



**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](mailto:VirginiaASnyder@eaton.com)

**Product Information**

Product Name: 9130 and 9P Uninterruptible Power Supplies & Accessories

Product Type: Uninterruptible Power Supplies

Product Model Number: See Attachment A

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

General Description: Uninterruptible power supplies and accessories per UL 1778 and also qualified for use in

Emergency systems per UL 924. Power ratings from 0.7-3kVA (9130), 5-8kVA (9P) and voltage range from 120-240VAC.

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 Dr., 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, 2013.

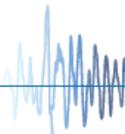
Signature of Applicant: 

Date: 11/30/2015

Title: President & CEO

Company Name: TRU Compliance, LLC

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





**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, 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): \_\_\_\_\_

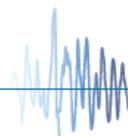
**Testing Laboratory**

Company Name: UL, LLC

Contact Name: Michelle Henderson

Mailing Address: 12 Laboratory Park, Research Triangle Park, NC 27709

Telephone: (919) 549-1471 Email: [michelle.t.henderson@ul.com](mailto:michelle.t.henderson@ul.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 ( $S_{DS} = 2.00g$ ;  $z/h = 1.0$ ); 1.44 ( $S_{DS} = 3.20g$ ;  $z/h = 0.0$ )

$S_{DS}$  (Design spectral response acceleration at short period, g) = 2.00g ( $z/h = 1.0$ ); 3.20g ( $z/h = 0.0$ )

$a_p$  (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) = 1.0 ( $S_{DS} = 2.00g$ ); 0.0 ( $S_{DS} = 3.20g$ )

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 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, 2010:  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**

Signature:  Date: December 14, 2015

Print Name: Timothy J. Piland 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. 15035



<b>Manufacturer:</b> Eaton Corporation						<b>TABLE 1</b>	
<b>Model Line:</b> 9130/9PX							
<b>Certified Product Construction Summary:</b> Powder coated carbon steel NEMA 1 enclosure.							
<b>Certified Options Summary:</b>							
<b>Mounting Configuration:</b> Rigid base mounted with Eaton Seismic mounting kit. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
<b>Building Code: CBC 2013</b>			<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0$ $z/h = 1.0$	$I_p = 1.5$	
					$S_{DS} = 3.2$ $z/h = 0.0$		
Model Line	Model	Dimension (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		
	PW9130L3000T-XL	16.1	8.4	12.8	81.0		18
9130 Global Tower	PW9130G2000T-XL	16.1	8.4	12.8	76.1		
	PW9130G2000T-XLEU	16.1	8.4	12.8	76.1		
	PW9130G3000T-XL	16.1	8.4	12.8	76.1		
	PW9130G3000T-XLEU	16.1	8.4	12.8	76.1		19
9PX	9PX5K	28.4	5.1	17.3	105.0		
	9PX6K	28.4	5.1	17.3	105.0		17
	9PX8K	30.0	10.2	17.3	193.2		4
	9PX11K	30.0	10.2	17.3	205.0	Identical to 9PX8K	
	9PXEBM180RT	25.5	5.1	17.3	146.0		20



# UNIT UNDER TEST (UUT) TESTING SUMMARY SHEET

TRU PROJECT NO. 15035



<b>Manufacturer:</b> Eaton Corporation						
<b>Model Line:</b> 9130/9PX						
UUT	Unit Description	Report Number	Testing Laboratory	S <sub>DS</sub>	z/h	I <sub>p</sub>
1	PW9130L700T-XL	R10964174	UL	2.0	1.0	1.5
2	PW9130L1000T-XL	R10964174	UL	2.0	1.0	1.5
3	PW9130L1500T-XL	R10964174	UL	2.0	1.0	1.5
4	9PX8K Kit	R10964174	UL	2.0	1.0	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
<b>Notes:</b>						

# UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 15035

<b>Manufacturer:</b> Eaton Corporation	<b>UUT 1</b>
<b>Model Line:</b> 9130	
<b>Model Number:</b> PW9130L700T-XL <b>Serial Number:</b> GJ163A0303	

**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				
25.5	14.0	6.3	9.9	>33.3	>33.3	>33.3				
<i>UUT Highest Passed Seismic Run Information</i>										
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 2013		ICC-ES AC156		2.0	1.0	1.5	3.20	2.40	1.33	0.53
				3.2	0.0	1.5	3.20	1.28	2.13	0.85

**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.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 15035

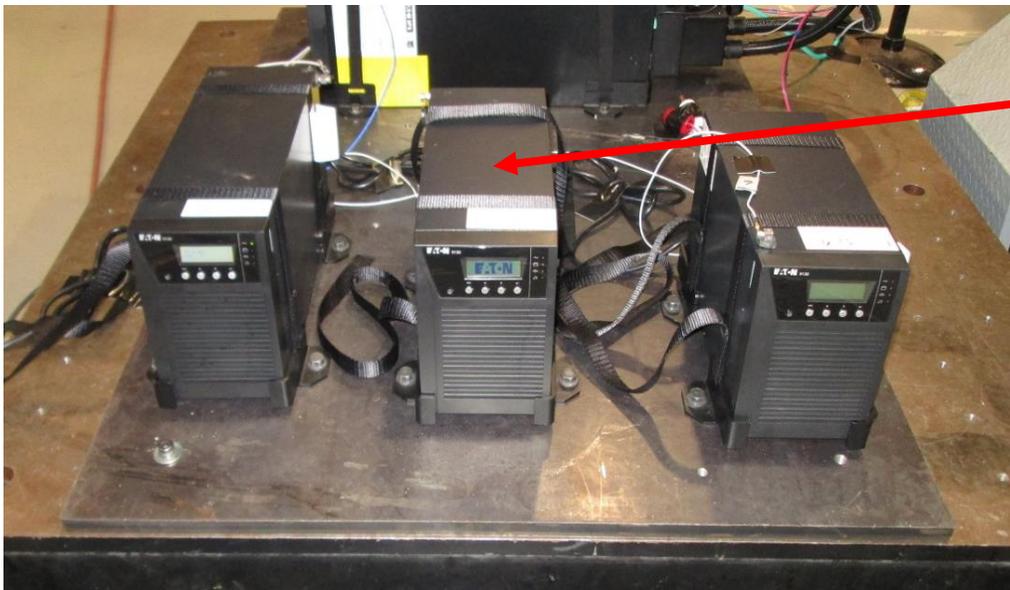
<b>Manufacturer:</b> Eaton Corporation	<b>UUT 2</b>
<b>Model Line:</b> 9130	
<b>Model Number:</b> PW9130L1000T-XL	
<b>Serial Number:</b> GJ195A0077	

**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				
31.8	15.0	6.3	9.9	>33.3	>33.3	>33.3				
<i>UUT Highest Passed Seismic Run Information</i>										
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 2013		ICC-ES AC156		2.0	1.0	1.5	3.20	2.40	1.33	0.53
				3.2	0.0	1.5	3.20	1.28	2.13	0.85

**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.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 15035

<b>Manufacturer:</b> Eaton Corporation	<b>UUT 3</b>
<b>Model Line:</b> 9130	
<b>Model Number:</b> PW9130L1500T-XL	
<b>Serial Number:</b> 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 <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 2013		ICC-ES AC156		2.0	1.0	1.5	3.20	2.40	1.33	0.53
				3.2	0.0	1.5	3.20	1.28	2.13	0.85

**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.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 15035

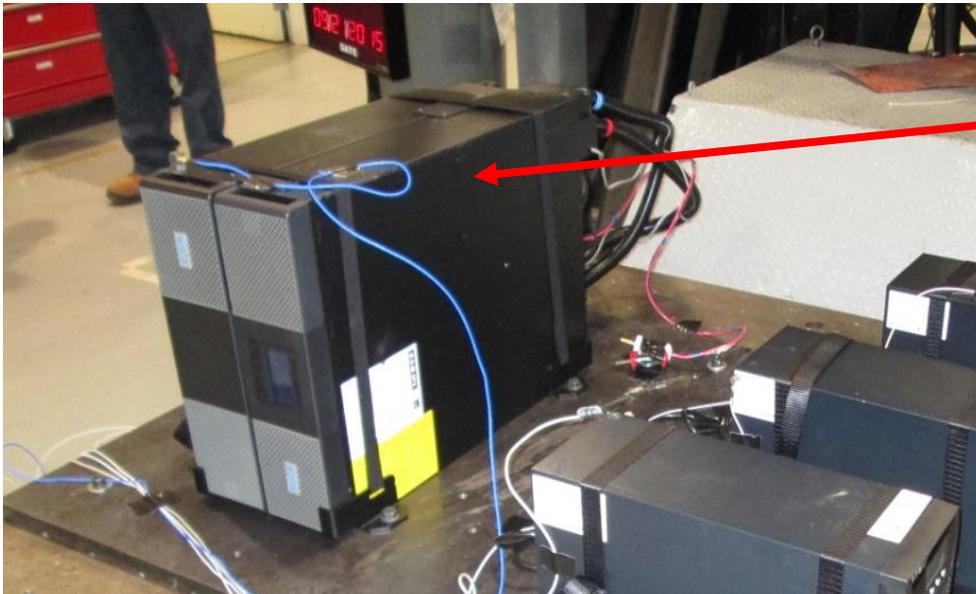
<b>Manufacturer:</b> Eaton Corporation	<b>UUT 4</b>
<b>Model Line:</b> 9PX	
<b>Model Number:</b> 9PX8K <span style="float: right;"><b>Serial Number:</b> G219F26048KIT</span>	

**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.

<i>UUT Properties</i>										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
193.2	32.0	10.3	17.4	>33.3	16.53	>33.3				
<i>UUT Highest Passed Seismic Run Information</i>										
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 2013		ICC-ES AC156		2.0	1.0	1.5	3.20	2.40	1.33	0.53
				3.2	0.0	1.5	3.20	1.28	2.13	0.85

**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.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 15035

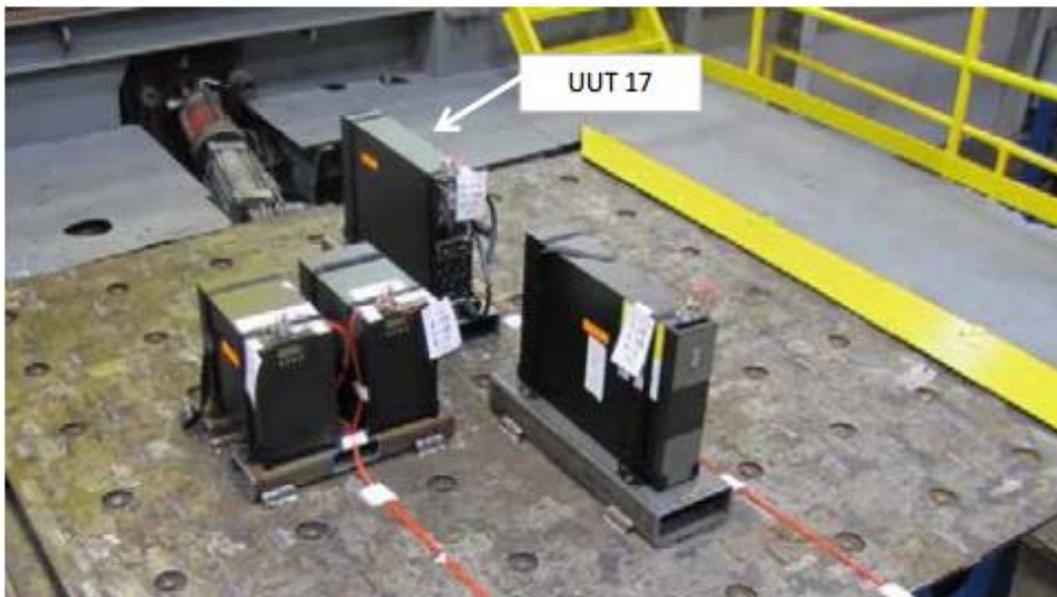
<b>Manufacturer:</b> Eaton Corporation	<b>UUT 17</b>
<b>Model Line:</b> 9130/9PX	
<b>Model Number:</b> 9PX6K	
<b>Serial Number:</b> G205D26018	

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

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

<i>UUT Properties</i>									
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			
<i>UUT Highest Passed Seismic Run Information</i>									
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 2013	ICC-ES AC156	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.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 15035



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

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

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

<i>UUT Properties</i>										
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				
<i>UUT Highest Passed Seismic Run Information</i>										
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 2013		ICC-ES AC156		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.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 15035



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

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

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

<i>UUT Properties</i>									
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			
<i>UUT Highest Passed Seismic Run Information</i>									
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 2013	ICC-ES AC156	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.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 15035

<b>Manufacturer:</b> Eaton Corporation	<b>UUT 20</b>
<b>Model Line:</b> 9130/9PX	
<b>Model Number:</b> 9PXEBM180RT <b>Serial Number:</b> 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.

<i>UUT Properties</i>										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
150.0	25.4	5.1	17.3	>33.3	10.0	>33.3				
<i>UUT Highest Passed Seismic Run Information</i>										
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 2013		ICC-ES AC156		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.  
Contents were included in testing per operating conditions.