



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

**APPLICATION #: OSP-0071**

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Honeywell

Manufacturer's Technical Representative: Michael Yanokfsky

Mailing Address: 12 Clintonville Road, Northford, CT 06472

Telephone: (203) 484-6247

Email: Michael.Yanofsky@honeywell.com

**Product Information**

Product Name: Electrical Control Panels on Life Safety/Critical Branch

Product Type: Fire Alarm & Security Panels

Product Model Number: Varies (See Attachments)

General Description: Wall Mounted custom Fire Control Panels with Communication Devices

Mounting Description: Rigid, Wall Mounted

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: The VMC Group

Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780

Email: john.giuliano@thvmcgroup.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

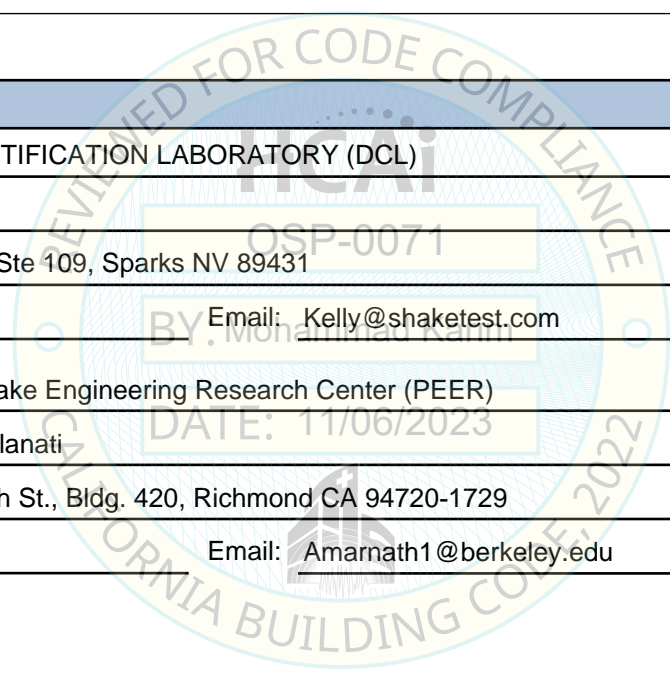
**Certification Method**

GR-63-Core       ICC-ES AC156       IEEE 344       IEEE 693       NEBS 3  
 Other (Please Specify): \_\_\_\_\_

**Testing Laboratory**

Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)  
Contact Person: Kelly Laplace  
Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431  
Telephone: (775) 358-5085 Email: Kelly@shaketest.com

Company Name: Pacific Earthquake Engineering Research Center (PEER)  
Contact Person: Amarnath Kasalanati  
Mailing Address: 1301 South 46th St., Bldg. 420, Richmond CA 94720-1729  
Telephone: (510) 642-3437 Email: Amarnath1@berkeley.edu





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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.50 (z/h = 1.0); 1.13 (z/h = 0.0)

SDS (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1.0); 2.50 (z/h = 0.0)

$a_p$  (Amplification factor) = 2.5

$R_p$  (Response modification factor) = 6.0

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

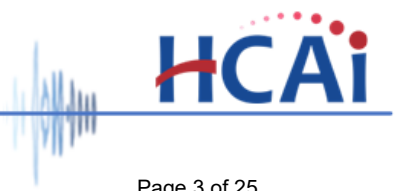
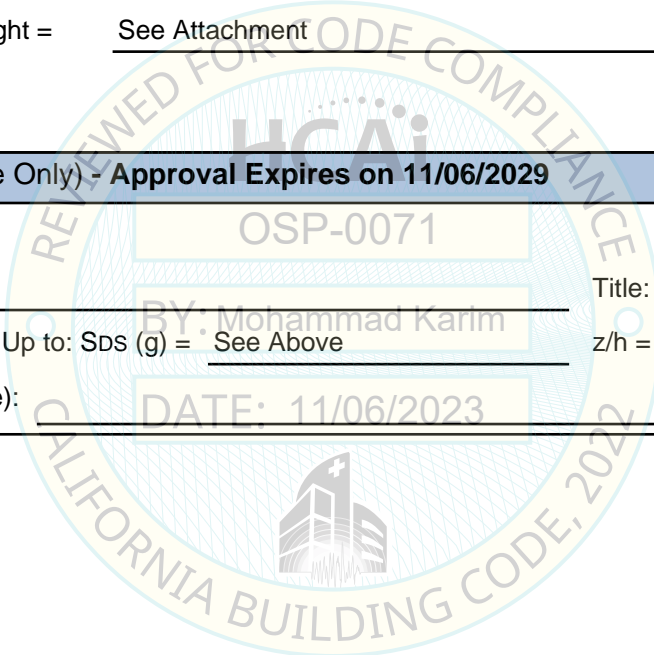
**HCAI Approval (For Office Use Only) - Approval Expires on 11/06/2029**

Date: 11/6/2023

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 11/06/2023



**Table 1 - Certified Product Table**

Product Family	Model Number	Description	Mat.	Input Voltage [ V ]	Frequency [ Hz ]	Max Dimensions [ in ]			Max Weight [ lb ]	UUT
						Width	Length	Depth		
Fire-Lite	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	N/A	N/A	7.8	6.0	1.5	0.8	UUT-10
	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	60 / 50 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	CS	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	

**Notes**

- 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 enclosures 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 Family	Model Number	Description	Mat.	Input Voltage [ V ]	Frequency [ Hz ]	Max Dimensions [ in ]			Max Weight [ lb ]	UUT
						Width	Length	Depth		
Fire-Lite	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
	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
	ES-50XI	50-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	19.0	16.7	5.2	46.6	Interpolated
	ES-50XC	50-Point Addressable Fire Alarm Control Panel	CS	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	

**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
- 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 Family	Model Number	Description	Mat.	Input Voltage [ V ]	Frequency [ Hz ]	Max Dimensions [ in ]			Max Weight [ lb ]	UUT
						Width	Length	Depth		
Fire-Lite	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
	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
	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
	ES-1000XI	954-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	20.5	20.0	6.0	70.0	UUT-13
	ES-1000XI <sup>6</sup>	954-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	20.6	20.3	6.8	70.0	Interpolated
	ES-1000XC	954-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	20.6	20.3	6.8	70.0	Interpolated
	ES-1000XC-FR	954-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	20.6	20.3	6.8	70.0	Interpolated
	ES-1000X <sup>6</sup>	954-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	20.6	20.3	6.8	71.4	Interpolated
ES-1000X	954-Point Addressable Fire Alarm Control Panel	CS	120/240 AC	60 / 50 Hz	20.5	20.0	6.0	71.4	UUT-12	

**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
- 5) All units certified, as tested, for rigid wall mounting at  $S_{DS}= 2.0$  ( $z/h=1$ ), and  $S_{DS}=2.5$  ( $z/h=0$ )
- 6) For ES-1000 models; interpolated width, length, and depth dimensions reflect manufacturer's engineering drawings



**Table 2 - Alternate Branding OEM Chart**

Fire-Lite Model Number	UUT	Private Label/OEM Model Numbers							
		Notifier	Gamewell FCI	Silent Knight	TYCO	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	N/A	HPF24S8	N/A	N/A	N/A
HPFF8	N/A	N/A	N/A	N/A	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	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	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	N/A	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)**

Fire-Lite Model Number	UUT	Private Label/OEM Model Numbers							
		Notifier	Gamewell FCI	Silent Knight	TYCO	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	NA	N/A	N/A	N/A	N/A	N/A
ECC-RTZM	N/A	NFC-RTZM	N/A	ECS-550RTZM	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	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	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	N/A	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	N/A	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
ES-1000X	UUT-12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-1000XC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-1000XC-FR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ES-1000XI	UUT-13	N/A	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**

Cabinet ID	Manufacturer	Panel Material / Thickness	Max Dimensions [ in ]			Max Weight [ lb ]	UUT
			Width	Length	Depth		
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-01, UUT-02
Size 5	Honeywell	Carbon Steel /18 Gauge	15.5	15.6	5.1	11.30	UUT-03
Size 6	Honeywell	Carbon Steel /18 Gauge	19.0	16.7	5.2	14.05	UUT-04, UUT-05, UUT-06, UUT-07, UUT-08
Size 7 <sup>4</sup>	Honeywell	Carbon Steel /16&18 Gauge <sup>3</sup>	20.6	20.3	6.8	29.95	UUT-12, UUT-13

**Notes**

- 1) All Cabinets Are UL 864 & NEMA 1 Rated
- 2) Enclosure IDs Are for OSHPD Cross Reference Only
- 3) Backbox and Dress Panel are 16 Gauge; Door is 18 Gauge
- 4) Cabinet width, length, and depth dimensions reflect manufacturer's engineering drawings

**Table 4 - Certified Structural Subcomponents**

Description	Fire-Lite Model Number	Manufacturer	Material	Max Dimensions [ in ]			Max Weight [ lb ]	UUT
				Length	Height	Depth		
Seismic Bracket	SEISKIT-PS/2/4	Honeywell	Steel Bracket	14.5	3.4	< 0.1	0.8	UUT-01 , UUT-02
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-03, UUT-12, UUT-13
Seismic Bracket	SEISKIT-COMMENC	Honeywell	Steel Bracket	16.5	6.5	< 0.1	1.7	UUT-04, UUT-05, UUT-06, UUT-07, UUT-08
Dress Panel (Dead Front)	DP-9692	Honeywell	Steel Plate	16.3	18.9	0.375	3.5	UUT-05
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-08, UUT-09
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-05
Mounting Kit (Hardware)	90474	Honeywell	Hardware Kit	< 0.1	< 0.1	< 0.1	0.1	UUT-02
Mounting Kit for IPDACT-2/2UD	IPBRKT	Honeywell	Steel Bracket	6.3	5	0.375	0.4	UUT-04
Mounting Bracket	MULTIMOD-BRKT	Honeywell	Steel Bracket	7.6	6.3	< 0.1	0.5	UUT-05
Mounting Bracket	ANN-MBRLY	Honeywell	Steel Bracket	8.3	6.1	< 0.1	0.6	UUT-04

**Table 5 - Certified Batteries**

Description	Model Number	Part Manufacturer	Material	Max Dimensions [ in ]			Max Weight [ lb ]	UUT
				Length	Height	Depth		
Battery: 7 Amp-Hour	BAT-1270	Power Sonic	Battery - Sealed	6	4	2.5	5.3	UUT-02
Battery: 12 Amp-Hour	BAT-12120	Power Sonic	Battery - Sealed	6	4	3.8	8.4	UUT-04
Battery: 18 Amp-Hour	BAT-12180	Power Sonic	Battery - Sealed	7.1	6.6	3	12.6	UUT-05, UUT-06, UUT-08
Battery: 26 Amp-Hour	BAT-12260	Power Sonic	Battery - Sealed	7.1	6.6	4.8	19.7	UUT-03, UUT-12, UUT-13

**Table 6 - Certified Transformers**

Description	Model Number	Part Manufacturer	Material	Max Dimensions [ in ]			Max Weight [ lb ]	UUT
				Length	Height	Depth		
Transformer (ES 50X/200X)	50121632-001	Honeywell	Copper Windings, Steel Frame	1.6	1.8	1.2	0.2	UUT-08
Transformer (ES-1000X)	50126191-001	Honeywell	Copper Windings, Steel Frame	1.95	1.05	1.48	0.2	UUT-12, UUT-13
70 V Transformer	ECC-XRM-70V	Honeywell	Copper Windings, Steel Frame	3.3	3.5	4.3	1.4	UUT-06
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-01

**Notes**

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

**Table 7 - Certified 4X Series Modules**

Description	Model Number	Part Manufacturer	Material	Max Dimensions [ in ]			Max Weight [ lb ]	UUT
				Length	Height	Depth		
LED Interface Module	4XLMF	Honeywell	PCB	4	2	< 0.1	0.1	Extrapolated
Transmitter Module	4XTMF	Honeywell	PCB	4	2	< 0.1	0.2	UUT-04, UUT-08, UUT-12
Zone Relay Module	4XZMF	Honeywell	PCB	4	2	< 0.1	0.2	UUT-01

**Notes**

1) PCB = printed circuit board

2) 4XLMF is a depopulated version of the 4XTMF

**Table 8 - Certified Class A Wiring Modules**

Description	Model Number	Part Manufacturer	Material	Max Dimensions [ in. ]			Max Weight [ lb ]	UUT
				Length	Height	Depth		
Class A Converter Module	CAC-4	Honeywell	PCB	4	2	< 0.1	0.1	UUT-01
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-04
(Class A) Converter Module	CAC-5X	Honeywell	PCB	4	2	< 0.1	0.1	UUT-04

**Notes**

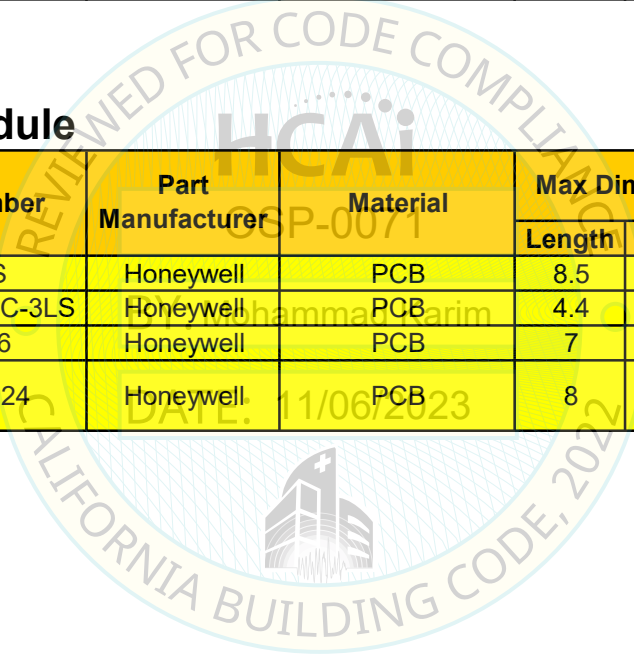
1) PCB = printed circuit board

**Table 9 - Certified Expander Module**

Description	Model Number	Part Manufacturer	Material	Max Dimensions [ in. ]			Max Weight [ lb ]	UUT
				Length	Height	Depth		
SLC Expander Module	SLC-2LS	Honeywell	PCB	8.5	4	< 0.1	0.2	UUT-05
SLC Loop Card	CLP-2PCB/SLC-3LS	Honeywell	PCB	4.4	7	< 0.1	0.4	UUT-12, UUT-13
Circuit Expander Module	ECC-CE6	Honeywell	PCB	7	7.8	< 0.1	1.2	UUT-06
Power Expander Module. Increases NAC power output by 3 amps.	PWRMOD24	Honeywell	PCB	8	4.4	< 0.1	0.6	UUT-08

**Notes**

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-05
ANN-BUS Interface Module	ANN-SEC	Honeywell	PCB	0.05	N/A	UUT-04
Audio Amplifier Module: 25 Volt, 50 Watt	ECC-50W-25V	Honeywell	PCB	0.5	Identical to ECC-50W-70V; with transformer removed	Extrapolated
Audio Amplifier Module: 70 Volt, 50 Watt	ECC-50W-70V	Honeywell	PCB	1.6	N/A	UUT-06
Monitor Module	MMF-300	Honeywell	Plastic Module with PCB	0.2	N/A	UUT-02, UUT-12, UUT-13
Addressable Relay Module	CRF-300	Honeywell	Plastic Module with PCB	0.2	Identical to MMF-300	Extrapolated
Internet Monitoring Module	IPDACT-2/2UD	Teldat	PCB	0.3	N/A	UUT-04
Relay Module	ANN-RLY	Honeywell	PCB	0.4	N/A	UUT-04
Multi-Module	MMF-300-10	Honeywell	PCB	0.5	N/A	UUT-05
Remote Telephone Zone Module	ECC-RTZM	Honeywell	PCB	0.6	N/A	UUT-06
Communicator card	IPOTS-COM	Honeywell	PCB	0.25	N/A	UUT-08, UUT-12
Circuit Board for MOD & CAB series	CCP-LYRIC-PCA	Honeywell	PCB	0.2	N/A	UUT-10, UUT-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

**Notes**

- 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



# UNIT UNDER TEST (UUT) Summary Sheet

**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;

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
24	14.5	15.0	3.7	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

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



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





# UNIT UNDER TEST (UUT) Summary Sheet

**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

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
31	14.5	15	3.7	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

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



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



# UNIT UNDER TEST (UUT) Summary Sheet

**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						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
48	15.6	15.5	5.1	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

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



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





# UNIT UNDER TEST (UUT) Summary Sheet

**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

### UUT Properties

Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
26	19	16.7	5.2	N/A	N/A	N/A

### UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

### Test Mounting Details

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



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



# UNIT UNDER TEST (UUT) Summary Sheet

**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**

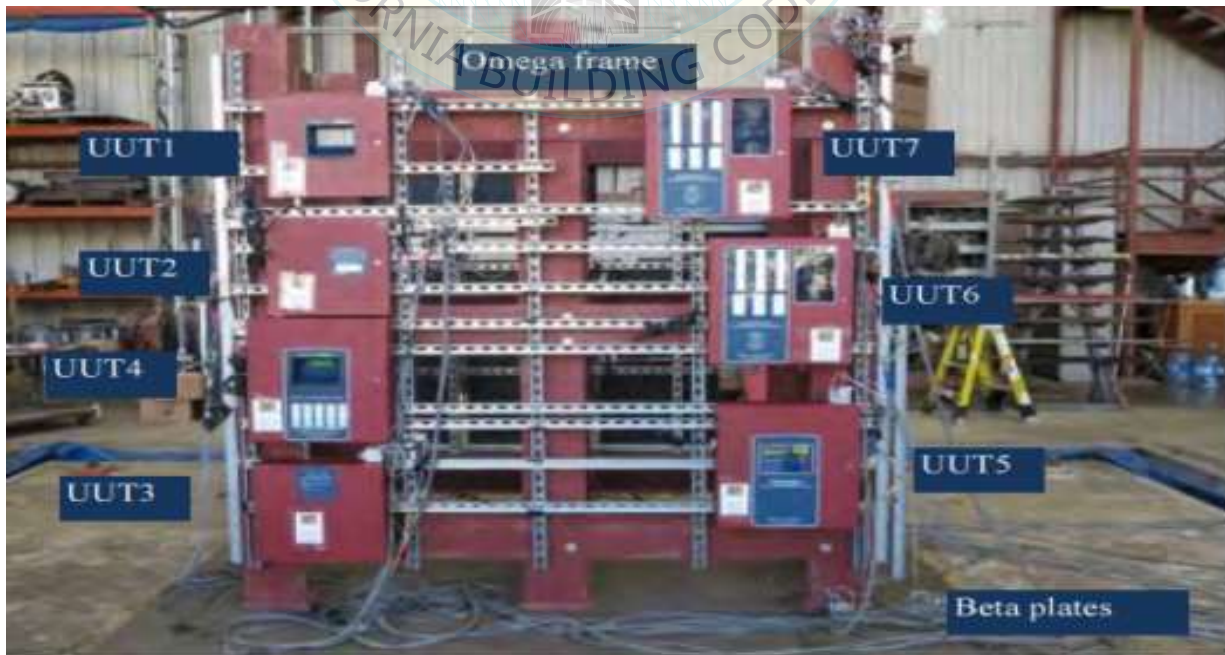
Seismic Bracket: Honeywell; Dress Panel (Dead Front): Honeywell; Optional Mounting Kit (Module): Honeywell; Mounting Bracket: Honeywell; Batteries: Power Sonic; Expander Module: Honeywell; Communicator Module: Honeywell; Multi-Module: Honeywell

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
53	19	16.7	5.2	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

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



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





# UNIT UNDER TEST (UUT) Summary Sheet

**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**

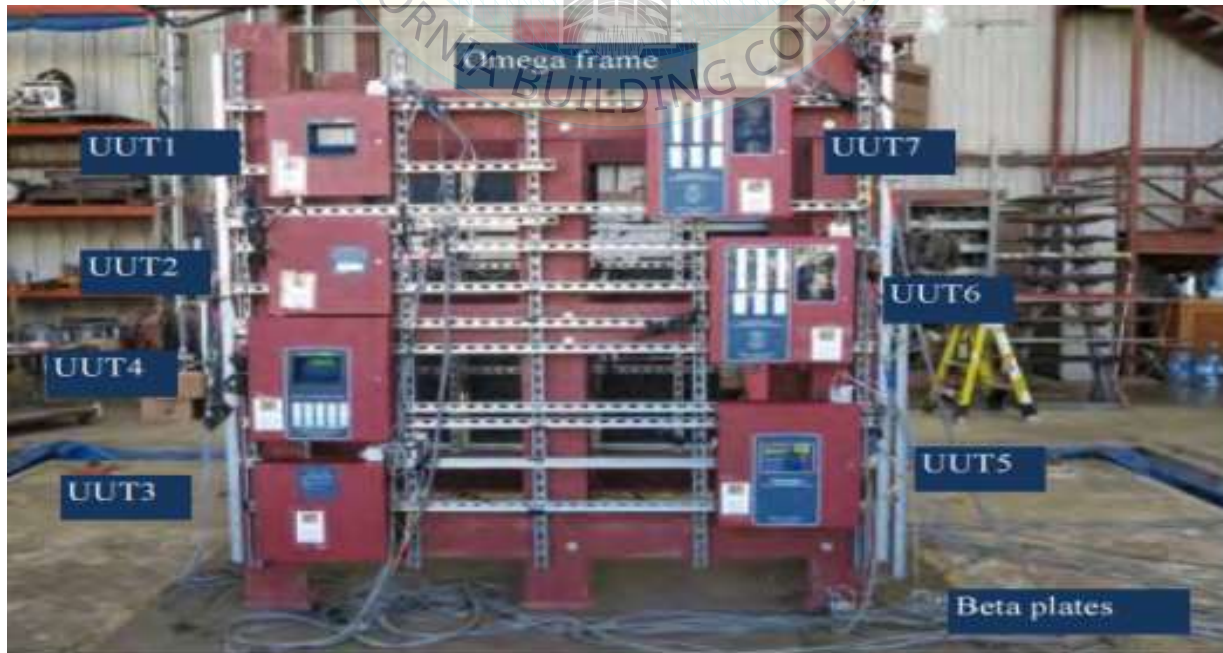
Seismic Bracket: Honeywell; Batteries: Power Sonic; Transformer: Honeywell; Expander Module: Honeywell; Audio Amplifier Module: 70 Volt, 50 Watt: Honeywell; Remote Telephone Zone Module: Honeywell

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
57	19	16.7	5.2	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

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



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





# UNIT UNDER TEST (UUT) Summary Sheet

**UUT-07**

PEER STI 2013-17, UUT7

Model Line	Model Number	Manufacturer
Fire-Lite	ECC-LOC	Honeywell

**Product Construction Summary**

Carbon Steel Enclosure

**Options / Subcomponent Summary**

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
19	19	16.7	5.2	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

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



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



# UNIT UNDER TEST (UUT) Summary Sheet

**UUT-08**

DCL Report # 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

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
54	19	16.7	5.2	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

UUT-08 was rigidly, 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.



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



# UNIT UNDER TEST (UUT) Summary Sheet

UUT-09

DCL Report # 30995-1901, UUT 13

Model Line	Model Number	Manufacturer
Fire-Lite	ES-50X	Honeywell

**Product Construction Summary**

Carbon Steel Enclosure

**Options / Subcomponent Summary**

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

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
33	19	16.7	5.2	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

UUT-09 was rigidly, 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.



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



# UNIT UNDER TEST (UUT) Summary Sheet

UUT-10

DCL Report # 30995-1901, UUT 10

Model Line	Model Number	Manufacturer
Fire-Lite	CELL-MOD with CELL ANTENNA	Honeywell

**Product Construction Summary**

Plastic Enclosure & Plastic Antenna

**Options / Subcomponent Summary**

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

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
1	7.8	6	1.5	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>Ds</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

UUT-10 was rigidly, 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.



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





# UNIT UNDER TEST (UUT) Summary Sheet

UUT-11

DCL Report # 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

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Width	Length	Depth	F-B	S-S	V
5	10.4	10.2	3.2	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.67	0.67

**Test Mounting Details**

UUT-11 was rigidly, 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.



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





# UNIT UNDER TEST (UUT) Summary Sheet

UUT-12

DCL Report # 21567-2301, UUT-12

Model Line	Model Number	Manufacturer
Fire-Lite	ES-1000X	Honeywell

**Product Construction Summary**

Carbon Steel Enclosure

**Options / Subcomponent Summary**

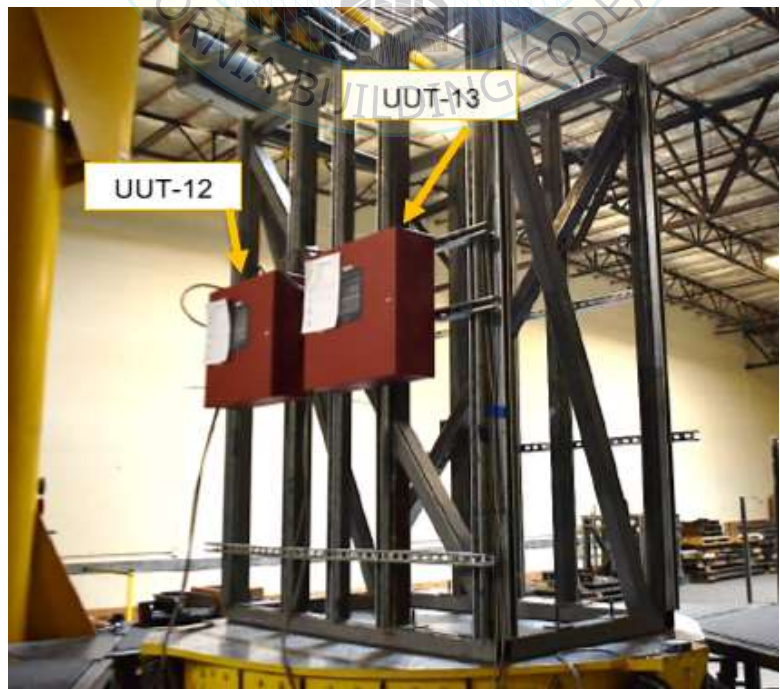
Carbon Steel Enclosure, Seismic Bracket, 26 Amp-Hour Battery, Transformer, Transmitter Module, SLC Loop Card, Communication Card, Monitor Module

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Depth	Length	Width	F-B	S-S	V
71.4	6.0	20.0	20.5	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.68	0.68

**Test Mounting Details**

UUT-12 was rigidly, wall mounted to the fixture with (4) 1/4"-20 307A stainless steel bolts. The fixture was hard mounted to the shake table.



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



# UNIT UNDER TEST (UUT) Summary Sheet

UUT-13

DCL Report # 21567-2301, UUT-13

Model Line	Model Number	Manufacturer
Fire-Lite	ES-1000XI	Honeywell

**Product Construction Summary**

Carbon Steel Enclosure

**Options / Subcomponent Summary**

Carbon Steel Enclosure, Seismic Bracket, 26 Amp-Hour Battery, Transformer, SLC Loop Card, Monitor Module

UUT Properties						
Weight [ lbs ]	Dimensions [ in ]			Lowest Nat. Freq. [ Hz ]		
	Depth	Length	Width	F-B	S-S	V
70	6.0	20.0	20.5	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	-	-
		2.5	0.0	1.5	-	-	1.68	0.68

**Test Mounting Details**

UUT-13 was rigidly, wall mounted to the fixture with (4) 1/4"-20 307A stainless steel bolts. The fixture was hard mounted to the shake table.



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