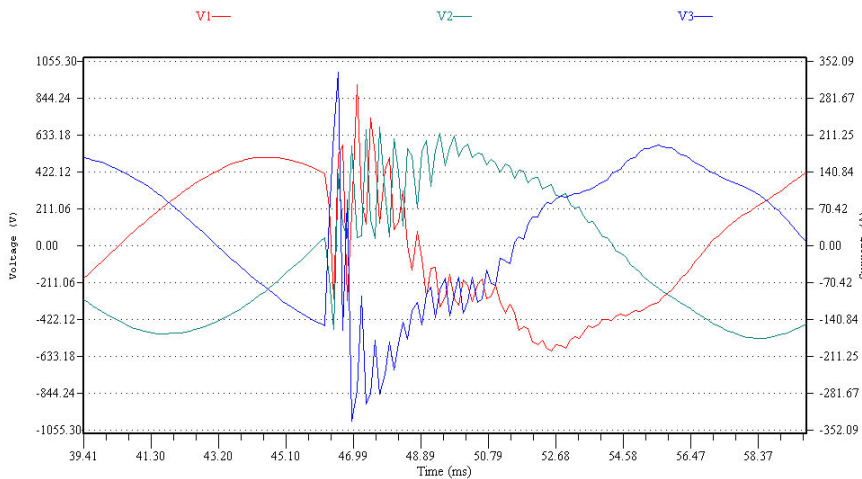


# Capacitor Bank Switching

This high speed voltage transient was captured by a PowerPro. This transient is typical of a capacitor bank being connected to a transmission system. The greatest transient is seen when the switching occurs at the peak of the waveform and the initial part of the transient subtracts from the peak rather than adding to the peak. The oscillatory ringing usually lasts less than one cycle.

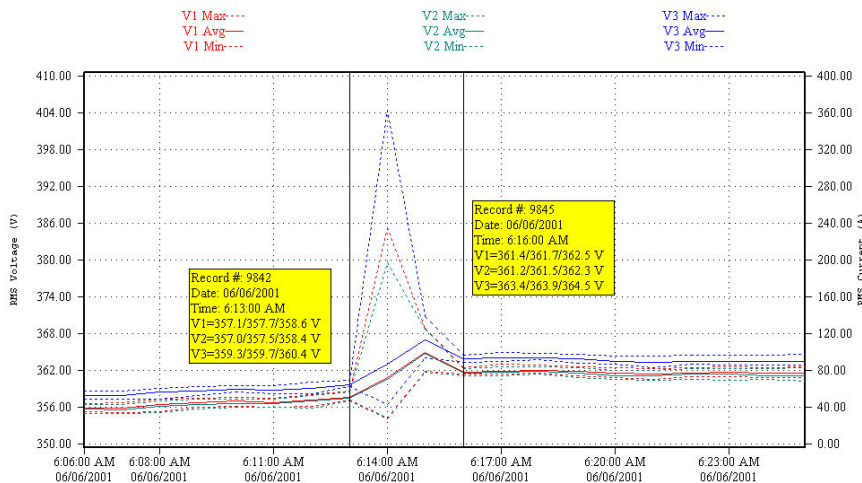
CapBankSw.PPF - Voltage WaveForms and Current WaveForms Graph  
Event #11 , Voltage 1 swell started at 06/06/2001 6:13:30 AM and lasted 1 cycles



- Voltage waveforms during capacitor bank connection.

The effect of the capacitor bank can be seen from the RMS Voltage trend recording. At 6:13:00AM, just before the capacitor bank was connected to the transmission line the average voltage was 358 V and at 6:16:00AM the average voltage was 362V.

CapBankSw.PPF - RMS Voltage and RMS Current Graph  
06/06/2001 6:06:00 AM to 06/06/2001 6:25:00 AM



- RMS voltage trend during capacitor bank connection.