

15 ELECTRONIC CONTROL REPLACEMENTS FOR AVR'S

LERMA, NACHICOCOM, MAZATEPEC, MONTERREY & PUNTA PRIETA

During 2003 SEPAC actively participates in Generating Plants modernization supplying 15 Electronic Control Replacements for the AVR's installed in the mentioned Plants. By doing this CFE can count on reliable equipment for 15 more years of operation at 50% of the total substitution cost.

The 15 controls, were manufactured, tested and delivered between April and October of 2003, using our specialized team of more than 10 engineers on Control, Regulation, Power Systems and Communications.

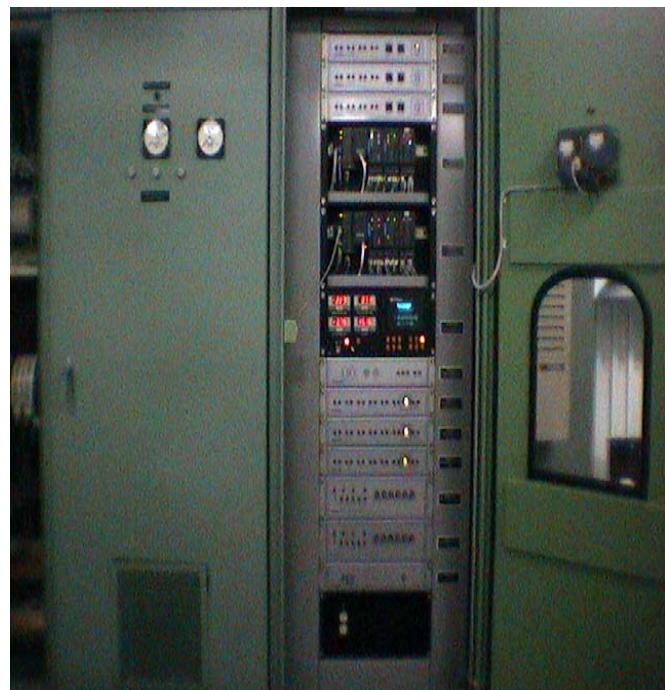
Another great advantage of this product is that it can replace ANY BRAND of Automatic Voltage Regulator allowing the user to modernize his installations with the cost saving advantage discussed earlier regardless of the original manufacturer..

We are the only manufacturer in Mexico that tests our products by controlling a small generator in Real Time, without the need of any simulation, achieving a 100% functionality test protocol.

Our systems have an integrated PSS function for network oscillation control and protection of the electric grid.

C.T. PUNTA PRIETA

- 3 electronic Control replacement systems for Thermo-electrical Plant Model RAV 1111 which include: Independent Automatic channel, independent manual channel, Local control panel setting and diagnostics software, touch screen for local interface.
- Units are 44.1 MVA.
- The first system was commissioned in December 2002.



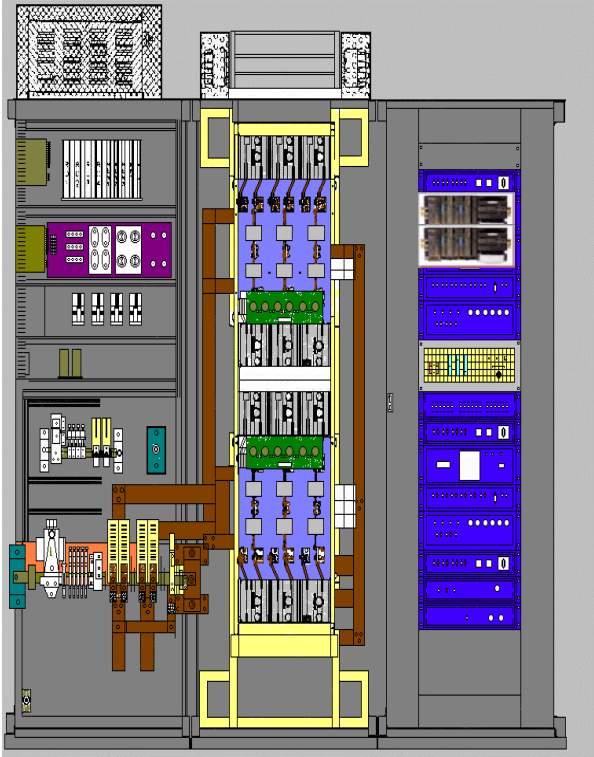
C.T. LERMA

- 4 electronic Control replacement systems for Thermoelctrical Plant Model RAV 1111 which include: Independent Automatic channel, independent manual channel, Local control panel setting and diagnostics software, touch screen for local interfase.
- Units are 44.1 MVA.



C.H. MAZATEPEC

- 3 electronic Control replacement systems for Thermoelctrical Plant Model RAV 1111 which include: Independent Automatic channel, independent manual channel, Local control panel setting and diagnostics software, touch screen for local interfase.
- Units are 58 MVA.



C.T. NACHICOCOM

- 2 electronic Control replacement systems for Thermoelctrical Plant Model RAV 1111 which include: Independent Automatic channel, independent manual channel, Local control panel setting and diagnostics software, touch screen for local interfase.
- Units are 28.8 MVA.

C.T. MONTERREY

- 2 electronic Control replacement systems for Thermoelctrical Plant Model RAV 1111 which include: Independent Automatic channel, independent manual channel, Local control panel setting and diagnostics software, touch screen for local interfase.
- Units are 88.2 MVA.