

REPAIR AND FABRICATION OF COMBINED EXHAUST GAS BOILER

STEP 1 - Situation: arrived onboard Chemical vessel in Southern Spain to inspect Boiler - view through the burner opening quickly revealed that, the furnace had sagged from the sides, Furnace Shell, Bottom Tube plate and waterside boiler tubes had been ripped and melted due to lack of water.



View from Burner Opening



View of Deformed Top TubePlate

STEP 2 - Challenge: Vessel was given 6 month delivery period of new boiler supply by manufacture, meaning that ship would be off hire during prolonged period. To fabricate new furnace shell plate, waterside tube plate and replace all boiler tubes within time charter plan.



Furnace Plate being delivered

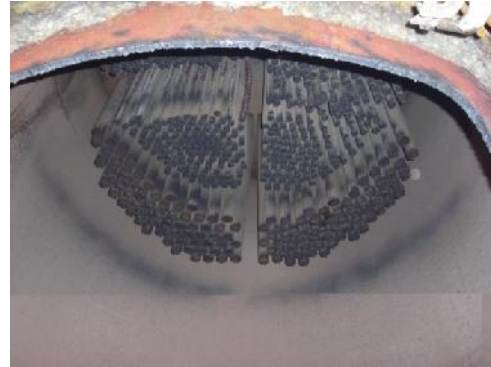


Marking of tube plate in workshop

STEP 3 - Action: Cut and remove all damaged areas, clean and grind out weld up by GTAW and SMAW. Repair procedure to be approved via Manufacturer.



Removal of damaged areas



Suspended tubes on Top tube plate



Cleaning and grinding Top Tube Plate



Welded tubes using GTAW and SMAW

STEP 4 – Result

- Completion 16 days
- Pressure test approved
- NDT passed and approved
- Class approved
- Manufacturer recommendation on job duration
- Satisfied client