

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OSP-0545

| HCAI | Special | Seismic | Certification | Preapproval (OSP) | |
|------|---------|---------|---------------|-------------------|--|
| | | ••••• | ••••••••••• | | |

Type:

X Renewal

Manufacturer Information

New

Manufacturer: Siemens Healthcare GmbH, Advanced Therapies, HC AT R&D HW

Manufacturer's Technical Representative: Martin Knierim

Mailing Address: Siemensstr. 1, 91301 Forchheim, Germany

Telephone: +49 9191 189539

Email: martin.knierim@siemens-healthineers.com

Product Information

Product Type: NA

Product Name: Motorized Operating Table Systems

Product Model Number: See Attachment

General Description: Multiple component operating table system used for interventional patient procedures.

Mounting Description: Rigid floor mounted and Rigid floor/wall mounted None

Applicant Information

Applicant Company Name: W.E. Gundy & Associates, Inc.

Contact Person: Travis Soppe

Tested Seismic Enhancements:

Mailing Address: 1199 Shoreline Dr. Suite 310, Boise, ID 83702

| Telephone: | (208) 342-5989 | Email: | tsoppe@wegai.com |
|------------|----------------|--------|------------------|
| | | | |

26/2

Title: Vice President

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







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| California Licensed Structural Engineer Respons | sible for the Engineering and Test Report(s) |
|--------------------------------------------------------|----------------------------------------------|
| Company Name: W.E. GUNDY & ASOCIATES INC. | |
| Name: Travis Soppe | California License Number: S6115 |
| Mailing Address: P.O. Box 9121, Boise, ID 83707 | |
| Telephone: (208) 342-5989 Email | : tsoppe@wegai.com |
| | |
| Certification Method | |
| GR-63-Core X ICC-ES AC156 | IEEE 344 IEEE 693 NEBS 3 |
| Other (Please Specify): | |
| FOR | CODECO |
| Testing Laboratory | MA |
| Company Name: IABG TEST LABORATORY | |
| Contact Person: Dr. Steffen Roedling | |
| Mailing Address: Einsteinstrasse 20, D-85521 Ottobrunn | , Germany |
| Telephone: +49 89 6088 2052 | roedling@iabg.de |
| | |
| DATE: | 04/26/2023 |
| | * |
| | |
| PATA | |
| DATE: TROPNIA B | JILDING |

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HCAi



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

| Desig | n Basis of Equipment or Components | (Fp/Wp) = | See Attachments | | | | | | | |
|-------|--------------------------------------------------------|--------------------|---------------------------|----------------|-------------------------------|--|--|--|--|--|
| | SDS (Design spectral response accele | eration at sh | ort period, g) = 2.00 (| z/h = 1.0) and | 2.50 (z/h = 0.0) | | | | | |
| | ap (Amplification factor) = See attachments | | | | | | | | | |
| | Rp (Response modification factor) = | See attach | ments | | | | | | | |
| | Ω_0 (System overstrength factor) = | See Attach | ment | | | | | | | |
| | Ip (Importance factor) = | 1.5 | | | | | | | | |
| | z/h (Height ratio factor) = | 1 and 0 | | | | | | | | |
| | Natural frequencies (Hz) = | See Attach | ment | | | | | | | |
| | Overall dimensions and weight = | See Attach | CON | 1pj | | | | | | |
| HCA | Approval (For Office Use Only) | Approval | | 029 | | | | | | |
| Date: | 4/26/2023 | | DSP-0545 | | | | | | | |
| Name | e: Mohammad Karim | DV ·M | abammad Karim | Title: | Supervisor, Health Facilities | | | | | |
| Speci | al Seismic Certification Valid <mark>Up to</mark> : St | os (g) = <u>Se</u> | e Above | z/h = | See Above | | | | | |
| Condi | tion of Approval (if applicable): | DATE | 04/26/2023 | | | | | | | |
| | | ORNIA E | UILDING CO | DE-20 | | | | | | |

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



SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION **CERTIFIED SYSTEM AND COMPONENTS**



Manufacturer: Siemens Healthcare GmbH

System: Artis Interventional System

| Siemens | Din | nensions | (in) | Weight | t Mounting | UUT | |
|-------------|---------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Part Number | Width Length 1 | | Height | (lb) | wounting | UUI | |
| 10992200 | 113.6 | 27.0 | 38.0 | 1,200 ² | floor | UUT-1A/B | |
| 11115700 | 39.4 | 25.6 | 74.8 | 870 | floor / wall | UUT-2 | |
| 10910323 | 23.7 | 37.2 | 28.0 | 290 | floor | UUT-3 | |
| 10848724 | 23.6 | 19.N | 11.8 | 55 ³ | floor | UUT-4 | |
| 11321256 | 16.5 | 20.5 | 30.7 | 80 ³ | floor | UUT-5 | |
| | Part Number 10992200 11115700 10910323 10848724 | Part Number Width 10992200 113.6 11115700 39.4 10910323 23.7 10848724 23.6 | Part Number Width Length 10992200 113.6 27.0 11115700 39.4 25.6 10910323 23.7 37.2 10848724 23.6 19.1 | Part Number Width Length Height 10992200 113.6 27.0 38.0 11115700 39.4 25.6 74.8 10910323 23.7 37.2 28.0 10848724 23.6 19.1 11.8 | Part Number Width Length Height (lb) 10992200 113.6 27.0 38.0 1,200 ² 11115700 39.4 25.6 74.8 870 10910323 23.7 37.2 28.0 290 10848724 23.6 19.1 11.8 55 ³ | Part Number Width Length Height (lb) Mounting 10992200 113.6 27.0 38.0 1,200 ² floor 11115700 39.4 25.6 74.8 870 floor / wall 10910323 23.7 37.2 28.0 290 floor 10848724 23.6 19.1 11.8 55 ³ floor | |

Notes:

Notes: OSP-0545 All components are manufactured by Siemens Healthcare GmbH unless noted. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-componenent within the tested units.

04/26/2023

NG CODE

Patient table weight does not include 510lb simulated weight.

Cooling unit weights include operating fluids.

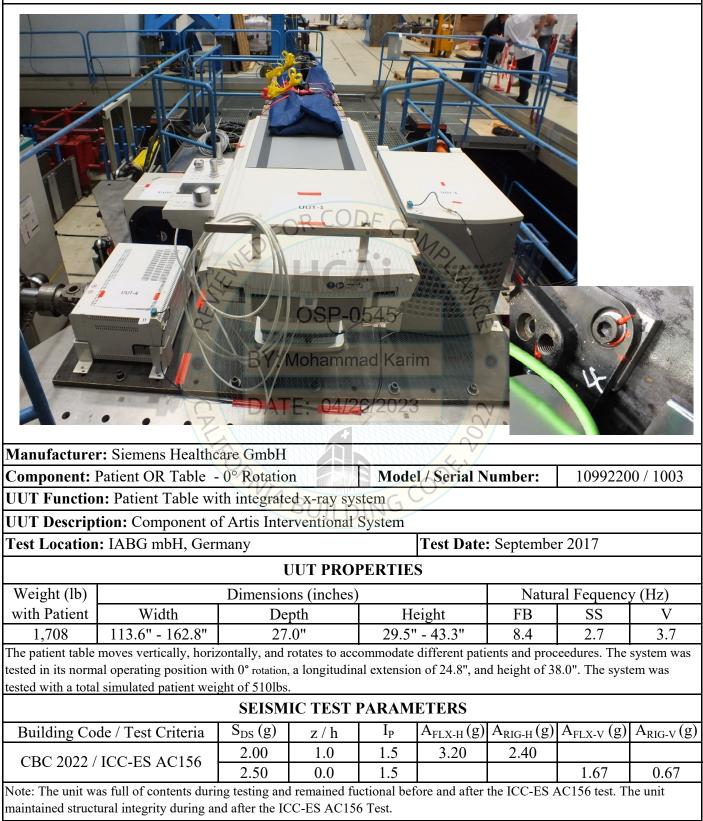
SEISMIC CERTIFICATION LIMITS **System Component** Code z / h Ip Rp Ω F_P / W_P $S_{DS}(g)$ ap 2.0 1.0 2.40 Patient Table OR CBC 2022 1.50 1.0 1.5 1.5 2.5 0 1.13 2.0 1.0 1.50 SC Main VE CBC 2022 1.50 2.5 6.0 2.0 2.5 0 1.13 2.0 1.0 1.44 AXIS-VE CBC 2022 1.50 1.0 2.5 2.0 2.5 0 1.13 2.0 1.0 1.44 FD Cooling CBC 2022 1.50 1.0 2.5 2.0 2.5 0 1.13 2.0 1.0 1.44 CBC 2022 1.50 1.0 2.5 2.0 Tube Cooling Unit 2.5 0 1.13

UUT-1A

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - M16 grade 10.9 bolts

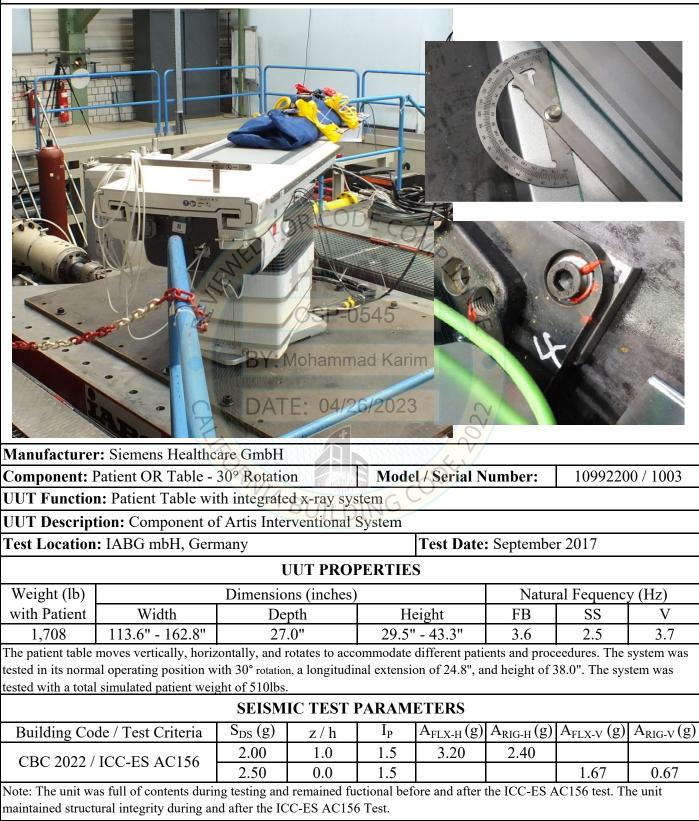


UUT-1B

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - M16 grade 10.9 bolts



UUT-2

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor/Wall mount with 2 - M10 grade 8.8 bolts to the floor and 4 - M6 grade 8.8 bolts to the wall fixture. The M6 bolts to the wall fixture are connected to the UUT with 2 - L3x4x0.25x3" A36 angle brackets and 2 - M12 grade 8.8 bolts.



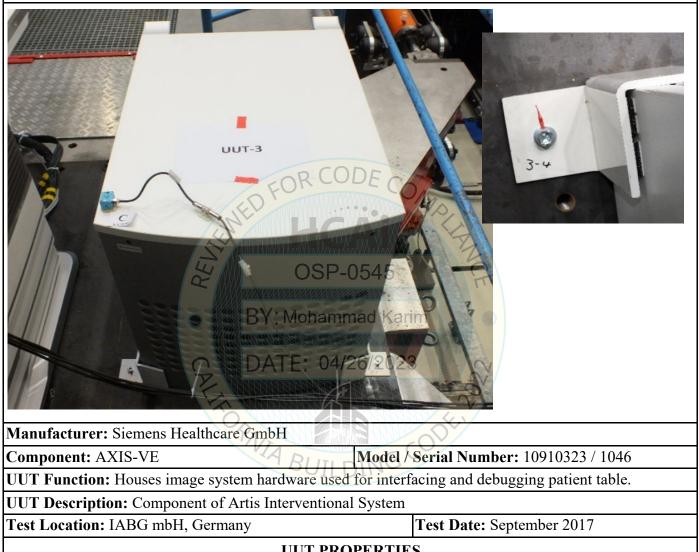
| Manufacture | r: Siemens Health | care Gmbr | DUT | TALG | | | | |
|------------------------------------------------------------------|-----------------------------------------------------|--------------|-------------|----------------|-----------------|------------------|----------------|----------------|
| Component: System Cabinet Model / Serial Number: 11115700 / 1042 | | | | | | | | 0 / 1042 |
| UUT Functio | n: System Cabinet | hosting O | R Patient T | Table con | nputers and | control cor | nponents | |
| UUT Descrip | tion: Component of | of Artis Int | erventional | l System | | | | |
| Test Location | n: IABG mbH, Ger | rmany | | | Test Date | : Septembe | r 2017 | |
| | | ا | UUT PRO | PERTIE | ES | | | |
| $W_{2} = 1.4 (11.)$ | |) | Natura | | | al Fequency (Hz) | | |
| Weight (lb) | Width | De | pth | Height | | FB | SS | V |
| 870 | 39.4" | 25 | .6" | 7 | '4.8" | >33 | 17.0 | >33 |
| | | SEISM | IC TEST | PARAN | IETERS | | | |
| Building Co | de / Test Criteria | $S_{DS}(g)$ | z / h | I _P | $A_{FLX-H}(g)$ | $A_{RIG-H}(g)$ | $A_{FLX-V}(g)$ | $A_{RIG-V}(g)$ |
| CPC 2022 / | ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | | |
| CBC 2022 / | ICC-ES ACISO | 2.50 | 0.0 | 1.5 | | | 1.67 | 0.67 |
| | as full of contents dur tural integrity during a | 0 0 | | | efore and after | r the ICC-ES | AC156 test. T | The unit |

UUT-3

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted using Siemens provided seismic restraint kit. Seismic restraint kit includes steel corner brackets bolted to the floor with 4 - M10 grade 8.8 bolts and attached to the unit with 2"x2" 3M Dual Lock (SJ3550).



| UUI PROPERTIES | | | | | | | | | | |
|-------------------------|--------------------|-------------|-----------------------|--------|----------------|----------------|----------------|----------------|--|--|
| Weight (1h) | | Dimensio | Natural Fequency (Hz) | | | | | | | |
| Weight (lb) | Width | De | pth | Height | | FB | SS | V | | |
| 290 | 23.7" | 37 | 37.2" | | 28.0" | | 18.1 | 27.2 | | |
| | | SEISM | IC TEST | PARAM | ETERS | | | | | |
| Building Co | de / Test Criteria | $S_{DS}(g)$ | z / h | IP | $A_{FLX-H}(g)$ | $A_{RIG-H}(g)$ | $A_{FLX-V}(g)$ | $A_{RIG-V}(g)$ | | |
| CBC 2022 / ICC-ES AC156 | | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | | | | |
| CBC 2022 / | ICC-ES AC150 | 2.50 | 0.0 | 1.5 | | | 1.67 | 0.67 | | |

Note: The unit was full of contents during testing and remained fuctional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT-4

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted using Siemens provided seismic restraint kit. Seismic restraint kit includes steel corner brackets bolted to the floor with 4 - M6 grade 8.8 bolts and attached to the unit with 2"x2" 3M Dual Lock (SJ3550).



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted using Siemens provided seismic restraint kit. Seismic restraint kit includes steel corner brackets bolted to the floor with 4 - M10 grade 8.8 bolts and attached to the unit with 2"x2" 3M Dual Lock (SJ3550).

| Manufacturer: Siemens Healthcare CmbH | | | | | | | | | |
|---------------------------------------|-------------------------------------------------------|--------------|-------------|----------|-----------------|----------------|----------------|----------------|--|
| _ | Tube Cooling Unit | | BLITE | Model / | Serial Nu | mber: 1132 | 21256 / 000 | 01 | |
| UUT Functio | on: Chiller cooling | unit for x-r | ay system | 711. | | | | | |
| | otion: Component of | | erventional | l System | | | | | |
| Test Location | n: IABG mbH, Gei | rmany | | | Test Date | : Septembe | er 2017 | | |
| | | 1 | UUT PRO | PERTIE | ES | | | | |
| Weight (lb) | | Dimensio | ns (inches) |) | | Natur | al Fequency | y (Hz) | |
| with fluid | Width | De | | | eight | FB | SS | V | |
| 80 | 16.5" | 20 | .5" | 3 | 0.7" | 30.0 | 30.0 | >33 | |
| | | SEISM | IC TEST | PARAM | IETERS | | | | |
| Building Co | de / Test Criteria | $S_{DS}(g)$ | z / h | IP | $A_{FLX-H}(g)$ | $A_{RIG-H}(g)$ | $A_{FLX-V}(g)$ | $A_{RIG-V}(g)$ | |
| CBC 2022 | / ICC-ES AC156 | 2.00 | 1.0 | 1.5 | 3.20 | 2.40 | | | |
| | | 2.50 | 0.0 | 1.5 | | | 1.67 | 0.67 | |
| | vas full of contents dur etural integrity during a | | | | efore and after | r the ICC-ES | AC156 test. T | 'he unit | |