Snowy Hydro Limited Murray Two Power Station Khancoban Project

Nuflow Albury-Wodonga were contracted by Snowy Hydro Limited to use their relining technology to repair a 150mm compressor line, at the Murray 2 Power Station. This stainless steel pipe which has working pressures of 750KpA had been identified to be leaking.

Access to the pipe that required investigation and repair was particularly awkward, as it was embedded in a suspended concrete floor within the multi-level power station, reachable only by ladder.

CCTV Inspection

The inspection of the pipe found numerous stainless steel welds throughout it's distance. One of these welds in particular had failed, due to stress and vibration caused by continuous high working pressure. These spiral weld joints on the inner circumference made an ideal bonding condition for the liner to adhere.

Results after relining

Nuflow Albury Wodonga performed another successful reline!

Excavation: none
Length of liner: 2.8m, one continuous 150mm liner without bends.
Resin used: Fast cure
Downtime: The procedure was completed in 4 hours coinciding within the facility's rotational maintenance schedule. This meant zero downtime to the vital operations of the power station.

Alternatives

An alternative to relining of this project would have been a challenging process involving replacing the damaged pipe embedded in a concrete wall approximately 2.5m thick, underneath a generator. This generator would have been inoperable whilst works were completed, a process estimated to take four weeks to repair and recommission.

Using the **Nuflow relining method** to carry out this repair ensured that any inconvenience to the facility was kept to a minimum. The leaking pipe was sealed in the internal circumference restoring the structural integrity of the pipe.