



**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-0608

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: AMETEK Powervar

Manufacturer's Technical Representative: Dave Barrera

Mailing Address: 1450 Lakeside Drive, Waukegan, IL 60085

Telephone: (224) 225-4439

Email: Dave.barrera@ametek.com

Product Information

Product Name: Security II UPM (Uninterruptible Power Manager) with Extended Run Batteries

Product Model Number(s): See attachments

Product Category: UPS and Batteries

Product Sub-Category: UPS

General Description: 700 to 1440 VA units containing batteries, transformer and PCB.

Mounting Description: Rigid base mounting with or without rubber spacers.

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: DCL Labs, LLC

Contact Person: Nastya Veyngerova

Mailing Address: 1315 Greg St, Sparks, NV 89431

Telephone: (775) 385-5085

Email: nastya.veyngerova@shaketest.com

Title: Seismic Test Engineer





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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): _____

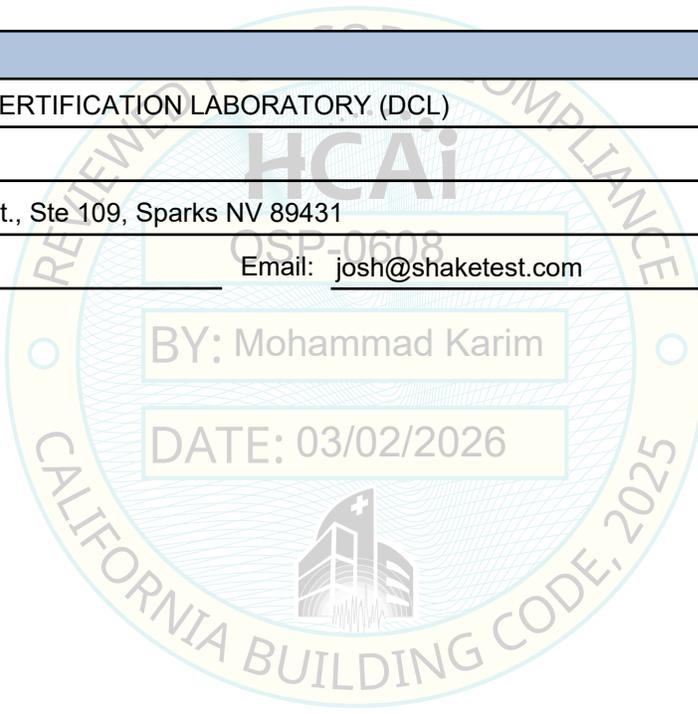
Testing Laboratory

Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)

Contact Person: Josh Sailer

Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431

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





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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), g= 3.20 (A Rig-H), g= 2.15

Vertical (A Flx-V), g= 1.33 (A Rig-V), g= 0.53

SDS (Design spectral response acceleration at short period, g) = 2.00

H_f (Force amplification height factor) = 3.5 at z/h=1.0; 1.0 at z/h=0

R_u (Structure ductility reduction factor) = 1.3 at z/h=1.0; 1.0 at z/h=0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

HCAI Approval (For Office Use Only) - Approval Expires on 03/02/2032

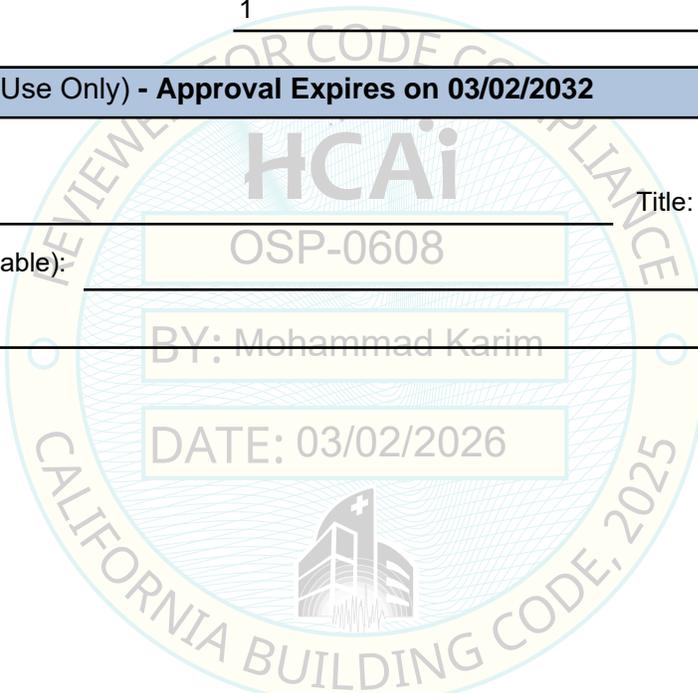
Date: 3/2/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable): OSP-0608

BY: Mohammad Karim

DATE: 03/02/2026



Special Seismic Certification
Table 1 - Certified Components



DCL Project Number: 06017-2601

Manufacturer: Ametek Powervar

Product Line: Ametek Powervar Security II UPM Tower Configuration

Certified Product Construction: Carbon Steel

Mounting: Rigid Base Mount with or without Spacer

Certified Seismic Levels: Sds=2.0g with z/h=1.0 and z/h=0.0

Factors for Force Amplification and Structure Ductility Reduction: $H_r = 3.5$ at $z/h=1.0$; 1.0 at $z/h=0$ and $R_u = 1.3$ at $z/h=1.0$; 1.0 at $z/h=0$

UPS Model Number ^{1,2}	Max. Dimensions [in.]			Weight [lb.]	Unit
	Depth	Width	Height		
ABCE702-11R-0	21.0	4.0	17.0	58	UUT 1
ABCE702-11RB/RMEDB-0	21.0	4.0	17.0	58	Interpolated
ABCE702-11RMED-0	21.0	4.0	17.0	58	UUT 3
ABCE1002-11R/RB/RMEDB/RMED-0	21.0	4.0	17.0	64	Interpolated
ABCE1442-11R/RB/RMEDB/RMED-0	21.0	4.0	17.0	70	Interpolated
ABCE702-11R/RB/RMEDB/RMED-1	21.0	8.0	17.0	130	Interpolated
ABCE1002-11R/RB/RMEDB/RMED-1	21.0	8.0	17.0	134	Interpolated
ABCE1442-11R/RB/RMEBB/RMED-1	21.0	8.0	17.0	140	Interpolated
ABCE702-11R/RB/RMEDB/RMED-2	21.0	12.0	17.0	200	Interpolated
ABCE1002-11R/RB/RMEDB/RMED-2	21.0	12.0	17.0	204	Interpolated
ABCE1442-11R-2	21.0	12.0	17.0	210	UUT 2
ABCE1442-11RB/RMEDB-2	21.0	12.0	17.0	210	Interpolated
ABCE1442-11RMED-2	21.0	12.0	17.0	210	UUT 4

Notes:

- UPS classifications R, RB, RMED, and RMEDB differ only by branding.
- Number 0,1 or 2 at the end of a UPS model number denotes the number of extended run batteries.

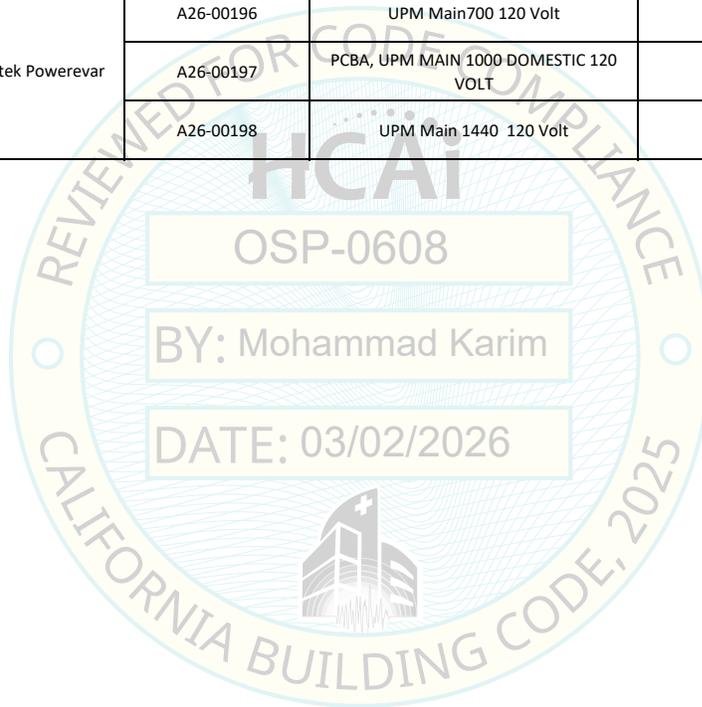
Special Seismic Certification
Table 2 - Certified Subcomponents



DCL Project Number: 06017-2601

Product Line: Ametek Powervar Security II UPM Tower Configuration

Subcomponent Type	Manufacturer	Model Number	Description	Material	Weight [lb.]	Unit
Extended Run Battery	Ametek Powervar	E4804-12	(2) each tested in UUT2 and UUT4	Lead Acid	70	UUT 2, UUT 4
Battery	Hitachi	A14-00012	700-1440 VA	Lead Acid	18	UUT 1, UUT 2, UUT 3, UUT 4
Transformer	V&F Transformer	A07-00154	700VA 120-120V 60HZ	Copper	16	UUT 1, UUT 3
		A07-00155	1000VA 120-120V 60HZ	Copper	20	Interpolated
		A07-00156	1440VA 120-120V 60HZ	Copper	26	UUT 2, UUT 4
PCB	Ametek Powerevar	A26-00196	UPM Main 700 120 Volt	PCB	<1	UUT 1, UUT 3
		A26-00197	PCBA, UPM MAIN 1000 DOMESTIC 120 VOLT	PCB	<1	Interpolated
		A26-00198	UPM Main 1440 120 Volt	PCB	<1	UUT 2, UUT 4



Special Seismic Certification
Table 3 - Tested Units



DCL Project Number: 06017-2601

Manufacturer: Ametek Powervar

Product Line: Ametek Powervar Security II UPM Tower Configuration

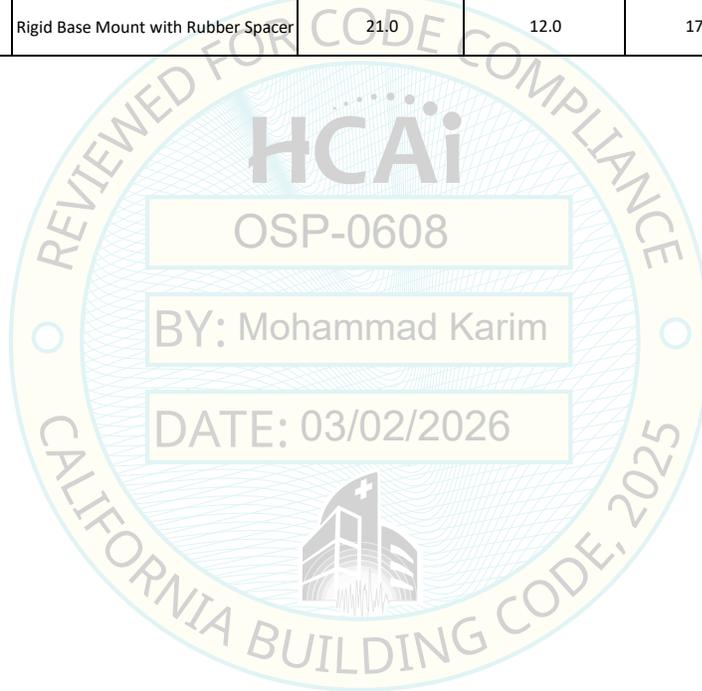
Certified Product Construction: Carbon Steel

DCL Report Number: 52324-1901

Certified Seismic Levels: Sds=2.0g with z/h=1.0 and z/h=0.0

Factors for Force Amplification and Structure Ductility Reduction: $H_r = 3.5$ at $z/h=1.0$; 1.0 at $z/h=0$ and $R_u = 1.3$ at $z/h=1.0$; 1.0 at $z/h=0$

Model Number	Mounting	Max. Dimensions [in.]			Measured Weight [lb.]	Unit
		Depth	Width	Height		
ABCE702-11R-0	Rigid Base Mount without Rubber Spacer	21.0	4.0	17.0	58	UUT 1
ABCE1442-11R-2	Rigid Base Mount without Rubber Spacer	21.0	12.0	17.0	210	UUT 2
ABCE702-11RMED-0	Rigid Base Mount with Rubber Spacer	21.0	4.0	17.0	58	UUT 3
ABCE1442-11RMED-2	Rigid Base Mount with Rubber Spacer	21.0	12.0	17.0	210	UUT 4



UNIT UNDER TEST (UUT) Summary Sheet



UUT 1

DCL Report Number: 52324-1901

Test Dates: May 8, 2019

Manufacturer: Ametek Powervar

Product Line: Ametek Powervar Security II UPM Tower Configuration

Model Number: ABCE702-11R-0

Product Construction Summary: Carbon steel enclosure

Options / Component Summary: Lead acid battery: Hitachi (A14-00012); copper transformer: V&F Transformer (A07-00154); PCB: Ametek Powervar (A26-00196)

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
58	21.0	4.0	17.0	23.5	>33.3	>33.3

Seismic Test Parameters

Building Code	Test Criteria	S _{ds} (g)	z/h	H _r	R _μ	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES	2.00	1.0	3.5	1.3	1.5	3.20	2.40	N/A	N/A
	AC156-24	2.00	0.0	1.0	1.0		N/A	N/A	1.33	0.53

Unit Mounting Description: UUT 1 was rigid base mounted to the DCL interface fixture with a strap assembly at the front and rear of the unit. The assembly consisted of (2) 1" wide by 0.060" thick heavyweight polypropylene cam straps (Manufacturer: Strapworks, Model Number: CS1H8PB, 50lbs tension / 675 lb working load limit) looped through (4) seismic brackets supplied by Ametek Powervar (Part Number A05-00929) and (2) rackmount brackets supplied by Ametek Powervar (Part Number A05-00942). Each bracket was fastened to the DCL interface fixture with a 3/8" diameter, grade 5, bolt. Bolts were spaced at 14" lengthwise and 6" widthwise on center.



DATE: 03/02/2026

UNIT UNDER TEST (UUT) Summary Sheet



UUT 2

DCL Report Number: 52324-1901

Test Dates: May 8, 2019

Manufacturer: Ametek Powervar

Product Line: Ametek Powervar Security II UPM Tower Configuration

Model Number: ABCE1442-11R-2

Product Construction Summary: Carbon steel enclosure

Options / Component Summary: Lead acid battery: Hitachi (A14-00012); lead acid extended run battery: Ametek Powervar (E4804-12); copper transformer: V&F Transformer (A07-00156); PCB: Ametek Powervar (A26-00198)

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

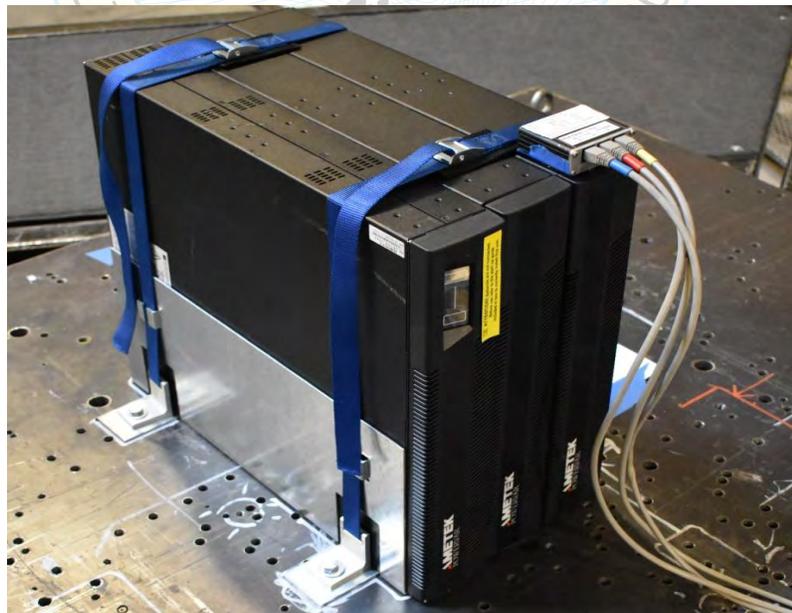
UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
210	21.0	12.0	17.0	>33.3	>33.3	>33.3

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _f	R _μ	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES	2.00	1.0	3.5	1.3	1.5	3.20	2.40	N/A	N/A
	AC156-24	2.00	0.0	1.0	1.0		N/A	N/A	1.33	0.53

Unit Mounting Description: UUT 2 was rigid base mounted to the DCL interface fixture with a strap assembly at the front and rear of the unit. The assembly consisted of (2) 1" wide by 0.060" thick heavyweight polypropylene cam straps (Manufacturer: Strapworks, Model Number: CS1H8PB, 50lbs tension / 675 lb working load limit) looped through (4) seismic brackets supplied by Ametek Powervar (Part Number A05-00929), (2) rackmount brackets supplied by Ametek Powervar (Part Number A05-00942), and (4) rackmount link plates supplied by Ametek Powervar (Part Number A05-00943). Each bracket was fastened to the DCL interface fixture with a 3/8" diameter, grade 5, bolt. Bolts were spaced at 14" lengthwise and 13" widthwise on center.



UNIT UNDER TEST (UUT) Summary Sheet



UUT 3

DCL Report Number: 52324-1901

Test Dates: May 8, 2019

Manufacturer: Ametek Powervar

Product Line: Ametek Powervar Security II UPM Tower Configuration

Model Number: ABCE702-11RMED-0

Product Construction Summary: Carbon steel enclosure

Options / Component Summary: Lead acid battery: Hitachi (A14-00012); copper transformer: V&F Transformer (A07-00154); PCB: Ametek Powervar (A26-00196)

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
58	21.0	4.0	17.0	18.5	>33.3	>33.3

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _f	R _μ	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES	2.00	1.0	3.5	1.3	1.5	3.20	2.40	N/A	N/A
	AC156-24	2.00	0.0	1.0	1.0		N/A	N/A	1.33	0.53

Unit Mounting Description: UUT 3 was rigid base mounted to the DCL interface fixture with a strap assembly at the front and rear of the unit. The assembly consisted of (2) 1" wide by 0.060" thick heavyweight polypropylene cam straps (Manufacturer: Strapworks, Model Number: CS1H8PB, 50lbs tension / 675 lb working load limit) looped through (4) seismic brackets supplied by Ametek Powervar (Part Number A05-00929) and (2) rackmount brackets supplied by Ametek Powervar (Part Number A05-00942). Each bracket was fastened to the DCL interface fixture with a 3/8" diameter, grade 5, bolt through a 0.5" rubber spacer supplied by Ametek Powervar (Part Number A05-00055). Bolts were spaced at 14" lengthwise and 6" widthwise on center.



UNIT UNDER TEST (UUT) Summary Sheet



UUT 4

DCL Report Number: 52324-1901

Test Dates: May 8, 2019

Manufacturer: Ametek Powervar

Product Line: Ametek Powervar Security II UPM Tower Configuration

Model Number: ABCE1442-11RMED-2

Product Construction Summary: Carbon steel enclosure

Options / Component Summary: Lead acid battery: Hitachi (A14-00012); lead acid extended run battery: Ametek Powervar (E4804-12); copper transformer: V&F Transformer (A07-00156); PCB: Ametek Powervar (A26-00198)

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
210	21.0	12.0	17.0	7.0	>33.3	>33.3

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _f	R _μ	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES	2.00	1.0	3.5	1.3	1.5	3.20	2.40	N/A	N/A
	AC156-24	2.00	0.0	1.0	1.0		N/A	N/A	1.33	0.53

Unit Mounting Description: UUT 4 was rigid base mounted to the DCL interface fixture with a strap assembly at the front and rear of the unit. The assembly consisted of (2) 1" wide by 0.060" thick heavyweight polypropylene cam straps (Manufacturer: Strapworks, Model Number: CS1H8PB, 50lbs tension / 675 lb working load limit) looped through (4) seismic brackets supplied by Ametek Powervar (Part Number A05-00929), (2) rackmount brackets supplied by Ametek Powervar (Part Number A05-00942), and (4) rackmount link plates supplied by Ametek Powervar (Part Number A05-00943). Each bracket was fastened to the DCL interface fixture with a 3/8" diameter, grade 5, bolt through a 0.5" rubber spacer supplied by Ametek Powervar (Part Number A05-00055). Bolts were spaced at 14" lengthwise and 13" widthwise on center.

