

MANZANILLO II & VILLA DE REYES

Siemens and Sepac will supply 4 excitation systems for the Manzanillo II and Villa de Reyes CFE's power plants.

The project is part of the public bid published by CFE for SECODI systems, that Siemens was awarded.

Each power plant allocates two (2) 350 MW units.

CFE has required that the Manzanillo II units are supplied first and the Villa de Reyes units be supplied afterwards.

Sepac will supply, perform factory acceptance tests, install, energize, commission and train CFE personnel for the 4 excitation systems.

Each system will be interconnected with the overall control system supplied by Siemens.

The new generation Sepac systems include communications facilities that enables them to connect to the SECODI system at each power plant.

Sepac has manufactured 7200 Amp rectifiers for 350 MW machines for CFE since 1993, but on this project for the Villa de Reyes plant, CFE is asking for additional capacity, being these excitation systems the largest ever delivered to CFE.

The project starts on April 2, 2004, the first step is engineering and manufacturing of excitation systems **RAV 1111 3P 1000 F with a 6000 Amp capacity** for Manzanillo and **RAV 1111 3P 1500 F with a 9000 Amp capacity** for Villa de Reyes.

Each system includes an Independent Automatic Channel, Independent Manual Channel, Back-up Analog Channel, Local Control Panel, Protection and Communications Functions, Diagnostics Equipment in order to fulfill the project's requirements and specs.

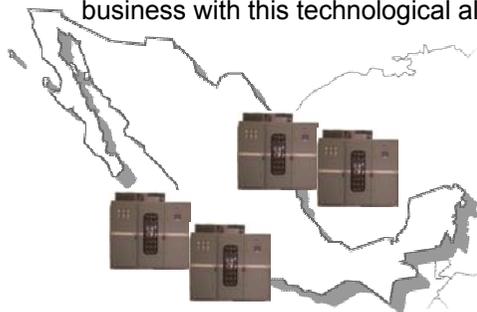
This project will be developed in a record-breaking timeframe because the first unit will be installed within the first 180 days after award of the contract. This represents an important challenge for Sepac given that these units are among the largest of the country.

Quality, planning, manufacturing, engineering and field support systems are already in place for the project. A very close follow-up plan is being implemented to insure the project's success.

CFE's efforts for their Power Generation Plants involve the use of state-of-the-art technology, integrating innovative control and communications techniques to the reliable systems developed through the years by World Class companies like Siemens and Sepac.

This project will be closely followed by each party involved because it represents one of the most reliable technological platforms for the modernization efforts happening in Mexico as well as in several other countries.

We are sure of the inevitable success of the project and of the benefits for CFE, this is why we are betting for future business with this technological alliance.



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