

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0198
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Jeron Electronic Systems, Inc.	
Manufacturer's Technical Representative: Matt Chesnul	
Mailing Address: 7501 N. Natchez Ave., Niles, IL 60714	
Telephone: (773) 275-1900 Email: mchesnul@jero	on.com
FORCODECC	
Product Information	MD,
Product Name: Electrical Control Panels on Life Safety/Critical Branch	
Product Type: Nurse Call Stations	Z
Product Model Number: Provider 680 in 6888 Main Equipment Cabinet; an Cabinet	nd Provider 790 in 7988 or 7989 Main Equipment
General Description: Provider nurse call systems consist of equipment power supply assemblies.	cabinets that contain control modules, network and
Mounting Description: Rigid, Wall Mounted DATE: 02/22/2022	2 9
Tested Seismic Enhancements: None	6
Applicant Information	Dr.
Applicant Company Name: Dynamic Certification Laboratories	
Contact Person: Kelly Laplace	
Mailing Address: 1315 Greg Parkway #109, Sparks, NV 89431	
Telephone: (775) 358-5085 Email: Kelly@shakete	est.com
Title: Business Manager	

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





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California Licensed Structural Engineer Responsible for the Engineering and Tes	t Report(s)								
Company Name: THE VMC GROUP									
Name: Kenneth Tarlow California License Number: S28	51								
Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814									
Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com									
Certification Method									
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 6	93 🗌 NEBS 3								
Other (Please Specify):									
FORCODECO									
Testing Laboratory									
Company Name: ELEMENT MATERIALS TECHNOLOGY									
Contact Person: Kent Erickson									
Mailing Address: 9725 Girard Ave South, Minneapolis MN 55431									
Telephone: (952) 888-7795 Email: kle@environlab.com									
O DATE: 02/22/2022									
PLIA									
DATE: 02/22/2022									

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Seismic Parameters

Design Basis of Equipment or Co	omponents	s (Fp/Wp) = 1.87							
SDS (Design spectral resp	onse accel	eration at short period, g) = 2.49							
ap (Amplification factor) =		2.5							
Rp (Response modificatior	n factor) =	6.0							
Ω_0 (System overstrength f	Ω_0 (System overstrength factor) = 2.0								
Ip (Importance factor) =		1.5							
z/h (Height ratio factor) =		1							
Natural frequencies (Hz) =	:	See Attachment							
Overall dimensions and we	eight =	See Attachment							
		ED FORMER ON							
			4						
HCAI Approval (For Office U	se Only) -	Approval Expires on 02/22/2028	8 1/						
Date: 2/22/2022	4	OSP-0198	G						
Name: Mohammad Karim			Title:	Supervisor, Health Facilities					
Special Seismic Certification Val	id Up to <mark>:</mark> S	BY Mohammad Karim $(g) = 2.49$	z/h =	1					
Condition of Approval (if applicat	ole):	DATE: 02/22/2022	0						
	ALT	PRVIA BUILDING COS	1022						

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Special Seismic Certification Table 1 - Certified Components



DCL Project Number:	50820-2201					LABORATOR	ES,LLC					
Manufacturer:	Jeron Electronic Systems, In	IC.										
Product Type:	Nurse Call Systems	Nurse Call Systems										
Product Line:	Provider Nurse Call System	Cabinets										
Mounting Configuration:	Rigid Wall Mount											
Test Levels:	S _{DS} = 2.49g, z/h=1.0	ORCODE										
			Max.	Dimensio	ns (in)	Max. Weight (lb.)	Unit					
Model Number	Product Line	Construction Material										
Woder Number			Depth	Width	Height	(Ib.)						
680	Provider	16 Ga. Carbon Steel Enclosure	Depth 4	18	Height 24	(Ib.) 44	1					

	BY: Mohammad Karim
	DATE: 02/22/2022
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	Plus
	A BUILDING
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Special Seismic Certification Table 2 - Certified Subcomponents



DCL Project Number:	50820-2201							
Certified seismic level :	S _{DS} = 2.49g, z/h=1.0							
			Enclosures					
Model Number	Manufacturer	Description	Material	Di	imensions (in)	Weight (lb.)	Unit
Model Number	Wanutacturer	Description	D CODE	Depth	Width	Height	vveigit (ib.)	Onit
6888	Jeron	Provider 680	16 Ga. Carbon Steel	4	18	24	21	1
7988	Jeron	Provider 790	16 Ga. Carbon Steel	4	18	24	21	Interpolated
7989	Jeron	Provider 790	16 Ga. Carbon Steel	4	24	30	33	2
Special Seismi Table 3 - Certif	c Certification fied Subcompon	ents	OSP-0198	The second				
DCL Project Number:	50820-2201	O BY:	Mohammad Karim					
Certified seismic level :	S _{DS} = 2.49g, z/h=1.0		E: 02/22/2022	5				
		ZWassas	Electrical Components	15				
Model Number	Manufacturer	Component Type		Descript	ion			Unit
6850	Jeron	Main Control Unit	O DEC	Circuit Bo	bard			1
6851	Jeron	Power Supply	BI II DIN (1n: 105-1	32V; Out: 2	8VDC @ 10	0VA		1
7995	Jeron	Power Supply	In: 120V/	AC, 2A; Out:	40VDC, 10	0VA		2
7991	Jeron	Ethernet Switch	40V @ 3	.9W, Alumi	num Enclos	ure		2
7993	Jeron	Gateway	40V @ 2	.2W, Alumi	num Enclos	ure		2
13606	Jeron	Logic Assembly	PCB, Su	ubassembly	of MCU 68	50		1
13605	Jeron	Audio Assembly	PCB, Su	ubassembly	of MCU 68	50		1
13419	loron	Mastar Assambly	PCB, Su		1			
13419	Jeron	Master Assembly	T					

Special Seismic Certification Table 4 - Tested Units



DCL Project Number:	50820-2201			LA	BORATORI	ES,LLC				
Manufacturer:	Jeron Electronic Systems, Inc.									
Product Line:	Provider Nurse Call System Cabinets									
Cabinet Type	Model Numbers	Dimensions (in) Depth Dimensions Height	Weight (lb.)	Mounting Configuration	Sds (g) z/h=1	Unit				
Nurse Call Systems	Provider 680	4 18 24	44	Rigid Wall Mount	2.49	1				
Nurse Call Systems	Provider 790	4 24 30	51	Rigid Wall Mount	2.49	2				



UUT-01 UNIT UNDER TEST (UUT) Summary Sheet



DCL Project Number:

50820-2201

Manufacturer: Jeron Electronic Systems, Inc.

Product Line: Provider Nurse Call System Cabinets

Model Number: Provider 680

Product Construction Summary:

16Ga. Carbon Steel Enclosure

Options / Component Summary:

Enclosure - 6888, Main Control Unit - 6850, Power Supply Unit - 6851, Logic Assembly - 13606, Audio Assembly - 13605, Master Assembly - 13419, Bus Assembly - 13418

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.

5	2	00	T Propertie	es				
14	Dimensions (inches)				Lowest Natural Frequency (Hz)			
Depth Width		Н	eight	Front-Back	Side-Side	Vertical N/A		
4.0	4.0 18.0 051 -01 24.0		24.0	N/A	N/A			
		Seismic	Test Parar	neters				
Test <mark>Criteria</mark>	Sds (g)	Mz/hai	nmpad	Aflx-H (g)	Arig <mark>-H (g)</mark>	Aflx-V (g)	Arig-V (g)	
ICC-E <mark>S AC15</mark> 6	2.49	1.0	1.5	3.98	2 <mark>.99</mark>	1.67	0.67	
-	4.0 Test Criteria	Depth Wi 4,0 18 Test Criteria Sds (g)	Dimensions (incher Depth Width 4.0 18.0 Seismic Test Criteria Sds (g) Z/har	Dimensions (inches) Depth Width 4.0 18.0 Seismic Test Parar Test Criteria Sds (g) Z/hamlpd	Dimensions (inches) Depth Width Height 4.0 18.0 -0124.0 Seismic Test Parameters Test Criteria Sds (g) Z/hanned Aflx-H (g)	Dimensions (inches) Lowest I Depth Width Height Front-Back 4.0 18.0 -0 24.0 N/A Seismic Test Parameters Test Criteria Sds (g) Z/h an Ipd Aflx-H (g)	Dimensions (inches) Lowest Natural Freque Depth Width Height Front-Back Side-Side 4.0 18.0 -0 24.0 N/A N/A Seismic Test Parameters Test Criteria Sds (g) Z/h Ip	

Unit Mounting Description:

DATF: 02/22 Rigid wall mounted with (4) ungraded #10-32 pan head sheet metal screws



Overall view of UUT-01

UUT-02 UNIT UNDER TEST (UUT) Summary Sheet



DCL Project Number:

50820-2201

Manufacturer: Jeron Electronic Systems, Inc.

Product Line: Provider Nurse Call System Cabinets

Model Number: Provider 790

Product Construction Summary:

16Ga. Carbon Steel Enclosure

Options / Component Summary:

Enclosure - 7989, Ethernet Switch - 7991, Gateway - 7993, Power Supply Unit - 7995

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.

		1-1-	רטט	Propertie	es				
Operating Weight	14	Dimensions (inches)				Lowest Natural Frequency (Hz)			
(lb)	(lb) Depth Width		th	Height		Front-Back	Side-Side	Vertical	
51	4.0	4.0 24.0 051 -01 30.0		30.0	N/A	N/A	N/A		
			Seismic 1	Test Parar	neters				
Building Code	Test <mark>Cr</mark> iteria	Sds (g)	/lz/har	nmpad	Afix-H (g)	Arig <mark>-H (g)</mark>	Aflx-V (g)	Arig-V (g)	
CBC 2019	ICC-E <mark>S AC15</mark> 6	2.49	1.0	1.5	3.98	2 <mark>.99</mark>	1.67	0.67	

Unit Mounting Description:

Rigid wall mounted with (4) ungraded #10-32 pan head sheet metal screws.



Overall view of UUT-02