



Client / Contractor:



Acid Plant FRP Internal Beam Replacement on Gas Scrubbing Tower

Job category: Maintenance

Scope of work:

Basetec were engaged by BHP Billiton Olympic Dam to inspect, engineer and replace the steel lined FRP Beams inside the FRP Hallide Tower in the acid plant. The existing beams had completely corroded causing all of the scrubber internals to collapse.

Basetec were able to carry out an integrity review on the internal structure to allow us to enter the vessel safely. Once this was done we were able to remove all of the internals and replace them with new FRP Beams, this was considered challenging by most due to the span and the loading on the beams, however Basetec managed to carry out beam analysis and FEA to allow us to engineer the right solution.

The project was a major success and was carried out in a 6 day shutdown period which most thought was impossible to achieve.

Relevant standards:

- BS4994
- AS2634

Materials used:

- Novafast 1000

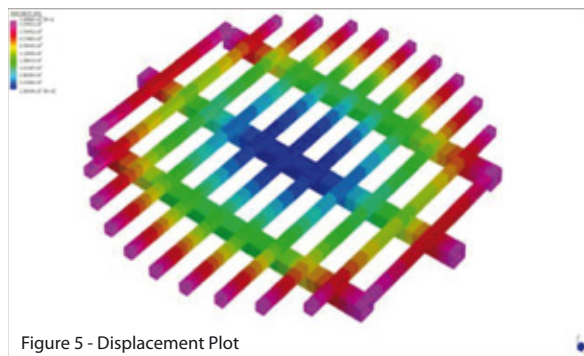


Figure 5 - Displacement Plot

Services

- Site Maintenance
- Refurbishment Services
- FRP Engineering
- Concrete Treatments
- Protective Floor Coatings
- Water Proofing

Products

- Air Pollution Systems
- FRP Tanks & Pipe Systems
- FRP Scrubbers & Ducting
- Fibreglass Linings