated
IDLC300-3J IDLC300-3JU	300	Open	Tier 3	159.0	72.0	80.0	8,396	2.50	1.0	Interpolated
	300	Enclosed	Tier 3	226.0	74.0	110.5	11,840	2.50	1.0	Extrapolated
IDLC350-3J IDLC350-3JU	350	Open	Tier 3	159.0	72.0	80.0	8,649	2.50	1.0	Interpolated
	350	Enclosed	Tier 3	226.0	74.0	110.5	12,759	2.50	1.0	Extrapolated
IDLC400-3J IDLC400-3JU	400	Open	Tier 3	159.0	72.0	80.0	8,916	2.50	1.0	4C
	400	Enclosed	Tier 3	226.0	74.0	110.5	13,393	2.50	1.0	Extrapolated



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Table 3 - Certified Enclosure Matrix

kW Range	Enclosure		Manufacturer	UUT
	Type	Baldor Part No.		
30	Steel Sound Level 1	EN5500S00 EN5500S10	Baldor	1A / 1B
	Steel Sound Level 2	EN5500S20 EN5500S30	Baldor	Interpolated
	Aluminum Sound Level 1	EN5500A00 EN5500A10	Baldor	Interpolated
	Aluminum Sound Level 2	EN5500A20 EN5500A30	Baldor	Interpolated
40-60	Steel Sound Level 1	EN5500S01 EN5500S11	Baldor	Interpolated
	Steel Sound Level 2	EN5500S21 EN5500S31	Baldor	Interpolated
	Aluminum Sound Level 1	EN5500A01 EN5500A11	Baldor	Interpolated
	Aluminum Sound Level 2	EN5500A21 EN5500A31	Baldor	Interpolated
80-100	Steel Sound Level 1	EN5500S02 EN5500S12	Baldor	Interpolated
	Steel Sound Level 2	EN5500S22 EN5500S32	Baldor	Interpolated
	Aluminum Sound Level 1	EN5500A02 EN5500A12	Baldor	Interpolated
	Aluminum Sound Level 2	EN5500A22 EN5500A32	Baldor	Interpolated
125-150	Steel Sound Level 1	EN5500S03 EN5500S13	Baldor	Interpolated
	Steel Sound Level 2	EN5500S23 EN5500S33	Baldor	Interpolated
	Aluminum Sound Level 1	EN5500A03 EN5500A13	Baldor	Interpolated
	Aluminum Sound Level 2	EN5500A23 EN5500A33	Baldor	Interpolated
180-200	Steel Sound Level 1	EN5500S04 EN5500S14	Baldor	Interpolated
	Steel Sound Level 2	EN5500S24 EN5500S34	Baldor	Interpolated
	Aluminum Sound Level 1	EN5500A04 EN5500A14	Baldor	Interpolated
	Aluminum Sound Level 2	EN5500A24 EN5500A34	Baldor	Interpolated
225-275	Steel Sound Level 1	EN5500S05 EN5500S15	Baldor	Interpolated
	Steel Sound Level 2	EN5500S25 EN5500S35	Baldor	Interpolated
	Aluminum Sound Level 1	EN5500A05 EN5500A15	Baldor	Interpolated
	Aluminum Sound Level 2	EN5500A25 EN5500A35	Baldor	Interpolated
300-400	Steel Sound Level 1	EN5500S06 EN5500S16	Baldor	Interpolated
	Steel Sound Level 2	EN5500S26 EN5500S36	Baldor	Interpolated
	Aluminum Sound Level 1	EN5500A06 EN5500A16	Baldor	Interpolated
	Aluminum Sound Level 2	EN5500A26 EN5500A36	Baldor	3A / 3B

Table 4 - Certified Tank Matrix

kW Range	Tank			UUT
	Usable Capacity (gallons)	Baldor Part No.	Manufacturer	
30	82	TA2000A01	United Alloy	Extrapolated
	148	TA2000A02		Extrapolated
	202	TA0030S72 / TA2000A03		1A / 1B / 2A / 2B
40 - 60	148	TA2000A04	United Alloy	Interpolated
	252	TA2000A05		Interpolated
	381	TA2000A06		Interpolated
80-100	218	TA2000A07	United Alloy	Interpolated
	446	TA2000A08		Interpolated
	622	TA2000A09		Interpolated
125-200	387	TA2000A10	United Alloy	Interpolated
	784	TA2000A11		Interpolated
	904	TA2000A12		Interpolated
225-275	499	TA2000A13	United Alloy	Interpolated
	1016	TA2000A14		Interpolated
	1340	TA2000A15		Interpolated
300-350	804	TA2000A16	United Alloy	Interpolated
	1554	TA2000A17		Interpolated
	1704	TA2000A18		Interpolated
400	804	TA2000A16	United Alloy	Interpolated
	1554	TA2000A17		Interpolated
	1,705	TA0400S72 / TA2000A18		3A / 3B / 4A / 4B

Table 5 - Certified Engine Matrix

kW Range	Manufacturer Model	Manufacturer	UUT
30	4024TF281	John Deere	1A / 1B / 2A / 2B / 2C
40 - 50	4024HF285	John Deere	Interpolated
60	5030HF285	John Deere	Interpolated
80-100	4045HF285	John Deere	Interpolated
125-150	6068HF285	John Deere	Interpolated
180-200	6068HFG85	John Deere	Interpolated
225 - 275	6090HF484	John Deere	Interpolated
300 - 400	6135HF485	John Deere	3A / 3B / 4A / 4B / 4C

Table 6A - Certified Engine Sub-Component Matrix

kW	Starter			Turbo/CAC Compressor		
	Manufacturer	Model Number	UUT	Manufacturer	Model Number	UUT
30	John Deere	RE508922	1A / 1B / 2A / 2B / 2C	John Deere	RE524161	1A / 1B / 2A / 2B / 2C
40	John Deere	RE508922	Interpolated	John Deere	RE539099	Interpolated
50	John Deere	RE508922	Interpolated	John Deere	RE539099	Interpolated
60	John Deere	RE508922	Interpolated	John Deere	RE535743	Interpolated
80	John Deere	RE59588	Interpolated	John Deere	RE548748	Interpolated
100	John Deere	RE59588	Interpolated	John Deere	RE548748	Interpolated
125	John Deere	RE70474	Interpolated	John Deere	RE550942	Interpolated
150	John Deere	RE70474	Interpolated	John Deere	RE550942	Interpolated
180	John Deere	RE69704	Interpolated	John Deere	RE535676	Interpolated
200	John Deere	RE69704	Interpolated	John Deere	RE535676	Interpolated
225	John Deere	RE504245	Interpolated	John Deere	RE532384	Interpolated
250	John Deere	RE504245	Interpolated	John Deere	RE532384	Interpolated
275	John Deere	RE504245	Interpolated	John Deere	RE532384	Interpolated
300	John Deere	RE546791	Interpolated	John Deere	RE548273	Interpolated
350	John Deere	RE546791	Interpolated	John Deere	RE548273	Interpolated
400	John Deere	RE546791	3A / 3B / 4A / 4B / 4C	John Deere	RE548273	3A / 3B / 4A / 4B / 4C

Table 6B - Certified Engine Sub-Component Matrix

kW	Fuel / Water Separator			Final Fuel Filter Assembly		
	Manufacturer	Model Number	UUT	Manufacturer	Model Number	UUT
30	Racor	230R30	1A / 1B / 2A / 2B / 2C	John Deere	RE508202	1A / 1B / 2A / 2B / 2C
40	Racor	230R30	Interpolated	John Deere	RE533026	Interpolated
50	Racor	230R30	Interpolated	John Deere	RE533026	Interpolated
60	Racor	230R30	Interpolated	John Deere	RE533026	Interpolated
80	Racor	230R30	Interpolated	John Deere	RE522878 ; R113565	Interpolated
100	Racor	230R30	Interpolated	John Deere	RE522878 ; R113565	Interpolated
125	Racor	230R30	Interpolated	John Deere	RE522878 ; R113565	Interpolated
150	Racor	230R30	Interpolated	John Deere	RE522878 ; R113565	Interpolated
180	Racor	230R30	Interpolated	John Deere	RE522878	Interpolated
200	Racor	490R30	Interpolated	John Deere	RE522878	Interpolated
225	Racor	490R30	Interpolated	John Deere	RE525523	Interpolated
250	Racor	490R30	Interpolated	John Deere	RE525523	Interpolated
275	Racor	490R30	Interpolated	John Deere	RE525523	Interpolated
300	Racor	490R30	Interpolated	John Deere	RE532952 ; RE533910	Interpolated
350	Racor	490R30	Interpolated	John Deere	RE532952 ; RE533910	Interpolated
400	Racor	490R30	3A / 3B / 4A / 4B / 4C	John Deere	RE532952 ; RE533910	3A / 3B / 4A / 4B / 4C

Table 6C - Certified Engine Sub-Component Matrix

kW	Water Pump			Fuel Pump		
	Manufacturer	Model Number	UUT	Manufacturer	Model Number	UUT
30	John Deere	RE545573	1A / 1B / 2A / 2B / 2C	John Deere	RE532210	1A / 1B / 2A / 2B / 2C
40	John Deere	RE545573	Interpolated	John Deere	RE536662	Interpolated
50	John Deere	RE545573	Interpolated	John Deere	RE536662	Interpolated
60	John Deere	RE545573	Interpolated	John Deere	RE536662	Interpolated
80	John Deere	RE505980	Interpolated	John Deere	RE517230	Interpolated
100	John Deere	RE505980	Interpolated	John Deere	RE517230	Interpolated
125	John Deere	RE505980	Interpolated	John Deere	RE517230	Interpolated
150	John Deere	RE505980	Interpolated	John Deere	RE517230	Interpolated
180	John Deere	RE523169	Interpolated	John Deere	RE517230	Interpolated
200	John Deere	RE523169	Interpolated	John Deere	RE517230	Interpolated
225	John Deere	RE530194	Interpolated	John Deere	RE539764	Interpolated
250	John Deere	RE530194	Interpolated	John Deere	RE539764	Interpolated
275	John Deere	RE530194	Interpolated	John Deere	RE539764	Interpolated
300	John Deere	RE549117	Interpolated	John Deere	RE540388	Interpolated
350	John Deere	RE549117	Interpolated	John Deere	RE540388	Interpolated
400	John Deere	RE549117	3A / 3B / 4A / 4B / 4C	John Deere	RE540388	3A / 3B / 4A / 4B / 4C

Table 6D - Certified Engine Sub-Component Matrix

kW	Oil Pump			Block Heater		
	Manufacturer	Model Number	UUT	Manufacturer	Model Number	UUT
30	John Deere	RE508215	1A / 1B / 2A / 2B / 2C	Hotstart	TPS, CTM	1A / 1B / 2A / 2B / 2C
40	John Deere	RE508215	Interpolated	Hotstart	TPS, CTM	Interpolated
50	John Deere	RE508215	Interpolated	Hotstart	TPS, CTM	Interpolated
60	John Deere	RE508215	Interpolated	Hotstart	TPS, CTM	Interpolated
80	John Deere	RE504914	Interpolated	Hotstart	TPS, CTM	Interpolated
100	John Deere	RE504914	Interpolated	Hotstart	TPS, CTM	Interpolated
125	John Deere	RE504914	Interpolated	Hotstart	TPS, CTM	Interpolated
150	John Deere	RE504914	Interpolated	Hotstart	TPS, CTM	Interpolated
180	John Deere	RE521756	Interpolated	Hotstart	TPS, CTM	Interpolated
200	John Deere	RE521756	Interpolated	Hotstart	TPS, CTM	Interpolated
225	John Deere	RE543187	Interpolated	Hotstart	CB & CL, CTM	Interpolated
250	John Deere	RE543187	Interpolated	Hotstart	CB & CL, CTM	Interpolated
275	John Deere	RE543187	Interpolated	Hotstart	CB & CL, CTM	Interpolated
300	John Deere	RE527933	Interpolated	Hotstart	CB & CL, CTM	Interpolated
350	John Deere	RE527933	Interpolated	Hotstart	CB & CL, CTM	Interpolated
400	John Deere	RE527933	3A / 3B / 4A / 4B / 4C	Hotstart	CB & CL, CTM	3A / 3B / 4A / 4B / 4C

Table 6E - Certified Engine Sub-Component Matrix

kW	Engine Control Module			Air Filter Assembly		
	Manufacturer	Model Number	UUT	Manufacturer	Model Number	UUT
30	John Deere	RE523966	1A / 1B / 2A / 2B / 2C	Parker	ECO II 3 inch	1A / 1B / 2A / 2B / 2C
40	John Deere	RE528702	Interpolated	Parker	ECO II 3 inch	Interpolated
50	John Deere	RE528702	Interpolated	Parker	ECO II 3 inch	Interpolated
60	John Deere	RE528702	Interpolated	Parker	ECO II 3 inch	Interpolated
80	John Deere	RE526588	Interpolated	Parker	ECO II 3 inch	Interpolated
100	John Deere	RE526588	Interpolated	Parker	ECO II 3 inch	Interpolated
125	John Deere	RE526588	Interpolated	Parker	ECO II 4 inch	Interpolated
150	John Deere	RE526588	Interpolated	Parker	ECO II 4 inch	Interpolated
180	John Deere	RE531808	Interpolated	Parker	ECO II 4 inch	Interpolated
200	John Deere	RE531808	Interpolated	Parker	ECO II 5 inch	Interpolated
225	John Deere	RE531808	Interpolated	Parker	ECO II 5 inch	Interpolated
250	John Deere	RE531808	Interpolated	Parker	ECO II 5 inch	Interpolated
275	John Deere	RE531808	Interpolated	Parker	ECO II 5 inch	Interpolated
300	John Deere	RE520954	Interpolated	Parker	ECO II 6 inch	Interpolated
350	John Deere	RE520954	Interpolated	Parker	ECO II 6 inch	Interpolated
400	John Deere	RE520954	3A / 3B / 4A / 4B / 4C	Parker	ECO II 6 inch	3A / 3B / 4A / 4B / 4C

Table 7 - Certified Alternator Matrix

kW	Manufacturer Model	Manufacturer	UUT
30	PI144G-311, PI144H-311, PI144J-311, PI144K-311, UCI224C-311 , UCI224D-311, UCI224E-311, PI144G-06, PI144H-06, PI144J-06, PI144K-06, UCI224C-06, UCI224D-06, UCI224E-06	Cummins	1A / 1B / 2A / 2B / 2C
40	PI144J-311, PI144K-311, UCI224C-311, UCI224D-311, UCI224E-311, UCI224F-311, UCI224G-311, PI144J-06, PI144K-06, UCI224C-06, UCI224D-06, UCI224E-06, UCI224F-06, UCI224G-06	Cummins	Interpolated
50	UCI224D-311, UCI224E-311, UCI224F-311, UCI224G-311, UCI274C-311, UCI224D-06, UCI224E-06, UCI224F-06, UCI224G-06, UCI274C-06	Cummins	Interpolated
60	UCI224E-311, UCI224F-311, UCI224G-311, UCI274C-311, UCI274D-311, UCI224E-06, UCI224F-06, UCI224G-06, UCI274C-06, UCI274D-06	Cummins	Interpolated
80	UCI224G-311, UCI274C-311, UCI274D-311, UCI274E-311, UCI274F-311, UCI224G-06, UCI274C-06, UCI274D-06, UCI274E-06, UCI274F-06	Cummins	Interpolated
100	UCI274C-311, UCI274D-311, UCI274E-311, UCI274F-311, UCI274G-311, UCI274C-06, UCI274D-06, UCI274E-06, UCI274F-06, UCI274G-06,	Cummins	Interpolated
125	UCI274D-311, UCI274E-311, UCI274F-311, UCI274G-311, UCI274H-311, UCI274D-06, UCI274E-06, UCI274F-06, UCI274G-06, UCI274H-06	Cummins	Interpolated
150	UCI274E-311, UCI274F-311, UCI274G-311, UCI274H-311, HCI434C-311, UCI274E-06, UCI274F-06, UCI274G-06, UCI274H-06	Cummins	Interpolated
180	UCI274G-311, UCI274H-311, HCI434C-311, HCI434D-311	Cummins	Interpolated
200	UCI274G-311, UCI274H-311, HCI434C-311, HCI434D-311, HCI434E-311	Cummins	Interpolated
225	UCDI274J-311, UCDI274K-311, HCI434C-311, HCI434D-311, HCI434E-311, HCI434F-311	Cummins	Interpolated
250	UCDI274K-311, HCI434C-311, HCI434D-311, HCI434E-311, HCI434F-311, HCI534C-311	Cummins	Interpolated
275	HCI434D-311, HCI434E-311, HCI434F-311, HCI534C-311	Cummins	Interpolated
300	HCI434D-311, HCI434E-311, HCI434F-311, HCI534C-311, HCI534D-311	Cummins	Interpolated
350	HCI434E-311, HCI434F-311, HCI534C-311, HCI534D-311, HCI534E-311	Cummins	Interpolated
400	HCI434F-311, HCI534C-311, HCI534D-311, HCI534E-311 , HCI534F-311	Cummins	3A / 3B / 4A / 4B / 4C

Table 8 - Certified Radiator Matrix

kW Range	Baldor Part Number	Manufacturer	UUT
30	CY0001A07	Cummins	1A / 1B / 2A / 2B / 2C
40 - 50	CY0001A67	Cummins	Interpolated
60	CY0001A67	Cummins	Interpolated
80 - 100	CY0001A44	Cummins	Interpolated
125 - 150	CY0001A34	Cummins	Interpolated
180 - 200	EA0006A97	Cummins	Interpolated
225 - 275	CY0001A86	Cummins	Interpolated
300 - 400	CY0001A12	Cummins	3A / 3B / 4A / 4B / 4C

Table 9 - Certified Skid Matrix

kW Range	Baldor Part Number or Material / Thickness	Manufacturer	UUT
30	HSLA steel / 7 Gauge	Baldor	1A / 1B / 2A / 2B / 2C
40 - 60	HSLA steel / 7 Gauge	Baldor	Interpolated
80 - 100	HSLA steel / 7 Gauge	Baldor	Interpolated
125 - 200	HSLA steel / 7 Gauge	Baldor	Interpolated
225 - 350	HSLA steel / 0.25"	Baldor	Interpolated
400	HSLA steel / 0.25"	Baldor	3A / 3B / 4A / 4B / 4C

HSLA = High Strength Low Alloy

Table 10 - Certified Controller Matrix

kW Range	Manufacturer Model	Manufacturer	UUT
30 - 400	IL-NT	Baldor	1A / 1B / 2A / 2B / 2C
	IG-NT	Baldor	3A / 3B / 4A / 4B / 4C

Table 11A - Certified Controller Sub-Component Matrix

kW Range	Breaker			Emergency Stop Switch		
	Manufacturer	Material	UUT	Manufacturer	Material	UUT
30 - 400	Square D	PCB	1A / 1B / 2A / 2B / 2C 3A / 3B / 4A / 4B / 4C	IDEC	Plastic	1A / 1B / 2A / 2B / 2C 3A / 3B / 4A / 4B / 4C

PCB = Printed Circuit Board

Table 11B - Certified Controller Sub-Component Matrix

kW Range	Vacuum Fluorescent Display			Key Selector Switch		
	Manufacturer	Material	UUT	Manufacturer	Material	UUT
30 - 400	ComAp	Plastic	1A / 1B / 2A / 2B / 2C 3A / 3B / 4A / 4B / 4C	IDEC	PCB	1A / 1B / 2A / 2B / 2C 3A / 3B / 4A / 4B / 4C

PCB = Printed Circuit Board

Table 11C - Certified Controller Sub-Component Matrix

kW Range	Terminal Block			Circuit Breaker		
	Manufacturer	Material	UUT	Manufacturer	Material	UUT
30 - 400	Marathon	Plastic	1A / 1B / 2A / 2B / 2C 3A / 3B / 4A / 4B / 4C	Square-D	Plastic	1A / 1B / 2A / 2B / 2C 3A / 3B / 4A / 4B / 4C
	Vernitron	Plastic	1A / 1B / 2A / 2B / 2C 3A / 3B / 4A / 4B / 4C			

Table 12 - Certified Other Sub-Components

kW Range	Description	Model Number	Manufacturer	UUT
30 - 400	Receptacle & Switch Enclosure	521711234E	Steel City / T & B	3A / 3B
30 - 400	Receptacle	2095I	Pass & Seymour	3A / 3B
30 - 400	Lighting	VK1GC	Crescent & Stonco	3A / 3B
30 - 400	Light Switches	HBL1201 / HBL1203	Hubbell	3A / 3B
30-400	Motorized Louvers	OpenAir GCA / OpenAir GMA	Siemens	3A / 3B

Steel City/T & B is one company. Steel City is a subsidiary of Thomas & Betts

Pass & Seymour is one company.

Crescent & Stonco is one company.

Table 13 - Shake Test Matrix

UUT	Model	Tank		Enclosure		Length [in]	Width [in]	Height [in]	Measured Oper Wt [lbs]	Lowest Nat. Freq.		
		Capacity [gal]	Fluid Level	Type	Material					X	Y	Z
1A	IDLC30-3JU	202	Full	Sound Lvl 1	Carbon Steel	118.50	50.00	92.50	6,100	5.8	7.0	10.9
1B	IDLC30-3JU	202	Empty	Sound Lvl 1	Carbon Steel	118.50	50.00	92.50	4,500	5.3	6.9	12.2
2A	IDLC30-3JU	202	Full	N/A	N/A	84.00	48.00	71.00	4,200	6.5	6.1	11.2
2B	IDLC30-3JU	202	Empty	N/A	N/A	84.00	48.00	71.00	2,600	6.4	6.3	13.5
2C	IDLC30-3JU	N/A	N/A	N/A	N/A	84.00	48.00	49.00	1,800	6.1	7.3	12.7
3A	IDLC400-3J	1,705	Full	Sound Lvl 2	Aluminum	227.50	74.00	158.50	26,800	4.3	7.0	9.8
3B	IDLC400-3J	1,705	Empty	Sound Lvl 2	Aluminum	227.50	74.00	158.50	14,000	2.3	6.4	12.1
4A	IDLC400-3JU	1,705	Full	N/A	N/A	159.00	72.00	128.00	25,400	6.5	6.4	9.3
4B	IDLC400-3JU	1,705	Empty	N/A	N/A	159.00	72.00	128.00	12,600	5.3	6.2	11.2
4C	IDLC400-3JU	N/A	N/A	N/A	N/A	159.00	72.00	80.00	8,900	4.8	6.1	11.7

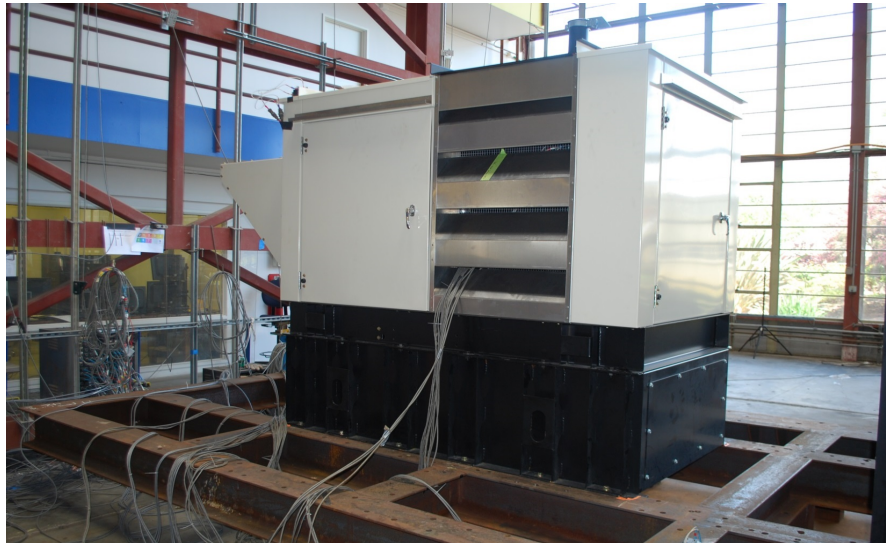
Shake Test Matrix Component Table

UUT	Engine Mnf.	Alternator Mnf.	Radiator Mnf.	Controller		S _{DS}	z/h	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	Mounting Config.
				Model	Mnf.							
1A 1B 2A 2B 2C 3A 3B 4A 4B 4C	John Deere	Cummins	Diesel Radiator	IL-NT	CompAp	2.00	1.0	3.20	2.40	1.67	0.67	Rigid
						2.50	0.0					

Notes:

- 1) All sub-base fuels tanks are UL142 certified
- 2) All units were filled with contents and maintained functionality and structural integrity.

Table 13 - Shake Test Matrix



UUTs 1A & 1B (Same Unit Tested With and Without Water)
Sub-Base Fuel Tank is Mounted Directly to the Fixture Using (12) 3/4" Diameter ASTM A490 Bolts.



UUTs 2A & 2B (Same Unit Tested With and Without Water)
Sub-Base Fuel Tank is Mounted Directly to the Fixture Using (12) 3/4" Diameter ASTM A490 Bolts.



UUT 2C
Genset Skid is Mounted Directly to the Fixture Using (12) 3/4" Diameter ASTM A490 Bolts.



UUTs 3A & 3B (Same Unit Tested With and Without Water)
Sub-Base Fuel Tank is Mounted Directly to the Fixture Using (12) 3/4" Diameter ASTM

Table 13 - Shake Test Matrix

A490 Bolts.



UUTs 4A & 4B (Same Unit Tested With and Without Water)
Sub-Base Fuel Tank is Mounted Directly to the Fixture Using (12) 3/4" Diameter ASTM A490 Bolts.



UUT 4C
Genset Skid is Mounted Directly to the Fixture Using (12) 3/4" Diameter ASTM A490 Bolts.