

## EXTREME CONDITIONS IN SEPAC EQUIPMENT



When extreme conditions are a determining factor for the performance of the equipment in the electric energy power plants, SEPAC has the proper solution to protect the excitation systems they provide.

Power plants such as the Geothermic Centrals in Cerro Prieto , Mexicali, B.C. and Los Azufres I, Michoacán, Mexico, are an example of these typical characteristics of extreme ambience conditions

The corroding gases that are found in these geothermic centrals, such as sulfhydic acid are the main enemy of the electrical and electronic circuitry.

For these reasons, SEPAC has developed various strategies to protect their equipments and ensure their proper longevity , as is the case of the Automatic Voltage Regulators for Units 1, 5, 6, 7 and 9 of the Cerro Prieto Geothermal power plant in Mexicali, Baja California, which is a part of the Interconnected International Network under the jurisdiction of WECC (USA).

The special strategies for SEPAC's equipment to prevent the harmful effects of these corrosive environments are:

- Covering with a chemical formula our circuits and electronic cards to prevent corrosion and the attack of chemical agents.
- Installation of protective shelters for the equipment with air filtering techniques, and air purification systems against the extreme environment of the machine rooms.
- Installation of industrial air conditioning equipment, designed to satisfy the thermal dissipation needs for the shelter and the installed equipment.
- Selection of equipment that comply with the maximum standards of severity for extreme temperatures and corrosive effects in conformity with the ISA 71.04 CLASS GX: SEVERE standard .



APRIL 2013

### MYFPRO S.A. DE C.V.

Fundidores 2 Bis Ind. Xhala  
Cuautilán Izcalli Edo. México  
Tel: (55) 5870 7555

### SERPRO S.A. DE C.V.

Fundidores No. 4, Fraccionamiento Industrial Xhala,  
Cuautilán Izcalli, Estado de México, C.P. 54750 MÉXICO  
Tel: (55) 5870 7555 Fax: (55) 5872 4065

### SEPAC CORP.

Miami, Florida EUA  
Tel: (305) 718 3369  
Fax: (305) 718 3369