



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

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0694

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Professional Power Products, Inc. (3Pi)

Manufacturer's Technical Representative: Kevin Belden

Mailing Address: 448 West Madison Street, Darien, WI 53114

Telephone: (262) 882-9000

Email: Kevin.Belden@psiengines.com

Product Information

Product Name: Gas Genset Package

Product Model Number(s): 448 kW – 500kW Gas Genset Package

Product Category: Emergency and Standby Power Systems

Product Sub-Category: Generators

General Description: Enclosed Natural Gas Genset on steel base, with design changes implemented on UUT-01/448kW unit,
Added (4) latches to each enclosure door, Total (4) Doors, for details refer to UUT Sheet.

Mounting Description: Base Mounted Rigid -

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: VMC Group

Contact Person: John Giuliano

Mailing Address: Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780

Email: john.giuliano@thevmcgroup.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

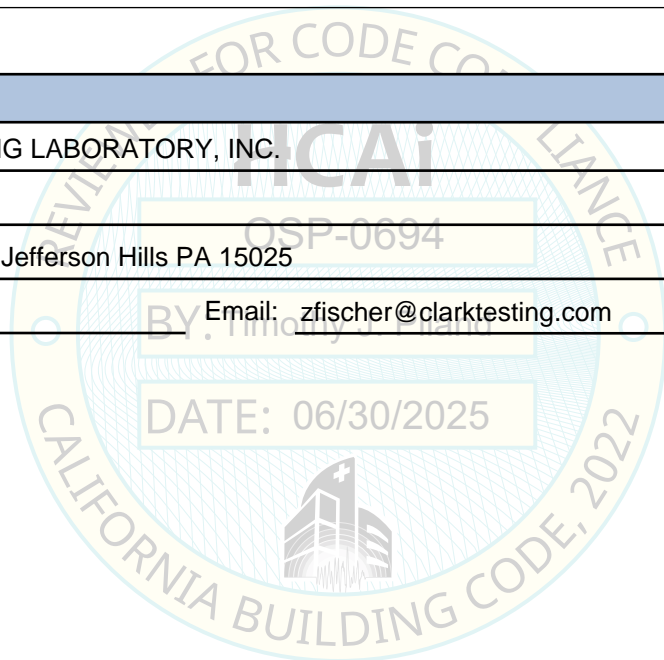
Company Name: CLARK TESTING LABORATORY, INC.

Contact Person: Zach Fischer

Mailing Address: 1801 Route 51, Jefferson Hills PA 15025

Telephone: (412) 387-1001

Email: zfischer@clarktesting.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.36

SDS (Design spectral response acceleration at short period, g) = 1.807

a_p (Amplification factor) = 2.5 internally isolated

R_p (Response modification factor) = 2.0 internally isolated

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0

Natural frequencies (Hz) = See UUT Data Sheets

Overall dimensions and weight = See Certified Product Tables

HCAI Approval (For Office Use Only) - Approval Expires on 06/30/2031

Date: 6/30/2025

Name: Timothy Piland

Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: SDS (g) = 1.807

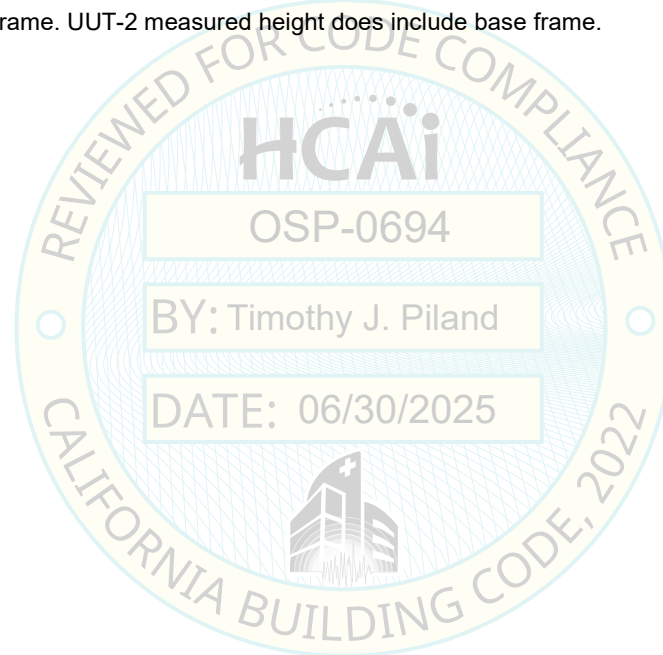
z/h = 0

Condition of Approval (if applicable):

Certified Product Table (CPT)

Model	Rating [kW]	Max. Dimensions [in]				Weight [lb]		Model Branding	UUT
		Length	Width	Height w/o Base Frame	Height w/ Base Frame	Genset Package	Base Frame		
Gas Genset Package A24500	448	120	96	119	143	16,856	2,054	Enchanted Rock	UUT-1
Gas Genset Package ERT500	500	120	96	119	143	19,217	1,760		UUT-2

1) UUT-1 measured height does not include base frame. UUT-2 measured height does include base frame.



Certified Product Subcomponent Table (CPST)

Subcomponent	Description	Part No.	Manufacturer	Weight [lb]	UUT
Enclosure	119"Hx120"Lx96"W	A24030	3PI	17,000	UUT-1
Skid Base	24"Hx120"Lx96"W	A25095	3PI	2,000	
Engine	21.9L, NG	59007017	PSI	3,813 (wet)	
Radiator	Radiator package with CAC and 4 fans and motors	P54140	API	2,149 (dry)	
Controller	ECP	P56159	Deep Sea Electronics	2	
Block Heater	JWH with pump and junction box	A24938	Hotstart	55	
Alternator	3ph, 60Hz, 480VAC	P56076	Marathon	2,500	
Battery	Dual 12V batteries, Qty. 2	P55052	Odessey	50 each	
Battery Charger	120-240V in, 24dc out, 10A	P61034	Deep Sea Electronics	2	
Main Breaker and Control Cabinet	1200A main breaker and cabinet, bus bar, load switch, genset controller, voltage regulator, wiring, misc components	A24601	3PI	250	
Make Up Oil Tank	30 gallon capacity	A24743	3PI	190	
Silencer	Dual silencers, internally insulated	P56251L/R	EI Williams	105 each	
Exhaust Catalysts	Qty. 4	38901309	PSI	25 each	
Air Cleaners	Qty. 2	P52538	Donaldson Company Inc	25 each	
Fuel Train	NG	A24039	PSI/3PI	25	
Fuel Regulator	Pressure regulator	P53444-A	Belgas	26	
Enclosure	119"Hx120"Lx96"W	49000023	Enchanted Rock	17,930	UUT-02
Skid Base	24"Hx120"Lx96"W	12500020	Enchanted Rock	1,867	
Engine	21.9L, NG, Turbocharged	GX22	HDI	3695 (wet)	
Radiator	Radiator package with CAC and 4 fans and motors (wet)	5920C	API	2268	
Controller	8-36 VDC, 16W, 12 binary inputs, 4 analog inputs	Intelligen 1000	Comap	2	
Block Heater	JWH with pump and junction box	CSM30304-000	Hotstart	54	
Alternator	3ph, 60Hz, 480VAC	AG10315S-B15T-PMG	WEG	2,905	
Battery	12V, 8D, 1400 CCA	8D-MHD	Interstate	132.3	
Battery Charger	90-135/180-305 VAC in, 24dc out, 20A	InteliCharger 480 24 20A	Comap	3	
Main Breaker	1200A main breaker and cabinet, bus bar, load switch	18300006	Enchanted Rock	196	
Control Cabinet	genset controller, voltage regulator, wiring, misc components	18301100	Enchanted Rock	98	
Make Up Oil Tank	15 gallon capacity	12000014	Enchanted Rock	248 (wet)	
Silencer	Dual silencers, internally insulated	GE5SS-3.5-SC2-SP	EI Williams	70 each	
Exhaust Catalysts	CARB DG Certified	N/A	Miratech	262 each	
Air Cleaners	5" outlet, 6" inlet, 653 cfm @ 10" WC	G130097	Donaldson Company Inc	50 each	
Fuel Train	NG, NPT 2	18400004	Enchanted Rock	33	
Fuel Regulator	Non-relieving, 2 NPT, 8.5-18" WC, 3/4" orifice	P2010160180B1D0	Belgas	26	



UNIT UNDER TEST (UUT) Summary Sheet

UUT-1

Test Report: Clark JID 20-2047

Model Line	Model Number	Manufacturer
Gas Genset Package	448 kW Gas Genset Package Model #A24500 - Serial #200421-557	3Pi for Enchanted Rock

Product Construction Summary

Carbon Steel Enclosure and Carbon Steel Base Frame. Listed UUT weight is for genset package only. Carbon Steel Base Frame weighed 2,054 lbs. Enchanted Rock Part Number for Base Frame: A25095.

Options / Subcomponent Summary

Enclosure: 3PI; Skid Base: 3PI; Engine: PSI; Radiator: API; Controller: Deep Sea Electronics; Block Heater: Hotstart; Alternator: Marathon; Battery: Odyssey; Battery Charger: Deep Sea Electronics; Breaker and Control Cabinet: 3PI; Make Up: 3PI; Silencer: El Williams; Exhaust Catalyst: 3PI; Air Cleaners: Donaldson Company Inc.; Fuel Train: PSI/3PI; Fuel Regulator: Belgas

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
16,856	119.8	96.0	143.0	4.4	3.1	15.1

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	1.81	0.0	1.5	1.81	0.72	1.21	0.49
		-	-	-	-	-	-	-

Test Mounting Details

Genset attached to steel base using eight (8) ¾"-10 grade 5 bolts. The steel base with genset was attached to shake table with (8) ¾"-10 grade 5 bolts.

DCRs: Production intent design change of added door latch lock in order to address anomalies from shake testing.



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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-2

Test Report: Clark JID 24-00685; UUT-EUT1

Model Line	Model Number	Manufacturer
Gas Genset Package	500 kW Gas Genset Package ERT500 Serial#GEN8	Enchanted Rock

Product Construction Summary

Carbon Steel Enclosure and Carbon Steel Base Frame. Listed UUT weight is for genset package only. Carbon Steel Base Frame weighed 1,760 lbs. Enchanted Rock Part Number for Base Frame: 12500020.

Options / Subcomponent Summary

Enclosure: Enchanted Rock; Skid Base: Enchanted Rock; Engine: HDI; Radiator: API; Controller: Comap; Block Heater: Hotstart; Alternator: WEG; Battery: Interstate; Battery Charger: Comap; Breaker and Control Cabinet: Enchanted Rock; Make Up: Enchanted Rock; Silencer: El Williams; Exhaust Catalyst: Miratech; Air Cleaners: Donaldson Company Inc.; Fuel Train: Enchanted Rock; Fuel Regulator: Belgas

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
19,217	120.0	96.0	143.0	3.5	3.0	16.9

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	1.81	0.0	1.5	1.81	0.72	1.21	0.49
		-	-	-	-	-	-	-

Test Mounting Details

Genset attached to steel base using eight (8) 24mm grade 8 bolts. The steel base with genset was attached to shake table with (12) 3/4"-10 grade 5 bolts.



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