



HFS HEAVY INDUSTRIES SDN. BHD.

Power Generation Division



CLIENT

Malakoff Power Berhad

PROJECT

Malakoff Prai Power Plant - Major
Outage July 2017 HRSG Scope

LOCATION

Prai, Penang, Malaysia

WORK TITLE

Design, Supply and Install of Flow Corrective
Device (or others called FDD : Flow Distributor
Device) for HRSG Inlet Flow Improvement

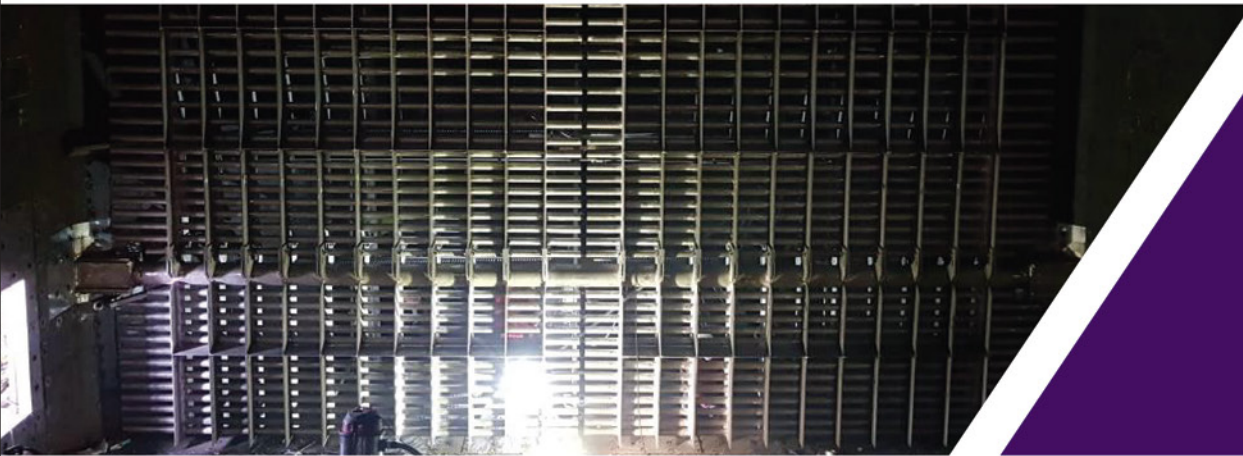
HRSG INLET FLOW IMPROVEMENT



ISO 9001:2015 Reg. No: 17148A-A



OHSAS 18001:2007 Reg. No: 17148A-I



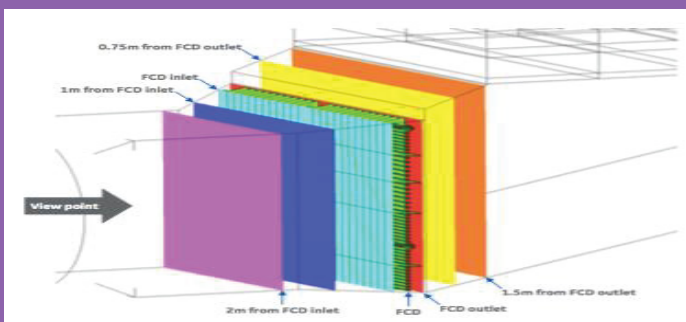
OBJECTIVES

- ▶ To improve flow distribution for the HRSG inlet by eliminating the uneven flow towards the HRSG tubes.
- ▶ To design, fabricate and install a Flow Correcting Device (FCD) assembly that shall be able to withstand the varying exhaust flow from the gas turbine.
- ▶ To improve reliability and eliminate unplanned outages of the HRSG on both short and long terms resulted from HRSG HPHTSH tube failures.

SCOPE INCLUDES

- ▶ CFD (Computational Fluid Dynamics) Study.
- ▶ Stress Analysis and FEM (Finite Element Analysis Study).
- ▶ Engineering and Detail Designs.
- ▶ Fabrication and Installation of New FCD on site.

SECTION POSITIONS BEFORE AND AFTER FCD



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