

## Turbine RTD's and Thermocouples

# Power Gen

Power Generation

**Customer:**

Comisión Federal de Electricidad (CFE)

**Location:**

Rosarito, Baja California, Mexico

**Background/Operations:**

CFE provides the generation, transmission, and distribution of electrical power to more than 27.0 million customers, nearly 80 million Mexicans users.

**Problem:**

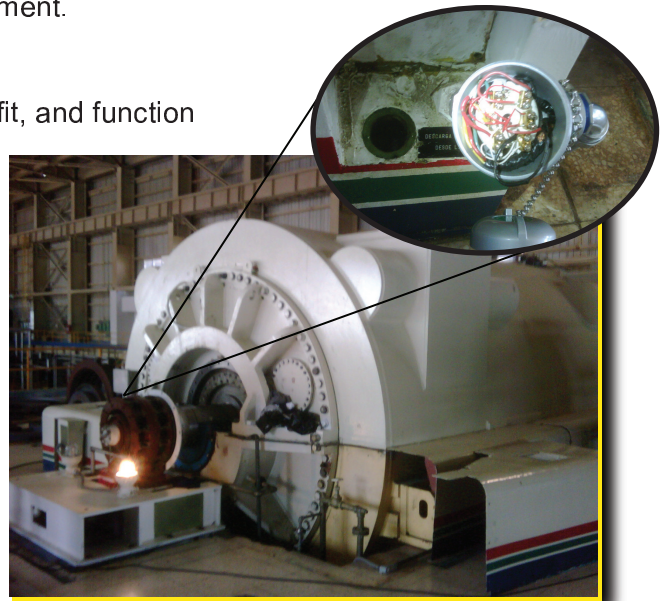
During a scheduled maintenance shutdown the CFE Rosarito Plant needed replacement RTD and thermocouple sensors for a number of their turbines. They needed delivery within 1 week. The original supplier (in Germany) had a 8 week leadtime, which would have delayed their schedule and resulted in lost production capabilities.

**Considerations:**

In addition to the long leadtime, the existing sensors were known to have a relatively short life span due to the temperature and vibration produced in the turbine environment.

**REOTEMP had 1 week to:**

- Design a sensor that would match in form, fit, and function while improving sensor life span.
- Manufacture and deliver prototypes
- Gain prototype approval

**Solution:**

A site visit was arranged to see the application firsthand and meet with plant engineers. After the visit, prototype sensors were designed and manufactured at REOTEMP's facility in less than 1 week. Upon approval, REOTEMP built replacement sensors for 8 turbines for immediate replacement. The sensors were installed in May, 2009 and have been in service with no issues to date.

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