



Volume 2 Issue 3

CASE FILE

CONTAINMENT WAS PARAMOUNT! Turbine Condenser Repair Made Easy...

The Customer

Sugar Mill, Queensland, AUSTRALIA

The Application

Turbine condenser, located in the Turbine Room which housed sensitive and critical equipment. Blasting residue and dust containment was paramount.



Half Blasted



Coated Quarter



Half Coated



Containment
for Sponge-Jet
blasting



Finished End

The Problem

Tube face on each end of the turbine condenser was suffering from corrosion, with pitting 3-4mm deep around the tubes. Tube face was 4.5 meters in diameter, and consisted of 5470 x 22mm bronze tubes.

The Products Used

Sponge-Jet
Belzona® 1391

The Substrate

Carbon Steel

The Application Method

Entire face was stippled with Belzona 1391 by brush. This ensured minimal amount of coating entered into each tube. Once complete, a new brush was used to smooth the face out. A second coat was then added, within 30 minutes of the first coat being applied, using the same method. Once cured, each hole was ground with a die grinder, to center, and then drilled to remove unwanted coating.

The Outcome

Blasting was completed using Sponge-Jet. This enabled dust and media to be contained relatively easily.

Chloride levels were checked, and found to be very low following the blasting process - (<7PPM).

Typically the profile achieved was around 120 micron.

