



HFS HEAVY INDUSTRIES SDN. BHD.

Power Generation Division

HP ECONOMIZER PARTIAL TUBE REPLACEMENT



CLIENT

YTL Power Seraya Pte. Ltd.

PROJECT

Major Outage Jan 2018 (Unit 40) & July 2018 (Unit 30)

LOCATION

Jurong Island, Singapore

WORK TITLE

Design, Supply and Replacement of New Improved Design Bend Tubes for HP Economizer #4 and IP-EVA (Total 522 T11 Tubes)



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



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

OBJECTIVES

- ▶ To improve enhancement of the components under cyclic operations in terms of the induced thermal stresses and FAC (Flow Accelerated Corrosion).
- ▶ To improve reliability and eliminate unplanned outages of the HRSG on both short and long terms, resulted from HRSG tube failures.

SCOPE INCLUDES

- ▶ Design, Supply and Manufacturing 522 nos of low alloy bend tubes (SA213T11) for HP-ECO#4 and IP-EVA.
- ▶ To conduct Strength Calculation with Third Party and Singapore MOM (Ministry of Manpower) Approval.
- ▶ To perform 'Cut in and Weld Out' method in-situ complete with 100% NDE on all weldments and PWHT on Header to stub joint.
- ▶ To complete all tubes replacement works within 30 days.
- ▶ To conduct full hydrostatic test and witness by MOM.



**HFS HEAVY INDUSTRIES
SDN BHD**

Head Office

No.11, Jalan Ekoperniagaan 1/29,
Taman Ekoperniagaan, 81100 Johor Bahru,
Johor Darul Takzim, Malaysia

T +607 871 1188

F +607 871 1199

E enquiry@hfsheavy.com

W www.hfsheavy.com