



HFS HEAVY INDUSTRIES SDN. BHD.

Power Generation Division

CONDENSATE PRE-HEATER HARP 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 Install New Improved
Design of Condensate Preheater EC-PR#3
Harps (Total 12 Nos of Harps)



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



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

OBJECTIVES

- ▶ To improve lifetime of the components under cyclic operations in terms of the induced 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 12 nos of Condensate Preheater Harps with new improved design on enhanced stub tube bends.
- ▶ To conduct Stress Analysis and Strength Calculation with Third Party and Singapore MOM (Ministry of Manpower) Approval.
- ▶ Heavy Transportation and Lifting from Korea to Singapore by Chartered Barges and SMPT loader for inland transportation from port to site.
- ▶ Preservation and Monitoring of Harps during Storage at Client's facility prior to Installation (6 Months Interval).
- ▶ Removal of existing ECRP# Harp and replacement with new improved design harps within 30 Days for #1 Unit Cogen.
- ▶ 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