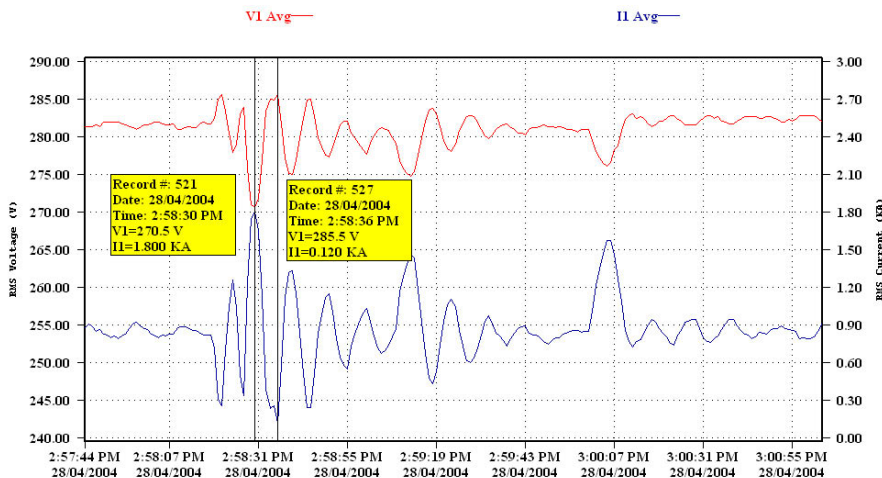


Case Study

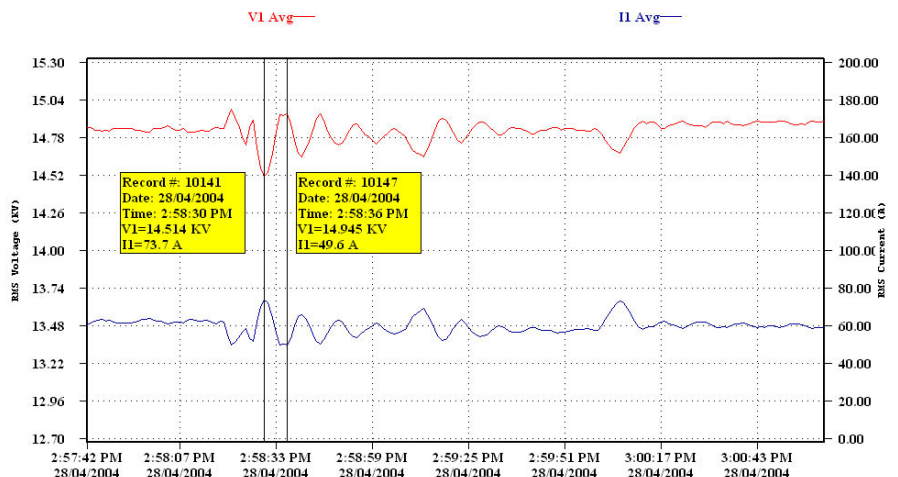
Two PowerPros were used to monitor the input to a six pulse variable frequency drive (480V/3000KVA) and the point of common coupling (PCC) with the utility. The PCC was at 14.4KV with 2 kilometers of transmission line between the PCC and the drive. A load transient caused the drive current to oscillate between 200A and 1800A for a few seconds. The current oscillations were reflected in the voltage profile at the drive and were also very prominent at the PCC.

GondolaDrive.PPF - RMS Voltage and RMS Current Graph
28/04/2004 2:57:44 PM to 28/04/2004 3:01:03 PM



- Voltage and current profile at the drive

MeterPoint.PPF - RMS Voltage and RMS Current Graph
28/04/2004 2:57:42 PM to 28/04/2004 3:01:01 PM



- Voltage and current profile at the PCC