APPLICATION FOR OSHPD SPECIAL SEISMIC ERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP - 0071	
SHPD Special Seismic Certification Preapproval (OSP)	
ype:	
lanufacturer Information	
anufacturer: Honeywell	
anufacturer's Technical Representative: Michael Yanokfsky	
ailing Address: 12 Clintonville Road, Northford, CT 06472	
elephone: (203)-484-6247 Email: Michael. Yanofsky@honeywell.com	
roduct Information	
roduct Name: Fire-Lite OSHPD	
roduct Type: Fire Control Panels OSP-0071	
roduct Model Number: Varies (See Attachments) ist all unique product identification numbers and/or part numbers) hammad Aliaari	
eneral Description: Wall Mounted custom Fire Control Panels with Communication Devices	
DATE: 11/30/2020	
ounting Description: Rigid Wall Mounted	
pplicant Information	
pplicant Information pplicant Company Name: The VMC Group	
ontact Person:John P. Giuliano	
ailing Address:113 Main Street, Bloomingdale, NJ 07403	
elephone: (973)-838-1780 Email: john.giuliano@thevmcgroup.com	
hereby agree to reimburse the Office of Statewide Health Planning and Development review fees coordance with the California Administrative Code, 2016.	in
ignature of Applicant: Date: 11/16/2020	
itle: President Company Name: VMC Group	

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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: SE2851
Mailing Address: 113 Main Street, 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): OSP-0071 BY: Mohammad Aliaari
Testing Laboratory DATE: 11/30/2020
Company Name: PEER, UC Berkeley
Contact Name: Wesley Neighbour
Mailing Address: 1301 South 46th Street, Building 420, Richmond, CA 94804
Telephone: (510)-665-3409 Email: wdn@berkeley.edu
Company Name: Dynamic Certification Laboratories
Contact Name: Kelly Laplace
Mailing Address: 1315 Greg Street, Suite 109, Sparks, NV 89432
Telephone:(775)-358-5085

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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes □ No
Design Basis of Equipment or Components $(F_p/W_p) = 1.50 (z/h = 1.0); 1.13 (z/h = 0.0)$
S _{DS} (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1.0); 2.50 (z/h = 0.0)
a _p (In-structure equipment or component amplification factor) = <u>2.5</u>
R _p (Equipment or component response modification factor) = 6.0
Ω_0 (System overstrength factor) = 2.0
I _P (Importance factor) = 1.5
z/h (Height factor ratio) = 1.0 (S _{DS} =2.00), 0.0 (S _{DS} =2.50)
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) = BY: Mohammad Aliaari
C _d (Deflection amplification factor) =
I_P (Importance factor) = 1.5 DATE: 11/30/2020
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
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: Date: November 30, 2020
Print Name: Mohammad Aliaari Title: Senior Structural Engineer
Special Seismic Certification Valid Up to : $S_{DS}(g) = See \ Above$ $z/h = See \ Above$
Condition of Approval (if applicable):

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





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Table 1 - Certified Product Table

Product				Input	Frequency	Max D	imension	s [in]	Max	
Family	Model Number	Description	Mat.	Voltage [V]	[Hz]	Width	Length	Depth	Weight [lb]	UUT
	LTE-CAB-FL	Houses an LTE (cellular) communicator card for central station reporting	CRS	N/A	N/A	10.4	10.2	3.2	4.8	UUT-11
	CELL-CAB-FL	Houses an GSM (cellular) communicator card for central station reporting	CRS	N/A	N/A	10.2	10.4	3.2	4.4	Extrapolated
	CELL-MOD	Houses an GSM (cellular) communicator card for central station reporting	Plastic	NA	N/A	7.8	6.0	1.5	0.8	UUT-10
Fire-Lite	LTE-MOD	Houses an LTE (cellular) communicator card for central station reporting	Plastic	N/A	N/A	7.8	6.0	1.5	0.8	Extrapolated
	MS-2 (E)	2-Zone Fire Alarm Control Panel	-cs/	120/240 AC	60 / 50 Hz	15.0	14.5	3.7	23.8	Extrapolated
	MS-4 (E)	4-Zone Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	15.0	14.5	3.7	24.0	UUT-01
	FCPS-24FS6 (C)(E)	6A Remote Power Supply	CS	120/240 AC	6 <mark>0 / 5</mark> 0 Hz	15.0	14.5	3.7	30.2	Interpolated
	FCPS-24FS8 (C)(E)	8A Remote Power Supply	CS	120/240 AC	60 / 50 Hz	15.0	14.5	3.7	31.0	UUT-02
	HPFF8 (E)	8A Remote Power Supply	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	44.5	Interpolated
	HPFF8CM (E)	8A Remote Power Supply Chassis //	CSO:	120/240 AC	60 / 50 Hz	8.3	19.5	2.8	25.4	Interpolated
	HPFF12CM (E)	12A Remote Power Supply Chassis	CS	120/240 AC	60 / 50 Hz	6.3	8.8	2.9	28.3	Interpolated
	HPFF12 (E)	12A Remote Power Supply	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	45.6	Interpolated

- 1) The CELL-CAB-FL is identical to the LTE-CAB-FL except for software
- 2) The LTE-MOD is identical to the CAB-MOD except for software
- 3) The HPFF remote power supplies use the same enclousres and have their boards mounted via the same means as the tested MS units
- 4) Honeywell is the manufacturer for all Certified Products
- 5) CS = Carbon Steel
- 6) CRS = Cold Rolled Steel
- 7) Where applicable, the last character in model number listing in parentheses denotes for use outside USA. (C) = Canada; (C-FR) = Canada, French; (E) = Export
- 8) All units certified, as tested, for rigid wall mounting at S_{DS} = 2.0 (z/h=1), and S_{DS} =2.5 (z/h=0)

Table 1 - Certified Product Table (Continued)

Product				Input	Frequency	Max D	imensior	ns [in]	Max	
Family	Model Number	Description	Mat.	Voltage [V]	[Hz]	Width	Length	Depth	Weight [lb]	UUT
	BB-17F	Battery Box BB-17F	CS	24V - DC	NA	14.5	8.5	4.7	31.7	Interpolated
	BB-26	Battery Box BB-26	CS	24V - DC	NA	15.5	15.6	5.1	48.0	UUT-03
	MS-5UD-3 (E)	5-Zone Fire Alarm Control Panel 3 Amp	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	55.3	Interpolated
	MS-5UD-7 C(C-FR)(E)	5-Zone Fire Alarm Control Panel 7 Amp	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	53.6	Interpolated
	MRP-2001 C (C-FR) (E)	Deluge/Preaction Control Panel	CS_	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	52.1	Interpolated
	MRP-2002 C(C-FR)(E)	Agent Release Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	52.1	Interpolated
	MS-10UD-3 (E)	10-Zone Fire Alarm Control Panel 3 Amp	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	55.5	Interpolated
	MS-10UD-7 C(C-FR)(E)	10-Zone Fire Alarm Control Panel 7 Amp	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	26.0	UUT-04
	MS-9050UD C(C-FR)(E)	50-Point Addressable Fire Alarm Control Panel	cs	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	54.7	Interpolated
Fire-Lite	ES-50X	50-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	33.0	UUT-09
File-Lite	ES-50XI	50-Point Addressable Fire Alarm Control Panel	mcsl /	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	46.6	Interpolated
	ES-50XC	50-Point Addressable Fire Alarm Control Panel DATE: 11/3	cs 0/20	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	50.4	Interpolated
	ES-50XC-FR	50-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	50.4	Interpolated
	MS-9200UDLS C(C-FR)(E)	198-Point Addressable Fire Alarm Control Panel	cs	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	57.7	Interpolated
	ES-200X	198-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	46.6	Interpolated
	ES-200XI	198-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	46.6	Interpolated

- 1) The HPFF remote power supplies use the same enclousres and have their boards mounted via the same means as the tested MS units
- 2) Honeywell is the manufacturer for all Certified Products
- 3) CS = Carbon Steel
- 4) Where applicable, the last character in model number listing in parentheses denotes for use outside USA. (C) = Canada; (C-FR) = Canada, French; (E) = Export
- 5) All units certified, as tested, for rigid wall mounting at S_{DS} = 2.0 (z/h=1), and S_{DS} =2.5 (z/h=0)

Table 1 - Certified Product Table (Continued)

Product				Input	Frequency	Max D	imensior	ns [in]	Max	
Family	Model Number	Description	cription Mat.		[Hz]	Width	Length	Depth	Weight [lb]	UUT
	ES-200XC	198-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	54.0	UUT-08
	ES-200XC-FR	198-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	50.4	Interpolated
Fire-Lite	MS-9600LS C(C-FR)(E)	636-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	53.6	Interpolated
I lie-Lite	MS-9600UDLS (C)(E)	636-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	53.0	UUT-05
	ECC-LOC	Emergency Command Center Panel - LOC	cs	24V - DC	& NA	19.0	16.7	5.2	19.0	UUT-07
	ECC-FFT	Firefighter Telephone Panel	-cs/	24V - DC	NA	19.0	16.7	5.2	20.4	Interpolated
	ECC-50/100 (E)	Emergency Command Center Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	57.0	UUT-06

Notes

1) The HPFF remote power supplies use the same enclosures and have their boards mounted via the same means as the tested MS units

2) Honeywell is the manufacturer for all Certified Products

3) CS = Carbon Steel

4) Where applicable, the last character in model number listing in parentheses denotes for use outside USA. (C) = Canada; (C-FR) = Canada, French; (E) = Export

DATE: 11/30/2020

5) All units certified, as tested, for rigid wall mounting at $S_{DS} = 2.0$ (z/h=1), and $S_{DS} = 2.5$ (z/h=0)

11/30/2020 OSP-0071 Page 6 of 23 **Table 2 - Alternate Branding OEM Chart**

Table 2 - Aite		<u> </u>		Private	Label/OEM Model Nu	mbers			
Fire-Lite Model Number	UUT	Notifier	Gamewell FCI	Silent Knight	тусо	Honeywell	System Sensor	Tyco Fire Protection (ANSUL)	Minimax
MS-2	N/A	SFP-2402	GWF402	SK-2	N/A	N/A	N/A	N/A	N/A
MS-4	UUT-01	SFP-2404	GWF404	SK-4	N/A	N/A	N/A	N/A	N/A
FCPS-24FS6	N/A	FCPS-24S6[R]	N/A	N/A	N/A	HPF24S6	N/A	N/A	N/A
FCPS-24FS8	UUT-02	FCPS-24S8[R]	N/A	N/A DDE	N/A	HPF24S8	N/A	N/A	N/A
HPFF8	N/A	N/A	N/A	N/A	COA N/A	HPFF8	N/A	N/A	N/A
HPFF8CM	N/A	N/A	N/A	N/A	N/A	HPFF8CM	N/A	N/A	N/A
HPFF12CM	N/A	N/A	N/A	N/A L	N/A	HPFF12CM	N/A	N/A	N/A
HPFF12	N/A	N/A	N/A	N/A	N/A	HPFF12	N/A	N/A	N/A
BB-17F	N/A	N/A	N/A	N/A	BB-17	N/A	N/A	N/A	N/A
MS-5UD-3	N/A	SFP-5UD[R]	GF505	SK-5UD	UNIMODE-5UD	N/A	N/A	N/A	N/A
MRP-2001	N/A	RP-2001	GF506D	N/A	N/A	N/A	PDRP-2001	AP-542D	N/A
MRP-2002	N/A	RP-2002	GF506R	N/A N/A	Alicari N/A	N/A	PDRP-2002	AP-542R	MX-2002
MS-10UD-7	UUT-04	SFP-10UD[R]	GF510	N/A	UNIMODE-10UD	N/A	N/A	N/A	N/A
MS-9050UD	N/A	NFW-50[R]	N/A	N/A	UNIMODE9050UD	N/A	N/A	N/A	N/A
MS-9200UDLS	N/A	NFW2-100[R]	N/A DA	TF: 1N/A30/20	UNIMODE200UDLS	N/A	N/A	N/A	N/A
MS-9600LS	N/A	N/A	N/A	N/A	UNIMODE9600LS	N/A	N/A	N/A	N/A
MS-9600UDLS	UUT-05	N/A	N/A	N/A	UNIMODE9600UDLS	N/A	N/A	N/A	N/A
ECC-50/100	UUT-06	NFC-50/100	N/A	SKE-550	N/A	N/A	N/A	N/A	N/A
ECC-LOC	UUT-07	NFC-LOC	N/A	SKE-LOC	N/A	N/A	N/A	N/A	N/A
ECC-FFT	N/A	NFC-FFT	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECC-XRM-70V	N/A	NFC-XRM-70V	N/A	ECS-XRM-70V	N/A	N/A	N/A	N/A	N/A
XRM-24	N/A	XRM-24	N/A	SK-XRM24	N/A	N/A	N/A	N/A	N/A
4XTMF	N/A	4XTM	N/A	SK-4XTM	N/A	N/A	N/A	N/A	N/A
4XLMF	N/A	4XLM	N/A	SK-4XLM	N/A	N/A	N/A	N/A	N/A
4XZMF	N/A	4XZM	N/A	SK-4XZM	N/A	N/A	N/A	N/A	N/A
CAC-4	N/A	N/A	N/A	SK-CAC4	N/A	N/A	N/A	N/A	N/A
CAC-5X	N/A	N-CAC-5X	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECC-CE6	N/A	NFC-CE6	N/A	ECS-550CE6	N/A	N/A	N/A	N/A	N/A
MMF-300	N/A	NC-100	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: This table lists the OEM model numbers for alternate branding of the certified Fire-Lite model numbers of this OSP. Alternately branded models are identical to certified Notifier models except for appearance (color, labeling, branding)

Table 2 - Alternate Branding OEM Chart (Continued)

				Private	Label/OEM Model Nu	mbers			
Fire-Lite Model Number	UUT	Notifier	Gamewell FCI	Silent Knight	тусо	Honeywell	System Sensor	Tyco Fire Protection (ANSUL)	Minimax
CRF-300	N/A	NC-100R	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ANN-RLY	N/A	N-ANN-RLY	GFANN-RLY	NA	NA	NA	NA	NA	NA
ECC-50W-25V	N/A	NFC-BDA-25V	N/A	ECS-BD50-25V	N/A	N/A	N/A	N/A	N/A
MMF-300-10	N/A	NMM-100-10	N/A	DNA DDE	N/A	N/A	N/A	N/A	N/A
ECC-RTZM	N/A	NFC-RTZM	N/A	ECS-550RTZM	COA N/A	N/A	N/A	N/A	N/A
ECC-50W-70V	N/A	NFC-BDA-70V	N/A	ECS-BD50-70V	N/A	N/A	N/A	N/A	N/A
CELL-CAB-FL CELL-CAB-FLC	N/A	LTE-CAB-N	LTE-CAB-GWF	LTE-CAB-SK	N/A	N/A	N/A	N/A	N/A
LTE-CAB-FL LTE-CAB-FLC	UUT-11	CELL-CAB-N	CELL-CAB-GWF	CELL-CAB-SK	N/A C	N/A	N/A	N/A	N/A
CELL-MOD CELL-MODC	UUT-10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LTE-MOD	N/A	N/A	N/A BY	N/A	N/A	N/A	N/A	N/A	N/A
ES-200X	N/A	NFW-100X	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-200XC	UUT-08	NFW-100XC	N/A DA	TE: 1N/A30/20	20 N/A	N/A	N/A	N/A	N/A
ES-200XC-FR	N/A	NFW-100XC-FR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-200X	N/A	NFW-100XE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-200XR	N/A	NFW-100XR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-200XR	N/A	FireWarden-100X	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-50X	UUT-09	NFW-50X	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-50XC	N/A	NFW-50XC	N/A	A BNAL DIL	N/A	N/A	N/A	N/A	N/A
ES-50XC-FR	N/A	NFW-50XC-FR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-50X	N/A	NFW-50XE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-50XR	N/A	NFW-50XR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-50X	N/A	FireWarden-50X	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: This table lists the OEM model numbers for alternate branding of the certified Notifier model numbers of this OSP. Alternately branded models are identical to certified Notifier models except for appearance (color, labeling, branding)

Table 3 - Certified Cabinet Matrix

			Max D	imension	s [in]	Max	
Cabinet ID	Manufacturer	Panel Material / Thickness	Width	Length	Depth	Cabinet Weight [lb]	UUT
Size 2	Honeywell	Carbon Steel /18 Gauge	14.5	8.5	4.7	6.16	Extrapolated
Size 4	Honeywell	Carbon Steel /18 Gauge	15.0	14.5	3.0	8.78	UUT 1, 2
Size 5	Honeywell	Carbon Steel /18 Gauge	15.5	15.6	5.1	11.3	UUT 3
Size 6	Honeywell	Carbon Steel /18 Gauge	19.0	16.7	5.2	14.05	UUT 4, 5, 6, 7, 8

Table 4 - Certified Structural Subcomponents

	Eiro Lito		7SP-0071	Max D	imension	s[in]	Max	
Description	Fire-Lite Model Number	Manufacturer BY: Mo	Material hammad Aliaari	Length	Height	Depth	Weight [lb]	UUT
Seismic Bracket	SEISKIT-PS/2/4	Honeywell	Steel Bracket	14.5	3.4	< 0.1	0.8	UUT 1, 2
Seismic Bracket	SEISKIT-BB17	Honeywell	Steel Bracket	14.5	3	<0.1	1.1	Interpolated
Seismic Bracket	SEISKIT-320/B26	Honeywell	Steel Bracket	13.3	3.3	1	1.2	UUT 3
Seismic Bracket	SEISKIT-COMMENC	Honeywell	Steel Bracket	16.5	6.5	< 0.1	1.7	UUT 4, 5, 6
Dress Panel (Dead Front)	DP-9692	Honeywell	Steel Plate	16.3	18.9	0.375	3.5	UUT 5
Optional Trim Ring for Back Box	TR-CE	Honeywell	Cold Rolled Steel	22.2	19.8	1	1.95	Interpolated
Dress Panel for ES-50XC/ES- 200XC	DP-ES-R	Honeywell	Cold Rolled Steel	18.9	16.3	0.4	3.75	UUT 8, 9
Dress Panel (Dead Front)	DP-51050	Honeywell	Steel Plate	16.3	18.9	0.375	3.8	Interpolated
Optional Mounting Kit (Module)	90286 Mounting Kit	Honeywell	Steel Standoffs Fasteners for Option Card Mounting	< 0.1	< 0.1	< 0.1	0.1	UUT 5
Mounting Kit (Hardware)	90474	Honeywell	Hardware Kit	< 0.1	< 0.1	< 0.1	0.1	UUT 2
Mounting Kit for IPDACT-2/2UD	IPBRKT	Honeywell	Steel Bracket	6.3	5	0.375	0.4	UUT 4
Mounting Bracket	MULTIMOD-BRKT	Honeywell	Steel Bracket	7.6	6.3	< 0.1	0.5	UUT 5
Mounting Bracket	ANN-MBRLY	Honeywell	Steel Bracket	8.3	6.1	< 0.1	0.6	UUT 4

¹⁾ All Cabinets Are UL 864 & NEMA 1 Rated

²⁾ Enclosure IDs Are for OSHPD Cross Reference Only

Table 5 - Certified Batteries

Description	Model Number	Manufacturer —		Ma	x Dimension	Max Weight	UUT	
				Length	Height	Depth	[lb]	
Battery: 7 Amp-Hour	BAT-1270	Power Sonic	Battery - Sealed	6	4	2.5	5.3	UUT 2
Battery: 12 Amp-Hour	BAT-12120	Power Sonic	Battery - Sealed	6	4	3.8	8.4	UUT 4
Battery: 18 Amp-Hour	BAT-12180	Power Sonic	Battery - Sealed	7.1	6.6	3	12.6	UUT 5, 6, 8
Battery: 26 Amp-Hour	BAT-12260	Power Sonic	Battery - Sealed	7.1	6.6	4.8	19.7	UUT 3

Table 6 - Certified Transformers

Description	Model Number	Part Manufacturer	Material	Ma	x Dimension	s [in]	Max Weight	UUT
	[2]	Manufacturer	111	Length	Height	Depth	[lb]	
Transformer (ES 50X/200X)	50121632-001	HoneywellS	Copper Windings, Steel Frame	1.6	1.8	1.2	0.2	UUT 8
70 V Transformer	ECC-XRM-70V	Honeywell BY: Wona	Copper Windings,	3.3	3.5	4.3	1.4	UUT 6
Transformer	XRM-24B	Honeywell	Copper Windings, Steel Frame	2.5	2.5	3	2.7	Interpolated
Transformer	XRM-24	Honeywell	Copper Windings, Steel Frame	2.5	2.5	3	2.7	UUT 1

Table 7 - Certified 4X Series Modules

Description	Model Number	Part Manufacturer	Max Dimensions [in]		s [in]	Max Weight	UUT	
		Wallulacturei		Length	Height	Depth	[lb]	
LED Interface Module	4XLMF	Honeywell	PCB	4	2	< 0.1	0.1	Extrapolated
Transmitter Module	4XTMF	Honeywell	PCB	4	2	< 0.1	0.15	UUT 4, 8
Zone Relay Module	4XZMF	Honeywell	PCB	4	2	< 0.1	0.2	UUT 1

¹⁾ The XRM-24B is identical to the XRM-24 except for packaging

¹⁾ PCB = printed circuit board

^{2) 4}XLMF is a depopulated version of the 4XTMF

Table 8 - Certified Class A Wiring Modules

Description	Description Model Number		Model Number Part Material		Max Dimensions [in]			Max Weight	UUT
		Manufacturer		Length	Height	Depth	[lb]		
Class A Converter Module	CAC-4	Honeywell	PCB	4	2	< 0.1	0.1	UUT 1	
NAC Converter Module	ZNAC-92	Honeywell	PCB	5.3	2.4	< 0.1	0.1	Interpolated	
Class A (Style Z) NAC Module	ZNAC-4	Honeywell	PCB	4	1.9	< 0.1	0.1	UUT 4	
(Class A) Converter Module	CAC-5X	Honeywell	PCB	4	2	< 0.1	0.1	UUT 4	

(Class A) Converter Module	CAC-5X	Honeywell	PCB	4	2	< 0.1	0.1	UUT 4
Notes								
1) PCB = printed circuit board	PCB = printed circuit board							
able 9 - Certified Expander Module								
Description	Model Number	Part Manufacturer	Material	Ma	x Dimension	s [in.]	Max Weight	UUT
		Wallulacture)	0071	Longuth	l la ladat	Donath	TILL	
				Length	Height	Depth	[lb]	
SLC Expander Module	SLC-2LS	Honeywell	PCB	8.5	4	< 0.1	0.2	UUT 5
SLC Expander Module Circuit Expander Module	SLC-2LS ECC-CE6	Honeywell Honeywell at	PCB nmadP&Baari					UUT 5 UUT 6

¹⁾ PCB = printed circuit board

Table 10 - Other Certified Energized Components

Description	Model Number	Part Manufacturer	Material	Max Weight [lb]	Notes	UUT
Communicator Module	DACT-UD2	Honeywell	PCB	0.14	N/A	UUT 5
ANN-BUS Interface Module	ANN-SEC	Honeywell	PCB	0.05	N/A	UUT 4
Audio Amplifier Module: 25 Volt, 50 Watt	ECC-50W-25V	Honeywell	ODPCOMP	0.5	Identical to ECC-50W- 70V but with transformer removed	Extrapolated
Audio Amplifier Module: 70 Volt, 50 Watt	ECC-50W-70V	Honeywell	РСВ	71.6	N/A	UUT 6
Monitor Module	MMF-300	HoneywellS	Plasitc Module with PCB	0.2	N/A	UUT 2
Addressable Relay Module	CRF-300	Honeywell	Plasitc Module with PCB	0.2	Identical to MMF-300	Extrapolated
Internet Monitoring Module	IPDACT-2/2UD	Teldat	PCB	0.3	N/A	UUT 4
Relay Module	ANN-RLY	Honeywell	PCB	0.4	N/A	UUT 4
Multi-Module	MMF-300-10	Honeywell	30/20CB	0.5	N/A	UUT 5
Remote Telephone Zone Module	ECC-RTZM	Honeywell	PCB	0.6	N/A	UUT 6
Communicator card	IPOTS-COM/	Honeywell	PCB	0.25	N/A	UUT 8
Circuit Board for MOD & CAB series	CCP-LYRIC-PCA	Honeywell	PCB	0.2	N/A	UUT 10, 11
Radio Module for CELL Series	LYRIC-3G	Honeywell	PCB	0.1	N/A	UUT 10
	LYRIC-3GLP	Honeywell	PCB	0.1	N/A	Extrapolated
Radio Module for LTE Series	LYRICLTE-A	Honeywell	PCB	0.1	N/A	UUT 11
Antenna that boosts reception for GSM communicator cards	CELL ANTENNA	Honeywell	Plastic	0.2	N/A	UUT 10
Antenna that boosts reception for LTE communicator cards	CELL ANTENNA	Honeywell	Plastic	0.2	N/A	UUT 11

¹⁾ The ECC-50W-25V is a depopulated version of the ECC-50W-70V

²⁾ The CRF-300 is identical to the MMF-300 except for software

³⁾ PCB = printed circuit board

⁴⁾ The LYRIC-3G & LYRIC-3GLP are identical except for nomenclature



UUT-01

PEER STI 2013-17, UUT1

Model Line	Model Number	Manufacturer
Fire-Lite	MS-4 (E)	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

SEISKIT-PS/2/4: Honeywell; Transformer: Honeywell; 4X Series Module: Honeywell; Class A Wiring Module: Honeywell;

		OFO'	RCODEC	OM			
		NE U	UT Properties				
Weight		Dimens	ions [in]	7	Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	Width		Height	F-B	S-S	V
24	14.5 🗨	1	5.5P-0071	3.7	NA	NA	NA
	UUT	Highest Pas	sed Seismic Ru	n Information		•	
Building Code	Test C <mark>riteria</mark>	BYSDS/O	han z/h nad Ali	deri A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	2.0	1.0	1.5 3.20	2.40	-	-
ODO 2019	100-L3 AC 130	2.5	11/9.0/2020	1.5	-	1.67	0.67

Test Mounting Details

UUT-01 was rigid wall mounted to the fixture using Qty. (4) 1/4" daimeter, grade 8 bolts. The fixture was rigidly attached to the shake table





UUT-02

PEER STI 2013-17, UUT2

Model Line	Model Number	Manufacturer
Fire-Lite	FCPS-24FS8 (C)(E)	Honeywell

Product Construction Summary

Carbon Steel Enclosure

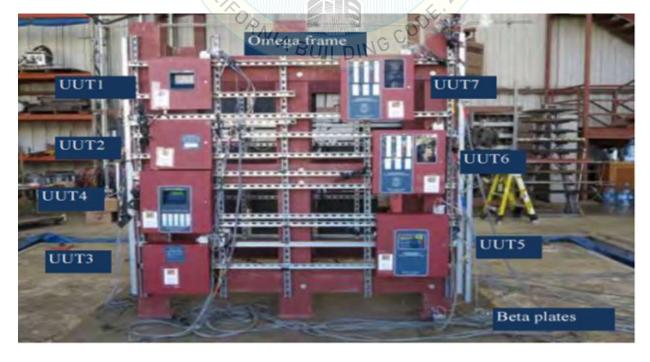
Options / Subcomponent Summary

Seismic Bracket: Honeywell; Mounting Kit (Hardware): Honeywell; Batteries: Power Sonic; Monitor Module: Honeywell

		OFO!	RCODE	COM				
		NEL	UT Propertie	es				
Weight		Dimens	ions [in]		Z	Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	W	idth	Hei	Height		S-S	V
31	14.5 🗨	C	15P-00	3.	.7	NA	NA	NA
	UUT	Highest Pas	sed Seismic	Run Inforn	nation			
Building Code	Test C <mark>riteria</mark>	BYSDS/IO	han z/h nad	Aliaari	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
ODC 2019	100-L3 AC 130	2.5	1/9.0/20	201.5	/-	-	1.67	0.67

Test Mounting Details

UUT-02 was rigid wall mounted to the fixture using Qty. (4) 1/4" daimeter, grade 8 bolts. The fixture was rigidly attached to the shake table





UUT-03

PEER STI 2013-17, UUT3

Model Line	Model Number	Manufacturer
Fire-Lite	BB-26	Honeywell

Product Construction Summary

Carbon Steel Enclosure

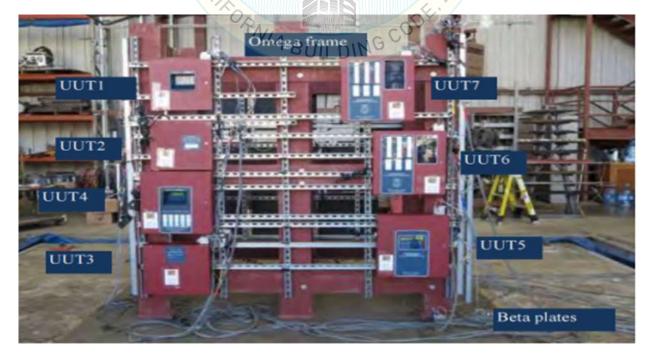
Options / Subcomponent Summary

Seismic Bracket: Honeywell; Batteries: Power Sonic

UUT Properties Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height F-B ٧ S-S 48 15.6 15.5 5.1 NA NA NA UUT Highest Passed Seismic Run Information **Building Code** idar $\mathbf{A}_{\text{FLX-V}}$ **Test Criteria** S_{DS}/ z/h A_{FLX-H} A_{RIG-H} A_{RIG-V} 1.0 1.5 3.20 2.40 2.0 **CBC 2019** ICC-ES AC156 2.5 0.0 1.5 1.67 0.67

Test Mounting Details

UUT-03 was rigid wall mounted to the fixture using Qty. (4) 1/4" daimeter, grade 8 bolts. The fixture was rigidly attached to the shake table





UUT-04

PEER STI 2013-17, UUT4

Model Line	Model Number	Manufacturer
Fire-Lite	MS-10UD-7 C(C-FR)(E)	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Seismic Bracket: Honeywell; Mounting Kit for IPDACT-2/2UD: Honeywell; Mounting Bracket: Honeywell; Batteries: Power Sonic; 4X Series Module: Honeywell; Class A Wiring Modules: Honeywell; ANN-BUS Interface Module: Honeywell; Internet Monitoring Module: Teldat; Relay Module: Honeywell

_	·	OFO	RCODE	COM				
		NE	UT Properti	es				
Weight		Dimens	ions [in]		Z	Lowe	st Nat. Freq	. [Hz]
[lbs]	Length	w	Width Height		F-B	S-S	V	
26	19 🗨	(1	6.5P-00	71 5.	.2	NA	NA	NA
	UUT	Highest Pas	sed Seismic	Run Inforn	nation			
Building Code	Test C <mark>riteri</mark> a	BYSDS/O	han z/h nad	Aliaari	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
GDG 2019	100-23 A0130	2.5	1/9.0/20	1.5	//-	-	1.67	0.67

Test Mounting Details

UUT-04 was rigid wall mounted to the fixture using Qty. (4) 1/4" daimeter, grade 8 bolts. The fixture was rigidly attached to the shake table





UUT-05

PEER STI 2013-17, UUT5

Model Line	Model Number	Manufacturer
Fire-Lite	MS-9600UDLS (C)(E)	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

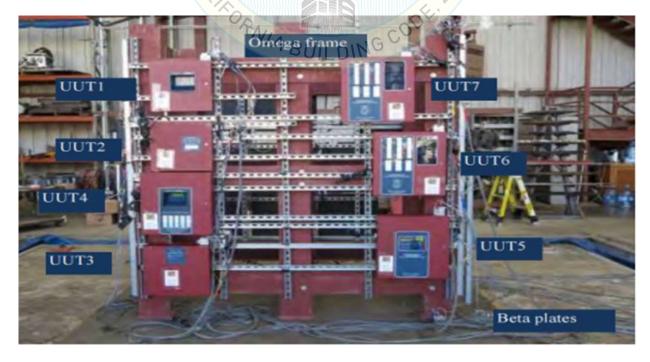
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Seismic Bracket: Honeywell; Dress Panel (Dead Front): Honeywell; Optional Mounting Kit (Module): Honeywell; Mounting Bracket: Honeywell; Batteries: Power Sonic; Expander Module: Honeywell; Communicator Module: Honeywell; Multi-Module: Honeywell

			TITLE COMMITTEE OF	MA						
		UU.	T Propertie	es						
Weight		Dimensions [in]						Lowest Nat. Freq. [Hz]		
[lbs]	Length	gth Width Height		ght	F-B	S-S	V			
53	19 🗨	16.5 P-00		5.2		NA	NA	NA		
	UUT	Highest Passe	ed Seismic	Run Inform	nation					
Building Code	Test C <mark>riteria</mark>	BYSD\$/IOh	an z/ mad	Aliaari	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}		
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-		
CBC 2019	100-E3 AC 150	2.5	1/0.0/2	201.5		-	1.67	0.67		

Test Mounting Details

UUT-05 was rigid wall mounted to the fixture using Qty. (4) 1/4" daimeter, grade 8 bolts. The fixture was rigidly attached to the shake table





UUT-06

PEER STI 2013-17, UUT6

Model Line	Model Number	Manufacturer
Fire-Lite	ECC-50/100 (E)	Honeywell

Product Construction Summary

Carbon Steel Enclosure

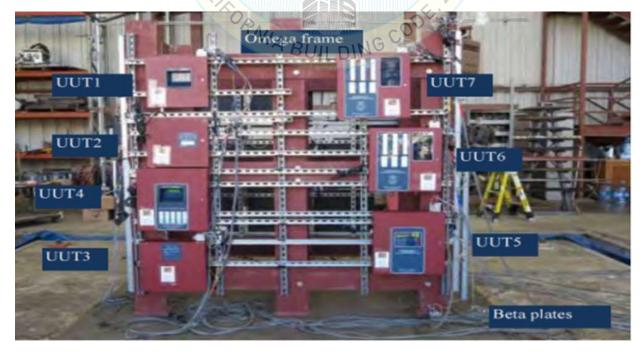
Options / Subcomponent Summary

Seismic Bracket: Honeywell; Batteries: Power Sonic; Transformer: Honeywell; Expander Module: Honeywell; Audio Amplifier Module: 70 Volt, 50 Watt: Honeywell; Remote Telephone Zone Module: Honeywell

		OFO	RCODE	COM					
		N U	UT Properties						
Weight		Dimensi	ions [in]	in] Lowest N				: Nat. Freq. [Hz]	
[lbs]	Length	Width		Hei	ght	F-B	S-S	٧	
57	19 🗨	16.5P-0071		1 5.	.2	NA	NA	NA	
	UUT	Highest Pas	sed Seismic I	Run Inforn	nation				
Building Code	Test C <mark>riteria</mark>	BYSDS/IO	han z/ mad /	Aliaari	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-	
CBC 2019	ICC-ES AC 150	2.5	1/9/9/201	201.5		-	1.67	0.67	

Test Mounting Details

UUT-06 was rigid wall mounted to the fixture using Qty. (4) 1/4" daimeter, grade 8 bolts. The fixture was rigidly attached to the shake table





UUT-07

PEER STI 2013-17, UUT7

Model Line	Model Number	Manufacturer				
Fire-Lite	ECC-LOC	Honeywell				
	Product Construction Comment					

Product Construction Summary

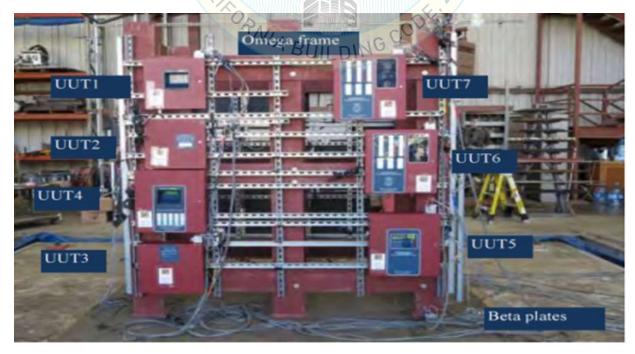
Carbon Steel Enclosure

Options / Subcomponent Summary

UUT Properties Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height F-B ٧ S-S 19 19 16.7 P-U 5.2 NA NA NA UUT Highest Passed Seismic Run Information **Building Code** $\mathbf{A}_{\text{FLX-V}}$ **Test Criteria** S_{DS}/ z/h idear A_{FLX-H} A_{RIG-H} A_{RIG-V} 1.0 1.5 3.20 2.40 2.0 **CBC 2019** ICC-ES AC156 2.5 0.0 1.5 1.67 0.67

Test Mounting Details

UUT-07 was rigid wall mounted to the fixture using Qty. (4) 1/4" daimeter, grade 8 bolts. The fixture was rigidly attached to the shake table





UUT-08

30995-1901, UUT 12

Model Line	Model Number	Manufacturer
Fire-Lite	ES-200XC	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Dress Panel for ES-50XC/ES-200XC: Honeywell; Batteries: Power Sonic; Transformer: Honeywell; 4X Series Module: Honeywell; Expander Module: Honeywell; Communicator Card: Honeywell

		OFO!	RCODE	COM					
			UT Propertie						
Weight		Dimens	Dimensions [in]			Lowest Nat. Freq. [Hz]			
[lbs]	Length	Width		Hei	Height		S-S	V	
54	19 🗨	16.7 P-00		5.	.2	NA	NA	NA	
	UUT	Highest Pas	sed Seismic	Run Inforn	nation				
Building Code	Test C <mark>riteria</mark>	BYSDS/IO	han z/ mad	Aliaari	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-	
CBC 2019		2.5	11/9.0/20	201.5		-	1.67	0.67	

Test Mounting Details

UUT-08 was rigid wall mounted to the fixture via 12 gage unistrut using Qty. (4) 1/4" diameter, grade 8 bolts. Fixture was hard mounted to the shake table.





UUT-09

30995-1901, UUT 13

Model Line	Model Number	Manufacturer
Fire-Lite	ES-50X	Honeywell
i lie-Lite	E3-30X	Tioneywe

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Dress Panel for ES-50XC/ES-200XC: Honeywell;

UUT Properties

		U	o i Propertie	33				
Weight		Dimensi	Lowest Nat. Freq. [Hz]					
[lbs]	Length	Width		Hei	ght	F-B	S-S	V
33	19 🗨	16	5.5P-00/1 5.2		.2	NA	NA	NA
	UUT	Highest Pas	sed Seismic	Run Inforn	nation			•
Building Code	Test C <mark>riteria</mark>	BYSDS/10	nan z/h nad	Alidari	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
CBC 2019	ICC-E3 AC 130	2.5	00 .	-15		_	1.67	0.67

Test Mounting Details

UUT-09 was rigid wall mounted to the fixture via 12 gage unistrut using Qty. (4) 1/4" diameter, grade 8 bolts. Fixture was hard mounted to the shake table.





UUT-10

30995-1901, UUT 10

Model Line	Model Number	Manufacturer				
Fire-Lite	Fire-Lite CELL-MOD with CELL ANTENNA					
Product Construction Summary						

Plastic Enclosure & Plastic Antenna

Options / Subcomponent Summary

Radio Module for CELL Series: Honeywell; Circuit Board: Honeywell

UUT Properties Dimensions [in] Lowest Nat. Freq. [Hz] Weight [lbs] Width Length Height F-B ٧ S-S 7.8 **65P-0** 1.5 NA NA NA UUT Highest Passed Seismic Run Information **Building Code** $\mathbf{A}_{\text{FLX-V}}$ **Test Criteria** S_{DS}/ z/h idear A_{RIG-H} A_{FLX-H} A_{RIG-V} 1.0 1.5 3.20 2.40 2.0 **CBC 2019** ICC-ES AC156 2.5 0.0 1.5 1.67 0.67

Test Mounting Details

UUT-10 was rigid wall mounted to the fixture via 12 gage unistrut using Qty. (4) 1/4" diameter, grade 8 bolts. Fixture was hard mounted to the shake table.





UUT-11

30995-1901, UUT 11

Model Line	Model Number	Manufacturer
Fire-Lite	LTE-CAB-FL with ANTENNA	Honeywell

Product Construction Summary

Cold Rolled Steel Enclosure & Plastic Antenna

Options / Subcomponent Summary

Radio Module for LTE Series: Honeywell; Circuit Board: Honeywell

			o i Propertie	# 5					
Weight		Dimensions [in]					Lowest Nat. Freq. [Hz]		
[lbs]	Length	Width		Hei	Height		S-S	V	
5	10.4 🗨	10	10.2 P-00/1 3.2		2	NA	NA	NA	
	UUT	Highest Pas	sed Seismic	Run Inform	nation			•	
Building Code	Test C <mark>riteria</mark>	BYSDS/O	nan z/h nad	Aliaari	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-	
CBC 2019	100-E3 AC 150	2.5	, (A A .	- 15	TTTTT/_	_	1.67	0.67	

Test Mounting Details

UUT-11 was rigid wall mounted to the fixture via 12 gage unistrut using Qty. (4) #10-24, grade 8 machine screws. Fixture was hard mounted to the shake table.

