

LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 1

Instrument Information

Model Number Fluke 1735
Serial Number S110610981B6
Firmware Revision V01.10_5370

Software Information

Power Log Version 4.3.1

 Fluke 345 DLL Version
 11.20.2006

 Fluke 430 DLL Version
 1.0.0.34

 Fluke 430-II DLL Version
 1.0.0.34

General Information

Recording Location LAC Rancho Los Amigos National Rehabilitation Center parking structure

(see directory map showing "You Are Here Δ", indicating exact position)

Client LARICS

Notes Firmware on Fluke1735 is V01.10 and associated new software requires a

slightly different report format.

The network measured is a 480V wye system.

The local escort restricted access to some electrical cabinets.

Service disconnect is a 225Amp Breaker. Approximate capacity appears to

be 187kW.

Max current measured is on phase B at 51 Amps. Approximate power is

42kW.

Since existing power load is only 23% of the apparent capacity, the LARICS

equipment, using 20kW, could be connected to this switchgear with a

separate disconnect in the existing panel.

Designer needs LAC Rancho As-Built 1-Line Diagram in order to confirm

existing power capacity.

LAC Rancho Recorded data V01.10.fpq 11/8/2014 4:07 PM Page 2

Measurement Summary

Measurement Topology Wye mode Application mode Power

First Recording 9/25/2014 12:32:25PM 0msec Last Recording 10/25/2014 12:12:25PM 0msec

Recording Interval 0h 10m 0s 0msec

Nominal Voltage 480V Nominal Current 3000A Nominal Frequency 60Hz

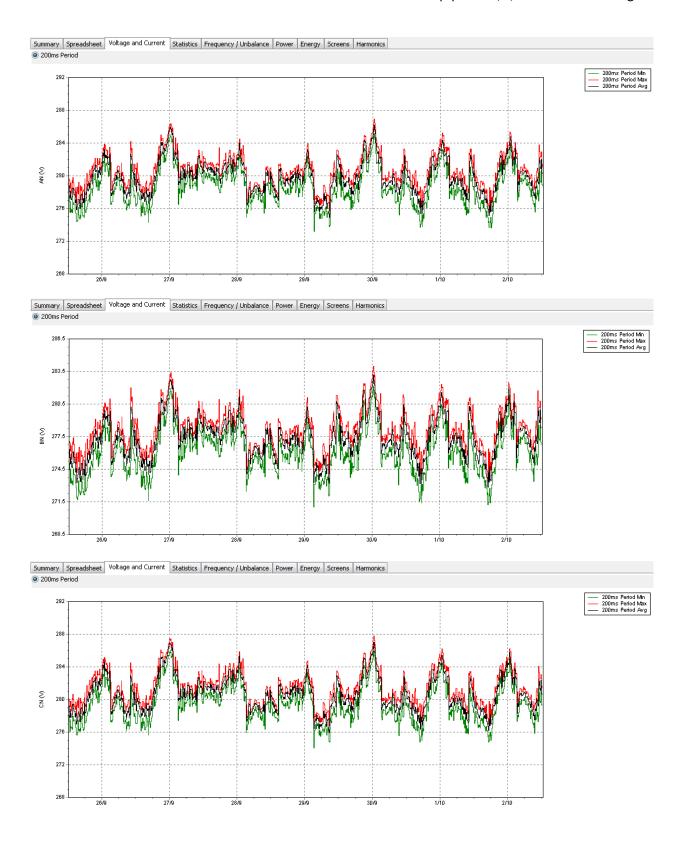
Recording Summary

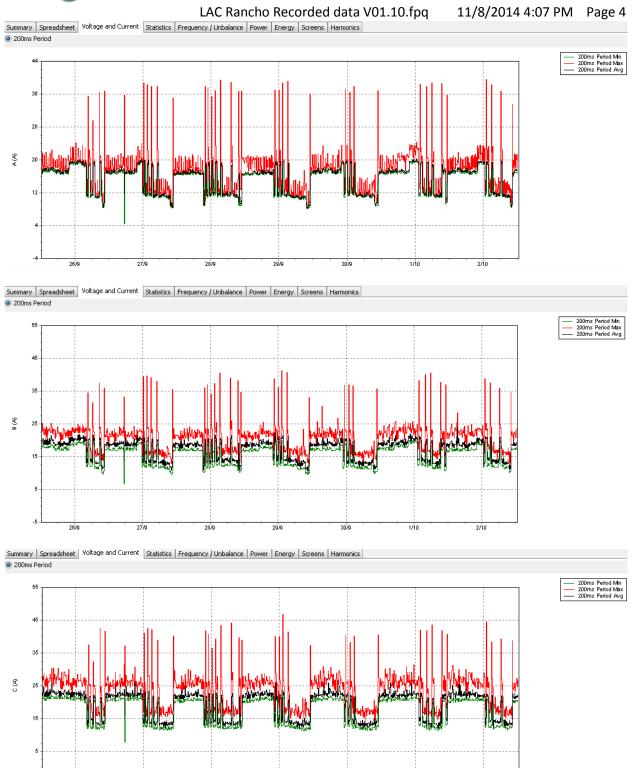
RMS Recordings	4319
DC Recordings	0
Frequency Recordings	4319
Unbalance Recordings	0
Harmonic Recordings	0
Power Harmonic Recordings	0
Power Recordings	4319
Power Unbalance Recordings	0
Energy Recordings	4319
Energy Losses Recordings	0
Flicker Recordings	0
Mains Signaling Recordings	0

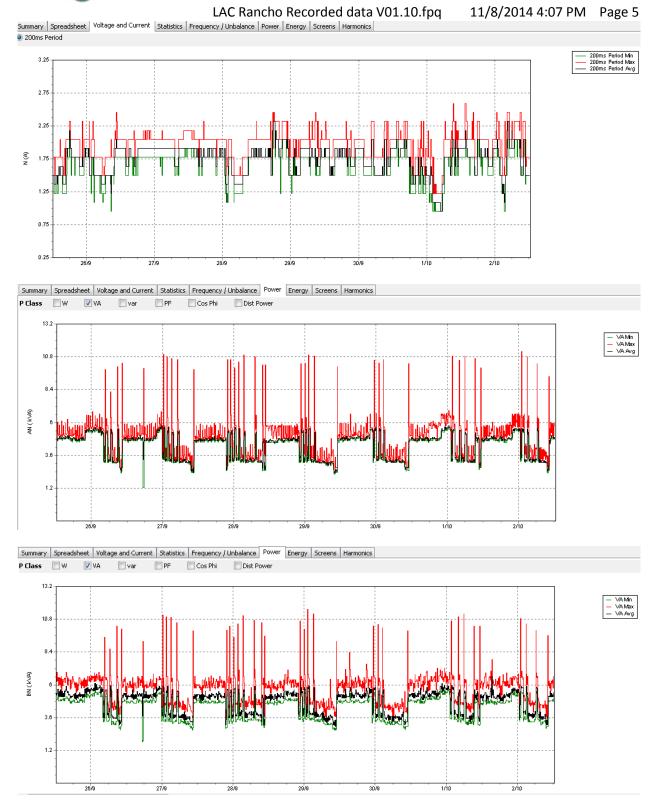
Events Summary

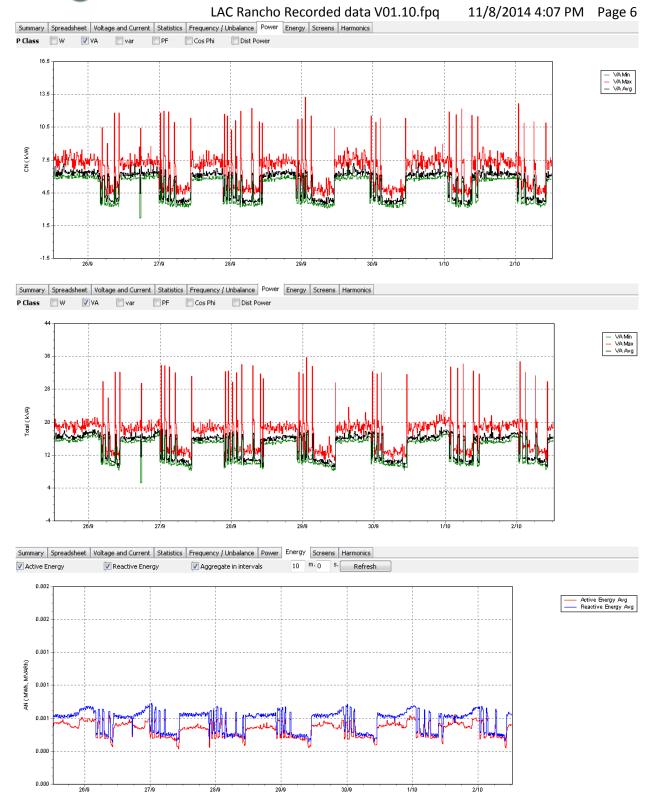
Dips	0
Swells	0
Transients	0
Interruptions	0
Voltage Profiles	0
Rapid Voltage Changes	0
Screens	19
Waveforms	0
Intervals Without Measurements	0
Wave Events	0
RMS Events	0

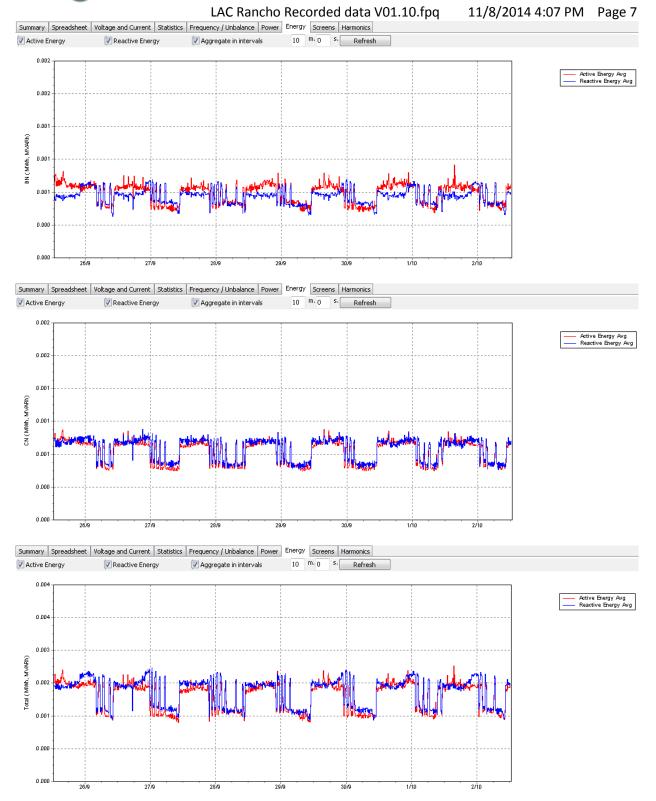




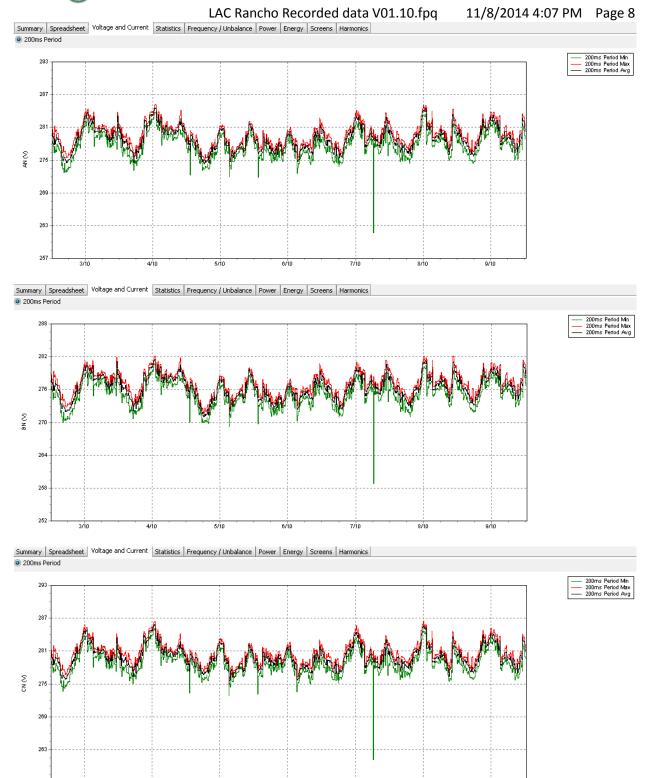


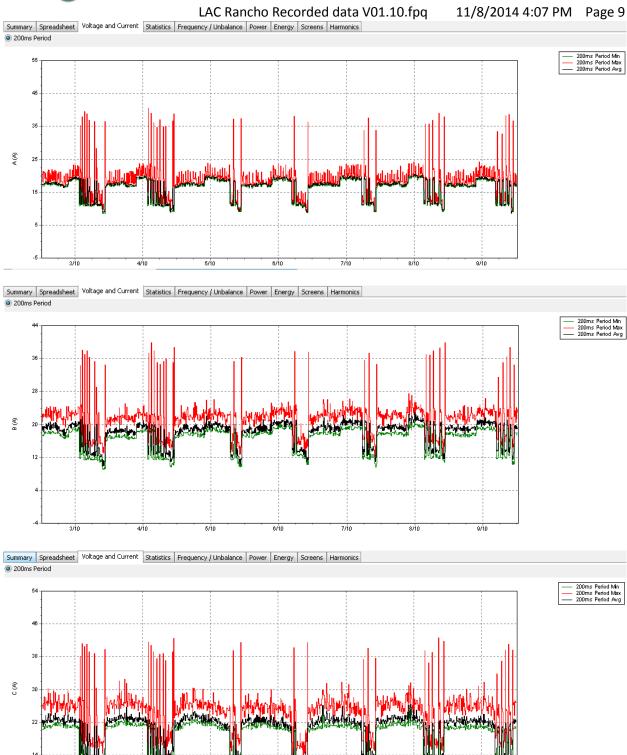






4/10





7/10

8/10

9/10

3/10

4/10

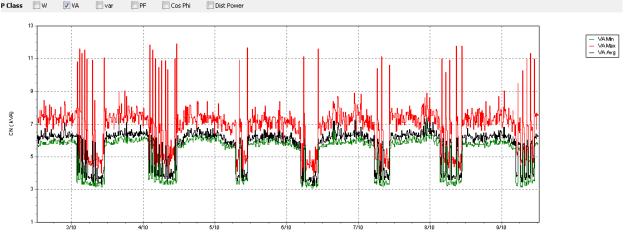
5/10

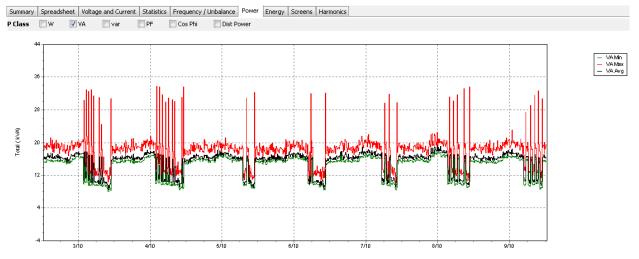
6/10

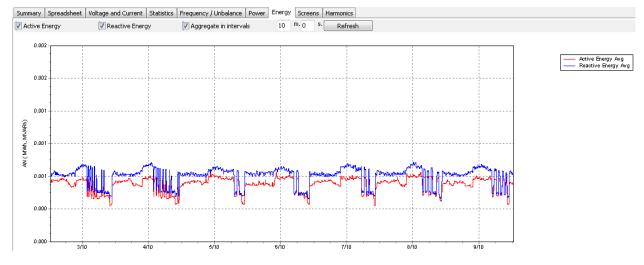
LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 10 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics 3.2 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics P Class W VA var PF Cos Phi Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics P Class W VA var PF Cos Phi Dist Power — VAMin — VAMax — VAAvg

LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 11 Summary Spreadsheet Voltage and Current Statistics Frequency / Unbalance Power Energy Screens Harmonics

P Class W V A var PF Cos Phi Dist Power







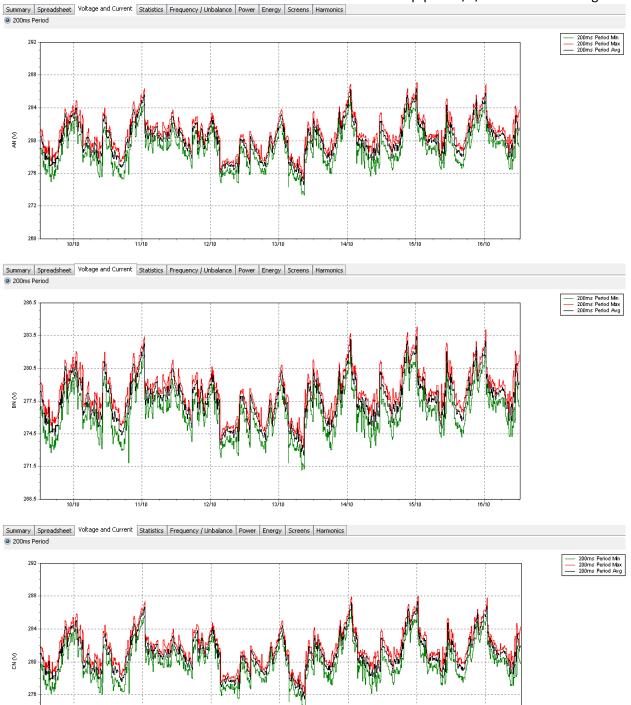
LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 12 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics | 10 m. o s. Refresh Reactive Energy Aggregate in intervals 0.002 0.001 BN (MMh, MWARh) 0.000 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics Reactive Energy Aggregate in intervals 10 m. o s. Refresh 0.002 0.002 CN (MWh, MWARh) 0.000 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics 0.004 0.004 0.001 0.000

272

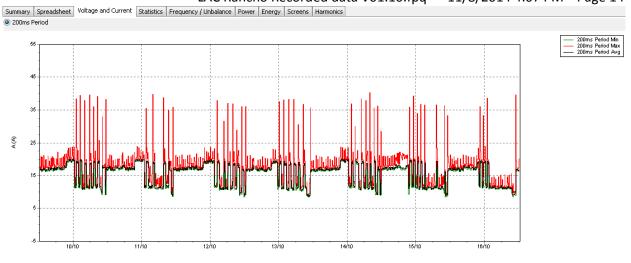
11/10

12/10

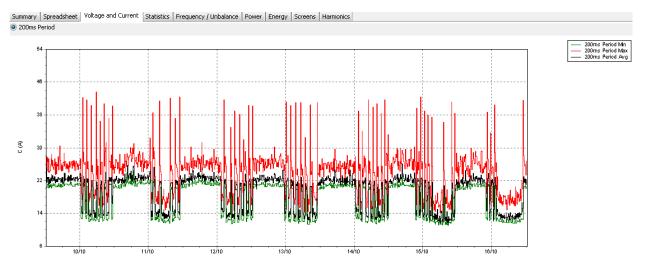
LAC Rancho Recorded data V01.10.fpq 11/8/2014 4:07 PM Page 13



LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 14







LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 15 | Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics |

© 200ms Period 2.8 -0.4 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics P Class W VA var PF Cos Phi Dist Power 11/10 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics VA □ var □ PF □ Cos Phi □ Dist Power - VA Min
- VA Max
- VA Avg

0.000

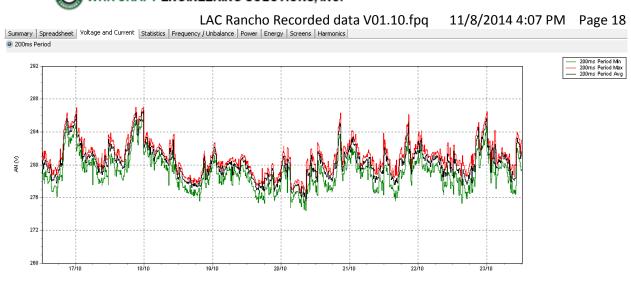
LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 16 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics | P Class W VA var PF Cos Phi Dist Power VA Min

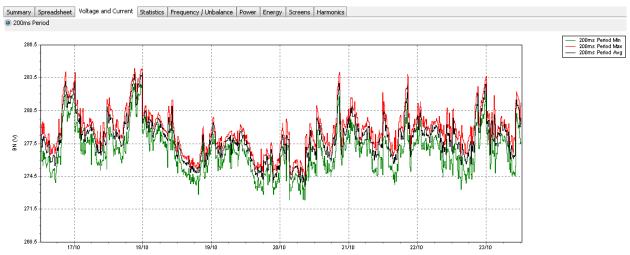
VA Max

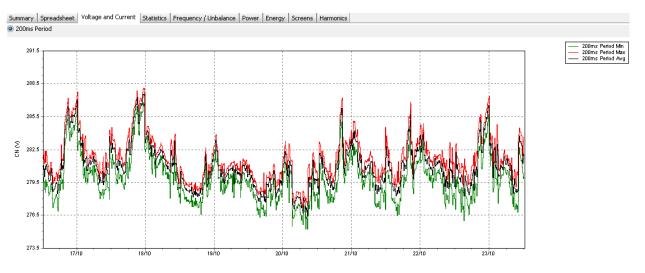
VA Avg 12.8 10.4 3.2 12/10 14/10 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics P Class W VA var PF Cos Phi Dist Power Total (KVA) 11/10 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics Reactive Energy Aggregate in intervals 10 m. o s. Refresh Active Energy 0.001 AN (MININ, MVARh) 0.000

LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 17 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics | Reactive Energy Aggregate in intervals 10 m. 0 s. Refresh Active Energy Avg Reactive Energy Avg 0.001 BN (MWh, MVARh) 0.001 0.000 0.000 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics | 10 m. 0 s. Refresh Reactive Energy Aggregate in intervals 0.002 Active Energy Avg Reactive Energy Avg 0.002 CN (MWh, MVARh) 0.001 0.000 12/10 15/10 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics Reactive Energy Aggregate in intervals 0.004 0.003 Total (MWh. 0.000

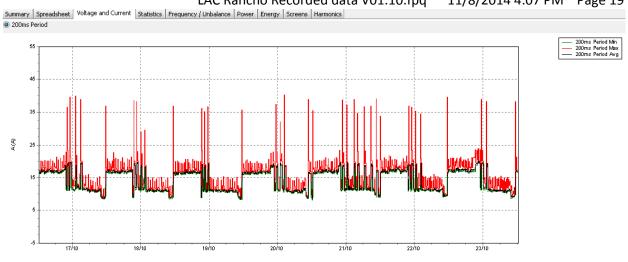
11/8/2014 4:07 PM Page 18

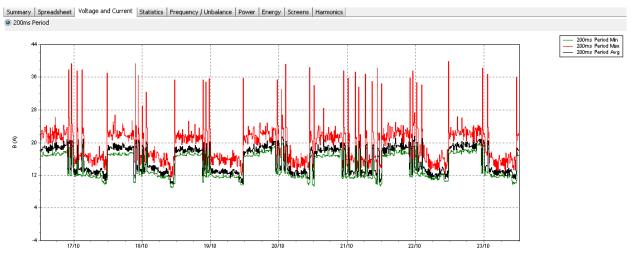


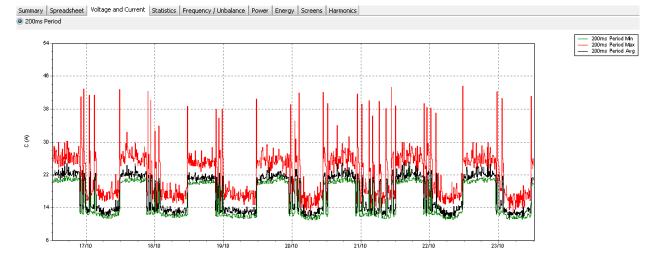


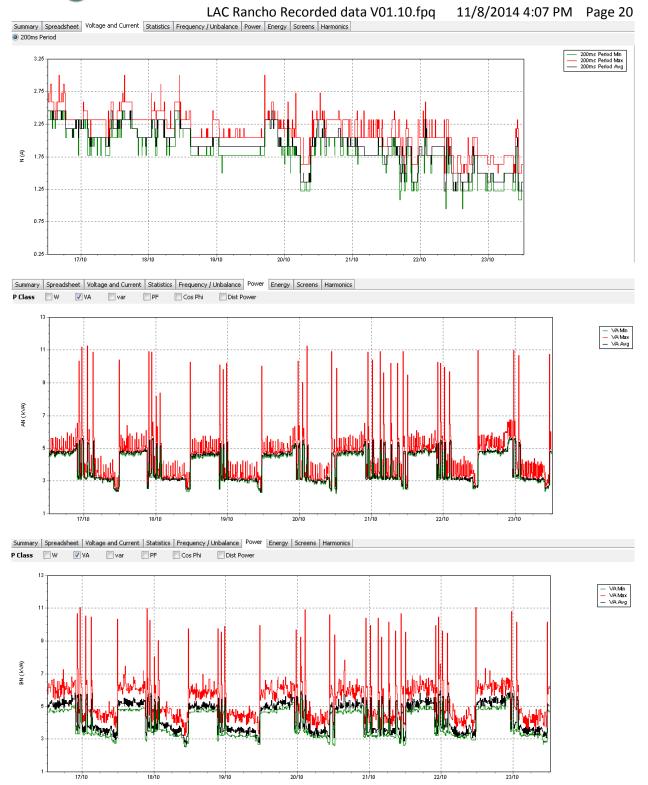


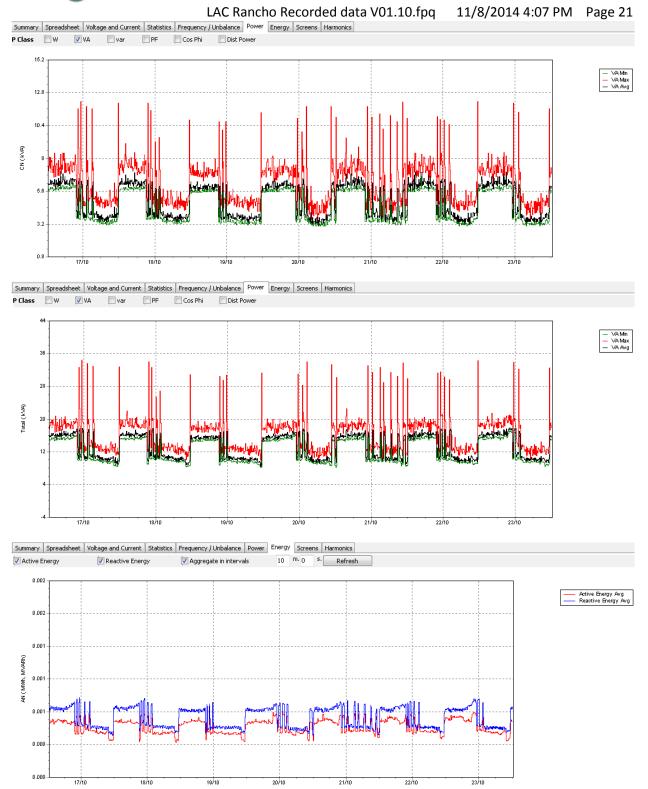
LAC Rancho Recorded data V01.10.fpq 11/8/2014 4:07 PM Page 19









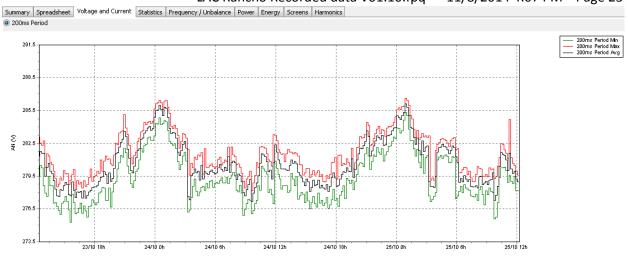


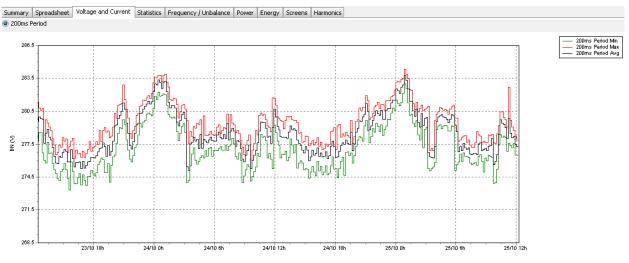
LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 22 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics 10 m. o s. Refresh Reactive Energy Aggregate in intervals 0.002 0.001 BN (MMh, MVARh) 0.000 Reactive Energy Aggregate in intervals 0.002 Active Energy Avg Reactive Energy Avg 0.002 0.001 CN (MMh. 0.000 18/10 22/10 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics Aggregate in intervals 0.004 0.004 0.003 Total (MMh, MVARh) 0.001 0.000 0.000

21/10

22/10

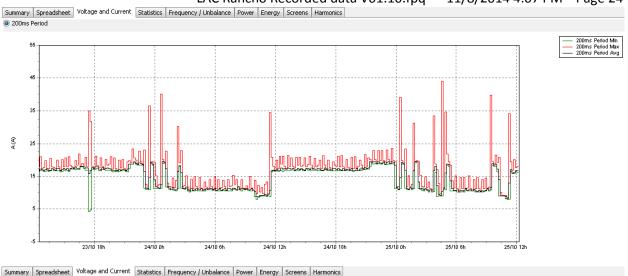
LAC Rancho Recorded data V01.10.fpq 11/8/2014 4:07 PM Page 23

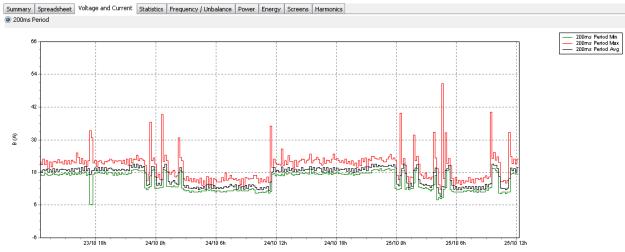


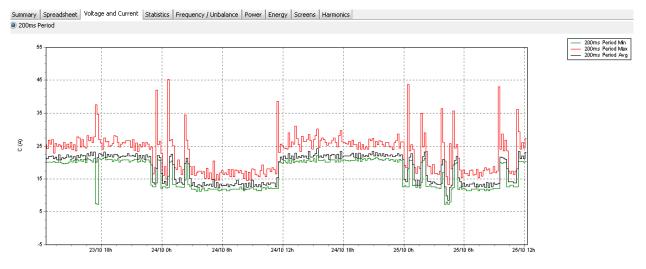


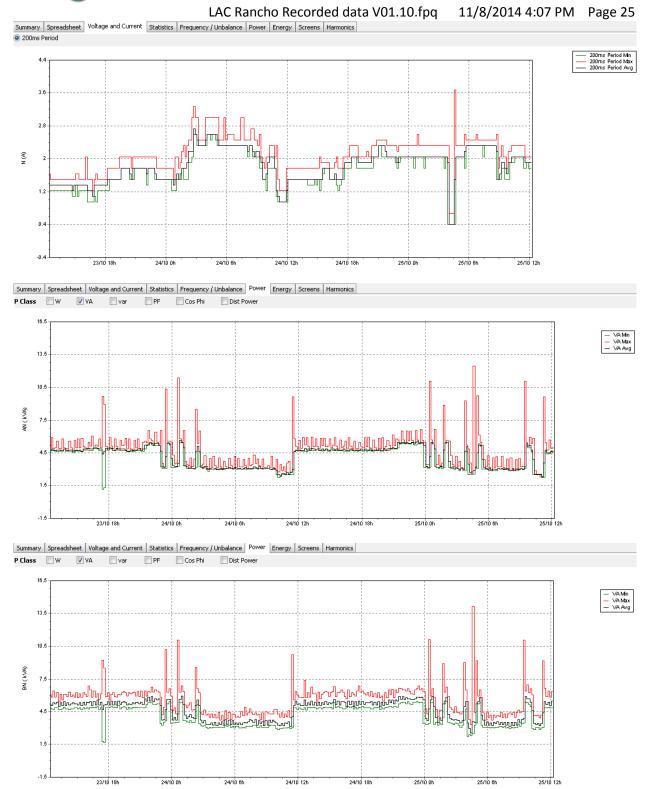


LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 24









23/10 18h

24/10 0h

24/10 6h

24/10 12h

24/10 18h

25/10 0h

25/10 6h

LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 26 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics | P Class W VA var PF Cos Phi Dist Power — VAMin — VAMax — VAAvg 13.5 10.5 /rtthrappinarythisportary 24/10 12h 25/10 Oh 25/10 6h Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics P Class W VA var PF Cos Phi Dist Power Total (KVA) Afternation of the second seco 24/10 18h 23/10 18h 24/10 0h 24/10 6h 24/10 12h 25/10 0h 25/10 6h 25/10 12h Reactive Energy Aggregate in intervals 10 ^{m.} 0 ^{s.} Refresh 0.002 0.002 0.001 AN (MININ, MVARh) 0.001 0.000

23/10 18h

24/10 Dh

24/10 6h

24/10 12h

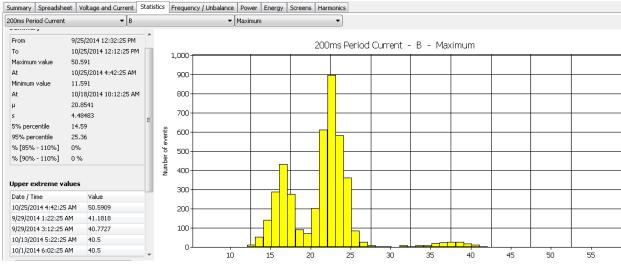
24/10 18h

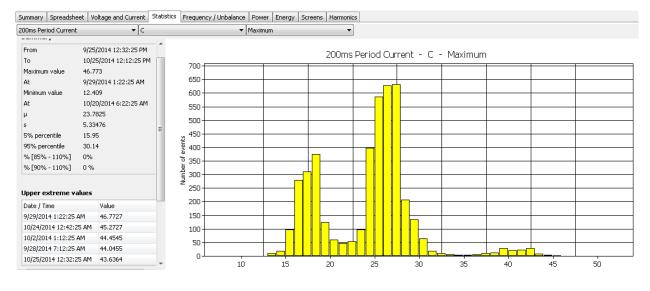
25/10 Dh

25/10 12h

LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 27 Summary Spreadsheet Voltage and Current Statistics Frequency / Unbalance Power Energy Screens Harmonics Reactive Energy Aggregate in intervals 10 m. 0 s. Refresh 0.00 BN (MWA, MVARh) 0.00 0.000 $Summary \; \left| \; \mathsf{Spreadsheet} \; \right| \; \mathsf{Voltage} \; \mathsf{and} \; \mathsf{Current} \; \left| \; \mathsf{Statistics} \; \right| \; \mathsf{Frequency} \; / \; \mathsf{Unbalance} \; \left| \; \mathsf{Power} \; \right| \; \mathsf{Energy} \; \left| \; \mathsf{Screens} \; \right| \; \mathsf{Harmonics} \; \mathsf{Harmonics} \; \mathsf{Constant} \; \mathsf{Cons$ Reactive Energy Aggregate in intervals 10 m. 0 s. Refresh 0.002 Active Energy Avg Reactive Energy Avg 0.002 0.001 CN (MWh, MVARh) 0.001 րտոսունու 0.000 0.000 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics 10 m. o s. Refresh Reactive Energy Aggregate in intervals 0.004 Active Energy Avg Reactive Energy Avg 0.004 Total (MWM, 0.00 0.000

LAC Rancho Recorded data V01.10.fpg 11/8/2014 4:07 PM Page 28 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics | 200ms Period Current **→** A ▼ Maximum 9/25/2014 12:32:25 PM 200ms Period Current - A - Maximum 10/25/2014 12:12:25 PM То Maximum value 44.045 900 10/25/2014 4:42:25 AM 850 800-8.455 Minimum value 750 9/29/2014 10:02:25 AM At 700 17.8107 650 5.1614 600 5% percentile 11.32 550 550 95% percentile 23.45 500 % [85% - 110%] 0% 450 % [90% - 110%] 0 % 400-350 Upper extreme values 300 250 Date / Time Value 200 10/25/2014 4:42:25 AM 44.0455 150 10/4/2014 2:12:25 AM 40.5 100 10/20/2014 2:32:25 AM 40.2273 50 10/14/2014 8:02:25 AM 40,2273 n. 10/24/2014 12:42:25 AM 40.0909 10 15 Summary | Spreadsheet | Voltage and Current | Statistics | Frequency / Unbalance | Power | Energy | Screens | Harmonics 200ms Period Current ▼ B ▼ Maximum 9/25/2014 12:32:25 PM From 200ms Period Current - B - Maximum To 10/25/2014 12:12:25 PM 1.000 -50.591 Maximum value 10/25/2014 4:42:25 AM At 900





LAC Rancho Recorded data V01.10.fpq 11/8/2014 4:07 PM Page 29

