APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY	Y
CERTIFICATION PREAPPROVAL (OSP)	PPLICATION #: OSP -	0576-10
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: ⊠ New □ Renewal		
Manufacturer Information		
Manufacturer: Konica Minolta		
Manufacturer's Technical Representative: Tony Abbott		
Mailing Address: 2217 U.S. Hwy 70 East, Garner, NC 27529		
Telephone: (919) 792 - 6420 Email: anthony.a	bbott@conicaminolta.com	
Product Information FOR CODE CO		
Product Name: KDR	70	
Product Type: Digital Radiography System	1/2	
Product Model Number: Varies, see Attachment A (List all unique product identification numbers and/or part numbers)		
General Description: Universal digital radiography medical diagnostic s	ystem O	
DATE: 04/08/2019	9	
Mounting Description: Varies, see Attachment A		
Applicant Information	D _E	
Applicant Company Name: TRU Compliance, by Structural Integrity Asso	ociates, Inc.	
Contact Person: Andrew M. Coughlin, SE		
Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138		
Telephone: 844-878-0200 Email: acoughlin	@structint.com	
I hereby agree to reimburse the Office of Statewide Health Pla accordance with the California Administrative Code, 2016.	nning and Development	review fees in
Signature of Applicant:	Date: <u>8/13/</u>	/2018
Title:Director, TRU Compliance Company Name:TRU Com	pliance, by Structural Integrit	y Associates, Inc.

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





Page 1 of 3

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: _TRU Compliance, by Structural Integrity Associates, Inc.
Name: Andrew M. Coughlin California License Number: S6082
Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138
Telephone: 844-878-0200 Email: acoughlin@structint.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: ✓ Other (Please Specify):
BY:Ali Sumer
Testing Laboratory DATE: 04/08/2019
Company Name: Environmental Testing Laboratory
Contact Name: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas, TX 75229
Telephone: (972) 247-9657 Email: jeremy@etldallas.com



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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes ☐ No
Design Basis of Equipment or Components (F _p /W _p) = See Attachment A
S_{DS} (Design spectral response acceleration at short period, g) = 2.0g (z/h=1), 2.5g(z/h=0)
a _p (In-structure equipment or component amplification factor) = See Attachment A
R _p (Equipment or component response modification factor) = See Attachment A
$Ω_0$ (System overstrength factor) = See Attachment A
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = $1.0 \text{ (S}_{DS} = 2.0 \text{g)}, 0 \text{ (S}_{DS} = 2.5 \text{g)}$
Equipment or Component Natural Frequencies (Hz) = See Attachment A
Overall dimensions and weight (or range thereof) = See Attachment A
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 respons <mark>e acceleration at 1 second period, g) =</mark>
R (Response modification coefficient) = OSP-0576-10
Ω_0 (System overstrength factor) =
C _d (Deflection amplification factor) = BY:Ali Sumer
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 A
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022
Λ
Signature: Date: April 8, 2019
Print Name: Ali Sumer Title: DSE
Special Seismic Certification Valid Up to : S _{DS} (g) = <u>See Above</u> z/h = <u>See Above</u>
Condition of Approval (if applicable):

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





Page 3 of 3

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1800261



Manufacturer: Konica Minolta

Model Line: KDR

TABLE 1

Certified Product Construction Summary:

U-Arms- carbon steel, Generators- carbon steel skins, High Voltage Generators- carbon steel

Certified Options Summary:

UUT 2 tested with DAP Sensor

Mounting Configuration:

See mounting notes for mounting details.

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2016

Seismic Certification Limits:

 $S_{DS} = 2.0g$ z/h=1.0 $S_{DS} = 2.5g$ z/h=0.0

/_P= 1.5

Madallina	Madel /	Dimensions (in)		Weight	F ()A)	2									
Model Line	Model	Depth	Width	Height	(lb)	F _p /W _p	z/h	a _p	R _p	Ω_0	UUT				
KDR Radiograph System ¹ High Voltage Generator ² PC (DELL) ²	SU-45XX	63 _B	y .79.1	7 4 :5ur	ne ⁸⁵²	3.6	<u></u>	2.5	2.5	2	1				
	SU-40XX	63 D	ATE: 0	4 /74.5 / 2	852	1.5	0 7	2.5	2.5	2	2				
	SHF-415	15	23	27	145.7		2				3				
	SHF-515	15	23	27	209					Ω ₀ 2	Interp.				
	SHF-525	15	23	27	209	O\$>					Interp.				
	SHF-545	15	₹ 23	27	209) ,	1 2.5	6		Interp.					
	SHF-645	15	235 U	II27) I	N 209	1.5			2	Interp.					
	SHF-835	15	23	27	217	1.13	0	2.5	0		4				
	CMP200-DR 40kW	13.5	25.5	24.3	112						5				
Generator ²	CMP200-DR 50kW	13.5	25.5	24.3	125						Interp.				
	CMP200-DR 65kW	13.5	25.5	24.3	125						Interp.				
	CMP200-DR 80kW	13.5	25.5	24.3	135.5						6				
DC (DELL) ²	3420	11.49	3.64	11.41	13.88										7
PC (DELL)	3620	17.12	6.88	14.17	11.68						8				
UPS (APC) ²	BE600M1	4.13	10.79	5.47	7.7						9				
Keyboard ⁴	Dell-KB216	5	17.4	0.8	1	1.44					10				
Sedecal Mini Console ⁴	A6517-05	5.12	5.82	1.81	1.3	1.13	0	1	2.5	2	11				
IF Box ²	KDR Interface Unit 2	18.25	7.5	11.5	25.5]					12				
Touch Monitor ²	ET2002L	8.35	15.35	16.9	15.5]					13				
CPI Mini Console ³	CPI Console	12.3	10.9	3.7	6						14				
	Base/wall mounted-ri	gid, ² Bas	e mounte	d-rigid, ³ V	/all moun	ted-rigid	l, ⁴ Velcro	o mount	ed						

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1800261



Manufacturer: Konica Minolta Table Description: Radiograph System Components

Model Line: KDR

TABLE 2

Building Code: CBC 2016 Seismic Certification Limits: $S_{DS} = 2.0 \text{ g} \quad \text{z/h} = 1.0$ $S_{DS} = 2.0 \text{ g} \quad \text{z/h} = 1.0$ $S_{DS} = 2.5 \text{ g} \quad \text{z/h} = 0.0$

Building Code: CBC 20)16		Seismic C	ertificatio	on Limits:	$S_{DS} = 2.5 g z/h = 0.0$	$I_P = 1.5$	
Model Line	Model	Di	mension ((in)	Weight	Material	Notes	UUT
(Manufacturer)	Model	Depth	Width Heig		$_{\mathcal{R}}$ (lb) $_{\mathcal{C}}$ (DE	Notes	001
X-Ray Tube/ Housing	RAD-14/Diamond	-	5.6 ø	18.26	50	Carbon Steel	300kHU	1
(Varian)	RAD-60/Sapphire	-	5.26 ø	18.24	50	Carbon Steel	400kHU	2
Collimator (Ralco)	R225 DHHS (303B)	9.6	11.14	8.5	26	Carbon Steel	2-Knob	1
Collinator (Raico)	R225 DHHS (303C)	9.6	11.1	8.5	28	Carbon Steel	3-Knob	2
DAP Sensor (Konica Minolta)	VacuDAP 158 00 13	7	Ä,	0.25	0.65	Carbon Steel		2
Universal Bucky Stand (Konica Minolta)	SU-45XX	63.0	79.1	74.5 DATE	932	umer Carbon Steel 8/2019		1
Universal Bucky Stand (Konica Minolta)	SU-40XX	63.0	79.1	74.5	941	Carbon Steel		2
				1/A		CO		
					RUIL	DING		





Manufactur	rer: Konica Minolta					
Model Line:	KDR					
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _P
1	U-Arm SU-45XX	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
2	U-Arm SU-40XX	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
3	High Voltage Generator Sedecal SHF-415 (40kW)	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
4	High Voltage Generator Sedecal SHF-835 (80kW)	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
5	High Voltage Generator CMP200-DR (40kW)	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
6	High Voltage Generator CMP200-DR (80kW)	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
7	Dell PC 3420	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
8	Dell PC 3620	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
9	UPS APC-BE600M1	DATE: 04/08/201 14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
10	Dell Keyboard	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
11	Sedecal Mini Console	14889, Rev. 1 L D I N G	ETL-Dallas	2.0 2.5	1 0	1.5
12	KDR IF Box	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
13	ELO Touch Monitor	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
14	CPI Mini Console	14889, Rev. 1	ETL-Dallas	2.0 2.5	1 0	1.5
lotes:						

TRU PROJECT NO. 1800261



UUT 1

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: SU-45XX Serial Number: SU451712002

Product Construction Summary:

U-Arm and stand are constructed of carbon steel.

Options/Subcomponent Summary:

Konica Minolta U-Arm Stand (KDR AU 45XX) with Ralco Collimator (model R225 DHHS -303B) and Varian X-ray tube/ housing (model RAD-14/Diamond), and custom latch made by Konica Minolta for grid, see next page.

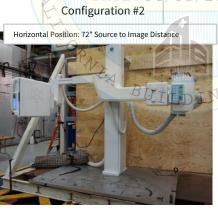
	UUT Properties											
Weight	1	Dimension (in)	Lowest Natural	Frequency (Hz) C	Configuration#1							
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical						
852	63	79.1	OR 74.5 DE	N/A	N/A	N/A						
	-	F		Lowest Natural	Frequency (Hz) C	Configuration#2						
1		E	OCHDE	Front-Back	Side-Side	Vertical						
		(E)	03111	N/A	N/A	N/A						
•		11117111-1-1-1	Bassad Caismin Bu	1.6								

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	F.	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC ES ACIEGA	2.0	1.0	1.5	3.2	2.4	1.67	0.67
	ICC-ES AC156	Su <u>m</u> ei	0.0	1.5				

Test Mounting Details:









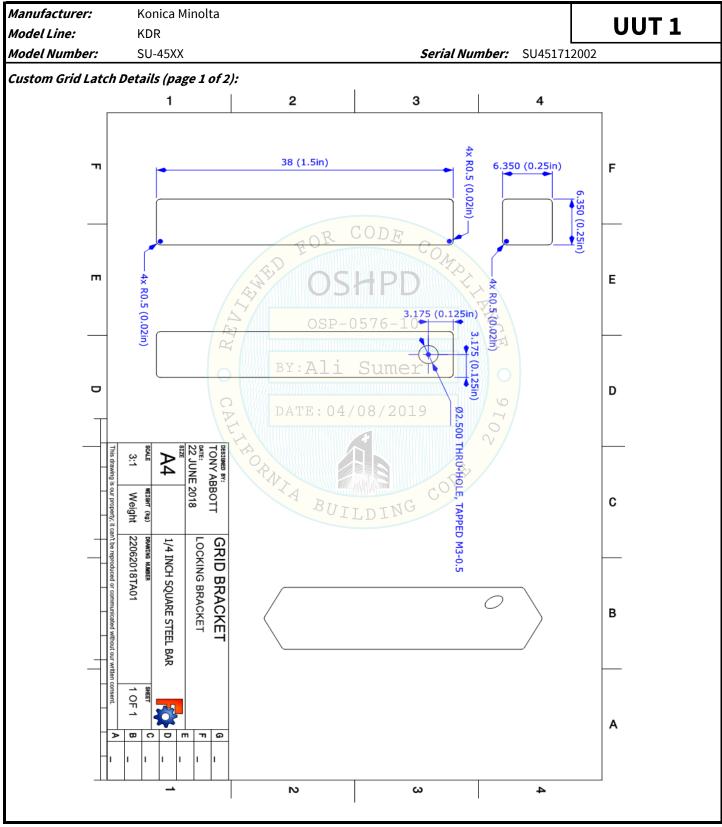


UUT 1 was base/wall mounted - rigid to the table and wall fixture. The UUT was mounted to the shake table with four 1/2"-13 x 1" Grade 5 hex bolts and flat washers. All bolts were torqued to 60ft-lbs. The manufacturer provided a slotted wall mount bracket which was attached to the wall fixture with four #14 hex head lag bolts and washers. The slotted wall bracket was adjusted to twenty inches from wall to the base and fixed into position with two M14 x 50mm Class 12.9 socket head bolts, four flat washers and two split-lock washers. The bolts were torqued to 60 ft-lbs.

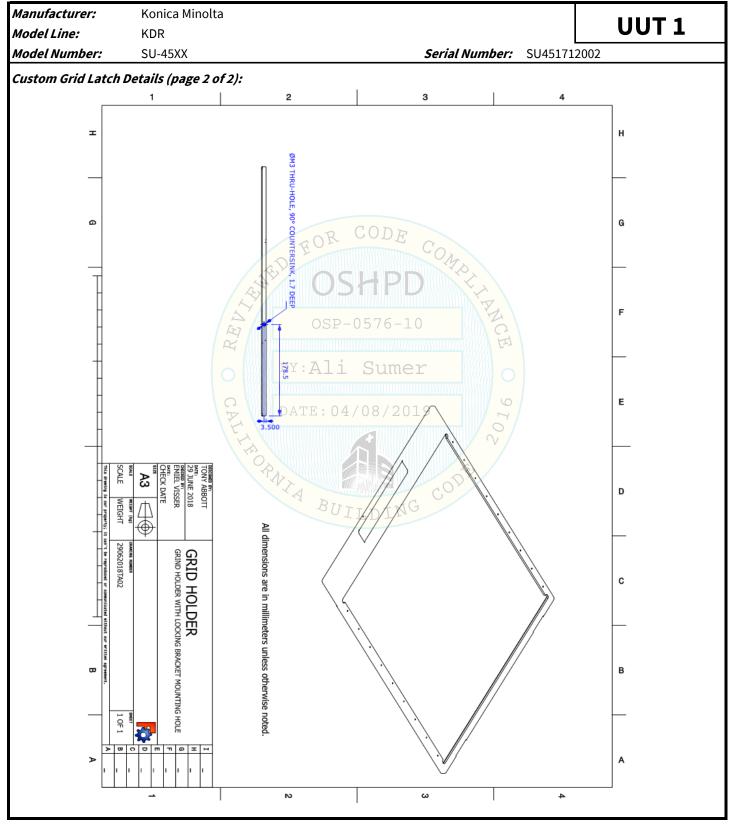
The grid became displaced during the resonant frequency search. A latch was constructed from a piece of hardened steel (dimensions: 0.25" x0.25" x 1.5") and the grid handle was drilled, tapped and countersunk for a 4-40 fastener. The latch was fastened to the grid handle with a 4-40 x ¾" 18-8 stainless steel flathead Phillips screw along with a split washer and nut. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

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TRU PROJECT NO. 1800261



UUT 2

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: SU-40XX Serial Number: SU41803036

Product Construction Summary:

U-Arm and stand are constructed of carbon steel.

Options/Subcomponent Summary:

Konica Minolta U-Arm Stand (KDR AU 40XX) with Ralco Collimator (model R225 DHHS 303C), Varian X-ray tube/ housing (model RAD-60/Sapphire), touchscreen, and custom latch made by Konica Minolta for grid, see next page.

	UUT Properties											
Weight		Dimension (in)	Lowest Natural	Frequency (Hz) C	Configuration#1							
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical						
852	63	79.1	OR 74.5 DE	N/A	N/A	N/A						
		F		Lowest Natural	Frequency (Hz) C	onfiguration#2						
		(19)	ACHDE	Front-Back	Side-Side	Vertical						
		(4)	03111	N/A	N/A	N/A						
	-					-						

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	F.	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC1561	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		5u <u>m</u> e1	0.0	1.5				

Test Mounting Details:





Vertical Posistion: 40" Source to Image Distance







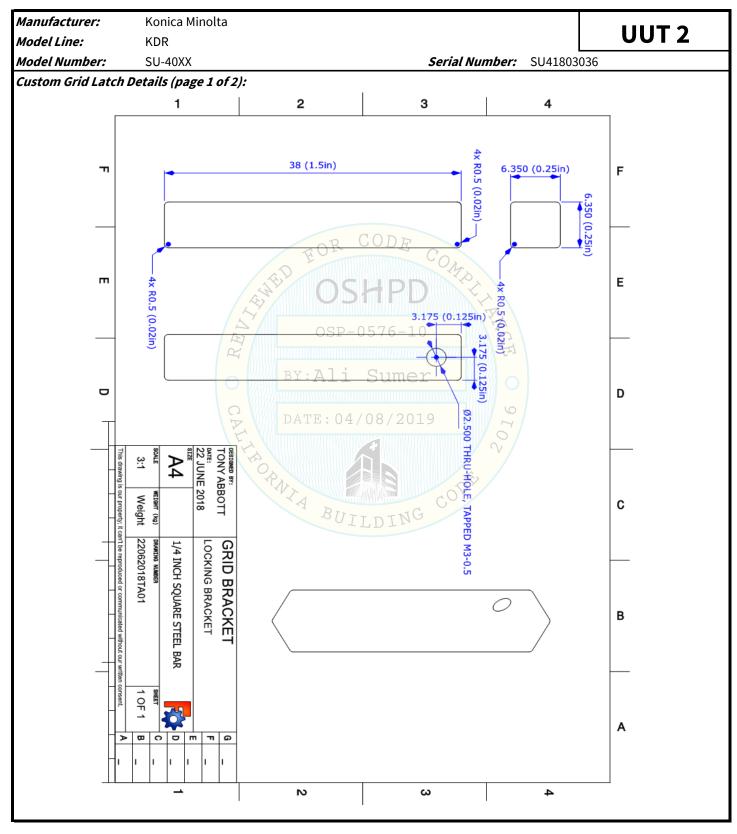




UUT 2 was base/wall mounted - rigid to the table and wall fixture. The UUT was mounted to the shake table with four 1/2"-13 x 1" Grade 5 hex bolts and flat washers. All bolts were torqued to 60ft-lbs. The manufacturer provided a slotted wall mount bracket which was attached to the wall fixture with four #14 hex head lag bolts and washers. The slotted wall bracket was adjusted to twenty inches from wall to the base and fixed into position with two M14 x 50mm Class 12.9 socket head bolts, four flat washers and two split-lock washers. The bolts were torqued to 60 ft-lbs.

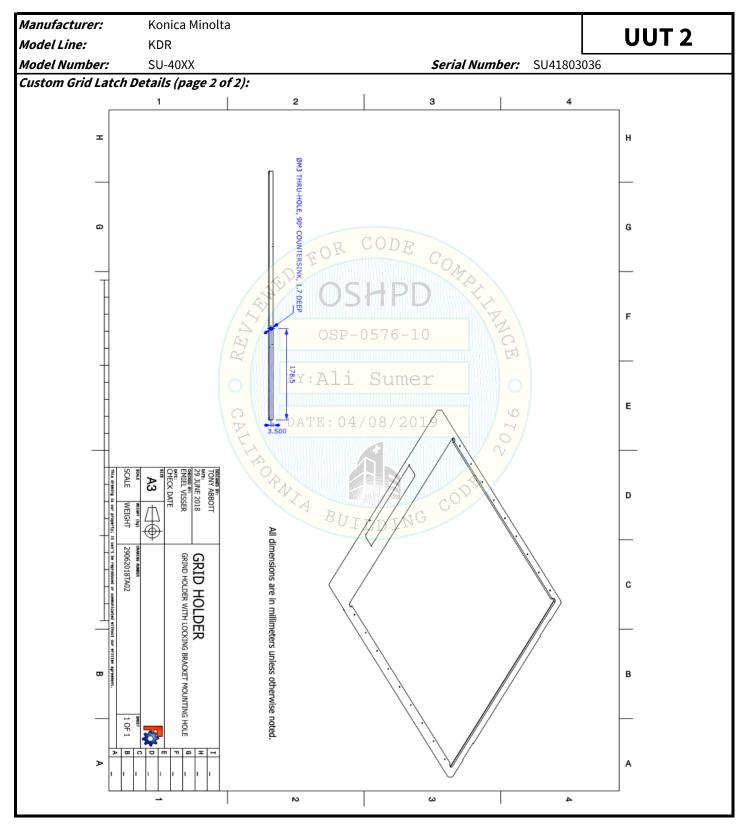
The grid became displaced during the resonant frequency search. A latch was constructed from a piece of hardened steel (dimensions: 0.25" x0.25" x 1.5") and the grid handle was drilled, tapped and countersunk for a 4-40 fastener. The latch was fastened to the grid handle with a 4-40 x ¾" 18-8 stainless steel flathead Phillips screw along with a split washer and nut. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.











TRU PROJECT NO. 1800261



UUT3

Manufacturer: Konica Minolta

Model Line: KDR
Model Number: SHF-4

SHF-415 *Serial Number:* G-76238

Product Construction Summary:

Carbon steel skin

Options/Subcomponent Summary:

Sedecal 40 kW High Voltage Generator

UUT Properties

	OUT Floperties										
Weight		Di <mark>mensi</mark> on (in)	U 31 I F D	Lowest	Natural Frequen	cy (Hz)					
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical					
147.5	14.5	17.5	21.5	22.63	>33.33	23.21					

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 2016	O ICC ES AC1EG	2.0	1.0	1.5	2.7	2.4	1 67	0.67
	C ICC-ES AC156	8/22501	9 0.0	1:5/	3.2	2.4	1.67	0.67

Test Mounting Details:



UUT 3 was base mounted - rigid to the table with three 1/4"-20 x 1-1/2" Grade 5 bolts and flat washers. Mounting holes were located inside the generator housing at each corner.

TRU PROJECT NO. 1800261



UUT 4

Manufacturer: Konica Minolta

Model Line: KDR
Model Number: SHF-835

Serial Number: G-78084

Product Construction Summary:

Carbon steel skin

Options/Subcomponent Summary:

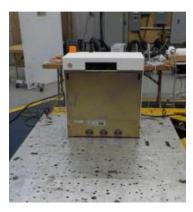
Sedecal 80 kW High Voltage Generator

	UUT Properties VIII Properties											
Weight Dimension (in)			UDITE	Lowest Natural Frequency (Hz)								
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical						
208	15	A 23	27	22.81	18.32	26.73						
				/////////////////////////////////////								

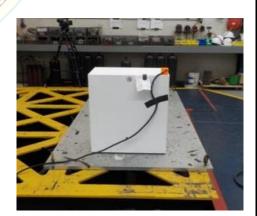
UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	C ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
	DATE: 04/0	8/22501	9 0.0	1:5/				

Test Mounting Details:







UUT 4 was base mounted – rigid to the table with three 1/4"-20 x 1-1/2" Grade 5 bolts and flat washers. Mounting holes were located inside the generator housing at each corner.

TRU PROJECT NO. 1800261



UUT 5

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: CMP200-DR VAW2556RS-G3 Serial Number: COD31220E18

Product Construction Summary:

Carbon steel skin

Options/Subcomponent Summary:

CPI 40 kW High Voltage Generator

IIIIT Properties

	OUT Properties										
Weight	Dimension (in)			Lowest Natural Frequency (Hz)							
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical					
112	13.7	A 25.7	24.3	>33.33	29.19	>33.33					

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria 1	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0	1.0	1.5	2.2	2.4	1.67	0.67
	DATE: 04/0	8/22501	9 0.0	1:5/	3.2			

Test Mounting Details:





UUT 5 was base mounted – rigid to the table with four 1/4"-20 x 1-1/2" Grade 5 bolts and flat washers. Mounting holes were located inside the generator housing at each corner.

TRU PROJECT NO. 1800261



Manufacturer: Konica Minolta

Model Line:KDRModel Number:VZW255Serial Number:CPD31216E18

UUT 6

Product Construction Summary:

Carbon steel skin

Options/Subcomponent Summary:

CPI 80 kW High Voltage Generator

....

	UUI Properties											
Weight		Di <mark>mensio</mark> n (in)	USTIFU	Lowest Natural Frequency (Hz)								
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical						
135.5	13.7	25.7	24.3	27.21	>33.3	>33.3						

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria 1	S _{DS} (g)	z/h	l _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2016	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67		
	DATE: 04/	8/23501	9 0.0	1:5/						

Test Mounting Details:





UUT 6 was base mounted – rigid to the table with four 1/4"-20 x 1-1/2" Grade 5 bolts and flat washers. Mounting holes were located inside the generator housing at each corner.

TRU PROJECT NO. 1800261



UUT 7

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: Dell 3420 Serial Number: 759B9N2

Product Construction Summary:

Carbon steel and plastic skin.

Options/Subcomponent Summary:

Custom mounting bracket made by Konica Minolta, see next page.

UUT Properties

	UUT Properties											
Weight		Dimension (in)	UDITE	Lowest Natural Frequency (Hz)								
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical						
12	11.49	A 3.34	11.41	>33.33	>33.33	>33.33						

UUT Highest Passed Seismic Run Information

		_	LUL L					
Building Code	Test Criteria	S _{DS} (g)	z/h	l _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0	1.0	1.5	32	2.4	1 67	0.67
	DATE: 04/	8/2301	9 0.0	1:5	3.2	2.4	1.67	0.67

Test Mounting Details:

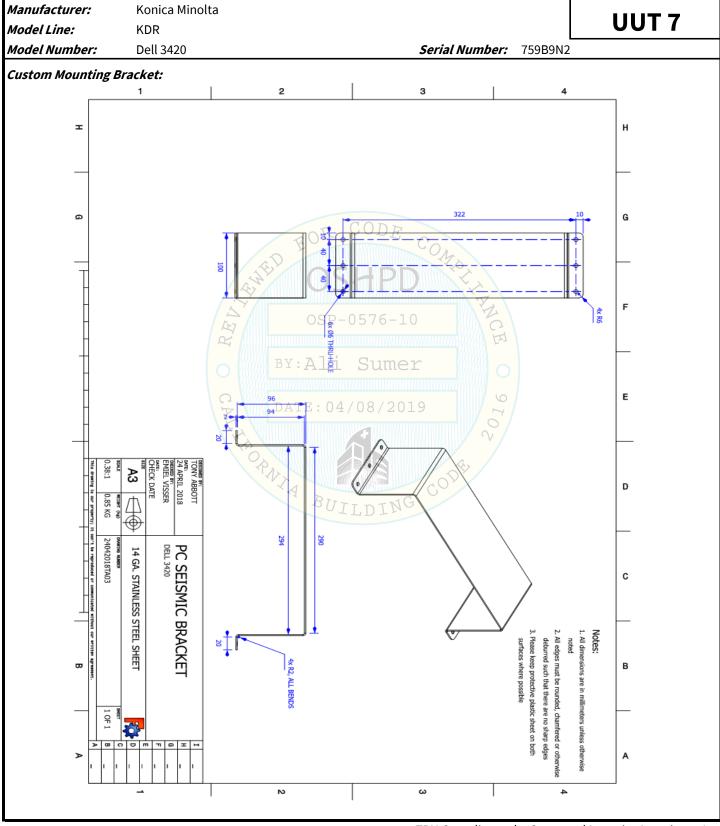




UUT 7 was base mounted – rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket.

TRU PROJECT NO. 1800261





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TRU PROJECT NO. 1800261



UUT8

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: Dell 3620 Serial Number: 7X5CGK2

Product Construction Summary:

Carbon steel and plastic skin.

Options/Subcomponent Summary:

Custom mounting bracket made by Konica Minolta, see next page.

UUT Properties

Weight Dimension (in)			USTIFU	Lowest Natural Frequency (Hz)						
(lb)	Depth	Width			Side-Side	Vertical				
16.5	17.12	6.88	14.17	>33.3	19.85	>33.33				
				7/						

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
	DATE: 04/0	8/22501	9 0.0	1:5/				

Test Mounting Details:

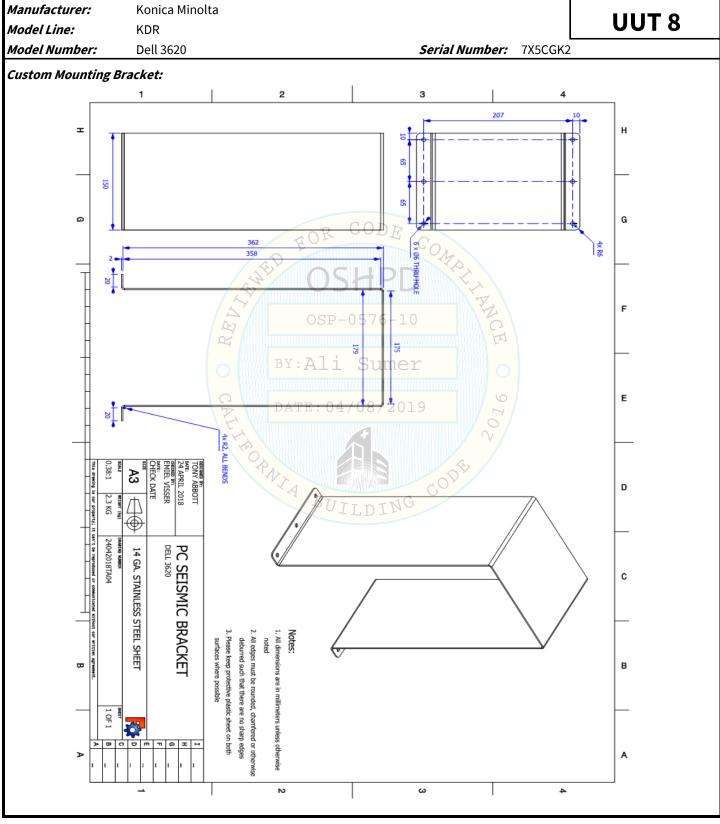




UUT 8 was base mounted – rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket.







TRU PROJECT NO. 1800261



UUT 9

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: UPS BE600M1 Serial Number: 4B17P50P06778

Product Construction Summary:

Carbon steel and plastic skin.

Options/Subcomponent Summary:

Custom mounting bracket made by Konica Minolta, see next page.

			UUT Properties	10					
Weight Dimension (in)					Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	Height	Front	t-Back	Side	-Side	Ver	tical
10.5	4.13	10.79 5.47		26.78		38.02		28.07	
		UUT Highest P	assed Seismic Rui	Informa	ation				
Buildi	ng Code	Test Criteria	$\mathbf{s}_{DS}(g)^{\perp}$	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
СВС	2016	ICC-ES AC15	2.0	1.0	1.5	3.2	2.4	1.67	0.67

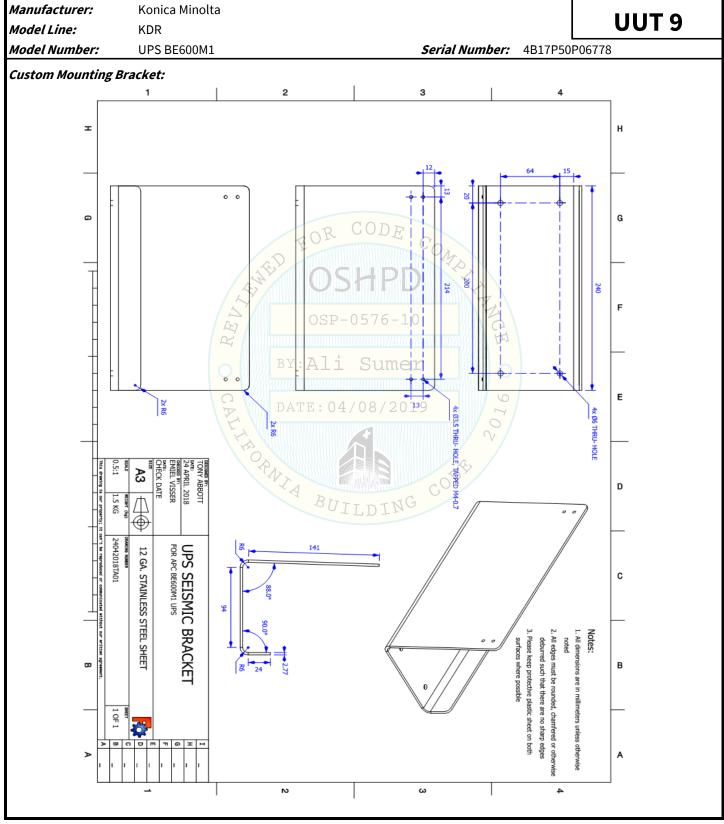
Test Mounting Details:





UUT 9 was base mounted – rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket. Four M4-0.7 x 6mm Class 10.9 button head screws were used to secure UUT 9 to the bracket.





TRU PROJECT NO. 1800261



UUT 10

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: Dell Keyboard Serial Number: KB126T

Product Construction Summary:

Plastic

Options/Subcomponent Summary:

UUT Properties

Weight		Dimension (in)	USTIPU	Lowest Natural Frequency (Hz)					
(lb)	Depth	h Width Height		Front-Back	Side-Side	Vertical			
1	5	17.4	0.8	>33.33	>33.3	>33.3			

UUT Highest Passed Seismic Run Information

Building Code	Te	st 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 2016	lcc	C ES AC1EG	2.0	1.0	1.5	2.7	2.4	1 67	0.67
	ICC-ES AC156		8/22501	9 0.0	1:5/	3.2	2.4	1.67	0.67

Test Mounting Details:



UUT 10 was mounted to the shake table with two 1" x 3.75" strips of 3M Dual Lock Reclosable Fastener (P/N TB3550). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU PROJECT NO. 1800261



UUT 11

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: A6517-05 Serial Number: GN-78070

Product Construction Summary:

Sedecal Mini console for use for Sedecal High Voltage Generators, plastic and carbon steel.

Options/Subcomponent Summary:

UUT Properties

	COTFIOPERIES											
Weight		Dimension (in)	USTIFU	Lowest Natural Frequency (Hz)								
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical						
2	5.12	5.82	1.81	N/A C	N/A	N/A						

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	l _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
	DATE: 04/0	8/22501	9 0.0	1:5/				

Test Mounting Details:



UUT 11 was wall mounted – rigid to the wall fixture with four #14 x 1-1/2" self-tapping screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU PROJECT NO. 1800261



UUT 12

17.18

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: IF Box-KDR Interface Unit Serial Number: A9KY-00277

Product Construction Summary:

Carbon steel and plastic skin.

Options/Subcomponent Summary:

Custom mounting bracket made by Konica Minolta, see next page.

Depth

18.3

Dimension (in)

Width

7.5

UUT Properties			
UDITE	Lowest	Natural Frequen	cy (Hz)
Height	Front-Back	Side-Side	Vertical
750-11776-11			

UUT Highest Passed Seismic Run Information

	8		- 11.7.7	VIZ/A/7.1				
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016		2.0	1.0	1.5	2.7	2.4	1 67	0.67
	ICC-ES AC156	8/22501	9 0.0	1:5	3.2	2.4	1.67	0.67

Test Mounting Details:

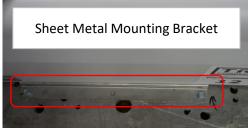
Weight (lb)

30



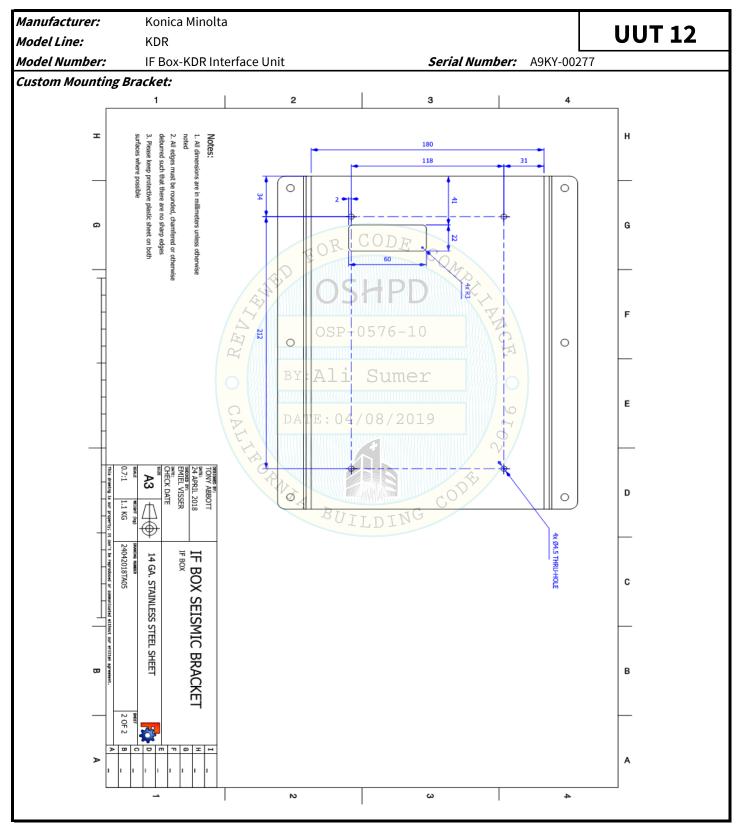


21.93



UUT 12 was base mounted - rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket. Four M4-0.7 x 6mm Class 10.9 button head screws were used to secure UUT 12 to the bracket.





TRU PROJECT NO. 1800261



UUT 13

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: elo Monitor - E396119 Serial Number: H173025601

Product Construction Summary:

Enclosure black plastic, touch screen with PCAP

Options/Subcomponent Summary:

Custom mounting bracket made by Konica Minolta.

UUT Propertie.

			out Properties					
Weight		Dimension (in)	UDITE	Lowest Natural Frequency (Hz)				
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical		
15.5	7.61	13.87	19.22	12.10	16.58	17.28		
15.5	7.61	13.87	19.22	12.10	16.58	17.28		

UUT Highest Passed Seismic Run Information

		_	LUD	VVVIA				
Building Code	Test Criteria	S _{DS} (g)	z/h	l _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	O ICC ES AC1EG	2.0	1.0	1.5	2.2	2.4	1 67	0.67
	ICC-ES AC156	8/2301	9 0.0	1:5/	3.2	2.4	1.67	0.67

Test Mounting Details:



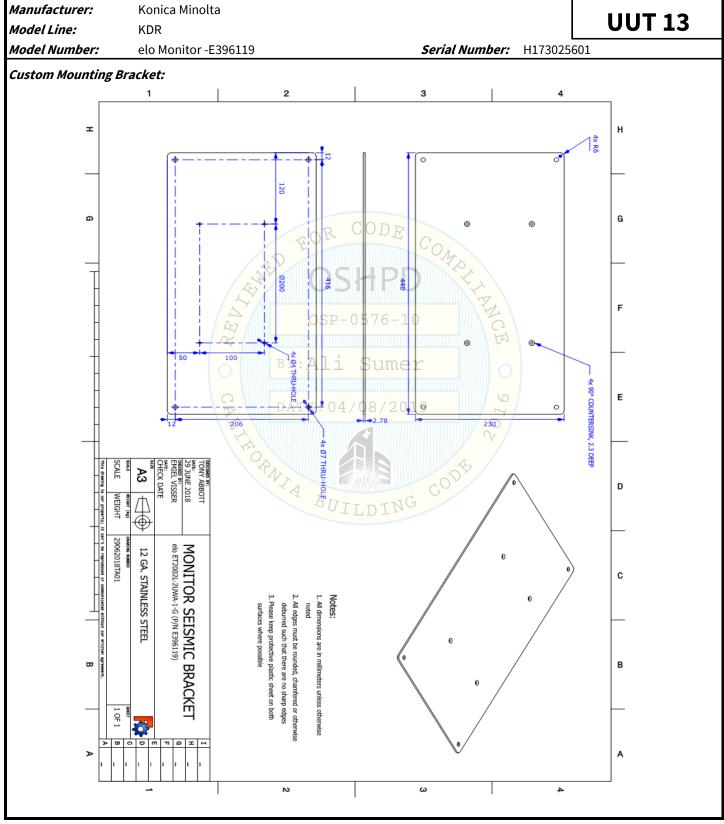


UUT 13 was base mounted - rigid to the table with a custom stainless-steel sheet metal mounting bracket and four #14 x 1-1/2" self-tapping screws. Mounting holes were located at the four corners of the bracket. Four M4-0.7 x 6mm Class 10.9 button head screws were used to secure UUT 13 to the bracket.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

¹Dimensions include monitor stand.





TRU PROJECT NO. 1800261



UUT 14

Manufacturer: Konica Minolta

Model Line: KDR

Model Number: CPI Console Serial Number: n/a

Product Construction Summary:

CPI mini console for use with CPI high voltage generators.

Options/Subcomponent Summary:

UUT Properties

	COTFICERIUS											
Weight		Dimension (in)	USTIFU	Lowest Natural Frequency (Hz)								
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical						
1.5	7	F7 4	3.7	>33.33	>33.33	>33.33						

UUT Highest Passed Seismic Run Information

			LL L	V (/ (/ (/ A / A				
Building Code	Test Criteria	S _{DS} (g)	z/h	l _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	O ICC ES AC1EG	2.0	1.0	1.5	2.2	2.4	1 67	0.67
	ICC-ES AC156	8/23501	9 0.0	1:5/	3.2	2.4	1.67	0.67

Test Mounting Details:





The console bracket base of UUT 14 was mounted to the shake table with two 1" x 4" strips of 3M Dual Lock Reclosable Fastener (P/N TB3550). The mini console of UUT 14 was attached to the bracket with one 1" x 3" strip of 3M Dual Lock Reclosable Fastener. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.