This report and the information contained herein represent the results of testing articles/products identified and selected by the client. The tests were performed to specifications and/or procedures approved by the client. National Technical Systems (“NTS”) makes no representations expressed or implied that such testing fully demonstrates efficiency, performance, reliability, or any other characteristic of the articles being tested, or similar products. This report should not be relied upon as an endorsement or certification by NTS of the equipment tested, nor does it represent any statement whatsoever as to its merchantability or fitness of the test article or similar products for a particular purpose. This document shall not be reproduced except in full without written approval from National Technical Systems (“NTS”).
CLIENT INFORMATION

Company Name: Eaton Corporation
Company Contact: Rohit Arora
Address: 160 Gold Star Blvd.
City, State, Zip: Worcester, MA 01606
Purchase Order Number: 4172-3020906 & 417203023883
Purchase Order Date: October 23, 2012
Test Item Description: Data Center Enclosure
Test Item Part Number: N/A
Test Item Serial Number: N/A
Test Specification: GR-63-CORE I3

NTS CONTRACT INFORMATION

NTS Project (PR) Number: PR017449
NTS Quotation Number: OP0119687
Quotation Revision: 0
Quotation Date: August 10, 2012

REFERENCES


<table>
<thead>
<tr>
<th>Rev. No.</th>
<th>Date</th>
<th>Page No.</th>
<th>Para. No.</th>
<th>Description</th>
</tr>
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<tbody>
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<td>11/7/12</td>
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<td>Original</td>
</tr>
</tbody>
</table>

Prepared by: Elizabeth Furtado, Technical Writer

Approved by: Adam Bashore, Project Engineer

Reviewed by: Michael McCouch, Quality Representative
This report summarizes testing performed in accordance with the relevant contractual documentation listed on the Job Information Page. This document presents a clear overview of the test program and deviations. It is the responsibility of the NTS client to evaluate pass/fail criteria on test unit's functionality.

Deviations in testing range from out of tolerance conditions, unit failure, changes in test profiles or other instances that are not within the scope of the test specification would be detailed in this report as Notices of Deviations.

Test Profile Pages provide a detailed description of test levels and test results. Typically each test shall have its own Test Profile Page.

The Test Equipment List summarizes the equipment used for all testing. This list also contains calibration due dates. If a more detailed list is required containing range, accuracy etc., please contact your Program Manager at NTS.

The test sequence below summarizes the order in which testing was performed. Please refer to the product description on the Test Profile Page and/or Receiver Page.

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Description</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sine Vibration</td>
<td>10/23/12</td>
<td>10/23/12</td>
</tr>
<tr>
<td>2</td>
<td>Seismic</td>
<td>10/23/12</td>
<td>10/24/12</td>
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<td>20</td>
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</table>

COMMENTS:
## Test Profile Checked

**Test Name:** Sine Vibration  
**Specification:** GR-63-CORE I3  
**Spec. Date:** Mar-06  
**Para. / Method:** Zone 4

### Frequency Range (Hz)  
<table>
<thead>
<tr>
<th>g's</th>
<th>in/sec</th>
<th>disp. p-p (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-50</td>
<td>.2</td>
<td></td>
</tr>
</tbody>
</table>

### Sweep Rate  
1 oct/min

### Control Accel. Location  
Base Of UUT

### Response Accel. 1 Location  
Top

### Response Accel. 2 Location  
Middle

### Response Accel. 3 Location  
N/A

### Test Setup and Results

| Test Started: | 10/23/2012 | Test Completed: | 10/23/2012 |

### Unit Under Test Information

<table>
<thead>
<tr>
<th>Tested in shipping container:</th>
<th>Y</th>
<th>N</th>
<th>N/A</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Operating during test:</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Operated by Client:</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powered during testing:</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passes post-test functionals:</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical damage noted:</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does unit(s) pass requirements:</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comments:
The UUT was tested to the above profile in all three axes prior to running the earthquake test to note the primary resonant frequency.

Vertical Axis: None  
Side-Side Axis: 5.5Hz  
Front-Back Axis: 15Hz

### Test Technician:  
Kenneth Lesage
### Earthquake Environment and Criteria

**Customer Name:** Eaton Corporation  
**Test Name:** Earthquake Environment / Earthquake Resistance  
**Specification:** GR-63-CORE, Issue 3 / ETSI EN 300 019-2-3  
**Section:** 4.4.1 through 4.4.3 / 4

<table>
<thead>
<tr>
<th>Zones 1 &amp; 2</th>
<th>Zone 3</th>
<th>Zone 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency (Hz)</td>
<td>G's</td>
<td>Frequency (Hz)</td>
</tr>
<tr>
<td>0.3</td>
<td>0.2</td>
<td>0.3</td>
</tr>
<tr>
<td>0.6-5</td>
<td>2</td>
<td>0.6</td>
</tr>
<tr>
<td>15-50</td>
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<td>2-5</td>
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<td>15-50</td>
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</table>

#### Configuration Guidelines for Shelf-Level Testing

<table>
<thead>
<tr>
<th>Zone</th>
<th>Shelf Mass (kg)</th>
<th>Shelf Location for Testing</th>
<th>Overhead Cable Mass for Testing (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>m &lt; 12</td>
<td>Top of rack*</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>23 ≤ m &lt; 68</td>
<td>Top of rack*</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>68 ≤ m &lt; 181</td>
<td>Center of rack</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>m ≥ 181</td>
<td>Lowest Position or Highest Recommended by Manufacturer</td>
<td>0</td>
</tr>
</tbody>
</table>

* Populate rack from the top down. If multiple test samples are fitted, test severity is sufficient in the upper 20% of the rack mounting height to provide adequate testing.

#### Unit Under Test Information

<table>
<thead>
<tr>
<th>Shelf Level</th>
<th>Y</th>
<th>N</th>
<th>N/A</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>UUT Weight:</td>
<td>1800 lbs</td>
<td>X</td>
<td></td>
<td>Mounted in the Top position</td>
</tr>
<tr>
<td>Rack mounted via four 1/2&quot; bolts:</td>
<td>X</td>
<td></td>
<td></td>
<td>No Torque due to design of UUT with one load ring</td>
</tr>
<tr>
<td>50 lb weight added to top of rack:</td>
<td>X</td>
<td></td>
<td></td>
<td>Simulates cable weight</td>
</tr>
<tr>
<td>Dummy load mounted below UUT:</td>
<td>X</td>
<td></td>
<td></td>
<td>Simulates a loaded rack</td>
</tr>
<tr>
<td>DVD Video recorded:</td>
<td>X</td>
<td></td>
<td></td>
<td>Not given to client.</td>
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<tr>
<td>Operating during test:</td>
<td>X</td>
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<tr>
<td>Verteq II Drive wave being used</td>
<td>X</td>
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<tr>
<td>Operated by Client:</td>
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<tr>
<td>Passes posttest functionals:</td>
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<tr>
<td>Physical damage noted:</td>
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<tr>
<td>Does unit(s) pass requirement R4-68?</td>
<td>X</td>
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<tr>
<td>Does unit(s) pass requirement R4-69?</td>
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<td>Does unit(s) pass requirement R4-70?</td>
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<tr>
<td>Does unit(s) pass objective O4-71?</td>
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<tr>
<td>Does unit(s) pass requirement R4-72?</td>
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<td>Does unit(s) pass objective O4-73?</td>
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<tr>
<td>Does unit(s) pass objective O4-74?</td>
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<tr>
<td>Does unit(s) pass objective O4-75?</td>
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<tr>
<td>Does unit(s) pass objective O4-76?</td>
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<tr>
<td>Does unit(s) pass objective O4-77?</td>
<td>X</td>
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<td>Steel Plate Used</td>
</tr>
<tr>
<td>Does unit(s) pass objective O4-78?</td>
<td>X</td>
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<td>Steel Plate Used</td>
</tr>
<tr>
<td>Does unit(s) pass objective O4-79?</td>
<td>X</td>
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<td></td>
<td>Steel Plate Used</td>
</tr>
<tr>
<td>Does unit(s) pass requirement R4-80?</td>
<td>X</td>
<td></td>
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</tbody>
</table>

#### Test Profile Checked

| Steel Plate Used | X |     |     | |
| Does unit(s) pass requirement R4-81? | X |     |     | |
| Does unit(s) pass requirement R4-82? | X |     |     | |
| Does unit(s) pass requirement R4-83? | X |     |     | |
| Does unit(s) pass requirement R4-84? | X |     |     | |
| Test Profile Checked | X |     |     | |

**Comments:**  
The UUT was tested to the Zone 4 profile in all three axes with no physical failures to note.

**Test Technician:** Ken Lesage
This equipment is calibrated according to ISO/IEC 17025:2005(E) and calibration is traceable to the National Institute of Standards and Technology (NIST). Calibration records are maintained on file at National Technical Systems.

<table>
<thead>
<tr>
<th>Inv. #</th>
<th>Description</th>
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<th>List Date</th>
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<tbody>
<tr>
<td>WC000594</td>
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<td>5/29/13</td>
<td>10/23/2012</td>
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<td>WC000609</td>
<td>Accelerometer</td>
<td>5/29/13</td>
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<td>WC000703</td>
<td>Accelerometer</td>
<td>5/11/13</td>
<td>10/23/2012</td>
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<tr>
<td>WC001811</td>
<td>Load Ring</td>
<td>1/3/13</td>
<td>10/23/2012</td>
<td>Seismice</td>
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<tr>
<td>WC000490</td>
<td>Controller</td>
<td>8/3/13</td>
<td>10/23/2012</td>
<td>Seismice</td>
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<tr>
<td>WC001621</td>
<td>LVDT</td>
<td>6/26/13</td>
<td>10/23/2012</td>
<td>Seismice</td>
</tr>
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</table>

CAL = Calibrated  FIO = For Indication Only  NCR = No Calibration Required  NPCR = No Periodic Calibration Required
50 lbs Top Weight Added

Load Ring

Top Response

Middle Response

Side-Side Axis

Front-Back Axis
Vertical Axis

UUT

UUT weight distribution top portion in lbs

UUT weight distribution bottom portion in lbs

UUT weight
<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY.</th>
<th>P/N</th>
<th>S/N</th>
<th>Description</th>
<th>Ready for Test</th>
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<td>N/A</td>
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<td>Data Center Enclosure</td>
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</tbody>
</table>
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:45
Start Time: Sep 27, 2012 14:21:31

Control
Eaton MJOPR017449
Server Rack Model
Test# 1 Side-Side Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:45
Start Time: Sep 27, 2012 14:21:31

Top Rack
Eaton MJOPR017449
Server Rack Model
Test# 1 Side-Side Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min

Elapsed Time: 0:05:45
Start Time: Sep 27, 2012 14:21:31

Acceleration Profile

Mid Rack

Eaton MJOPR017449
Server Rack Model
Test# 1 Side-Side Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:45
Start Time: Sep 27, 2012 14:21:31

Transmissibility (reference = Control)

Top Rack/Control
Eaton MJOPR017449
Server Rack Model
Test# 1 Side-Side Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min

Elapsed Time: 0:05:45
Start Time: Sep 27, 2012 14:21:31

Transmissibility (reference = Control)

Frequency (Hz)
Ratio (G/G)

Mid Rack/Control
Eaton MJOPR017449
Server Rack Model
Test# 1 Side-Side Sine Survey
SRS Response, 2% Damping

Frequency (Hz)

Acceleration (G)

Top Rack Demand

Eaton PR017449
Server Rack
Test# 2 Side-Side GR-63-Core Zone 4 Earthquake
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Test# 2 Side-Side GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 2 Side-Side GR-63-Core Zone 4 Earthquake
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min

Elapsed Time: 0:05:39

Acceleration Profile

Eaton PR017449
Server Rack
Test# 1 Vertical Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Eaton PR017449
Server Rack
Test# 1 Vertical Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Transmissibility (reference = Control)

Frequency (Hz)

Ratio (G/G)

Top Rack/Control

Eaton PR017449
Server Rack
Test# 1 Vertical Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Transmissibility (reference = Control)

Eaton PR017449
Server Rack
Test# 1 Vertical Sine Survey
SRS Response, 2% Damping

Eaton PR017449
Server Rack
Test# 2 Axis Vertical GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 2 Axis Vertical GR-63-Core Zone 4 Earthquake
SRS Response, 2% Damping

Frequency (Hz) vs. Acceleration (G)

Eaton PR017449
Server Rack
Test# 2 Axis Vertical GR-63-Core Zone 4 Earthquake
Modifier: 100 %
Pulse Type: SRS

ZPA: 2.043 G

Eaton PR017449
Server Rack
Test# 2 Axis Vertical GR-63-Core Zone 4 Earthquake
Modifier: 100%  
Pulse Type: SRS  
ZPA: 2.077 G  

Eaton PR017449  
Server Rack  
Test# 2 Axis Vertical GR-63-Core Zone 4 Earthquake
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Control

Frequency (Hz)

Acceleration Profile

Acceleration (G peak)

Eaton PR017449
Server Rack
Test# 3 Side-Side Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Acceleration Profile

Eaton PR017449
Server Rack
Test# 3 Side-Side Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Eaton PR017449
Server Rack
Test# 3 Side-Side Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Transmissibility (reference = Control)

Top Rack/Control

Frequency (Hz)

Ratio (G/G)

Eaton PR017449
Server Rack
Test# 3 Side-Side Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Eaton PR017449
Server Rack
Test# 3 Side-Side Sine Survey
Eaton PR017449
Server Rack
Test# 4 Side-Side GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 4 Side-Side GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 4 Side-Side GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 4 Side-Side GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 4 Side-Side GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 4 Side-Side GR-63-Core Zone 4 Earthquake
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Acceleration Profile

Frequency (Hz)

Acceleration (G peak)

Control

1

0.01

0.10

1.00

10.00

50

Eaton PR017449
Server Rack
Test# 5 Front-Back Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Eaton PR017449
Server Rack
Test# 5 Front-Back Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Acceleration Profile

Mid Rack

Eaton PR017449
Server Rack
Test# 5 Front-Back Sine Survey
Sweep Number: 1 sweeps
Sweep Type: Sweep between 1 Hz and 50 Hz at 1 Oct/min
Elapsed Time: 0:05:39

Eaton PR017449
Server Rack
Test# 5 Front-Back Sine Survey
Modifier: 100 %
Pulse Type: SRS
ZPA: 2.336 G

SRS Response, 2% Damping

Eaton PR017449
Server Rack
Test# 6 Front-Back GR-63-Core Zone 4 Earthquake
Modifier: 100 %
Pulse Type: SRS

ZPA: -3.347 G


SRS Response, 2% Damping

Eaton PR017449
Server Rack
Test# 6 Front-Back GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 6 Front-Back GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 6 Front-Back GR-63-Core Zone 4 Earthquake
Modifier: 100 %
Pulse Type: SRS

ZPA: -3.347 G

Eaton PR017449
Server Rack
Test# 6 Front-Back GR-63-Core Zone 4 Earthquake
Moderator: 100 %
Pulse Type: SRS

ZPA: 2.527 G

Eaton PR017449
Server Rack
Test# 6 Front-Back GR-63-Core Zone 4 Earthquake
Eaton PR017449
Server Rack
Test# 6 Front-Back GR-63-Core Zone 4 Earthquake
Modifier: 100 %
Pulse Type: SRS

ZPA:

Eaton PR017449
Server Rack
Test# 6 Front-Back GR-63-Core Zone 4 Earthquake