



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0065-10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Silent Knight – Division Of Honeywell

Manufacturer's Technical Representative: Michael Mclsaac

Mailing Address: 7550 Meridian Circle; Maple Grove, MN 55369

Telephone: (763) 463-4144 Email: mike.mcisaac@honeywell.com

Product Information

Product Name: Fire Alarm Control Panel

Product Type: Rigid Wall Mounted Electrical Control Panel

Product Model Number: Reference Table 1 of Attachment

(List all unique product identification numbers and/or part numbers)

General Description: Electrical Control Panel For Fire Alarm and Detector Systems made by Honeywell.

Mounting Description: Rigid Wall Mounted

Applicant Information

Applicant Company Name: Silent Knight – Division of Honeywell

Contact Person: Michael Mclsaac

Mailing Address: 7550 Meridian Circle; Maple Grove, MN 55369

Telephone: (763) 463-4144 Email: mike.mcisaac@honeywell.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: Michael McIsaac Date: 11/10/2013

Title: Regulatory Engineer Company Name: Silent Knight – Division of Honeywell

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 6/14/13)



osHPD



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: Arches Engineering, LLC

Name: Ruth Powell California License Number: S4657

Mailing Address: P.O. Box 3852; Grand Junction, CO 81502

Telephone: (970) 255-6788 Email: ruth@archesengineering.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): _____

Testing Laboratory

Company Name: Environ Laboratories

Contact Name: Kent L. Erickson

Mailing Address: 9725 Girard Avenue South; Minneapolis, MN 55431

Telephone: (952) 888-7795 Email: kle@environlab.com

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 6/14/13)



osHPD



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

Seismic Parameters

Design in accordance with ASCE 7-05 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 1.70

S_{DS} (Design spectral response acceleration at short period, g) = 2.27

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.5

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = See Attachment

Overall dimensions and weight (or range thereof) = See Attachment

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) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

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, 2010: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Certified and Tested Unit Descriptions

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019

Signature:  Date: 10/15/2013

Print Name: M. R. Karim Title: SHFR

Special Seismic Certification Valid Up to : S_{DS} (g) = 2.27 z/h = 1.0

Condition of Approval (if applicable): _____



Table 1a: Certified Product Matrix

| PRODUCT NUMBER | DESCRIPTION | MANUFACTURER | MOUNTING | OPTIONS/ ACCESSORIES | WEIGHT (LB) | WIDTH (IN) | HEIGHT (IN) | DEPTH (IN) | BASIS |
|----------------|--|--------------|----------------------------|---|-------------|------------|-------------|------------|--------------|
| 5104 | Fire Control 6 Channel Communicator | Honeywell | Surface Wall Mount | (2) 7 amp Batteries | 15 | 12.25 | 16 | 3 | UUT 2 |
| 5128 | 4 Channel Communicator | Honeywell | Surface Wall Mount | | 2 | 4 | 8.75 | 1.25 | Interpolated |
| 5129 | 4 Channel Communicator | Honeywell | Surface Wall Mount | | 6 | 10.1 | 10.4 | 3 | Interpolated |
| 5130 | 4 Channel Communicator | Honeywell | Surface Wall Mount | | 2 | 4 | 8.75 | 1.25 | Interpolated |
| 5135 | 4 Channel Communicator | Honeywell | Surface Wall Mount | | 6 | 10.1 | 10.4 | 3 | Interpolated |
| 5495 | 6 Amp Distributed Power Module | Honeywell | Surface Wall Mount | (2) 7 amp Batteries | 18.5 | 12.25 | 16 | 3 | Interpolated |
| 5499 | 9 Amp Distributed Power Module | Honeywell | Surface Wall Mount | (2) 7 amp Batteries | 18.5 | 12.25 | 16 | 3 | Interpolated |
| 5496 | 6 Amp Intelligent Power Module | Honeywell | Surface Wall Mount | (2) 7 amp Batteries | 18.5 | 12.25 | 16 | 3 | Interpolated |
| 5208 | Fire Alarm Control Panel w/ Digital Communicator | Honeywell | Surface Wall Mount | (2) 18 amp Batteries | 28 | 17.1875 | 26.375 | 4 | UUT 7 |
| FLEX410 | Fire Alarm Control Panel w/ Digital Communicator | Honeywell | Surface Wall Mount | (2) 18 amp Batteries | 28 | 16 | 26.4 | 4 | Interpolated |
| SKE-450 | Voice Evacuation System | Honeywell | Surface Wall Mount | SKE-ZN4: 4 Zone Audio Splitter SKE-ZN6: 6 Zone Audio Splitter Microphone (2) 18 amp Batteries 115061: Transformer | 28 | 17.1875 | 26.375 | 4 | UUT 1 |
| VIP-125 | 125 Watt Amplifier | Honeywell | Surface Wall Mount | VIP-CE4: 4 Zone Audio Splitter (2) 7 amp Batteries | 28 | 16 | 26.25 | 4.1 | UUT6 |
| ECS-125 | Same as VIP-125 (Name Change) | | | | | | | | Name |
| NFC-125DA | Same as VIP-125 | | | | | | | | Name |
| ECC-125DA | Same as VIP-125 | | | | | | | | Name |
| VIP-50 | 50 Watt Amplifier | Honeywell | Surface Wall Mount | VIP-CE4: 4 Zone Audio Splitter 115031: 120/240 VAC Transformer (2) 7 amp Batteries | 11.5 | 12.75 | 15.2 | 3.4 | Interpolated |
| ECS-50 | Same as VIP-50 (Name Change) | | | | | | | | Name |
| NFC-50DA | Same as VIP-50 | | | | | | | | Name |
| ECC-50DA | Same as VIP-50 | | | | | | | | Name |
| IFP-100VIP | Voice Integration Panel | Honeywell | Surface Wall Mount | RA-100: Display Board VIP-VCM: Voice Control Board VIP-SW24: 24 Switch Expander Microphone (2) 18 amp Batteries | 28 | 16 | 26.25 | 4.1 | Interpolated |
| IFP-100ECS | Same as IFP-100VIP (Name Change) | | | | | | | | Name |
| IFP-1000VIP | Emergency Communication System with Fire Alarm Control Panel | Honeywell | Surface / Flush Wall Mount | VIP-VCM: Voice Control board VIP-SW24: 24 Switch Expander Microphone (2) 18 amp Batteries | 53 | 20 | 26.5 | 4.6 | Interpolated |
| IFP-1000ECS | Same as IFP-1000VIP (Name Change) | | | | | | | | Name |
| 5820XL-EVS | Same as IFP-1000ECS | | | | | | | | Name |
| VIP-RM | Remote Display / Microphone | Honeywell | Surface / Flush Wall Mount | (2) 18 amp Batteries | 53 | 20 | 26.5 | 4.6 | Interpolated |
| ECS-RM | Same as VIP-RM (Name Change) | | | | | | | | Name |

Table 1b:
Certified Product Matrix

| PRODUCT LINE | DESCRIPTION | MANUFACTURER | MOUNTING | OPTIONS/ ACCESSORIES | WEIGHT (LB) | WIDTH (IN) | HEIGHT (IN) | DEPTH (IN) | BASIS |
|-------------------------|--|--------------|----------------------------|--|-------------|------------|-------------|------------|--------------|
| IFP-2000VIP | Voice Integration Panel with Analog / Addressable Fire Alarm Control | Honeywell | Surface / Flush Wall Mount | VIP-VCM VIP-SW24: 24 Switch Expander Microphone (2) 18 amp Batteries IFP-RPT: Network Repeater 5815XL: Addressable Point Exp. | 53 | 20 | 26.5 | 4.6 | UUT 5 |
| IFP-2000ECS | Same as IFP-2000VIP (Name Change) | | | | | | | | Name |
| VIP-RM2000 | Remote Display / Microphone | Honeywell | Surface / Flush Wall Mount | | 53 | 20 | 26.5 | 4.6 | Interpolated |
| 5820XL | Addressable Fire Alarm Panel | Honeywell | Surface Wall Mount | | 28 | 16.2 | 26.4 | 4.2 | UUT 4 |
| IFP-1000 | Addressable Fire Alarm Panel | Honeywell | Surface Wall Mount | | 28 | 16.2 | 26.4 | 4.2 | Interpolated |
| 5895XL | Distributed Power Module | Honeywell | Surface Wall Mount | | 28 | 16.125 | 26.375 | 4.125 | Interpolated |
| RPS-1000 | 6 Amp Distributed Power Module | Honeywell | Surface Wall Mount | | 28 | 16.1 | 26.4 | 4.1 | Interpolated |
| IFP-100 | Intelligent Fire Alarm Control Panel | Honeywell | Surface Wall Mount | | 28 | 16 | 26.4 | 4.65 | Interpolated |
| 5808 | 127 Pt. Single Loop Addressable Panel | Honeywell | Surface Wall Mount | | 28 | 16 | 26.4 | 4.65 | Interpolated |
| 5700 IFP-50 | 50 Pt. Single Loop Addressable Panel | Honeywell | Surface Wall Mount | 115061 Transformer (2) 7 Amp Batteries | 11.5 | 12.75 | 15.25 | 3.5 | UUT 3 |
| 5600 5600C IFP-25 | 25 Pt. Single Loop Addressable Panel | Honeywell | Surface Wall Mount | | 11.5 | 12.75 | 15.2 | 3.4 | Interpolated |
| IFP-2000 | Scalable Analog / Addressable Fire Alarm Control Panel | Honeywell | Surface Wall Mount | | 28 | 16 | 26.4 | 4.65 | Interpolated |
| RPS-2000 | Distributed Power Module | Honeywell | Surface Wall Mount | | 28 | 16 | 26.4 | 4.65 | Interpolated |

Table 2:
UUT Specifications

| UUT | MODEL | SERIAL NUMBER | MOUNTING | NEMA | WEIGHT (LB) | WIDTH (IN) | HEIGHT (IN) | DEPTH (IN) |
|-----|---------------|---------------|--------------------|------|-------------|------------|-------------|------------|
| 1 | SKE-450 | 3127 | Surface Wall Mount | N/A | 28 | 17.1875 | 26.375 | 4 |
| 2 | 5104 | 105692 | Surface Wall Mount | N/A | 15 | 12.25 | 16 | 3 |
| 3 | 5700 / IFP-50 | 6036 | Surface Wall Mount | N/A | 11.5 | 12.75 | 15.25 | 3.5 |
| 4 | 5820XL | 18973 | Surface Wall Mount | N/A | 28 | 16.2 | 26.4 | 4.2 |
| 5 | IFP-2000VIP | 507511906 | Surface Wall Mount | N/A | 53 | 20 | 26.5 | 4.6 |
| 6 | VIP-125 | N/A | Surface Wall Mount | N/A | 28 | 16 | 26.25 | 4.1 |
| 7 | 5208 | 65131 | Surface Wall Mount | N/A | 28 | 17.1875 | 26.375 | 4 |

Table 3a:
Certified Sub-Component Matrix
Controllers and Controller Components

| MODEL NUMBER | MANUFACTURER | DESCRIPTION | PRODUCT LINE | BASIS |
|-------------------|-----------------------------|-----------------------------------|----------------------|---------------------|
| SKE-ZN6 | Honeywell | 6 Zone Audio Splitter | IntelliKnight | UUT 1 |
| SKE-ZN4 | Honeywell | 4 Zone Audio Splitter | IntelliKnight | Name |
| VIP-CE4 | Honeywell | 4 Zone Audio Splitter | Farenhyt | UUT 6 |
| ECS-CE4 | Honeywell | 4 Zone Audio Splitter | IntelliKnight | Name |
| NFC-CE4 | Honeywell | 4 Zone Audio Splitter | Honeywell | Name |
| ECC-CE4 | Honeywell | 4 Zone Audio Splitter | Honeywell | Name |
| 115061 | Basler Electric Inc. | Transformer | IntelliKnight | UUT 1, UUT 3 |
| 115035 | Basler Electric Inc. | Transformer | IntelliKnight | UUT2 |
| 115031 | Basler Electric Inc. | Transformer | Farenhyt | Size |
| VIP-VCM | Honeywell | Voice Control Board | Farenhyt | UUT 5 |
| ECS-VCM | Honeywell | Voice Control Board | IntelliKnight | Name |
| VIP-SW24 | Honeywell | 24 Switch Expander | Farenhyt | UUT 5 |
| ECS-SW24 | Honeywell | 24 Switch Expander | IntelliKnight | Name |
| Microphone | Shure, Astatic | Microphone | Farenhyt | UUT 1 |
| 051050-PCA | Honeywell | Main Control Board | IntelliKnight | UUT 2 |
| 051282-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 051283-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 054950-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 054960-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 054990-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 056000-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 057000-PCA | Honeywell | Main Control Board | IntelliKnight | UUT3 |
| 058080-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 058200-PCA | Honeywell | Main Control Board | IntelliKnight | UUT4 |
| 058950-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 068200-PCA | Honeywell | Main Control Board | Farenhyt | UUT 5 |
| 068970-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 077040-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 077500-PCA | Honeywell | Main Control Board | IntelliKnight | UUT 1 |
| 078000-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 078031-PCA | Honeywell | Main Control Board | IntelliKnight | Software |
| 078100-PCA | Honeywell | Main Control Board | Farenhyt | UUT 6 |
| P052080 | Honeywell | Main Control Board | IntelliKnight | UUT 7 |
| P052090GA | Honeywell | Main Control Board | IntelliKnight | Software |
| IFP-RPT | Honeywell | Network Repeater | Farenhyt | UUT 5 |
| 5815XL | Honeywell | Addressable Point Expander | Farenhyt | UUT 5 |

Table 3b:
Component Identification Matrix
Batteries

| BATTERY SIZE (Ah) | MANUFACTURER | BASIS |
|-------------------|--------------|-------------|
| 7 | CASIL | UUT 2, 3, 6 |
| 7-18 | CASIL | Size |
| 18 | CASIL | UUT 1, 5, 7 |

Table 3c:
Component Identification Matrix
Cabinet

| CABINET NUMBER | MANUFACTURER | DIMENSIONS | | | WEIGHT (LBS) | NEMA RATING | CONSTRUCTION | BASIS |
|----------------|--------------|------------|-------------|------------|--------------|-------------|--------------------------|--------|
| | | WIDTH (IN) | HEIGHT (IN) | DEPTH (IN) | | | | |
| 122537 | Honeywell | 12.25 | 16 | 3 | 6 | N/A | Cold Formed Carbon Steel | UUT 2 |
| 122599 | Honeywell | 12.25 | 16 | 3 | 6 | N/A | Cold Formed Carbon Steel | Weight |
| 122509 | Honeywell | 12.75 | 15.25 | 3.5 | 6 | N/A | Cold Formed Carbon Steel | UUT 3 |
| 122723 | Honeywell | 16 | 26.4 | 4.65 | 17 | N/A | Cold Formed Carbon Steel | Weight |
| 122740 | Honeywell | 16 | 26.4 | 4.65 | 17 | N/A | Cold Formed Carbon Steel | Weight |
| 122772 | Honeywell | 16 | 26.25 | 4.1 | 21 | N/A | Cold Formed Carbon Steel | UUT 6 |
| 122773 | Honeywell | 16 | 26.25 | 4.1 | 34 | N/A | Cold Formed Carbon Steel | Weight |
| 122950 | Honeywell | 16 | 26.4 | 4.65 | 21 | N/A | Cold Formed Carbon Steel | Weight |
| 122960 | Honeywell | 16 | 26.4 | 4.65 | 21 | N/A | Cold Formed Carbon Steel | Weight |
| 122417 | Honeywell | 16.125 | 26.375 | 4.125 | 17 | N/A | Cold Formed Carbon Steel | Weight |
| 122466 | Honeywell | 16.2 | 26.4 | 4.2 | 17 | N/A | Cold Formed Carbon Steel | UUT 4 |
| 122723 | Honeywell | 17.1875 | 26.375 | 4 | 17 | N/A | Cold Formed Carbon Steel | UUT 7 |
| 122735 | Honeywell | 17.1875 | 26.375 | 4 | 17 | N/A | Cold Formed Carbon Steel | UUT 1 |
| 122693 | Honeywell | 20 | 26.5 | 4.6 | 34 | N/A | Cold Formed Carbon Steel | Weight |
| 122774 | Honeywell | 20 | 26.5 | 4.6 | 34 | N/A | Cold Formed Carbon Steel | Weight |
| 122963 | Honeywell | 20 | 26.5 | 4.6 | 34 | N/A | Cold Formed Carbon Steel | UUT 5 |

**Unit Under Test (UUT)
Summary Sheet**

Manufacturer: *Silent Knight – Division of Honeywell*

Model Line: *IntelliKnight*

Model Number: *SKE-450*

Product Construction Summary:

Formed 16 gage cold formed carbon steel with electrical components.

Subcomponent Summary:

SKE-SRM: Supervised Remote Microphone (**Manufactured by: Honeywell**)

SKE-ZN6: 6 Zone Audio Splitter (**Manufactured by: Honeywell**)

Microphone (Manufactured by: Shure, Astatic)

115061: Transformer (**Manufactured by: Basler Electric Inc.**)

Batteries: (2) 18 Amp (**Manufactured by: Casil**)

077500-PCA: Main board (**Manufactured by: Honeywell**)

UUT Properties

| Weight (lb) | Dimensions (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|-----------------|---------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 28 | 4 | 17.1875 | 26.375 | N/A | N/A | N/A |

UUT Highest Passed Seismic Test Information

| Building Code | Test Criteria | S _{DS} | z/h | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
|---------------|---------------|-----------------|-----|----------------|--------------------|--------------------|--------------------|--------------------|
| CBC 2010 | ICC-ES AC 156 | 2.27 | 1 | 1.5 | 3.63 | 2.72 | 1.52 | 0.61 |

Test Mounting Details:



(6) #12 Simpson Quik-Drive X Series Sheet Metal Screws (ICC ESR-3006)

**Unit Under Test (UUT)
Summary Sheet**

Manufacturer: *Silent Knight – Division of Honeywell*

Model Line: *IntelliKnight*

Model Number: *5104*

Product Construction Summary:

Formed 16 gage cold formed carbon steel with electrical components.

Subcomponent Summary:

Batteries: (2) 7 Amp (Manufactured by: Casil)
115035: Transformer (Manufactured by: Basler Electric, Inc.)
051050-PCA: main control board (Manufactured by: Honeywell)

UUT Properties

| Weight (lb) | Dimensions (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|-----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 15 | 3 | 12.25 | 16 | N/A | N/A | N/A |

UUT Highest Passed Seismic Test Information

| Building Code | Test Criteria | S _{DS} | z/h | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
|---------------|---------------|-----------------|-----|----------------|--------------------|--------------------|--------------------|--------------------|
| CBC 2010 | ICC-ES AC 156 | 2.27 | 1 | 1.5 | 3.63 | 2.72 | 1.52 | 0.61 |

Test Mounting Details:



(6) #12 Simpson Quik-Drive X Series Sheet Metal Screws (ICC ESR-3006)

**Unit Under Test (UUT)
Summary Sheet**

REI No: R12-06-095

Manufacturer: *Silent Knight – Division of Honeywell*

Model Line: *IntelliKnight*

Model Number: *5700*

Product Construction Summary:

Formed 16 gage cold formed carbon steel with electrical components.

Subcomponent Summary:

- Batteries:** (2) 7 Amp (Manufactured by: Casil)
- 115061:** Transformer (Manufactured by Basler Electric Inc.)
- 057000-PCA:** Main control board (Manufactured by Honeywell)

UUT Properties

| Weight (lb) | Dimensions (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|-----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 11.5 | 3.5 | 12.75 | 15.25 | N/A | N/A | N/A |

UUT Highest Passed Seismic Test Information

| Building Code | Test Criteria | S _{DS} | z/h | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
|---------------|---------------|-----------------|-----|----------------|--------------------|--------------------|--------------------|--------------------|
| CBC 2010 | ICC-ES AC 156 | 2.27 | 1 | 1.5 | 3.63 | 2.72 | 1.52 | 0.61 |

Test Mounting Details:



(6) #12 Simpson Quik-Drive X Series Sheet Metal Screws (ICC ESR-3006)

**Unit Under Test (UUT)
Summary Sheet**

Manufacturer: *Silent Knight – Division of Honeywell*

Model Line: *IntelliKnight*

Model Number: *5820XL*

Product Construction Summary:

Formed 16 gage cold formed carbon steel with electrical components.

Subcomponent Summary:

058200-PCA: Main Control Board (Manufactured by: Honeywell)

UUT Properties

| Weight (lb) | Dimensions (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|-----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 28 | 4.2 | 16.2 | 26.4 | N/A | N/A | N/A |

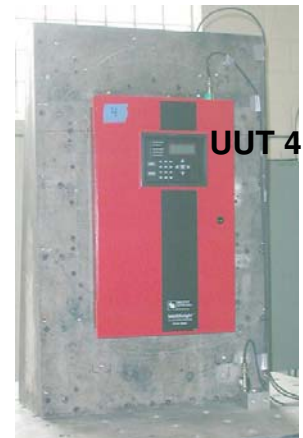
UUT Highest Passed Seismic Test Information

| Building Code | Test Criteria | S _{DS} | z/h | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
|---------------|---------------|-----------------|-----|----------------|--------------------|--------------------|--------------------|--------------------|
| CBC 2010 | ICC-ES AC 156 | 2.27 | 1 | 1.5 | 3.63 | 2.72 | 1.52 | 0.61 |

Test Mounting Details:



(6) #12 Simpson Quik-Drive
X Series Sheet Metal Screws
(ICC ESR-3006)



**Unit Under Test (UUT)
Summary Sheet**

REI No: R12-06-095

Manufacturer: *Silent Knight – Division of Honeywell*

Model Line: *Farenhyt*

Model Number: *IFP-2000VIP*

Product Construction Summary:

Formed 16 gage cold formed carbon steel with electrical components.

Subcomponent Summary:

VIP-VCM: Voice Control Module (Manufactured by: Honeywell)

VIP-SW24: 24 Switch Expander (Manufactured by: Honeywell)

Microphone (Manufactured by: Shure, Astatic)

Batteries: (2) 18 Amp (Manufactured by: Casil)

IFP-RPT: Network Repeater (Manufactured by: Honeywell)

5815XL: Addressable point expander (Manufactured by: Honeywell)

068200-PCA: Main Control Panel (Manufactured by: Honeywell)

UUT Properties

| Weight (lb) | Dimensions (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|-----------------|---------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 28 | 4 | 17.1875 | 26.375 | N/A | N/A | N/A |

UUT Highest Passed Seismic Test Information

| Building Code | Test Criteria | S _{DS} | z/h | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
|---------------|---------------|-----------------|-----|----------------|--------------------|--------------------|--------------------|--------------------|
| CBC 2010 | ICC-ES AC 156 | 2.27 | 1 | 1.5 | 3.63 | 2.72 | 1.52 | 0.61 |

Test Mounting Details:



(6) #12 Simpson Quik-Drive X Series Sheet Metal Screws (ICC ESR-3006)

**Unit Under Test (UUT)
Summary Sheet**

REI No: R12-06-095

Manufacturer: *Silent Knight – Division of Honeywell*

Model Line: *Farenhyt*

Model Number: *VIP-125*

Product Construction Summary:

Formed 16 gage cold formed carbon steel with electrical components.

Subcomponent Summary:

VIP-CE4: Four Additional Audio Circuits (**Manufactured by: Honeywell**)

Batteries: (2) 7 Amp (**Manufactured by: Casil**)

078100-PCA: Main Control Board (**Manufactured by: Honeywell**)

UUT Properties

| Weight (lb) | Dimensions (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|-----------------|---------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 28 | 4 | 17.1875 | 26.375 | N/A | N/A | N/A |

UUT Highest Passed Seismic Test Information

| Building Code | Test Criteria | S _{DS} | z/h | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
|---------------|---------------|-----------------|-----|----------------|--------------------|--------------------|--------------------|--------------------|
| CBC 2010 | ICC-ES AC 156 | 2.27 | 1 | 1.5 | 3.63 | 2.72 | 1.52 | 0.61 |

Test Mounting Details:



(6) #12 Simpson Quik-Drive X Series Sheet Metal Screws (ICC ESR-3006)

**Unit Under Test (UUT)
Summary Sheet**

Manufacturer: *Silent Knight – Division of Honeywell*

Model Line: *IntelliKnight*

Model Number: *5208*

Product Construction Summary:

Formed 16 gage cold formed carbon steel with electrical components.

Subcomponent Summary:

Batteries: (2) 18 Amp (Manufactured by: Casil)
P052080: Main Control Board (Manufactured by: Honeywell)

UUT Properties

| Weight (lb) | Dimensions (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|-----------------|---------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 28 | 4 | 17.1875 | 26.375 | N/A | N/A | N/A |

UUT Highest Passed Seismic Test Information

| Building Code | Test Criteria | S _{DS} | z/h | I _p | A _{FLX-H} | A _{RIG-H} | A _{FLX-V} | A _{RIG-V} |
|---------------|---------------|-----------------|-----|----------------|--------------------|--------------------|--------------------|--------------------|
| CBC 2010 | ICC-ES AC 156 | 2.27 | 1 | 1.5 | 3.63 | 2.72 | 1.52 | 0.61 |

Test Mounting Details:



(6) #12 Simpson Quik-Drive X Series Sheet Metal Screws (ICC ESR-3006)