



CORROSERV (M) SDN BHD

CASE HISTORY ~ CH0201

REHABILITATION OF DEAERATING CHAMBER

THE CHALLENGE: Currently, the Deaerator Chamber storing steam water is leaking at 2 locations which are at the top dome and weldment area of the stiffener ring. Based on the site visit report from client, the top dome has three defect points which are at the ladder lug, external lug and the circumferential weld seam. For the weldment area of stiffener ring, there are multiple cracks along the stiffener ring weldment area. Therefore, they need information on the available repair system to rehabilitate the entire vessel online to its design pressure and design temperature without a need for shut down

THE SOLUTION:

Surface Preparation	SSPC-SP10 (Near White Blast Cleaning) by utilizing dry abrasive blasting
Priming	Corro Chem 330 HHA (Resin)
Interface	Corro Chem 330 HHA (Resin)
Corro Wrap Wet Lay-Up	CRBX650 + Corro Chem 330 HHA
Top Coat	Corro Chem 330 HHA (Paint)

Although Corro Chem 330 HHA was applied during shutdown, it is a solvent free epoxy system that can be applied online resisting temperature up to 125°C and intermittently up to 149°C. Corro Chem 330 HHA can be applied online even while experiencing fluctuating high operating temperatures

THE RESULT: The composite laminate application was applied as per the standard repair procedure. The client was satisfied with the repair system that able to seal the leak and rehabilitate the vessel to its design pressure and design temperature.



Figure 1.0 shows the defect point of the deaerating vessel



Figure 2.0 shows the condition of the deaerating vessel after application of rehabilitation system

APPLIED SYSTEM:
CORRO WRAP WET LAY-UP

YEAR:
2018

LOCATION:
SINGAPORE

NO SEA TOO DEEP, NO JOB TOO TOUGH!