



PROJECT SNAPSHOT

TOXFREE PROVIDE 24/7 WATER BLASTING FOR CRITICAL WORK AT ORIGIN ENERGY ERARING POWER STATION

The issue

Boiler three at the Origin Energy Eraring power station needed to be shut down after a 30 meter chunk of 'clinker' developed against the boiler wall. Clinker is an incombustible residue, fused into an irregular lump that remains after the combustion of coal. The issue was critical for the power station as the closed boiler meant decreased energy output from the site, causing a severe loss in revenue for Eraring station. Origin Energy needed the clinker removed as fast as possible in order to have the boiler up and running again.

The solution

Toxfree are contracted to provide Industrial Services to Origin Energy and were called to the job in the morning, Toxfree had a team onsite to begin work within three hours. The clinker was removed through high pressure water blasting using both a handgun and tank head applications. The pump pressure during the tank head phase required approximately 70 liters of water per minute. The Toxfree team worked together with Origin on site to customize tank head support bars in order to gain deep access inside the boiler, close to the clinker. Toxfree staff rotated work on the clinker in line with stringent fatigue management requirements, whilst also servicing existing clients on other projects.

The outcome

The team of Toxfree operators was mobilised around the clock, after 11 days the clinker was gone and the boiler was ready for use again.

"Origin Energy Eraring appreciate the lengths Toxfree went to, to ensure our needs were met in a critical situation. The tasks undertaken were of a hazardous nature with time constraints, taking into this into consideration it was pleasing to see the safe approach that resulted in an incident free outage of which Toxfree played a vital role. Origin Energy Eraring appreciates Toxfree's efforts and look forward to more great results in the future."

- Ben Stevens, Origin Energy



Appreciation award from Origin Eraring Power Station to Toxfree with the large piece of clinker attached.