INDUCED DRAFT FAN REPAIR

Project Case Study

OVERVIEW

LOCATION:
GULF COAST

PROJECT TYPE:
FIN FANS

SECTOR:
ENERGY

INDUSTRY:
REFINING

Unit efficiencies needed to be increased to meet market demands. The unit relied heavily on fin fans for cooling. Failures had left multiple fans out of service. The number of fans that were out of service did not allow the unit efficiencies to be achieved.

Situation - Temperatures ranging as high as 350 degrees F left very few options for conventional repair methods, which would have required a shutdown. During peak demand the fan shortage contributed to decreased production. Unique procedures offered by HRI were introduced as a solution. HRI's specialty trained employees, safe work plans and proprietary heat safe system allowed for safe and successful fan repairs.

SERVICES PROVIDED

- Temperatures in the shroud areas ranged from150 to 350 degrees F. The fans were removed, rebuilt and reinstalled.
- The blade angle of pitch was set while at operational temperature and allowed "motor amp usage" to be maximized.

SCHEDULING MANAGEMENT

HRI worked with the plant maintenance team to complete the work on multiple fans which allowed the plant to realize expected equipment productivity.

RESULTS

The project was completed safely, on schedule and on budget. By completing the repair on-line, the client was able to avoid a costly shutdown of the Unit and was able to return to normal production rates.

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