APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0065

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Honeywell

Manufacturer's Technical Representative: Michael Yanofsky

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: Silent Knight

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.

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By: Mohammad Hasan
DATE: 03/01/2022
CALIFORNIA BUILDING CODE, 2019

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@thevmcgroup.com

Title: President

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

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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)

S_{DS} (Design spectral response acceleration at short period, g) = 2.0 (z/h = 1.0); 2.5 (z/h = 0.0)

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_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

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HCAI Approval (For Office Use Only) - Approval Expires on 03/01/2028

Date: 3/1/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable):

Table 1 - Certified Product Table

Alternate Branding Model Numbers		Basic Description	Unit Details	Mounting	Weight Without Batteries [lb]	Max Weight [lb]	Max Dimensions [in]			UUT
							Width	Height	Depth	
Honeywell	Cell Antenna (GSM)	Antenna	Antenna that Boosts Reception for GSM Communicator Cards	Surface Wall Mount	N/A	0.2	6.3	1.0	0.4	Extrapolated
Honeywell	Cell Antenna (LTE)	Antenna	Antenna that Boosts Reception for LTE Communicator Cards	Surface Wall Mount	N/A	0.2	7.4	1.9	0.4	Extrapolated
Honeywell	CELL-MOD	Cellular Communicator in Small Plastic Enclosure with Antenna	Houses an GSM (Cellular) Communicator Card for Central Station Reporting	Surface Wall Mount	N/A	1	6.0	7.0	2.0	UUT-10
Honeywell	LTE-MOD	Cellular Communicator in Small Plastic Enclosure	Houses an LTE (Cellular) Communicator Card for Central Station Reporting	Surface Wall Mount	N/A	0.8	6.0	7.8	2.0	Interpolated
Silent Knight	CELL-CAB-SK	Cellular Communicator in Small Plastic Enclosure	Houses an GSM (Cellular) Communicator Card for Central Station Reporting	Surface Wall Mount	N/A	4.4	10.2	10.4	3.2	Interpolated
Silent Knight	LTE-CAB-SK	Cellular Communicator in Small Plastic Enclosure with Antenna	Houses an LTE (Cellular) Communicator Card for Central Station Reporting	Surface Wall Mount	N/A	5	10.0	10.0	3.0	UUT-11
Silent Knight	5129	Cellular Communicator in Small Plastic Enclosure (SK2190)	4 Channel Communicator	Surface Wall Mount	N/A	6	10.0	10.0	3.0	Extrapolated
Silent Knight	5135	Cellular Communicator in Small Plastic Enclosure (SK2190)	4 Channel Communicator	Surface Wall Mount	N/A	6	10.0	10.0	3.0	Extrapolated
Honeywell	RBB	Batteries in Small Metal Enclosure	Remote Battery Box Cabinet	Surface Wall Mount	10	55	16.0	10.0	6.0	UUT-8

Notes:

1) Extrapolated model (GSM) is de-populated UUT-10.

2) Extrapolated model (LTE) is de-populated UUT-11.

3) Models (5129) and (5135) are extrapolated from UUT-11.

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Table 1 - Certified Product Table (Continued)

Alternate Branding Model Numbers		Basic Description	Unit Details	Mounting	Weight Without Batteries [lb]	Max Weight [lb]	Max Dimensions [in]			UUT
							Width	Height	Depth	
Silent Knight	5104	Fire Alarm Control Panel in Small Metal Cabinet	Fire Control 6 Channel Communicator	Surface Wall Mount	N/A	14	12.0	16.0	3.0	UUT-2
Farenhyte	IFP-76	Fire Alarm Control Panel in Small Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	15	23	12.7	15.1	3.3	Interpolated
Farenhyte	IFP-75	Fire Alarm Control Panel in Small Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	15	23	12.7	15.1	3.3	Interpolated
Fike	FCP-75	Fire Alarm Control Panel in Small Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	15	23	12.7	15.1	3.3	Interpolated
Farenhyte	IFP-75B	Fire Alarm Control Panel in Small Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	15	23	12.7	15.1	3.3	Interpolated
Gamewell FCI	GWF-7075	Fire Alarm Control Panel in Small Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	15	23	12.7	15.1	3.3	Interpolated
Silent Knight	5700	Fire Alarm Control Panel in Small Metal Cabinet	50 Pt. Single Loop Addressable Panel	Surface Wall Mount	11.5	19.5	12.7	15.1	3.3	Extrapolated
Farenhyte	IFP-50	Fire Alarm Control Panel in Small Metal Cabinet	50 Pt. Single Loop Addressable Panel	Surface Wall Mount	11.5	19.5	12.7	15.1	3.3	Extrapolated
Silent Knight	5600 / 5600C	Fire Alarm Control Panel in Small Metal Cabinet	25 Pt. Single Loop Addressable Panel	Surface Wall Mount	11.5	19.5	12.7	15.1	3.3	Extrapolated

Notes:

1) Extrapolated models are de-populated UUT-7.

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Table 1 - Certified Product Table (Continued)

Alternate Branding Model Numbers		Basic Description	Unit Details	Mounting	Weight Without Batteries [lb]	Max Weight [lb]	Max Dimensions [in]			UUT
							Width	Height	Depth	
Farenhyte	IFP-25	Fire Alarm Control Panel in Small Metal Cabinet	25 Pt. Single Loop Addressable Panel	Surface Wall Mount	11.5	19.5	12.7	15.1	3.3	Extrapolated
Silent Knight	6700	Fire Alarm Control Panel in Small Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	15	23	13.0	15.0	3.0	UUT-7
Silent Knight	5495	Power Supply in Small Metal Cabinet	6 Amp Distributed Power Module	Surface Wall Mount	18.5	26.5	12.3	15.3	3.0	Interpolated
Silent Knight	5499	Power Supply in Small Metal Cabinet	9 Amp Distributed Power Module	Surface Wall Mount	18.5	26.5	12.3	15.3	3.0	Interpolated
Silent Knight	5496	Power Supply in Small Metal Cabinet	6 Amp Distributed Power Module	Surface Wall Mount	18.5	26.5	12.3	15.3	3.0	Interpolated
Fike	FIK-5496	Power Supply in Small Metal Cabinet	6 Amp Distributed Power Module	Surface Wall Mount	18.5	26.5	12.3	15.3	3.0	Interpolated
Silent Knight	5208	Fire Alarm Control Panel in Medium Metal Cabinet	Fire Alarm Control Panel w/ Digital Communicator	Surface Wall Mount	28	48	17.0	26.0	4.0	UUT-3
Farenhyte	RPS-2000	Power Supply in Medium Metal Cabinet	Distributed Power Module	Surface Wall Mount	28	48	16.0	26.4	4.7	Extrapolated
Silent Knight	5895XL	Power Supply in Medium Metal Cabinet	Distributed Power Module	Surface Wall Mount	28	48	16.1	26.4	4.1	Extrapolated

Notes:

1) Extrapolated model (IFP-25) is de-populated UUT-7.

2) Extrapolated models (RPS-2000), (5895XL) are de-populated UUT-3.

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Table 1 - Certified Product Table (Continued)

Alternate Branding Model Numbers		Basic Description	Unit Details	Mounting	Weight Without Batteries [lb]	Max Weight [lb]	Max Dimensions [in]			UUT
							Width	Height	Depth	
Farenhyte	RPS-1000	Power Supply in Medium Metal Cabinet	6 Amp Distributed Power Module	Surface Wall Mount	28	48	16.1	26.4	4.1	Extrapolated
Fike	FIK-RPS1000	Power Supply in Medium Metal Cabinet	6 Amp Distributed Power Module	Surface Wall Mount	28	48	16.1	26.4	4.1	Interpolated
Gamewell FCI	FLEX410 / GWF410	Fire Alarm Control Panel in Medium Metal Cabinet	Fire Alarm Control Panel w/ Digital Communicator	Surface Wall Mount	28	48	16.0	26.4	4.0	Interpolated
Silent Knight	5820XL	Fire Alarm Control Panel in Medium Metal Cabinet	Addressable Fire Alarm Panel	Surface Wall Mount	28	48	16.2	26.4	4.2	Interpolated
Farenhyte	IFP-1000	Fire Alarm Control Panel in Medium Metal Cabinet	Addressable Fire Alarm Panel	Surface Wall Mount	28	48	16.2	26.4	4.2	Interpolated
Farenhyte	IFP-100	Fire Alarm Control Panel in Medium Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	28	48	16.0	26.4	4.7	Interpolated
Silent Knight	5808	Fire Alarm Control Panel in Medium Metal Cabinet	127 Pt. Single Loop Addressable Panel	Surface Wall Mount	28	48	16.0	26.4	4.7	Interpolated
Silent Knight	6808	Fire Alarm Control Panel in Medium Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	28	48	16.4	26.4	4.1	Interpolated
Farenhyte	IFP-2000	Fire Alarm Control Panel in Medium Metal Cabinet	Scalable Analog / Addressable Fire Alarm Control Panel	Surface Wall Mount	28	48	16.0	26.4	4.7	Interpolated

Notes:

1) Extrapolated model (RPS-1000) is de-populated UUT-3.

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Table 1 - Certified Product Table (Continued)

Alternate Branding Model Numbers		Basic Description	Unit Details	Mounting	Weight Without Batteries [lb]	Max Weight [lb]	Max Dimensions [in]			UUT
							Width	Height	Depth	
Silent Knight	6820	Fire Alarm Control Panel in Medium Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	28	48	16.4	26.4	4.1	Interpolated
Farenhyte	RFP-2100	Fire Alarm Control Panel in Medium Metal Cabinet	Scalable Analog / Addressable Fire Alarm Control System	Surface Wall Mount	28	48	16.4	26.4	4.1	Interpolated
Fike	RFCP-2100	Fire Alarm Control Panel in Medium Metal Cabinet	Scalable Analog / Addressable Fire Alarm Control System	Surface Wall Mount	28	48	16.4	26.4	4.1	Interpolated
Farenhyte	IFP-300	Fire Alarm Control Panel in Medium Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	28	48	16.4	26.4	4.1	Interpolated
Fike	FCP-300	Fire Alarm Control Panel in Medium Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	28	48	16.4	26.4	4.1	Interpolated
Farenhyte	IFP-2100	Fire Alarm Control Panel in Medium Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	28	48	16.4	26.4	4.1	Interpolated
Fike	FCP-2100	Fire Alarm Control Panel in Medium Metal Cabinet	Intelligent Fire Alarm Control Panel	Surface Wall Mount	28	48	16.4	26.4	4.1	Interpolated
Gamewell FCI	150-00026 / FV IV-50	Fire Alarm Control Panel with Microphone in Medium Metal Cabinet	Voice Evacuation System	Surface Wall Mount	28	56	17.0	26.0	4.0	Interpolated
Silent Knight	SKE-450	Fire Alarm Control Panel with Microphone in Medium Metal Cabinet	Voice Evacuation System	Surface Wall Mount	28	56	17.0	26.0	4.0	UUT-1

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Table 1 - Certified Product Table (Continued)

Alternate Branding	Model Numbers	Basic Description	Unit Details	Mounting	Weight Without Batteries [lb]	Max Weight [lb]	Max Dimensions [in]			UUT
							Width	Height	Depth	
Silent Knight	VIP-50	Amplifier in Medium Metal Cabinet	50 Watt Amplifier	Surface Wall Mount	11.5	19.5	16.0	26.3	4.0	Extrapolated
Farenhyte	ECS-50	Amplifier in Medium Metal Cabinet	50 Watt Amplifier	Surface Wall Mount	11.5	19.5	16.0	26.3	4.0	Extrapolated
Fike	FIK-50W	Amplifier in Medium Metal Cabinet	50 Watt Amplifier	Surface Wall Mount	11.5	19.5	16.0	26.3	4.0	Extrapolated
Notifier	NFC-50DA	Amplifier in Medium Metal Cabinet	50 Watt Amplifier	Surface Wall Mount	11.5	19.5	16.0	26.3	4.0	Extrapolated
Fire Lite	ECC-50DA	Amplifier in Medium Metal Cabinet	50 Watt Amplifier	Surface Wall Mount	11.5	19.5	16.0	26.3	4.0	Extrapolated
Silent Knight	VIP-125	Amplifier in Medium Metal Cabinet	125 Watt Amplifier	Surface Wall Mount	28	46	16.0	26.3	4.0	Extrapolated
Farenhyte	ECS-125	Amplifier in Medium Metal Cabinet	125 Watt Amplifier	Surface Wall Mount	28	46	16.0	26.3	4.0	Extrapolated
Fike	FIK-125W	Amplifier in Medium Metal Cabinet	125 Watt Amplifier	Surface Wall Mount	28	46	16.0	26.3	4.0	Extrapolated
Notifier	NFC-125DA	Amplifier in Medium Metal Cabinet	125 Watt Amplifier	Surface Wall Mount	28	46	16.0	26.3	4.0	Extrapolated

Notes:

1) Extrapolated models are de-populated UUT-9.

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Table 1 - Certified Product Table (Continued)

Alternate Branding	Model Numbers	Basic Description	Unit Details	Mounting	Weight Without Batteries [lb]	Max Weight [lb]	Max Dimensions [in]			UUT
							Width	Height	Depth	
Fire Lite	ECC-125DA	Amplifier in Medium Metal Cabinet	125 Watt Amplifier	Surface Wall Mount	28	46	16.0	26.3	4.0	Extrapolated
Silent Knight	EVS-125W	Amplifier in Medium Metal Cabinet	External Amplifier	Surface Wall Mount	28	49	16.0	26.3	4.0	UUT-9
Farenhyte	IFP-100VIP	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Voice Integration Panel	Surface Wall Mount	28	46	20.4	27.0	5.0	Interpolated
Farenhyte	IFP-100ECS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Voice Integration Panel	Surface Wall Mount	28	46	20.4	27.0	5.0	Interpolated
Farenhyte	IFP-300ECSB	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Emergency Communication System with Fire Alarm Control Panel	Surface Wall Mount	55	70	21.6	28.1	5.1	Interpolated
Farenhyte	IFP-300 ECS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Emergency Communication System with Fire Alarm Control Panel	Surface Wall Mount	55	70	22.0	28.0	5.0	UUT-5
Fike	FCP-300ECS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Emergency Communication System with Fire Alarm Control Panel	Surface Wall Mount	55	70	22.0	28.0	5.0	Interpolated
Farenhyte	VIP-RM	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Remote Display / Microphone	Surface / Flush Wall Mount	53	71	20.0	26.5	4.6	Interpolated
Farenhyte	ECS-RM / ECS-RCU-2000	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Remote Display / Microphone	Surface / Flush Wall Mount	53	71	20.0	26.5	4.6	Interpolated

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Notes:

1) Extrapolated model (ECC-125DA) is de-populated UUT-9.

Table 1 - Certified Product Table (Continued)

Alternate Branding Model Numbers		Basic Description	Unit Details	Mounting	Weight Without Batteries [lb]	Max Weight [lb]	Max Dimensions [in]			UUT
							Width	Height	Depth	
Farenhyte	IFP-2000VIP	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Voice Integration Panel with Analog / Addressable Fire Alarm Control	Surface / Flush Wall Mount	53	71	20.0	26.5	4.6	Interpolated
Farenhyte	IFP-2000ECS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Voice Integration Panel with Analog / Addressable Fire Alarm Control	Surface / Flush Wall Mount	53	71	20.0	26.5	4.6	Interpolated
Farenhyte	VIP-RM2000	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Remote Display / Microphone	Surface / Flush Wall Mount	53	71	20.0	26.5	4.6	Interpolated
Farenhyte	IFP-1000VIP	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Emergency Communication System with Fire Alarm Control Panel	Surface / Flush Wall Mount	53	71	20.4	26.5	4.6	Interpolated
Farenhyte	IFP-1000ECS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Emergency Communication System with Fire Alarm Control Panel	Surface / Flush Wall Mount	53	71	20.4	26.5	4.6	Interpolated
Silent Knight	5820XL-EVS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Emergency Communication System with Fire Alarm Control Panel	Surface / Flush Wall Mount	53	71	20.4	27.0	5.0	Interpolated
Silent Knight	6820 EVS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Emergency Communication System with Fire Alarm Control Panel	Surface Wall Mount	55	72	22.0	28.0	5.0	UUT-6
Farenhyte	IFP-2100ECSB	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Scalable Analog / Addressable Fire Alarm Control System	Surface Wall Mount	55	76	21.6	28.1	5.1	Interpolated
Fike	FCP-2100ECS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Scalable Analog / Addressable Fire Alarm Control System	Surface Wall Mount	55	76	22.0	28.0	5.0	Interpolated
Farenhyte	IFP-2100ECS	Fire Alarm Control Panel with Microphone in Large Metal Cabinet	Scalable Analog / Addressable Fire Alarm Control System	Surface Wall Mount	55	76	22.0	28.0	5.0	UUT-4

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Table 2 - Certified Subcomponents - Audio Splitters

Model	Manufacturer	Materials	Description	Max Weight [lb]	UUT
ECS-CE4	Honeywell	PCB	4 Zone Audio Splitter	<1	Extrapolated
FIK-CE4	Honeywell	PCB	4 Zone Audio Splitter	<1	Extrapolated
EVS-CE4	Honeywell	PCB	4 Zone Audio Splitter	<1	UUT-9
NFC-CE4	Honeywell	PCB	4 Zone Audio Splitter	<1	Interpolated
ECC-CE4	Honeywell	PCB	4 Zone Audio Splitter	<1	Interpolated
VIP-CE4	Honeywell	PCB	4 Zone Audio Splitter	1.0	Interpolated
SKE-ZN4	Honeywell	PCB	4 Zone Audio Splitter	1.0	Interpolated
SKE-ZN6	Honeywell	PCB	6 Zone Audio Splitter	1.0	UUT-1

Notes:

1) PCB = Printed Circuit Board

Table 3 - Certified Subcomponents - Transformers

Model	Manufacturer	Materials	Description	Max Weight [lb]	UUT
5129	Basler Electric Inc.	Copper Windings, Steel Frame	Transformer	2.6	Extrapolated from UUT-11
5135	Basler Electric Inc.	Copper Windings, Steel Frame	Transformer	2.6	Extrapolated from UUT-11
115035	Basler Electric Inc.	Copper Windings, Steel Frame	Transformer	2.6	UUT-2
115061	Basler Electric Inc.	Copper Windings, Steel Frame	Transformer	2.6	UUT-1, UUT-7

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Table 4 - Certified Subcomponents - Control Boards

Model	Manufacturer	Materials	Description	Max Weight [lb]	UUT
051282-PCA	Honeywell	PCB	Main Control Board	<1	Extrapolated
077040-PCA	Honeywell	PCB	Main Control Board	<1	Extrapolated
058200-PCA	Honeywell	PCB	Main Control Board	<1	Extrapolated
051050-PCA	Honeywell	PCB	Main Control Board	<1	UUT-2
068200-PCA	Honeywell	PCB	Main Control Board	<1	Interpolated
057000-PCA	Honeywell	PCB	Main Control Board	1.1	Interpolated
077500-PCA	Honeywell	PCB	Main Control Board	1.5	UUT-1
054960-PCA	Honeywell	PCB	Main Control Board	1.8	Interpolated
054950-PCA	Honeywell	PCB	Main Control Board	1.9	Interpolated
078000-PCB	Honeywell	PCB	Main Control Board	2.1	Interpolated
FIK-50WBD	Honeywell	PCB	Main Control Board	2.1	Interpolated
054990-PCA	Honeywell	PCB	Main Control Board	2.2	Interpolated
058080-PCA	Honeywell	PCB	Main Control Board	2.3	Interpolated
P052090GA	Honeywell	PCB	Main Control Board	2.3	Extrapolated
P052080	Honeywell	PCB	Main Control Board	2.3	UUT-3
058950-PCA	Honeywell	PCB	Main Control Board	2.4	Interpolated
FIK-RPS1000BD	Honeywell	PCB	Main Control Board	2.4	Interpolated
078100-PCA	Honeywell	PCB	Main Control Board	3.1	UUT-9
FIK-125WBD	Honeywell	PCB	Main Control Board	3.1	Interpolated
068970-PCA	Honeywell	PCB	Main Control Board	3.2	UUT-4
FIK-2100BD	Honeywell	PCB	Main Control Board	3.2	Interpolated
EVS-VCM	Honeywell	PCB	Voice Control Board	1.4	UUT-6
ECS-VCM	Honeywell	PCB	Voice Control Board	1.4	Same as UUT-6
VIP-VCM	Honeywell	PCB	Voice Control Board	1.4	Same as UUT-6

Notes:

1) The ECS-VCM & VIP-VCM are identical to the EVS-VCM except for software.

2) PCB = Printed Circuit Board.

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Table 5 - Certified Subcomponents - Batteries

Model	Manufacturer	Materials	Rating (Amps)	Max Weight [lb]	UUT
BAT-1270	Power Sonic	Lead Acid Battery	7	4.8	UUT-2, UUT-7
BAT-12180	Power Sonic	Lead Acid Battery	18	12.6	UUT-1, UUT-3, UUT-4, UUT-5, UUT-6, UUT-9
CP12-33	CooPower	Lead Acid Battery	33	26.0	UUT-8

Table 6 - Certified Subcomponents - Expanders

Model	Manufacturer	Materials	Description	Max Weight [lb]	UUT
VIP-SW24	Honeywell	PCB	24 Switch Expander	1.1	Same as UUT-5
ECS-SW24	Honeywell	PCB	24 Switch Expander	1.1	UUT-5
FIK-SW24	Honeywell	PCB	24 Switch Expander	1.1	Same as UUT-5

Notes:

1) The VIP-SW24 is identical to the ECS-SW24 except for software
2) PCB = Printed Circuit Board

Table 7 - Certified Subcomponents - Other

Model	Manufacturer	Materials	Description	Max Weight [lb]	UUT
LYRIC-3G	Honeywell	PCB	Radio Module for CELL Series	<1	UUT-10
LYRIC-3GLP	Honeywell	PCB		<1	Same as UUT-10
LYRICLTE-A	Honeywell	PCB	Radio Module for LTE Series	<1	UUT-11
5128	Honeywell	PCB	Communicator for 5129	<1	Extrapolated
5130	Honeywell	PCB	Communicator for 5135	<1	Extrapolated
CCP-LYRIC-PCA	Honeywell	PCB	Circuit Board for MOD & CAB Series	<1	UUT-10, UUT-11
Microphone	Shure, Astatic	Plastic	Microphone	<1	UUT-1
SEISKIT-MULTI-1	Honeywell	CRS	Seismic Bracket for EVS-125W	<1	UUT-9
EVS-INT50W	Honeywell	PCB	Internal Amplifier	2.0	UUT-6
SK-NIC	Silent Knight	PCB	Network Card	<1	UUT-5
FIK-NIC	Silent Knight	PCB	Network Card	<1	UUT-5

Notes:

1) The LYRIC-3G & LYRIC-3GLP are identical except for nomenclature.
2) 5128 and 5130 PCBs are bookended by UUT 10 and UUT 111.
3) PCB = Printed Circuit Board.
4) CRS = Cold Rolled Steel.
5) The EVS-125W must be installed with the SK-SCK-5104 seismic bracket.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-1

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	SKE-450	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Audio Splitter: Honeywell; Transformer: Basler Electric Inc.; Control Board: Honeywell; Batteries Power Sonic; Microphone: Shure, Astatic

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
56	4	17	26	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS} (g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2019	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 via 12 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-2

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	5104	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Transformer: Basler Electric Inc.; Control Board: Honeywell; Batteries: Power Sonic

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
14	3	12	16	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS} (g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2019	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 via 12 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-3

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	5208	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Control Board: Honeywell; Batteries: Power Sonic

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
48	4	17	26	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS} (g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2019	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 via 12 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-4

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	IFP-2100 ECS	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Control Board: Honeywell; Batteries: Power Sonic

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
76	5	22	28	N/A	N/A	N/A

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 2019	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 via 12 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-5

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	IFP-300 ECS	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Batteries: Power Sonic; Expander: Honeywell

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
70	5	22	28	N/A	N/A	N/A

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 2019	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 via 12 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-6

30245-1701

Model Line	Model Number	Manufacturer
Silent Knight	6820 EVS	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Control Board: Honeywell; Batteries: Power Sonic; Internal Amplifier: Honeywell

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
72	5	22	28	N/A	N/A	N/A

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 2019	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 via 12 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-7

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	6700	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Transformer: Basler Electric Inc.; Batteries: Power Sonic

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
23	3	13	15	N/A	N/A	N/A

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 2019	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 via 12 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-8

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	RBB	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Batteries: CooPower

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
55	6	16	10	N/A	N/A	N/A

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 2019	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 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-9

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	EVS-125W	Honeywell

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Audio Splitter: Honeywell; Control Board: Honeywell; Batteries: Power Sonic; Seismic Bracket: Honeywell

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
49	4	16	26	N/A	N/A	N/A

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 2019	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 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-10

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	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]		
	Length	Width	Height	F-B	S-S	V
1	2	6	7	N/A	N/A	N/A

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 2019	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 gauge 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.

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UNIT UNDER TEST (UUT)
Summary Sheet

UUT-11

30995-1901

Model Line	Model Number	Manufacturer
Silent Knight	LTE-CAB-SK with Cell 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]		
	Length	Width	Height	F-B	S-S	V
5	3	10	10	N/A	N/A	N/A

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 2019	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 gauge 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.

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