# DataView®
## Data Analysis & Reporting Software

# Sample Reports

The DataView® Professional software included with the PowerPad™ automatically generates reports from the stored data. These reports can be displayed on your PC and printed. Each report includes all test results in both tabular and graphic format, as well as operator and test site information. Comments typed by the operator will also be included.

DataView allows you to display waveforms, trend graphs, harmonic spectrums, text summaries, transients and stored alarms. You can zoom in and out and pan through sections of the graph to analyze the data and customize views, templates and reports to your exact needs.

This document includes two sample reports generated from data that was recorded with the PowerPad. You may jump to any page in the reports by clicking on the links below.
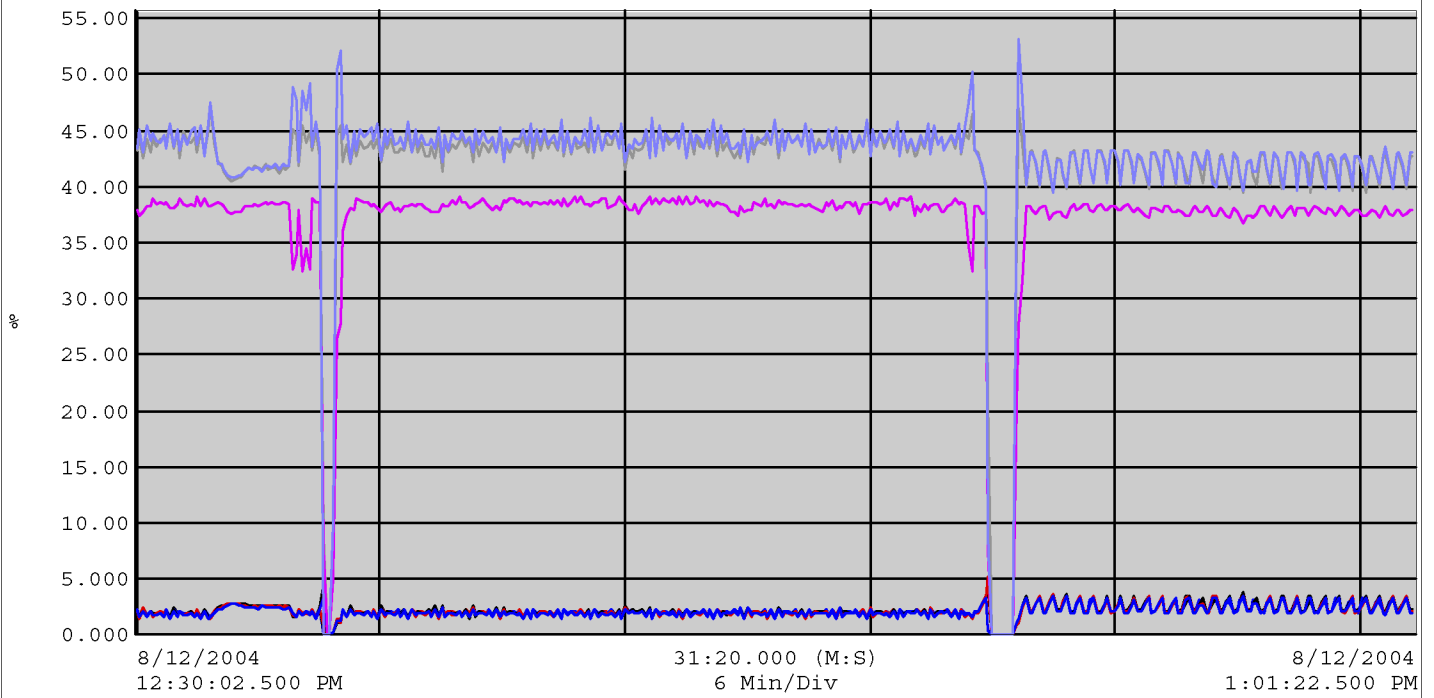
**AEMC® INSTRUMENTS**
CHAUVIN ARNOUX GROUP

# Trend Report

Recording Start Date    8/12/2004 - 12:30:02 PM
Recording Duration      31:20 (m:s)
Instrument ID           Model: 3945 - 1 1 201178

Channel Name: Hz



| | 8/12/2004 | 31:20.000 (M:S) | 8/12/2004 |
| --- | --- | --- | --- |
| | 12:30:02.500 PM | 6 Min/Div | 1:01:22.500 PM |

| Name | Avg | Min | Max | Samples |
| --- | --- | --- | --- | --- |
| Hz | 58.18 | 0.000 | 60.02 | 377 |
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8/12/2004 - 12:37:52.000 PM
    Val
     59.99 —— Hz

```
Channel Name: Vrms Line1
VoltageRatio: 1.000
```



| Name | Date | Time | Avg | Min | Max | Units |
|------|------|------|-----|-----|-----|-------|
| Vrms Line1 | 8/12/2004 | 12:30:02.500 PM | 113.0 | 0.000 | 117.1 | V |
| Vrms Line2 | 8/12/2004 | 12:30:02.500 PM | 111.9 | 0.000 | 116.1 | V |
| Vrms Line3 | 8/12/2004 | 12:30:02.500 PM | 112.1 | 0.000 | 116.1 | V |

```
8/12/2004 - 12:30:02.000 PM
    Val
    116.2 ──── Vrms Line1
    115.2 ──── Vrms Line2
    115.4 ──── Vrms Line3
```

Channel Name: Arms Line2
CurrentRatio: 1.000



50.00 —
45.00 —
40.00 —
35.00 —
30.00 —
25.00 —
A
20.00 —
15.00 —
10.00 —
5.000 —
0.000 —

8/12/2004
12:30:02.500 PM

31:20.000 (M:S)
6 Min/Div

8/12/2004
1:01:22.500 PM

| Name | Date | Time | Avg | Min | Max | Units |
|------|------|------|-----|-----|-----|-------|
| Arms Line1 | 8/12/2004 | 12:30:02.500 PM | 31.52 | 0.000 | 50.40 | A |
| Arms Line2 | 8/12/2004 | 12:30:02.500 PM | 31.91 | 0.000 | 50.00 | A |
| Arms Line3 | 8/12/2004 | 12:30:02.500 PM | 29.99 | 0.000 | 48.60 | A |
| Arms Neutral | 8/12/2004 | 12:30:02.500 PM | 2.929 | 0.000 | 4.300 | A |

8/12/2004 - 12:57:22.000 PM
Val
29.80 —— Arms Line1
30.40 —— Arms Line2
28.30 —— Arms Line3
3.000 —— Arms Neutral

## Channel Name: Uthd Line1



| | 8/12/2004<br>12:30:02.500 PM | | 31:20.000 (M:S)<br>6 Min/Div | | | 8/12/2004<br>1:01:22.500 PM |
|---|---|---|---|---|---|---|

| Name | Date | Time | Avg | Min | Max | Units |
|---|---|---|---|---|---|---|
| Uthd Line1 | 8/12/2004 | 12:30:02.500 PM | 2.169 | 0.000 | 4.400 | % |
| Uthd Line2 | 8/12/2004 | 12:30:02.500 PM | 2.138 | 0.000 | 3.600 | % |
| Uthd Line3 | 8/12/2004 | 12:30:02.500 PM | 2.090 | 0.000 | 3.500 | % |
| Vthd Line1 | 8/12/2004 | 12:30:02.500 PM | 2.065 | 0.000 | 4.200 | % |
| Vthd Line2 | 8/12/2004 | 12:30:02.500 PM | 2.028 | 0.000 | 5.100 | % |
| Vthd Line3 | 8/12/2004 | 12:30:02.500 PM | 2.001 | 0.000 | 3.500 | % |
| Athd Line1 | 8/12/2004 | 12:30:02.500 PM | 41.67 | 0.000 | 47.50 | % |
| Athd Line2 | 8/12/2004 | 12:30:02.500 PM | 36.72 | 0.000 | 39.10 | % |
| Athd Line3 | 8/12/2004 | 12:30:02.500 PM | 42.03 | 0.000 | 53.00 | % |

```
8/12/2004 - 12:30:02.000 PM
   Val
   2.300 ━━ Uthd Line1
   2.300 ━━ Uthd Line2
   2.300 ━━ Uthd Line3
   2.100 ━━ Vthd Line1
   2.100 ━━ Vthd Line2
   2.100 ━━ Vthd Line3
  43.20 ━━ Athd Line1
  37.90 ━━ Athd Line2
  43.40 ━━ Athd Line3
```
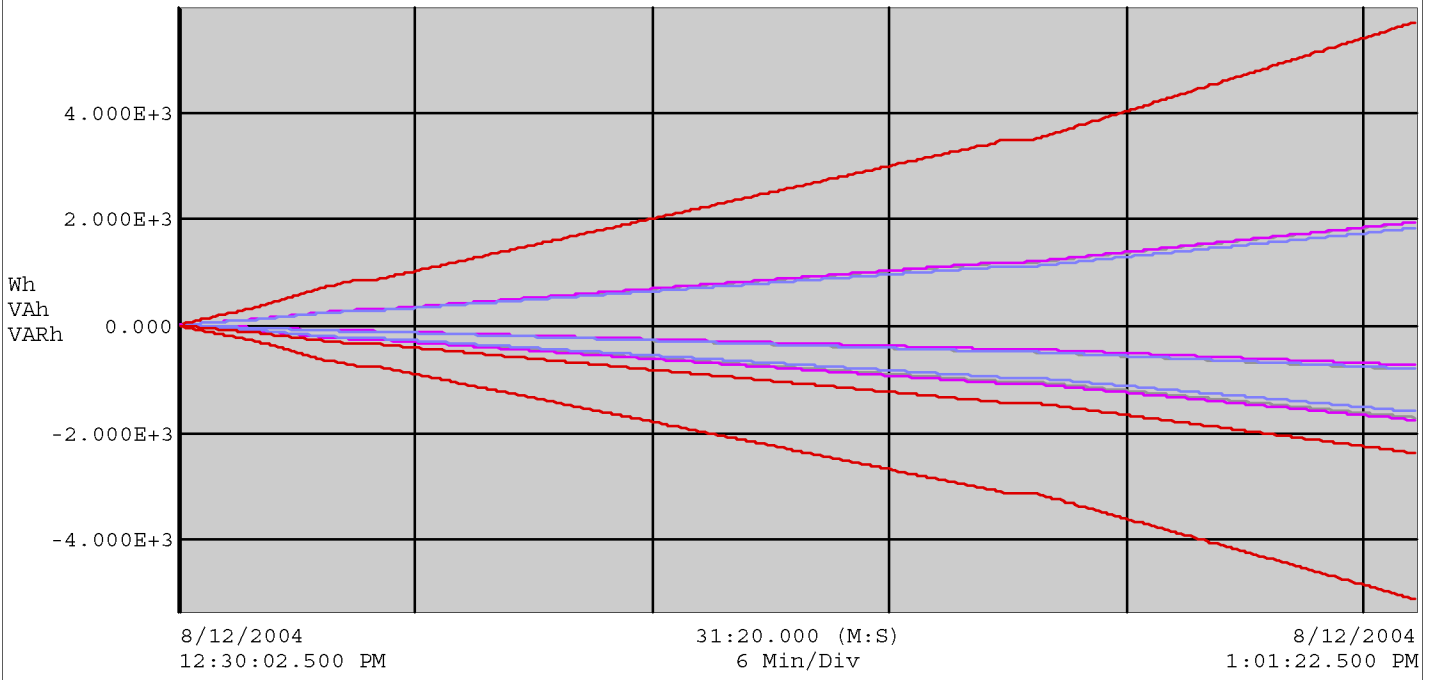
Channel Name: Vunb



| Name | Date | Time | Avg | Min | Max | Units |
|------|------|------|-----|-----|-----|-------|
| Vunb | 8/12/2004 | 12:30:02.500 PM | 0.585 | 0.000 | 5.500 | % |
| AUnb | 8/12/2004 | 12:30:02.500 PM | 3.940 | 0.000 | 31.70 | % |

8/12/2004 - 12:30:02.000 PM
```
   Val
  0.500 —— Vunb
  3.100 —— AUnb
```
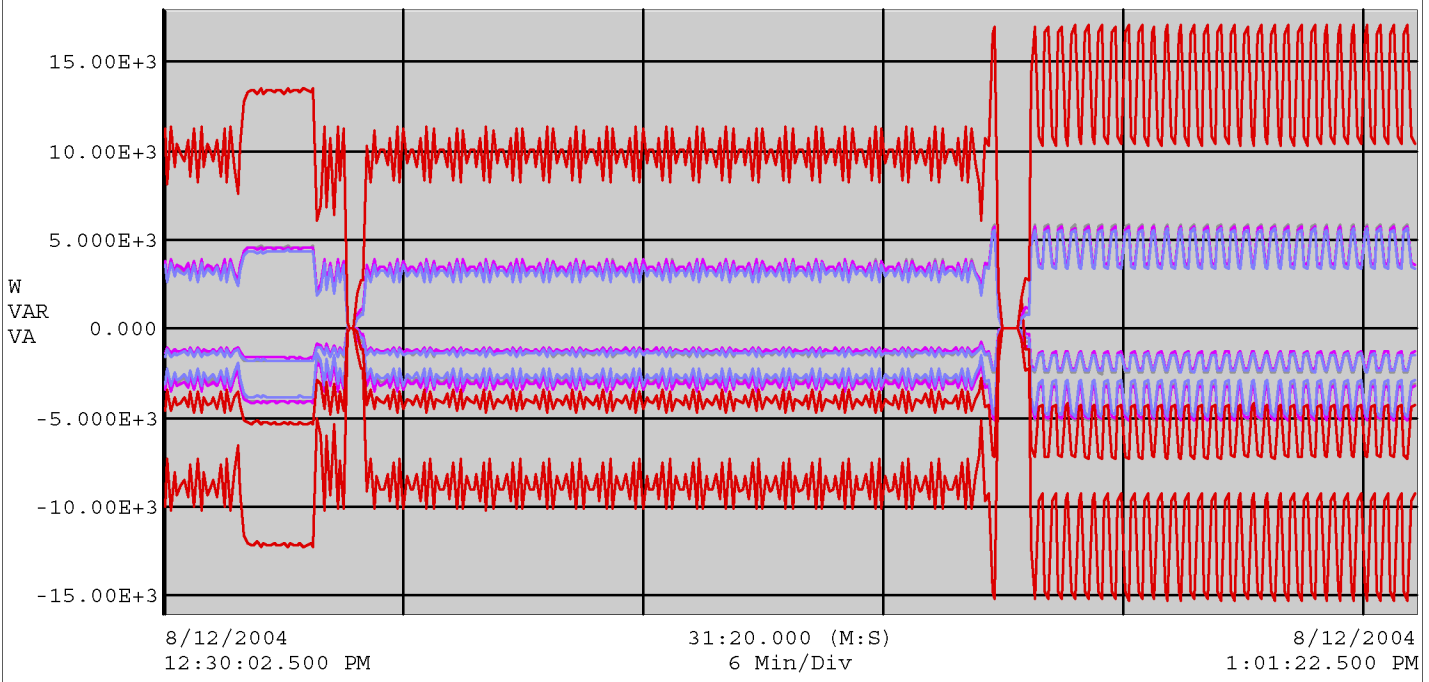
| Name | Date | Time | Avg | Min | Max | Units |
|---|---|---|---|---|---|---|
| W Line1 | 8/12/2004 | 12:30:02.500 PM | -3.302E+3 | -5.226E+3 | 0.000 | W |
| W Line2 | 8/12/2004 | 12:30:02.500 PM | -3.384E+3 | -5.196E+3 | 0.000 | W |
| W Line3 | 8/12/2004 | 12:30:02.500 PM | -3.082E+3 | -4.971E+3 | 0.000 | W |
| W Sum of Phases | 8/12/2004 | 12:30:02.500 PM | -9.769E+3 | -15.35E+3 | 0.000 | W |
| VAR Line1 | 8/12/2004 | 12:30:02.500 PM | -1.579E+3 | -2.563E+3 | 557.9 | VAR |
| VAR Line2 | 8/12/2004 | 12:30:02.500 PM | -1.424E+3 | -2.378E+3 | 499.0 | VAR |
| VAR Line3 | 8/12/2004 | 12:30:02.500 PM | -1.555E+3 | -2.461E+3 | 514.1 | VAR |
| VAR Sum of Phases | 8/12/2004 | 12:30:02.500 PM | -4.559E+3 | -7.339E+3 | 1.571E+3 | VAR |
| VA Line1 | 8/12/2004 | 12:30:02.500 PM | 3.667E+3 | 0.000 | 5.830E+3 | VA |
| VA Line2 | 8/12/2004 | 12:30:02.500 PM | 3.678E+3 | 0.000 | 5.726E+3 | VA |
| VA Line3 | 8/12/2004 | 12:30:02.500 PM | 3.461E+3 | 0.000 | 5.563E+3 | VA |
| VA Sum of Phases | 8/12/2004 | 12:30:02.500 PM | 10.81E+3 | 0.000 | 17.05E+3 | VA |

8/12/2004 - 12:30:02.000 PM
| Val | |
|---|---|
| -3.414E+3 | W Line1 |
| -3.499E+3 | W Line2 |
| -3.194E+3 | W Line3 |
| -10.11E+3 | W Sum of Phases |
| -1.643E+3 | VAR Line1 |
| -1.450E+3 | VAR Line2 |
| -1.613E+3 | VAR Line3 |
| -4.706E+3 | VAR Sum of Phases |
| 3.790E+3 | VA Line1 |
| 3.788E+3 | VA Line2 |
| 3.581E+3 | VA Line3 |
| 11.16E+3 | VA Sum of Phases |

```
Channel Name: W-hours Line1
VoltageRatio: 1.000
CurrentRatio: 1.000
```



```
Wh
VAh
VARh
```

|  | 8/12/2004 | 31:20.000 (M:S) | 8/12/2004 |
|---|---|---|---|
|  | 12:30:02.500 PM | 6 Min/Div | 1:01:22.500 PM |

| Name | Date | Time | Avg | Min | Max | Units |
|---|---|---|---|---|---|---|
| W-hours Line1 | 8/12/2004 | 12:30:02.500 PM | -812.3 | -1.729E+3 | -4.697 | Wh |
| W-hours Line2 | 8/12/2004 | 12:30:02.500 PM | -838.3 | -1.772E+3 | -4.815 | Wh |
| W-hours Line3 | 8/12/2004 | 12:30:02.500 PM | -754.7 | -1.614E+3 | -4.434 | Wh |
| W-hours Sum of Phases | 8/12/2004 | 12:30:02.500 PM | -2.405E+3 | -5.115E+3 | -13.89 | Wh |
| VA-hours Line1 | 8/12/2004 | 12:30:02.500 PM | 900.4 | 5.216 | 1.920E+3 | VAh |
| VA-hours Line2 | 8/12/2004 | 12:30:02.500 PM | 908.4 | 5.232 | 1.926E+3 | VAh |
| VA-hours Line3 | 8/12/2004 | 12:30:02.500 PM | 847.9 | 4.923 | 1.812E+3 | VAh |
| VA-hours Sum of Phases | 8/12/2004 | 12:30:02.500 PM | 2.657E+3 | 15.37 | 5.658E+3 | VAh |
| VAR-hours Line1 | 8/12/2004 | 12:30:02.500 PM | -385.8 | -826.7 | -2.271 | VARh |
| VAR-hours Line2 | 8/12/2004 | 12:30:02.500 PM | -347.2 | -745.8 | -2.003 | VARh |
| VAR-hours Line3 | 8/12/2004 | 12:30:02.500 PM | -382.5 | -814.4 | -2.237 | VARh |
| VAR-hours Sum of Phases | 8/12/2004 | 12:30:02.500 PM | -1.115E+3 | -2.387E+3 | -6.485 | VARh |
|  |  |  |  |  |  |  |
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```
8/12/2004 - 12:30:02.000 PM
   Val
  -4.697 —— W-hours Line1
  -4.815 —— W-hours Line2
  -4.434 —— W-hours Line3
 -13.89 —— W-hours Sum of Phases
   5.216 —— VA-hours Line1
   5.232 —— VA-hours Line2
   4.923 —— VA-hours Line3
  15.37 —— VA-hours Sum of Phases
  -2.271 —— VAR-hours Line1
  -2.003 —— VAR-hours Line2
  -2.237 —— VAR-hours Line3
  -6.485 —— VAR-hours Sum of Phases
```
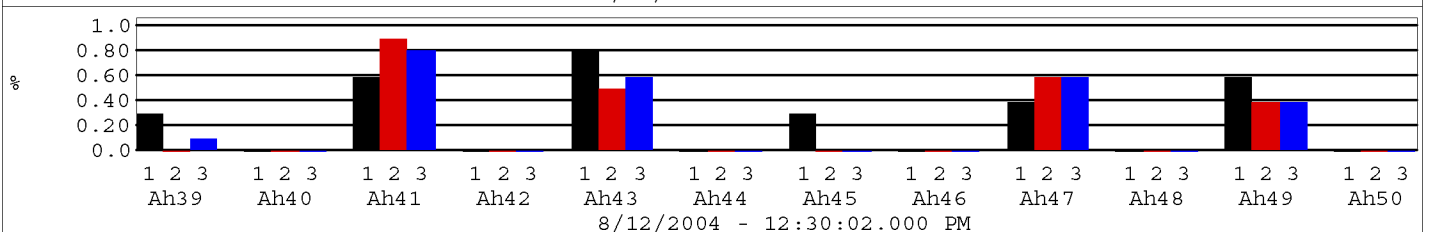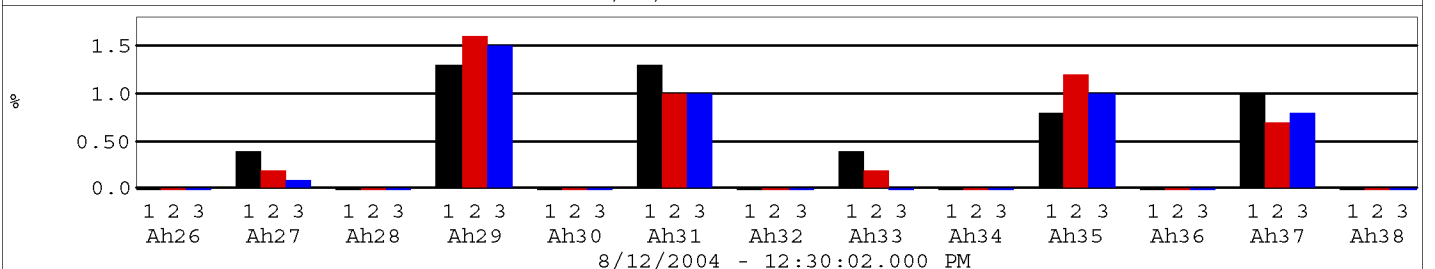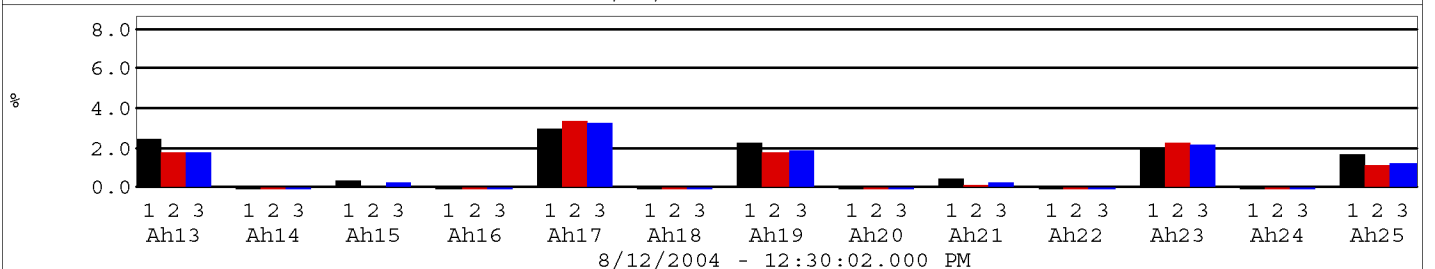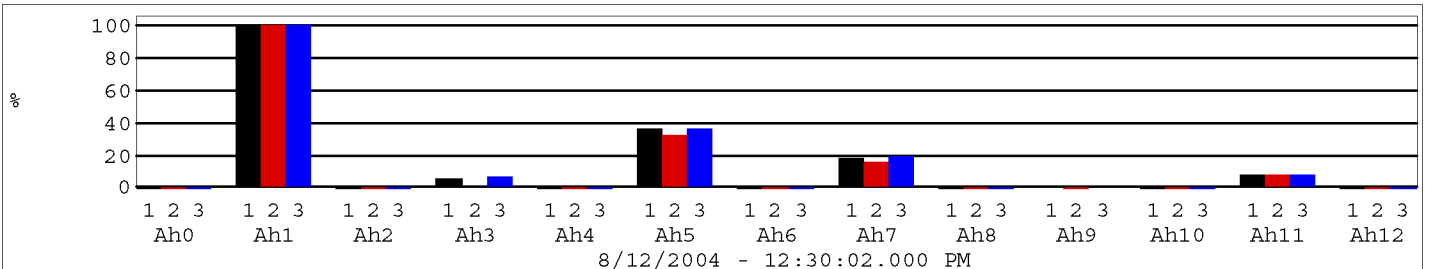
8/12/2004
12:30:02.500 PM

31:20.000 (M:S)
6 Min/Div

8/12/2004
1:01:22.500 PM

| Name | Date | Time | Avg | Min | Max | Units |
|------|------|------|-----|-----|-----|-------|
| PF Line1 | 8/12/2004 | 12:30:02.500 PM | -0.874 | -0.914 | 0.000 | |
| PF Line2 | 8/12/2004 | 12:30:02.500 PM | -0.896 | -0.960 | 0.000 | |
| PF Line3 | 8/12/2004 | 12:30:02.500 PM | -0.859 | -0.908 | 0.000 | |
| DPF Line1 | 8/12/2004 | 12:30:02.500 PM | -0.947 | -0.994 | 0.000 | |
| DPF Line2 | 8/12/2004 | 12:30:02.500 PM | -0.954 | -0.992 | 0.000 | |
| DPF Line3 | 8/12/2004 | 12:30:02.500 PM | -0.930 | -0.978 | 0.000 | |
| Tan Line1 | 8/12/2004 | 12:30:02.500 PM | 0.173 | 0.000 | 0.191 | |
| Tan Line2 | 8/12/2004 | 12:30:02.500 PM | 0.135 | 0.000 | 0.157 | |
| Tan Line3 | 8/12/2004 | 12:30:02.500 PM | 0.245 | 0.000 | 0.872 | |

8/12/2004 - 12:30:02.000 PM

| Val | | |
|-----|---|---|
| -0.899 | —— | PF Line1 |
| -0.922 | —— | PF Line2 |
| -0.889 | —— | PF Line3 |
| -0.975 | —— | DPF Line1 |
| -0.983 | —— | DPF Line2 |
| -0.963 | —— | DPF Line3 |
| 0.180 | —— | Tan Line1 |
| 0.140 | —— | Tan Line2 |
| 0.238 | —— | Tan Line3 |

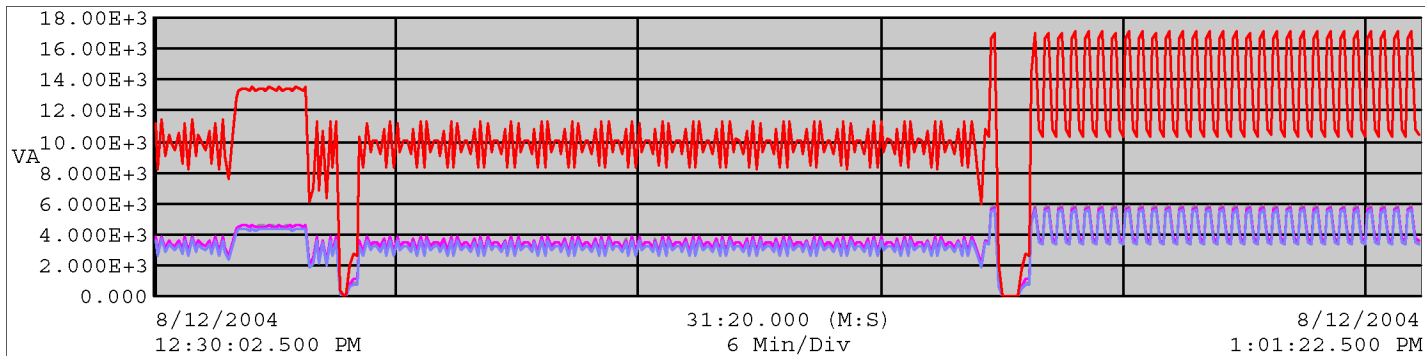| | |
|---|---|
| Channel Name: Arms Line1<br>CurrentRatio: 1.000 | 8/12/2004 - 12:30:02.000 PM<br>Val<br>32.60 —— Arms Line1<br>32.80 —— Arms Line2<br>31.00 —— Arms Line3<br>3.100 —— Arms Neutral |



8/12/2004
12:30:02.500 PM

31:20.000 (M:S)
6 Min/Div

8/12/2004
1:01:22.500 PM
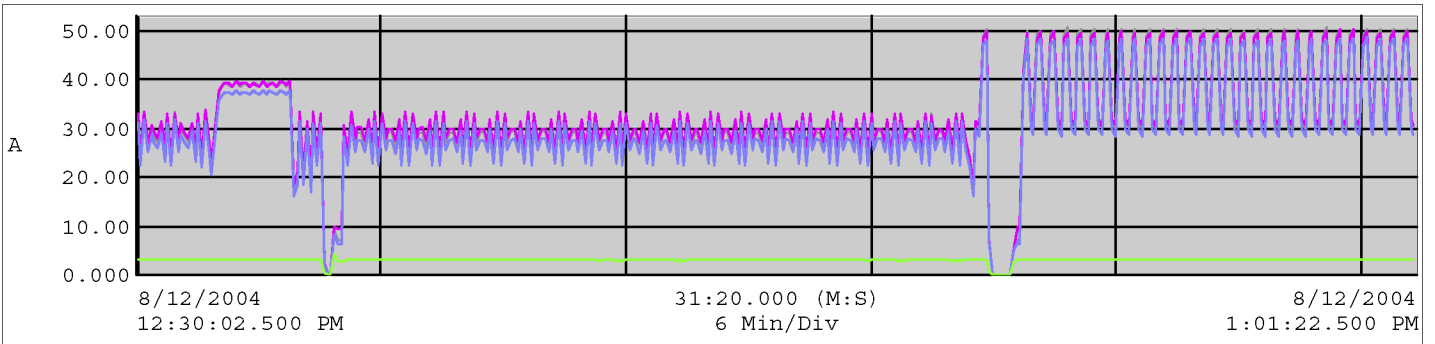
| Name | Avg | Min | Max | Units |
|---|---|---|---|---|
| Arms Line1 | 31.52 | 0.000 | 50.40 | A |
| Arms Line2 | 31.91 | 0.000 | 50.00 | A |
| Arms Line3 | 29.99 | 0.000 | 48.60 | A |
| Arms Neutral | 2.929 | 0.000 | 4.300 | A |
| | | | | |
| | | | | |
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8/12/2004 - 12:30:02.000 PM



8/12/2004 - 12:30:02.000 PM



8/12/2004 - 12:30:02.000 PM



8/12/2004 - 12:30:02.000 PM

| Channel Name: VA Line1 | 8/12/2004 - 12:30:02.000 PM |
| VoltageRatio: 1.000 | Val |
| CurrentRatio: 1.000 | |

| | Val | |
|---|---|---|
| 3.790E+3 | —— | VA Line1 |
| 3.788E+3 | —— | VA Line2 |
| 3.581E+3 | —— | VA Line3 |
| 11.16E+3 | —— | VA Sum of Phases |



| Name | Avg | Min | Max | Units |
|---|---|---|---|---|
| VA Line1 | 3.667E+3 | 0.000 | 5.830E+3 | VA |
| VA Line2 | 3.678E+3 | 0.000 | 5.726E+3 | VA |
| VA Line3 | 3.461E+3 | 0.000 | 5.563E+3 | VA |
| VA Sum of Phases | 10.81E+3 | 0.000 | 17.05E+3 | VA |
| | | | | |
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# Trend Summary Report

Database: C:\Program Files\DataView\DataFiles\PowerPad\1trend.dvb

| Operator | Test Site |
|---|---|
| AEMC Instruments<br><br>200 Foxborough Blvd<br><br>Foxborough, MA 02035<br>508-698-2115 | |

Comments
     Tests run on a large message display.

Trend recordings are each shown on a seperate page of this report for the following parameters
 frequency
 voltage (phase-to-neutral)
 current
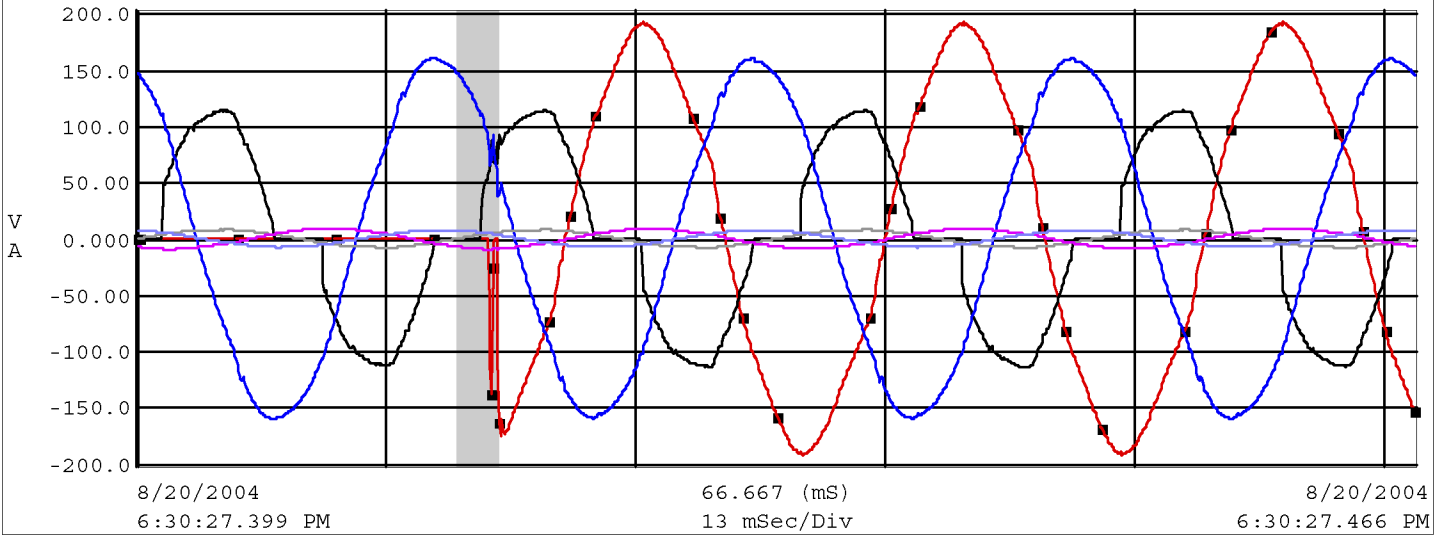 current, voltage thd
 voltage unbalance
 wattage
 watt hours
 power factor
 individual current harmonics
 apparent power

# Transient Report

8/20/2004 6:30:27.399 PM     66.667 (mS)   13 mSec/Div     8/20/2004 6:30:27.466 PM

| Name | Date | Time | RMS | Units |
|---|---|---|---|---|
| 4Cycles V2 | 8/20/2004 | 6:30:27.399 PM | 110.2 | V |
| 4Cycles V1 | 8/20/2004 | 6:30:27.399 PM | 73.75 | V |
| 4Cycles V3 | 8/20/2004 | 6:30:27.399 PM | 113.5 | V |
| 4Cycles I1 | 8/20/2004 | 6:30:27.399 PM | 5.587 | A |
| 4Cycles I2 | 8/20/2004 | 6:30:27.399 PM | 6.330 | A |
| 4Cycles I3 | 8/20/2004 | 6:30:27.399 PM | 5.378 | A |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

8/20/2004 - 6:30:27.000 PM

| Val | | |
|---|---|---|
| 0.000 | — | 4Cycles V2 |
| 0.300 | — | 4Cycles V1 |
| 147.7 | — | 4Cycles V3 |
| -0.200 | — | 4Cycles I1 |
| -7.100 | — | 4Cycles I2 |
| 7.200 | — | 4Cycles I3 |



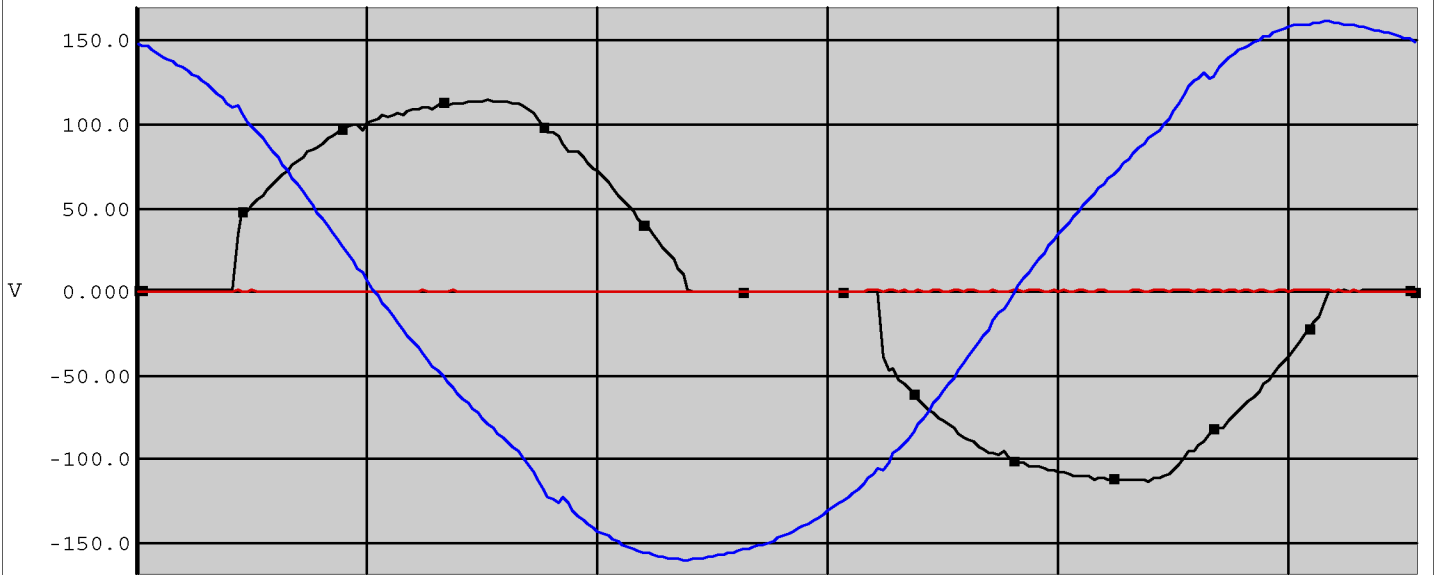8/20/2004 6:30:27.416 PM    2.083 (mS)   416 uSec/Div    8/20/2004 6:30:27.418 PM
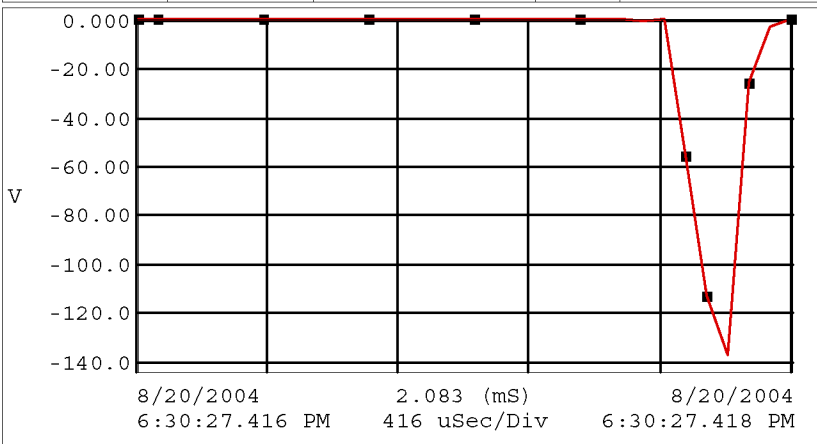
Start Date: 8/20/2004
Start Time: 6:30:27.400 PM
Duration: 66.667 (mS)
Frequency: 60.00 Hz
Magnitude Of Transient: -137.0
Data Point Of Transient: 28.00
VoltageRatio: 1.000
CurrentRatio: 1.000

| Name | Date | Time | Duration | Units |
|---|---|---|---|---|
| Transient Trigger V2 | 8/20/2004 | 6:30:27.416 PM | 2.083 | (mS) |
| | | | | |
| | | | | |
| | | | | |

8/20/2004 - 6:30:27.000 PM

| Val | | |
|---|---|---|
| 0.000 | — | Transient Trigger V2 |

Channel Name: Waveform V1
Frequency: 60.00 Hz
VoltageRatio: 1.000



| | | | |
|---|---|---|---|
| 150.0 | | | |
| 100.0 | | | |
| 50.00 | | | |
| V 0.000 | | | |
| -50.00 | | | |
| -100.0 | | | |
| -150.0 | | | |

8/20/2004          16.667 (mS)          8/20/2004
6:30:27.399 PM     3 mSec/Div           6:30:27.416 PM

| Name | Date | Time | Duration | RMS | Units |
|---|---|---|---|---|---|
| Waveform V1 | 8/20/2004 | 6:30:27.399 PM | 16.667 | 73.57 | V |
| Waveform V1 | 8/20/2004 | 6:30:27.416 PM | 16.667 | 73.90 | V |
| Waveform V1 | 8/20/2004 | 6:30:27.433 PM | 16.667 | 73.81 | V |
| Waveform V1 | 8/20/2004 | 6:30:27.450 PM | 16.667 | 73.70 | V |
| Waveform V2 | 8/20/2004 | 6:30:27.399 PM | 16.667 | 0.132 | V |
| Waveform V2 | 8/20/2004 | 6:30:27.416 PM | 16.667 | 115.9 | V |
| Waveform V2 | 8/20/2004 | 6:30:27.433 PM | 16.667 | 132.6 | V |
| Waveform V2 | 8/20/2004 | 6:30:27.450 PM | 16.667 | 132.6 | V |
| Waveform V3 | 8/20/2004 | 6:30:27.399 PM | 16.667 | 114.2 | V |
| Waveform V3 | 8/20/2004 | 6:30:27.416 PM | 16.667 | 113.5 | V |
| Waveform V3 | 8/20/2004 | 6:30:27.433 PM | 16.667 | 113.2 | V |
| Waveform V3 | 8/20/2004 | 6:30:27.450 PM | 16.667 | 113.2 | V |

Waveform V1
73.57 Vrms, 25.18 %THD



8/20/2004 - 6:30:27.400 PM

8/20/2004 - 6:30:27.000 PM
Val
0.300  ——— Waveform V1
0.000  ——— Waveform V2
147.7  ——— Waveform V3
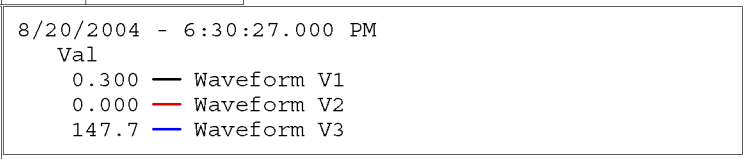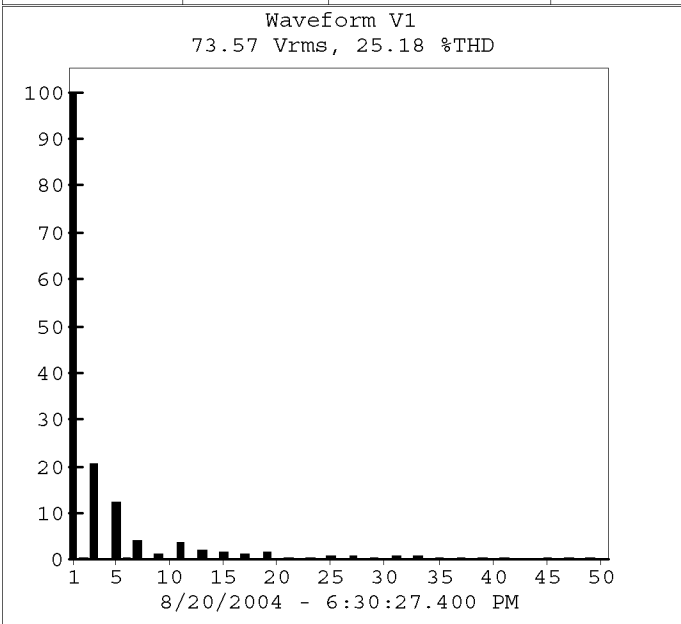
Waveform V1

| | (%) | | (%) | | (%) |
|---|---|---|---|---|---|
| H01 | 100.0 | H18 | 0.3 | H35 | 0.5 |
| H02 | 0.8 | H19 | 2.0 | H36 | 0.3 |
| H03 | 20.6 | H20 | 0.3 | H37 | 0.8 |
| H04 | 0.3 | H21 | 0.8 | H38 | 0.3 |
| H05 | 12.3 | H22 | 0.4 | H39 | 0.8 |
| H06 | 0.4 | H23 | 0.8 | H40 | 0.3 |
| H07 | 4.2 | H24 | 0.3 | H41 | 0.6 |
| H08 | 0.3 | H25 | 1.2 | H42 | 0.4 |
| H09 | 1.3 | H26 | 0.3 | H43 | 0.3 |
| H10 | 0.3 | H27 | 1.2 | H44 | 0.3 |
| H11 | 3.7 | H28 | 0.3 | H45 | 0.7 |
| H12 | 0.4 | H29 | 0.7 | H46 | 0.3 |
| H13 | 2.1 | H30 | 0.2 | H47 | 0.4 |
| H14 | 0.3 | H31 | 0.9 | H48 | 0.2 |
| H15 | 1.7 | H32 | 0.3 | H49 | 0.5 |
| H16 | 0.2 | H33 | 0.9 | H50 | 0.3 |
| H17 | 1.4 | H34 | 0.3 | | |

2 - 4

Channel Name: Waveform I1
Frequency: 60.00 Hz
CurrentRatio: 1.000
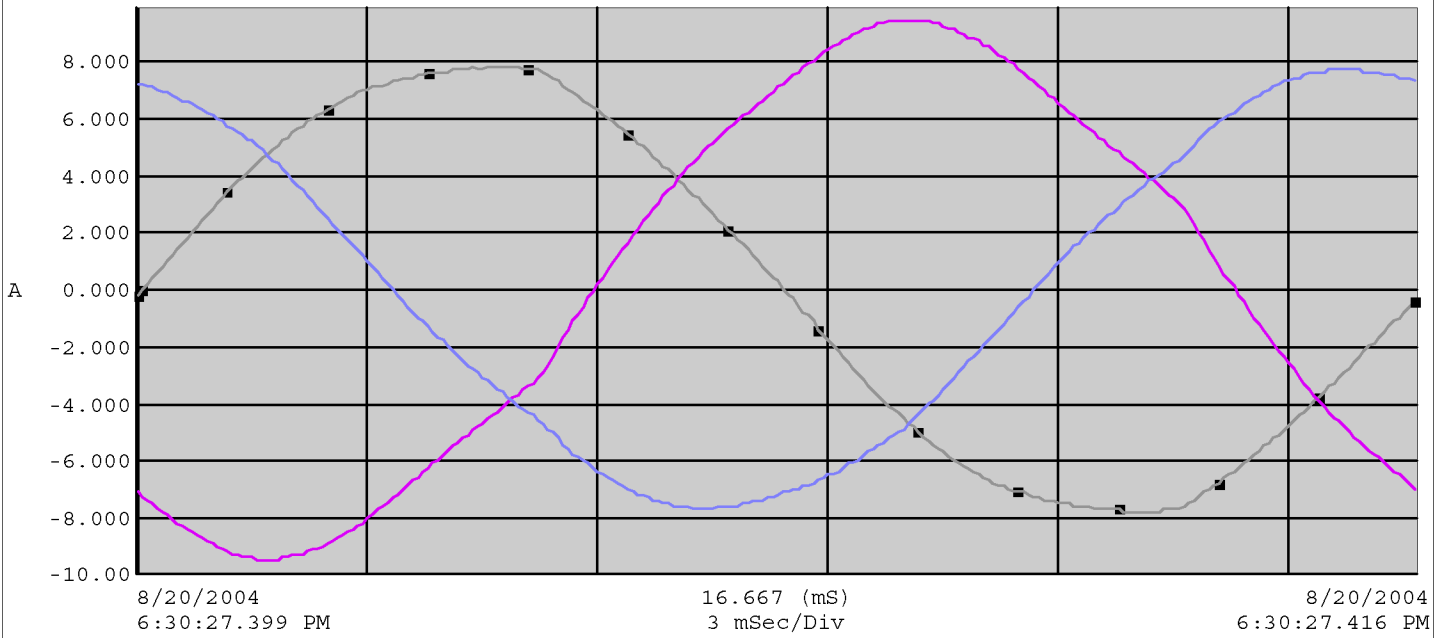


|  | 8/20/2004 | 16.667 (mS) | 8/20/2004 |
|  | 6:30:27.399 PM | 3 mSec/Div | 6:30:27.416 PM |

| Name | Date | Time | Duration | RMS | Units |
|------|------|------|----------|-----|-------|
| Waveform I1 | 8/20/2004 | 6:30:27.399 PM | 16.667 | 5.589 | A |
| Waveform I1 | 8/20/2004 | 6:30:27.416 PM | 16.667 | 5.587 | A |
| Waveform I1 | 8/20/2004 | 6:30:27.433 PM | 16.667 | 5.586 | A |
| Waveform I1 | 8/20/2004 | 6:30:27.450 PM | 16.667 | 5.587 | A |
| Waveform I2 | 8/20/2004 | 6:30:27.399 PM | 16.667 | 6.497 | A |
| Waveform I2 | 8/20/2004 | 6:30:27.416 PM | 16.667 | 6.328 | A |
| Waveform I2 | 8/20/2004 | 6:30:27.433 PM | 16.667 | 6.247 | A |
| Waveform I2 | 8/20/2004 | 6:30:27.450 PM | 16.667 | 6.246 | A |
| Waveform I3 | 8/20/2004 | 6:30:27.399 PM | 16.667 | 5.408 | A |
| Waveform I3 | 8/20/2004 | 6:30:27.416 PM | 16.667 | 5.380 | A |
| Waveform I3 | 8/20/2004 | 6:30:27.433 PM | 16.667 | 5.362 | A |
| Waveform I3 | 8/20/2004 | 6:30:27.450 PM | 16.667 | 5.361 | A |

Waveform I1
5.59 Arms, 2.37 %THD



8/20/2004 - 6:30:27.400 PM
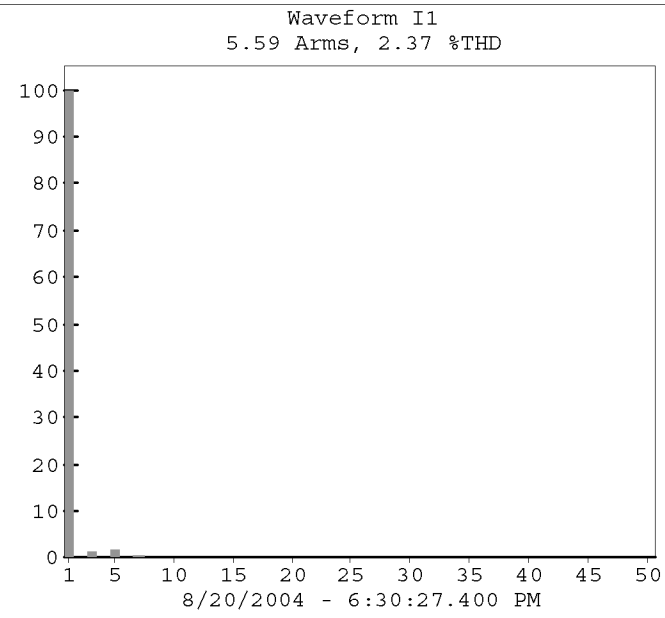
8/20/2004 - 6:30:27.000 PM
Val
-0.200 —— Waveform I1
-7.100 —— Waveform I2
7.200 —— Waveform I3

Waveform I1

| | (%) | | (%) | | (%) |
|-----|-------|-----|-------|-----|-------|
| H01 | 100.0 | H18 | 0.0 | H35 | 0.0 |
| H02 | 0.1 | H19 | 0.1 | H36 | 0.0 |
| H03 | 1.2 | H20 | 0.0 | H37 | 0.1 |
| H04 | 0.1 | H21 | 0.1 | H38 | 0.0 |
| H05 | 1.8 | H22 | 0.0 | H39 | 0.0 |
| H06 | 0.1 | H23 | 0.0 | H40 | 0.1 |
| H07 | 0.6 | H24 | 0.0 | H41 | 0.0 |
| H08 | 0.0 | H25 | 0.1 | H42 | 0.0 |
| H09 | 0.4 | H26 | 0.0 | H43 | 0.1 |
| H10 | 0.0 | H27 | 0.1 | H44 | 0.0 |
| H11 | 0.2 | H28 | 0.0 | H45 | 0.1 |
| H12 | 0.0 | H29 | 0.1 | H46 | 0.0 |
| H13 | 0.2 | H30 | 0.0 | H47 | 0.1 |
| H14 | 0.1 | H31 | 0.0 | H48 | 0.0 |
| H15 | 0.1 | H32 | 0.0 | H49 | 0.0 |
| H16 | 0.0 | H33 | 0.1 | H50 | 0.0 |
| H17 | 0.1 | H34 | 0.0 | | |

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# Transient Report

| |
|---|
| Database: C:\Program Files\DataView\DataFiles\PowerPad\Samples\Transient.dvb |

| Operator | Test Site |
|---|---|
| AEMC Instruments<br><br>200 Foxborough Blvd<br><br>Foxborough , MA 02035 | |

Comments
        Page 1 shows all voltage and current measurements with a fault detected on phase B. The second (smaller) graph is a zoomed in view of the fault.

Page 2  show one cycle of each of the voltage phases along with Phase A harmonic content

Page 3 shows one cycle of each of the current phases along with Phase A harmonic content.