

KLINGER CASE STUDY

Cottam Power Station

» OVERVIEW

As part of our on-site machining capabilities, KLINGER worked on this scope to support Doosan and Steam Turbine OEM with the removal of the turbine HP barrel for a major overhaul. KLINGER skilled field service personnel worked day/night shifts adopting a right-first-time approach. Quality machining work completed error-free and to schedule and budget.

» CHALLENGES

Working within a team of end-client, turbine OEM, and KLINGER clients to a tight program, whilst adopting QHSE policies, and procedures. Main HP steam pipe large diameter and a wall thickness of 110mm in 12CrMo steel. One of the pipe diameters was a lot bigger than advertised at engineering stage and wall thickness was greater. Working to a strict and tight program for work to be completed with various personnel.

» SOLUTION

KLINGER offered the client a total integrity solution where we used cutting machinery to cut through pipework to ST casing and machine weld preps on all cut ends for re-welding.

- » HP Barrel to Valve pipe – 440mm Dia x 110mm wall thickness – 12CrMo steel
- » IP Hot ReHeat pipe – 480mm Dia x 17.5mm wall thickness – 10CrMo steel
- » Cold ReHeat exhaust pipe – 559mm Dia x 14.2mm wall thickness – 16Mo3 steel
- » Some small bore gland pipe cutting



Cuts completed in quicker timeframe than had previously been seen for similar scopes



Work scope completed to schedule and within turbine OEM work plan



Excellent positive feedback received from Doosan and end-customer

