



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OSP – 0456 – 10

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

Type: ☒ New ☐ Renewal

**Manufacturer Information**

Manufacturer: Falcon Electric, Inc.

Manufacturer's Technical Representative: David Benporat

Mailing Address: 5116 Azusa Canyon Rd., Irwindale, CA 91706

Telephone: 626.962.7770 Email: [David.benporat@falconups.com](mailto:David.benporat@falconups.com)

**Product Information**

Product Name: Falcon UPS

Product Type: Uninterruptible Power Supply

Product Model Number: SG2K-1TG

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

General Description: 2K Tower UPS in a carbon steel enclosure.

Mounting Description: Rigid base mounted.

**Applicant Information**

Applicant Company Name: TRU Compliance, LLC – A Tobolski Watkins Affiliate

Contact Person: Matthew J. Tobolski, Ph.D., S.E.

Mailing Address: 960 SW Disk Drive, Suite 104, Bend, OR 97702

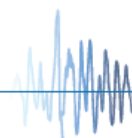
Telephone: 844.878.0200 Email: [mtobolski@trucompliance.com](mailto:mtobolski@trucompliance.com)

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:  Date: 02/04/2016

Title: President & CEO Company Name: TRU Compliance, LLC

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





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

Company Name: TRU Compliance, LLC – A Tobolski Watkins Affiliate

Name: Derek J. Manwill, S.E. California License Number: S6266

Mailing Address: 960 SW Disk Dr., Suite 104, Bend, OR 97702

Telephone: 844.878.0200 Email: [dmanwill@trucompliance.com](mailto:dmanwill@trucompliance.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): \_\_\_\_\_

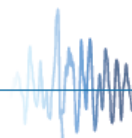
**Testing Laboratory**

Company Name: NTS – Fullerton

Contact Name: Don Bennet

Mailing Address: 1536 E Valencia Dr., Fullerton, CA 92831

Telephone: 714.879.6110 Email: [don.bennett@nts.com](mailto:don.bennett@nts.com)





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**Seismic Parameters**

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.44

$S_{DS}$  (Design spectral response acceleration at short period, g) = 2.00 @  $z/h = 1$ ; 3.20 @  $z/h = 0$

$a_p$  (In-structure equipment or component amplification factor) = 1.0

$R_p$  (Equipment or component response modification factor) = 2.5

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

$z/h$  (Height factor ratio) = 1 @  $S_{DS} = 2.00g$ ; 0 @  $S_{DS} = 3.20g$

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) = \_\_\_\_\_

$\Omega_0$  (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, 2015: ☐ Yes ☒ No

**List of Attachments Supporting Special Seismic Certification**

☒ Test Report(s) ☒ Drawings ☐ Calculations ☒ Manufacturer's Catalog

☒ Other(s) (Please Specify): Attachment

**OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022**

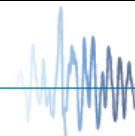
Signature:  Date: 2/25/16

Print Name: M. R. Karim Title: SHFR

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

Condition of Approval (if applicable): Certification is limited to units which are identical to the configured tested units.

\_\_\_\_\_  
\_\_\_\_\_



**TRU PROJECT NO. 15048**

[illegible]

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 15048



**Manufacturer:** Falcon Electric, Inc.

**Model Line:** SG

**Model Number:** SG2K-1TG

**Serial Number:** 1506009012

**UUT 1**

**Product Construction Summary:**

Carbon steel enclosure.

**Options/Subcomponent Summary:**

No certified options or accessories.

**UUT Properties**

| Weight (lb) | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
|             | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 70          | 17.9           | 7.6   | 12.7   | >33.3                         | 30.7      | >33.3    |

**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 2016      | ICC-ES AC156  | 2.0             | 1.0 | 1.5            | 3.20               | 2.40               | 1.53               | 0.53               |
|               |               | 3.2             | 0.0 | 1.5            | 3.20               | 1.28               | 2.13               | 0.85               |

**Test Mounting Details:**



Rigid base mounted to shake table with Falcon Seismic Kit Version #2 and (2) 1/2" grade 8 bolts.  
Unit maintained structural integrity and remained functional per manufacturer requirement.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 15048



**Manufacturer:** Falcon Electric, Inc.

**Model Line:** SG

**Model Number:** SG2K-1TG

**Serial Number:** 1412038026

**UUT 2**

**Product Construction Summary:**

Carbon steel enclosure.

**Options/Subcomponent Summary:**

No certified options or accessories.

**UUT Properties**

| Weight<br>(lb) | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 70             | 17.9           | 7.6   | 12.7   | >33.3                         | 33.3      | >33.3    |

**UUT Highest Passed Seismic Run Information**

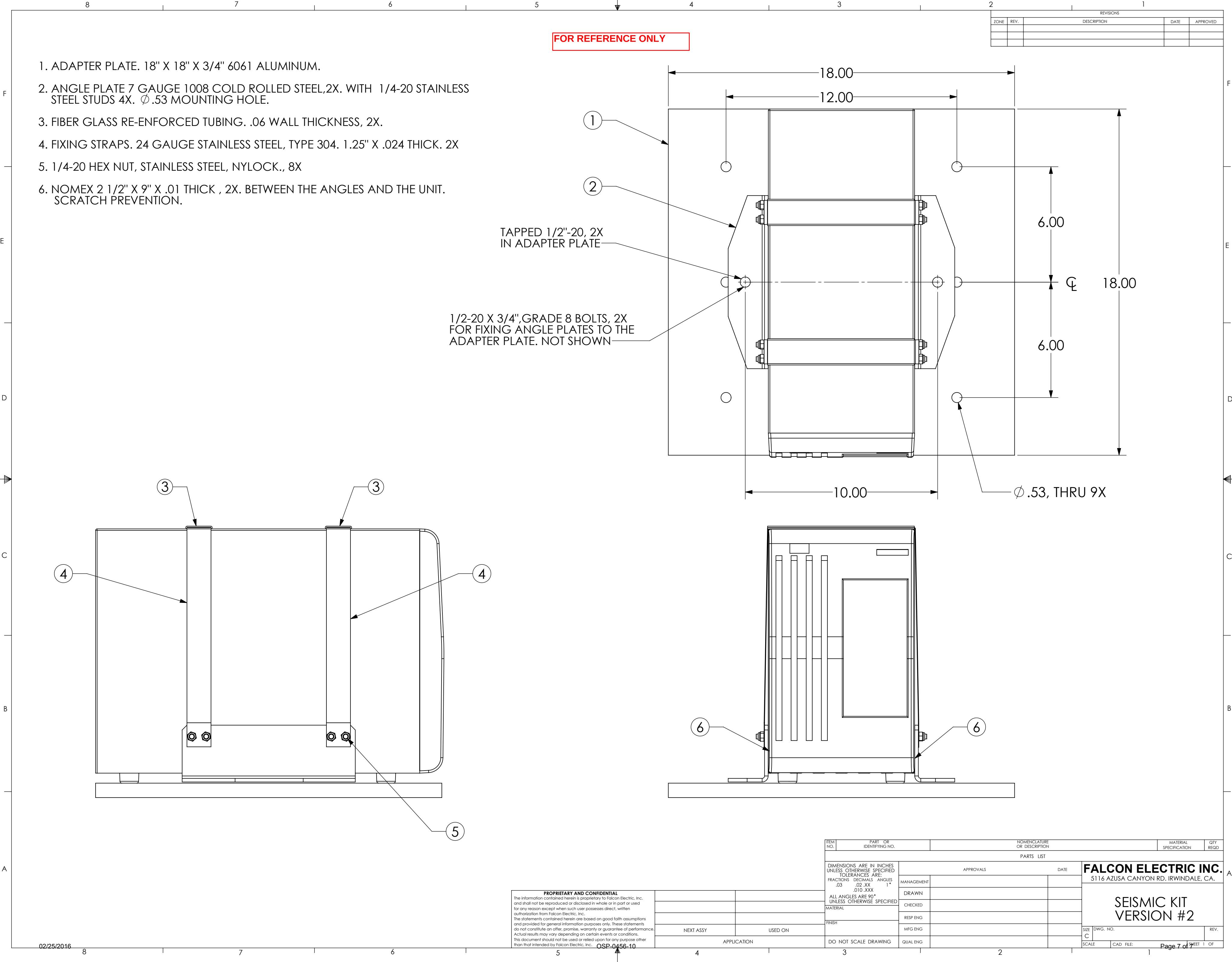
| Building Code | Test Criteria | S <sub>DS</sub> | z/h | I <sub>P</sub> | A <sub>FLX-H</sub> | A <sub>RIG-H</sub> | A <sub>FLX-V</sub> | A <sub>RIG-V</sub> |
|---------------|---------------|-----------------|-----|----------------|--------------------|--------------------|--------------------|--------------------|
| CBC 2016      | ICC-ES AC156  | 2.0             | 1.0 | 1.5            | 3.20               | 2.40               | 1.53               | 0.53               |
|               |               | 3.2             | 0.0 | 1.5            | 3.20               | 1.28               | 2.13               | 0.85               |

**Test Mounting Details:**



UUT 2

Rigid base mounted to shake table with Falcon Seismic Kit Version #2 and (2) 1/2" grade 8 bolts.  
Unit maintained structural integrity and remained functional per manufacturer requirement.  
Contents were included in testing per operating conditions.



FOR REFERENCE ONLY

| REVISIONS |      |             |      |          |
|-----------|------|-------------|------|----------|
| ZONE      | REV. | DESCRIPTION | DATE | APPROVED |
|           |      |             |      |          |
|           |      |             |      |          |
|           |      |             |      |          |

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OSP-0456-10

|                                                                                                                                                                                     |                         |                             |  |                           |           |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------|--|---------------------------|-----------|--------------|
| ITEM NO.                                                                                                                                                                            | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION |  | MATERIAL SPECIFICATION    | QTY REQD. |              |
| PARTS LIST                                                                                                                                                                          |                         |                             |  |                           |           |              |
| DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ARE:<br>FRACTIONS DECIMALS ANGLES<br>.03 .02 .XX 1*<br>.010 .XXX<br>ALL ANGLES ARE 90* UNLESS OTHERWISE SPECIFIED |                         | APPROVALS                   |  | DATE                      |           |              |
|                                                                                                                                                                                     |                         | MANAGEMENT                  |  |                           |           |              |
|                                                                                                                                                                                     |                         | DRAWN                       |  |                           |           |              |
|                                                                                                                                                                                     |                         | CHECKED                     |  |                           |           |              |
|                                                                                                                                                                                     |                         | RESP ENG                    |  |                           |           |              |
| MATERIAL                                                                                                                                                                            |                         | RESP ENG                    |  |                           |           |              |
| FINISH                                                                                                                                                                              |                         | MFG ENG                     |  |                           |           |              |
| DO NOT SCALE DRAWING                                                                                                                                                                |                         | QUAL ENG                    |  |                           |           |              |
| FALCON ELECTRIC INC.<br>5116 AZUSA CANYON RD. IRVINDALE, CA.                                                                                                                        |                         |                             |  | SEISMIC KIT<br>VERSION #2 |           |              |
| SIZE C                                                                                                                                                                              |                         | DWG. NO.                    |  |                           |           | REV.         |
| SCALE                                                                                                                                                                               |                         | CAD FILE:                   |  |                           |           | SHEET 1 OF 7 |

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