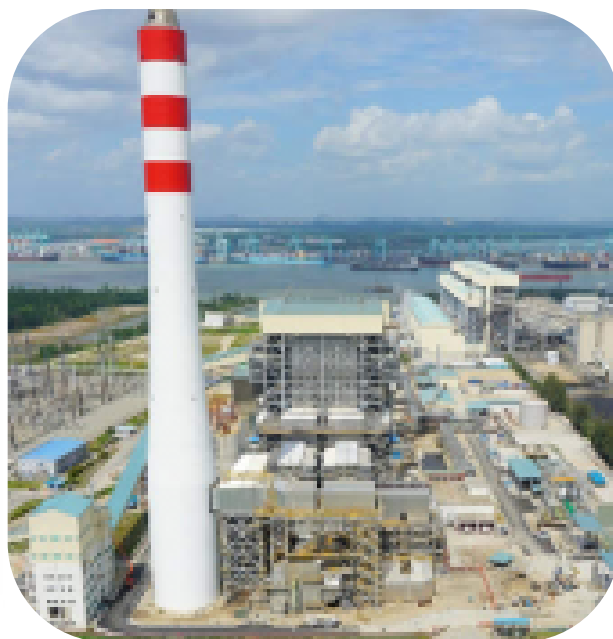


CASE STUDY

PIPE HANGER CONDITION ASSESSMENT FOR HRSG AND BOP *Sample*

Project: HGPI Outage & MI Outage

Location: Telok Kong, Melaka, Malaysia



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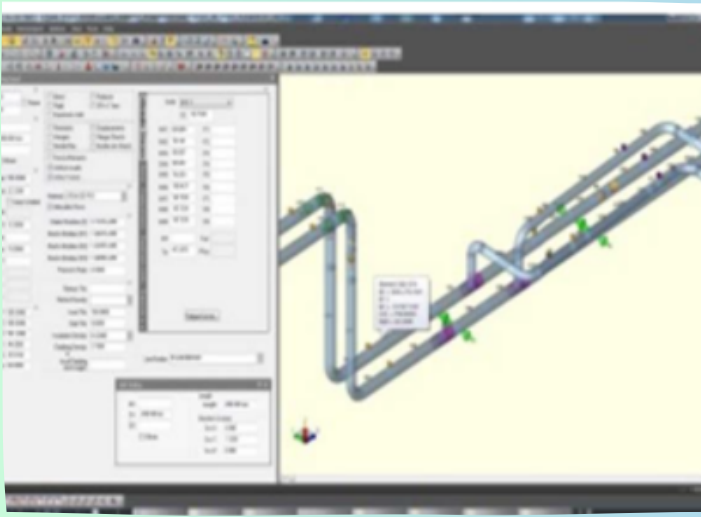


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STRESS ANALYSIS



OBJECTIVES:

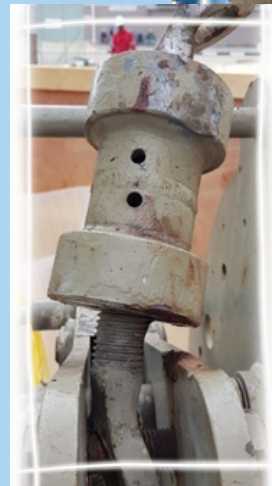
- 1.To improve enhancement of the components under cyclic operations in terms of the induced thermal stress and expansion for high energy pipe.
- 2.To improve reliability and eliminate unplanned outages of the HRSG on both short and long terms, resulted from high energy pipe failure and/or damage.

SCOPE INCLUDES:

- To perform engineering study for current operation regime, design, and repeat failure mechanism for high energy piping of HRSG and BOP.
- To perform engineering study for pipe stress analysis.
- To perform site inspection of pipe and hanger system during hot and cold condition.
- To provide full package of condition assessment report.
- To adjusted and balanced load of pipe hanger according to inspection and engineering results.
- To provide engineering drawing for replacement parts.
- To replaced new pipe supports (MI outage)



Damaged pipe supports



New pipe supports replaced