



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0155 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Eaton Corporation

Manufacturer's Technical Representative: Virginia (Ginny) Snyder

Mailing Address: 8609 Six Forks Road, Raleigh, NC 27615

Telephone: (919) 870-3482

Email: VirginiaASnyder@eaton.com

Product Information

Product Name: 9130,9PX, and 9SX Uninterruptible Power Supplies and Accessories

Product Type: Uninterruptible Power Supplies

Product Model Number: See Attachment

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

General Description: Uninterruptible power supplies and accessories per UL 1778 and qualified for use in
Emergency systems per UL 924. Power rating from 0.7-3kVA (9130), 5-8kVA (9P), 0.7-3kVA (9S) and voltage range
from 120-240VAC.

Mounting Description: Rigid base mounted

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Galen Reid

Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

Telephone: 844-878-0200

Email: greid@structint.com

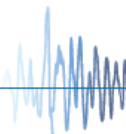
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: _____

Date: 5/10/2019

Title: Program Manager

Company Name: TRU Compliance, by Structural Integrity Associates, Inc.





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

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

Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Name: Derrick Watkins California License Number: S5257

Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

Telephone: 844-878-0200 Email: dwatkins@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: ICC-ES AC156

Other (Please Specify): _____

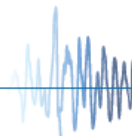
Testing Laboratory

Company Name: UL LLC

Contact Name: Chris Rose, Senior Test Engineer

Mailing Address: 12 Laboratory Drive, RTP, NC 27709

Telephone: 919-549-1713 Email: Christopher.S.Rose@ul.com





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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) = 1.44 ($S_{DS} = 2.00$); 1.44 ($S_{DS} = 3.20$)

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

Ω_0 (System overstrength factor) = 2

I_p (Importance factor) = 1.5

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

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, 2015: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Product Matrices

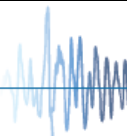
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature:  Date: 10/24/2019

Print Name: Timothy J. Pfland Title: SSE

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

Condition of Approval (if applicable): _____



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation						TABLE 1	
Model Line: 9130/9PX/9SX							
Certified Product Construction Summary: Powder coated carbon steel NEMA 1 enclosure.							
Certified Options Summary:							
Mounting Configuration: Base mounted - rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2016		Seismic Certification Limits:			$S_{DS} = 2.0 g \quad z/h = 1.0$		$I_p = 1.5$
					$S_{DS} = 3.2 g \quad z/h = 0.0$		
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
9130 North American Tower	PW9130L700T	14.0	6.3	9.9	25.5		1
	PW9130L1000T-XL	15.0	6.3	9.9	31.8		2
	PW9130L1500T-XL	17.0	6.3	9.9	39.2		3
	PW9130L2000T-XL	16.1	8.4	12.8	76.1		Interp.
	PW9130L3000T-XL	16.1	8.4	12.8	81.0		18
9130 Global Tower	PW9130G2000T-XL	16.1	8.4	12.8	76.1		Interp.
	PW9130G2000T-XLEU	16.1	8.4	12.8	76.1		Interp.
	PW9130G3000T-XL	16.1	8.4	12.8	76.1		Interp.
	PW9130G3000T-XLEU	16.1	8.4	12.8	76.1		19
9PX 208/230/240V	9PX3000GLRT	23.8	3.4	17.3	63.5	UUT 27: Standalone	26, 27
	9PX5K	28.4	5.1	17.3	105.0		Interp.
	9PX6K	28.4	5.1	17.3	105.0		17
	9PX8K	32.0	10.2	17.3	193.2		4
	9PX11K	32.0	10.2	17.3	193.2	Identical to 9PX8K	Extrap.
9PX Extended Battery Modules	9PXEBM36RT	17.7	3.4	17.3	48.1		Extrap.
	9PXEBM48RT	17.7	3.4	17.3	59.1		Extrap.
	9PXEBM72RT	23.8	3.4	17.3	88.6		26
	9PXEBM180RT	25.4	5.1	17.3	146.0		20
9SX 120V	9SX700	13.9	6.3	9.9	26.3		21
	9SX1000	15.1	6.3	9.9	30.9		Interp.
	9SX1500	17.1	6.3	9.9	41.9		Interp.
	9SX2000	16.2	8.4	13.6	76.1		22
	9SX3000	16.2	8.4	13.6	77.2		Interp.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation						TABLE 1	
Model Line: 9130/9PX/9SX							
Certified Product Construction Summary: Powder coated carbon steel NEMA 1 enclosure.							
Certified Options Summary:							
Mounting Configuration: Base mounted - rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2016		Seismic Certification Limits:		$S_{DS}= 2.0 g \quad z/h=1.0$ $S_{DS}= 3.2 g \quad z/h=0.0$	
						$I_p= 1.5$	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
9SX 208V	9SX1000G	15.1	6.3	9.9	33.0		23
	9SX1500G	17.1	6.3	9.9	41.1		24
	9SX2000G	16.2	8.4	13.6	75.3		Interp.
	9SX3000G	16.2	8.4	13.6	75.3	C13 and C19 Outlet Receptacle	25
	9SX3000GL	16.2	8.4	13.6	75.3	L6-Outlet Receptacles	Extrap.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1900087



Manufacturer: Eaton Corporation				TABLE 2	
Model Line: 9130/9PX/9SX					
Building Code: CBC 2016		Seismic Certification Limits:		$S_{DS} = 2.0 g \quad z/h = 1.0$	
				$S_{DS} = 3.2 g \quad z/h = 0.0$	
				$I_P = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Battery	B&B Battery	HR5.5-12	Lead acid, 12V, 5Ah, UL1989		17,20
	CSB	HR1234WF2	Lead acid, 12V, 9Ah, UL1989		1-4,18,19
	Leoch	DJW12-9.0	Lead acid, 12V, 9Ah, UL1989		21-27
Bypass Switch	Eaton Corporation	MBP11K208	208VAC, rear-mount maintenance bypass		4
Battery Enclosure	Eaton Corporation	9PXEBM240RT	240V, carbon steel, supports lead acid		4
Network Card	Eaton Corporation	Network-M2	PCB		25,27

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:		Eaton Corporation				
Model Line:		9130/9PX/9SX				
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
1	PW9130L700T-XL	R10964174	UL LLC	2.0 3.2	1.0 0.0	1.5
2	PW9130L1000T-XL	R10964174	UL LLC	2.0 3.2	1.0 0.0	1.5
3	PW9130L1500T-XL	R10964174	UL LLC	2.0 3.2	1.0 0.0	1.5
4	9PX8K Kit	R10964174	UL LLC	2.0 3.2	1.0 0.0	1.5
17	9PX6K	71152R13	Wyle Laboratories	3.2	1.0	1.5
18	PW9130L3000T-XL	71152R13	Wyle Laboratories	3.2	1.0	1.5
19	PW9130G3000T-XLEU	71152R13	Wyle Laboratories	3.2	1.0	1.5
20	9PXEBM180RT	71152R13	Wyle Laboratories	3.2	1.0	1.5
21	9SX700	R12717216 (UUT 1)	UL LLC	2.0 3.2	1.0 0.0	1.5
22	9SX2000	R12717216 (UUT 2)	UL LLC	2.0 3.2	1.0 0.0	1.5
23	9SX1000G	R12717216 (UUT 3)	UL LLC	2.0 3.2	1.0 0.0	1.5
24	9SX1500G	R12717216 (UUT 4)	UL LLC	2.0 3.2	1.0 0.0	1.5
25	9SX3000G w/ Network - M2	R12717216 (UUT 5 and UUT 9)	UL LLC	2.0 3.2	1.0 0.0	1.5
26	9PX3000GLRT & 9PXEBM72RT	R12717216 (UUT 6 and UUT 8)	UL LLC	2.0 3.2	1.0 0.0	1.5
27	9PX3000GLRT w/ Network - M2	R12717216 (UUT 7 and 10)	UL LLC	2.0 3.2	1.0 0.0	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 1
Model Line: 9130	
Model Number: PW9130L700T-XL Serial Number: GJ163A0303	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, CSB HR1234WF2 batteries.

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
25.5	14.0	6.3	9.9	>33.3	>33.3	>33.3

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



UUT 1

Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 2
Model Line: 9130	
Model Number: PW9130L1000T-XL	
Serial Number: GJ195A0077	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, CSB HR1234WF2 batteries.

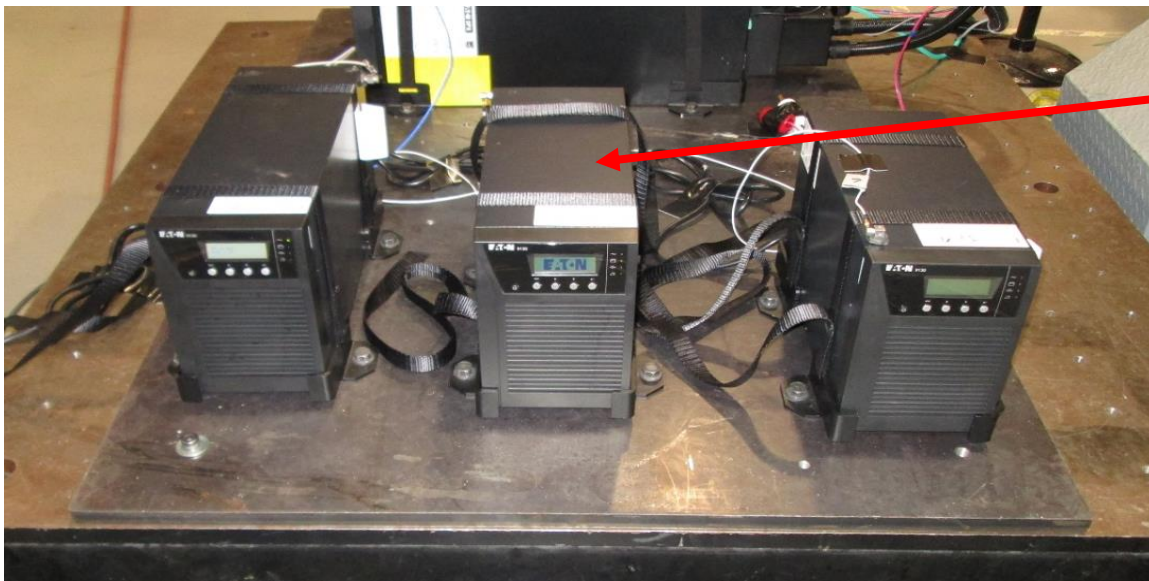
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
31.8	15.0	6.3	9.9	>33.3	>33.3	>33.3

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



UUT 2

Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 3
Model Line: 9130	
Model Number: PW9130L1500T-XL Serial Number: GJ142A0171	

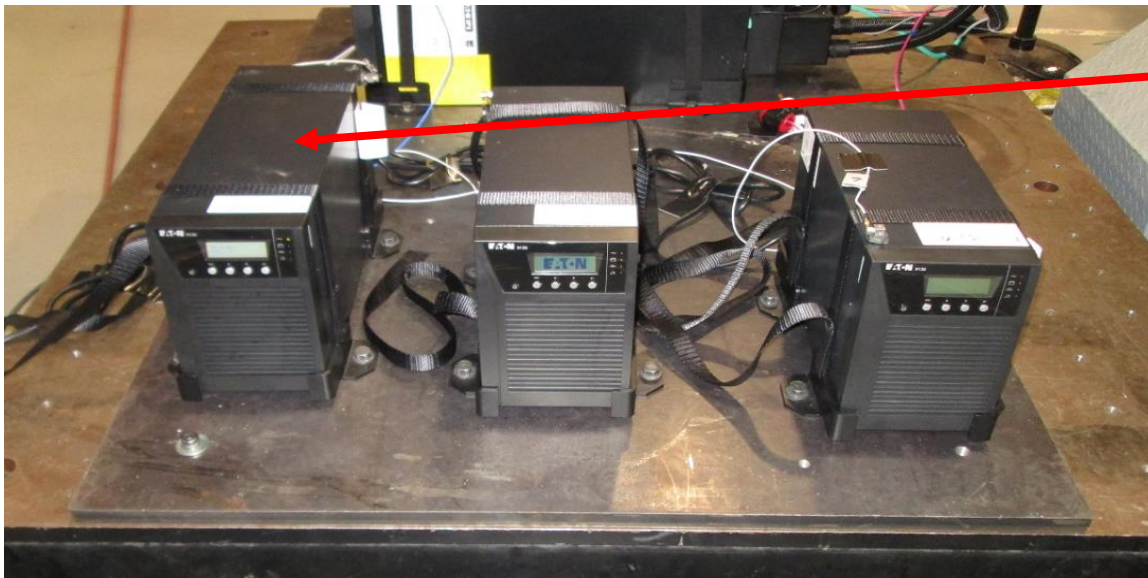
Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, CSB HR1234WF2 batteries.

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
39.2	17.0	6.3	9.9	>33.3	>33.3	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Test Mounting Details:



UUT 3

Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 4
Model Line: 9PX	
Model Number: 9PX8K Serial Number: G219F26048KIT	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Eaton 9PXEBM240RT extended battery module, Eaton MBP11K208 rear-mount maintenance bypass, CSB HR1234FW2 batteries.

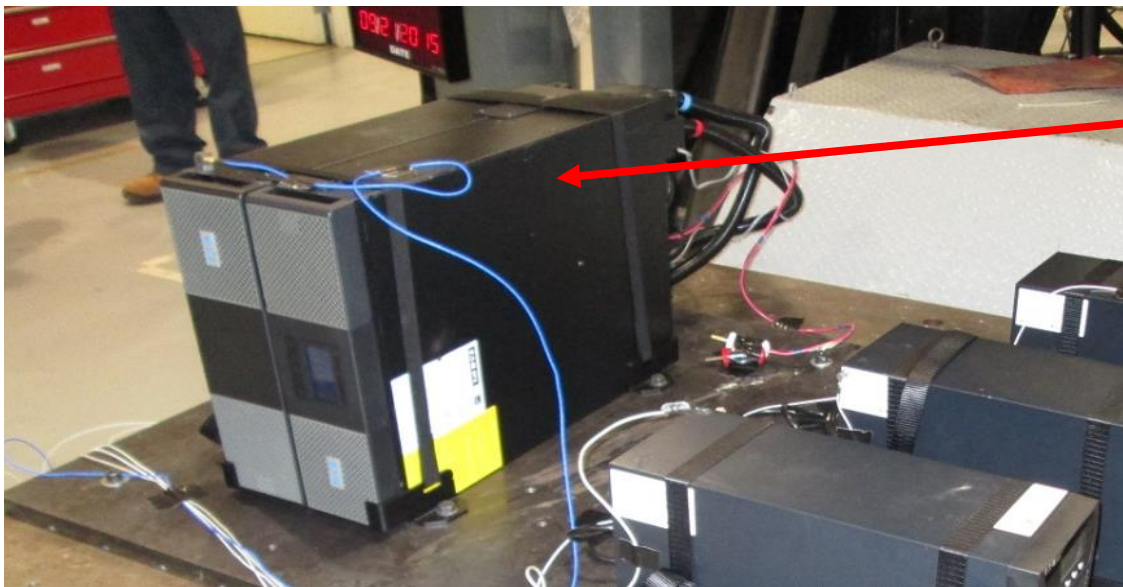
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
193.2	32.0	10.2	17.3	>33.3	16.53	>33.3

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



UUT 4

Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 17
Model Line: 9130/9PX	
Model Number: 9PX6K Serial Number: G205D26018	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA Seismic mounting kit, B&B HR5.5-12 battery.

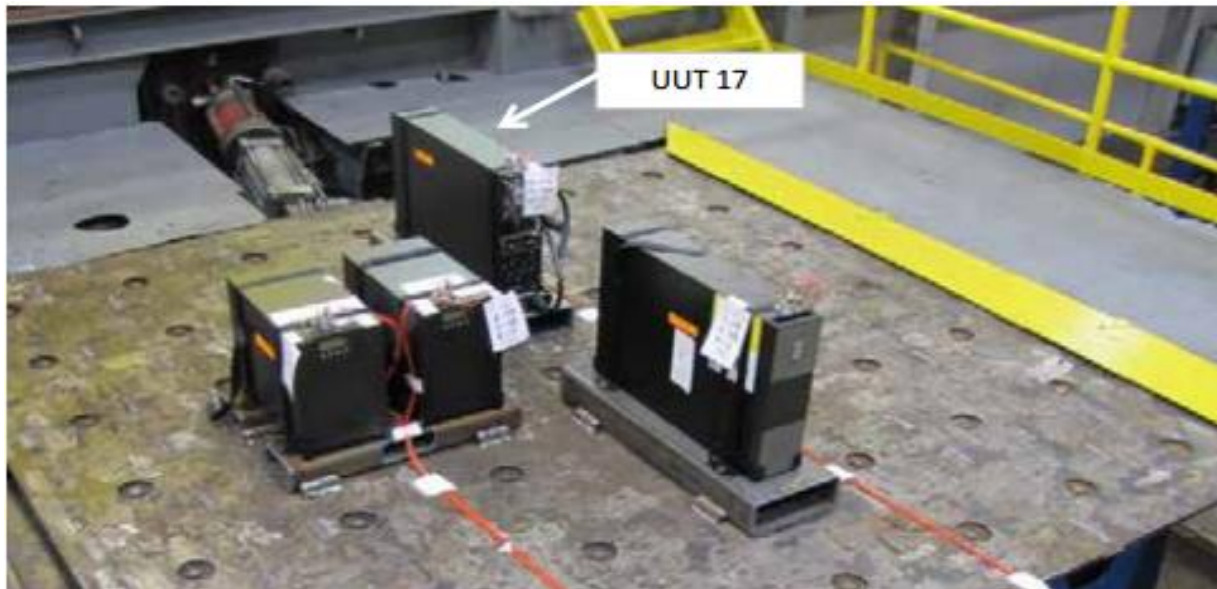
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
105	28.4	5.1	17.3	>33.3	11.0	>33.3

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	ICC-ES AC156 (2015)	3.2	1.0	1.5	5.12	3.84	2.14	0.86

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 18
Model Line: 9130/9PX	
Model Number: PW9130L3000T-XL Serial Number: GE211A0398	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA Seismic mounting kit, CSB HR1234WF2 battery.

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
81.0	16.1	8.4	12.8	>33.3	>33.3	>33.3

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	ICC-ES AC156 (2015)	3.2	1.0	1.5	5.12	3.84	2.14	0.86

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 19
Model Line: 9130/9PX	
Model Number: PW9130G3000T-XLEU Serial Number: N/A	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, CSB HR1234WF2 battery.

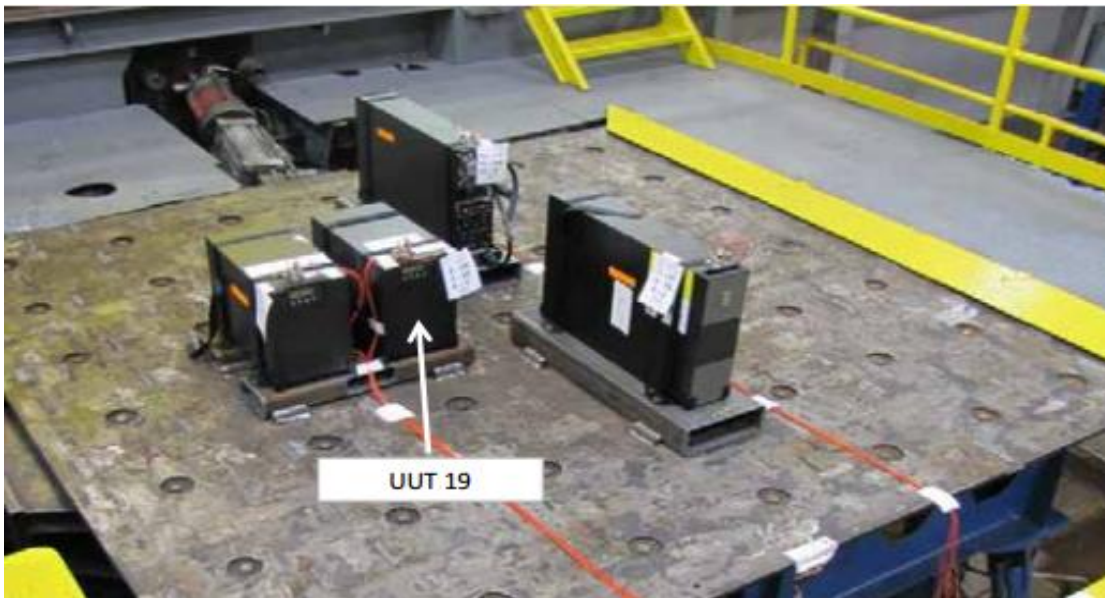
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
76.1	16.1	8.4	12.8	>33.3	>33.3	>33.3

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	ICC-ES AC156 (2015)	3.2	1.0	1.5	5.12	3.84	2.14	0.86

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 20
Model Line: 9130/9PX	
Model Number: 9PXEBM180RT Serial Number: G216D24023	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, B&B HR5.5-12 battery.

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
146.0	25.4	5.1	17.3	>33.3	10.0	>33.3

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	ICC-ES AC156 (2015)	3.2	1.0	1.5	5.12	3.84	2.14	0.86

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 21
Model Line: 9SX	
Model Number: 9SX700	
Serial Number: PC21J38557	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Input 5-15P, Output (6) 5-15R

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
26.3	13.9	6.3	9.9	>33.3	>33.3	>33.3

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 22
Model Line: 9SX	
Model Number: 9SX2000	
Serial Number: PC24J37235	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Input L5-20P, Output (6) 5-20R, (1) L5-20R

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
76.1	16.2	8.4	13.6	>33.3	>33.3	>33.3

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 23
Model Line: 9SX	
Model Number: 9SX1000G Serial Number: PC27J36110	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Input C14, Output (6) 5-15R

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
33	15.1	6.3	9.9	>33.3	>33.3	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 24
Model Line: 9SX	
Model Number: 9SX1500G	
Serial Number: PC28J34057	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Input C14, Output (8) C13

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
41.1	17.1	6.3	9.9	>33.3	>33.3	>33.3

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 25
Model Line: 9SX	
Model Number: 9SX3000G Serial Number: PC30J35024	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Network-M2, Input C20, Output (8) C13 and (1) C19

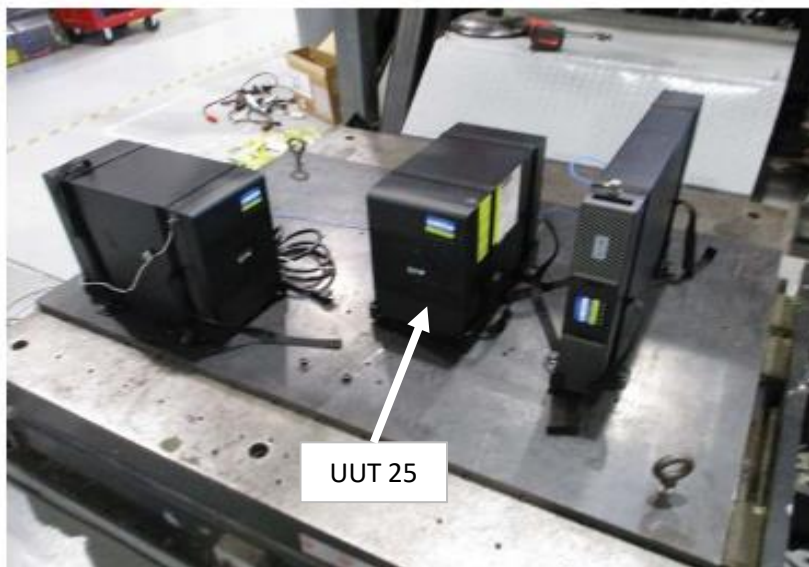
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
75.3	16.2	8.4	13.6	>33.3	>33.3	>33.3

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 26
Model Line: 9130/9PX	
Model Number: 9PX3000GLRT & 9PXEBM72RT	
Serial Number: GA25G49011 & GA32J39223	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure (ganged units)

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit

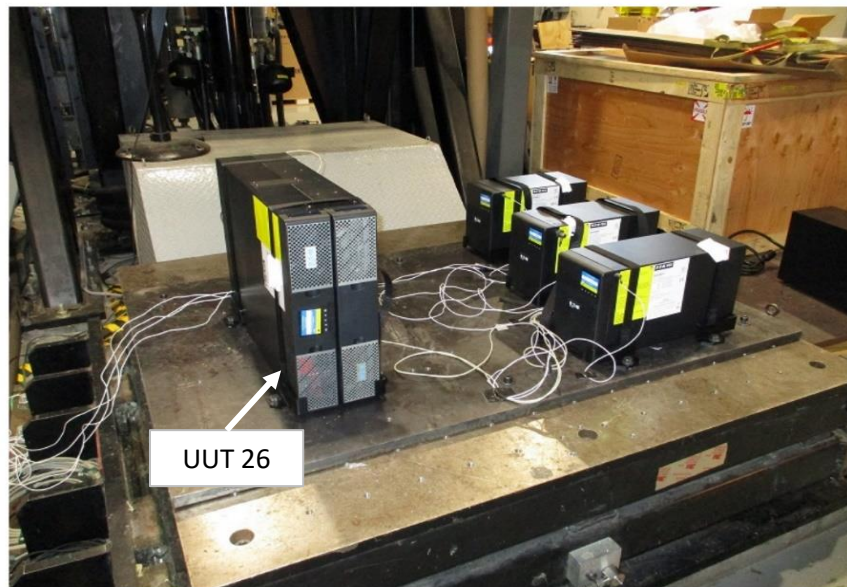
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
152.1	23.8	6.8	17.3	14.8	>33.3	28.85

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation	UUT 27
Model Line: 9130/9PX	
Model Number: 9PX3000GLRT	
Serial Number: GA25G12002	

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Network-M2

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
63.5	23.8	3.4	17.3	>33.3	17.0	>33.3

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	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.