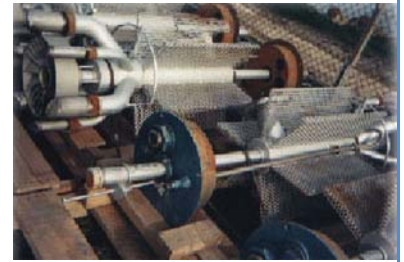


Burner Management System and Phase I NOx Reduction

Pacific Gas & Electric Company



LOCATION:

San Francisco, California

PROJECTS & SERVICES:

- Managerial & Technical Consulting
- Engineering (Mechanical, Electrical, I&C)
- Planning/Project Management
- Quality Assurance/Quality Control
- Operations & Maintenance
- Design

PROJECT OVERVIEW:

Source California Energy Services, Inc. (SCES) became involved with the restoration effort on PG&E's Hunters Point Unit 4 after their furnace explosion incident in 1999. Our involvement was specific to the purchase and installation of a Burner Management System (BMS) and the first phase of NOx reduction retrofit equipment purchase and installation.

The BMS was purchased, installed, and started up with state-of-the-art digital equipment taking full advantage of installation elements which could be placed pre-outage. The first phase NOx reduction utilized a number of new technologies, which are just now showing up more frequently on conventional fossil power generation units.

The effort included concept development, conceptual design, cost estimating, detail design, and construction management. This project required a multi-disciplined effort for solution design. Successful startup required educating O&M staff, new O&M and clearance procedures, and coordinating multiple equipment suppliers with construction forces.