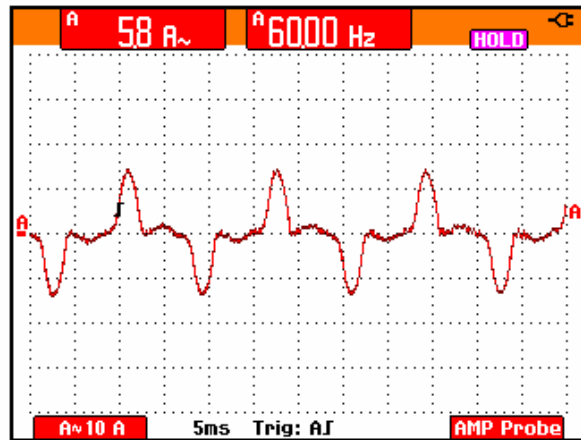
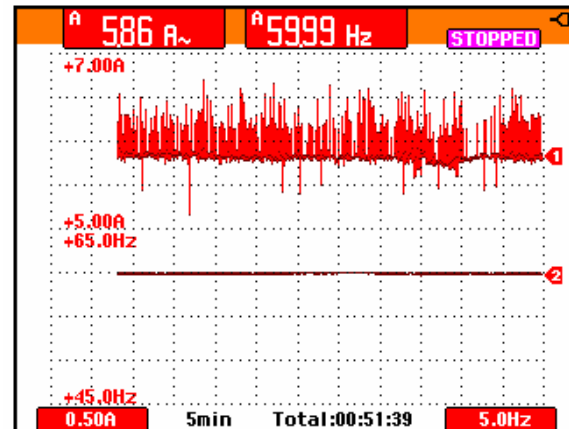


“Mac Victor® Power Network” – Case Study

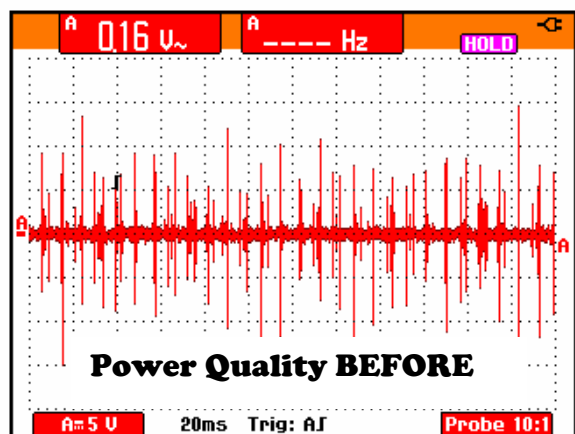
Circle K® Convenience Store – Maricopa, AZ (installed August, 2005)



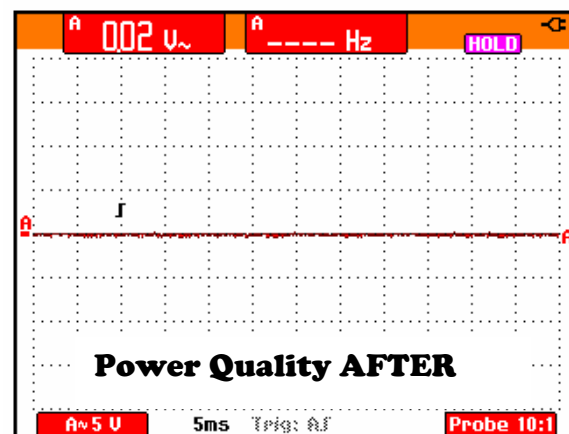
Circle K – Maricopa, AZ
"Snap shot" view of the steady state amp load (5.8 amps) on the entire P.O.S. system "power network".



Circle K – Maricopa, AZ
50 minute trend log of intermittent amp load on the entire P.O.S. system "power network". Spikes are printers which never exceeded 6.7 amps total.



Circle K – Maricopa, AZ before MVPN
Common Mode voltage (Neutral/Ground)
Gilbarco Data Distribution receipt.
30 Vac peak to peak – actual
0.5 Vac – desireable



Circle K – Maricopa, AZ after MVPN
Common Mode voltage (Neutral/Ground)
Gilbarco Data Distribution receipt.
0.1 Vac peak to peak – actual
0.5 Vac – desireable

RESULT: Total P.O.S. load = 5.8 amps steady state / 6.7 amps maximum with printers operating. System capacity = 12 amps. (only 48% loaded)

RESULT: P.O.S. System run time during continuous power failure is about 20 minutes. Entire MVPN system has 50% excess load capacity remaining.

RESULT: Power Quality at all P.O.S. network receptacles is excellent.

The oscilloscope used to measure the amp loads on the Mac Victor® Power Network and the quality of power at each critical network IG receptacle was a Fluke 196C Color Scopemeter.

“Mac Victor® Power Network” – Case Study



Circle K® Convenience Store – Maricopa, AZ

(Copyright of Circle K Stores, Inc.)

The “Mac Victor® Power Network” (MVPN) was installed at this facility in August, 2005 to supply a separate and high quality electrical power network for the entire P.O.S. system. This was a retrofit installation located at 21212 N. John Wayne Parkway in Maricopa, AZ.

The MVPN provides a unique and hybrid approach to supplying clean and continuous power (battery back up) for all the Critical Electronic Systems in a local network. In this application, the connected P.O.S. equipment includes:

- 3 – Radiant P.O.S. Terminals, monitors, scanners, printers
- 2 – Gilbarco Universal Distribution Boxes
- 1 – Dell Back Office Computer, monitor, and hub
- 1 – HP Credit Card Network Server Rack, router, and hub
- 1 – Tidel Electronic Safe; 1 – UE Car Wash Controller

“Mac Victor® Power Network” – Case Study

Circle K® Convenience Store – Maricopa, AZ (installed August, 2005)



P.O.S. equipment on this Mac Victor® Power Network:

- 3 – P.O.S. terminals**
- 1 – Electronic Safe**
- 1 – Car Wash Controller**
- 1 – Office Computer**
- 1 – Credit Card Rack**
- 2 – Distribution boxes**



Mac Victor® and Expand Your Power® are registered U.S. trademarks of Mac Victor Power

“Mac Victor® Power Network”



Newly Derived Isolated Ground (NDIG)

This technology eliminates unnecessary breakers and / or electrical panels and the obsolete dedicated isolated circuits for critical networks

Up to four (4) “Power Trunk” wiring runs to all the parallel Isolated Ground (IG) receptacles-

- * Line
- * Neutral
- * Ground
- * Isolated Gnd

Critical Product Benefits

Expand Your Power® with the “Mac Victor® Power Network”

- The “Mac Victor® Power Network” (Patent Pending) is a unique and fully integrated electrical power system for your most critical electronic networks.
- Provides a dedicated, isolated power source for critical electronic networks with the “Newly Derived Isolated Ground” (NDIG) technology for direct wiring to remote Isolated Ground (IG) receptacles and hard wired control panels.
- Provides clean and continuous, single phase, electrical power and minimizes data communication problems associated with the “multiple-phasing” of network power.
- Reduces both operating and maintenance expenses from downtime due to software lockups and hardware failures.
- Increases revenues with continuous system operation during power failures and other power quality disturbances.
- Easy to override with “make before break” bypass technology for emergencies.
- Input and output power pilot lights for status indication and diagnosis.

THE BOTTOM LINE IS CASH FLOW PRESERVATION