

“1960’s Low Alloy Casting Weld Repair with Microstructure Replication”

Louise Petrick, Senior Welding Engineer, Materials & Welding Solutions

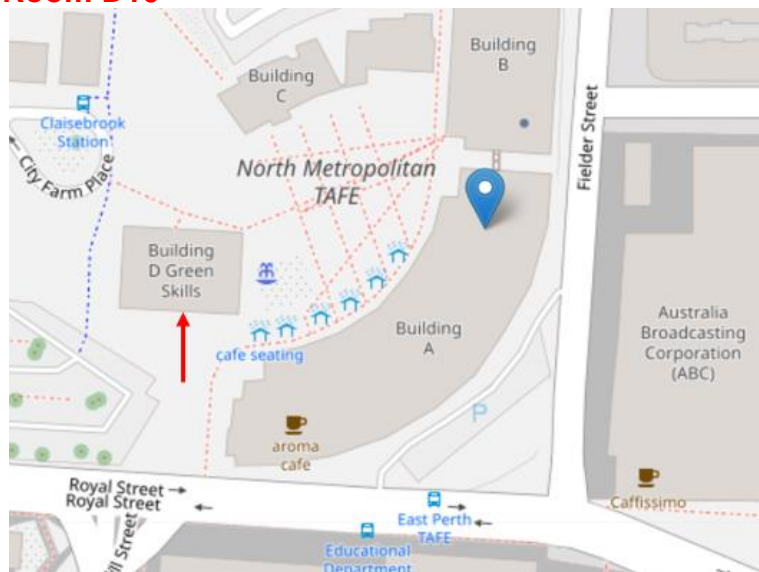
High pressure, low-alloy steel casings produced with 1960’s casting technology proved to be difficult to weld repair, with the first two attempts failing. Microstructural evaluation through replication and chemical analysis over the whole casting, enabled engineers to design a successful weld repair to refurbish the castings and return them to service. This case study presents the difficulties identified, the investigations done and the solutions implemented to achieve a successful weld repair.



Louise Petrick is a Senior Materials and Welding Engineer with Materials and Welding Solutions. She provided materials and welding consulting support through Weld Australia, where she worked for 6 years, after working almost two years at Synergy, supporting Muja Power Station. Her power generation experience started at Eskom in South Africa, where she spent 8 years. Before that, Louise was an engineer at Mintek, working in their corrosion laboratory and she started as an engineer-in-training at Highveld Steel and Vanadium after completing a research masters at the University of Pretoria in welding and corrosion of stainless steel.

Time: Finger food and refreshments start at 6.00pm, presentation commences at 6.30pm
North Metropolitan TAFE 140 Royal St (cnr Fielder St), East Perth

Building D, Level 1, Room D10



Cost: MA&ACA Members \$20, Non-Members \$25

RSVP: By 12 pm on Friday 5 Aug 2022

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