

# Zero Leaks on Nearly 1,000 Flanges in a Joint Integrity Management Project for Western Mining Corporation



## Overview

As part of a Joint Integrity Management scheme, a 20-strong TEAM team successfully removed, overhauled and reinstalled of 970 critical flanges in less than four weeks.

**Project:** Overhaul and Reinstallation of 970 Critical Flanges

**Location:** Western Mining Corporation Phosphate Hills Australia

**TEAM Service:** On-Line Leak Sealing and Repair

**Need and Challenge:** Removal, overhaul and reinstallation of 970 critical flanges, during a scheduled outage at the Phosphate Hills fertiliser plant in Queensland.

## Solution and Outcome

As part of a Joint Integrity Management scheme, a 20-strong TEAM TEAM (comprising project manager, safety co-ordinator, engineer, leading hands and 15 technicians) undertook the project in less than four weeks, including torquing/tensioning 970 LG/SM groove, ring joint (RTJ), ANSI and metal-to-metal face flanges.

The work scope included inspecting and overhauling sTEAM traps; inspecting, lapping and overhauling gate and globe valves; working on components in the syngas and turbine compressor and on the refrigeration skid (under WMC TEAM leaders); removing and reinstating 170 PSV valves; and inspecting all critical joints.

TEAM (which supplied core services at the plant including leak sealing, controlled bolting, hot tapping, in-situ machining and general fitting as well as engineering advice) was also involved in preparation for the outage during the 6 months prior, comprising the bill of materials for all vessels, PSVs and exchangers in the ammonia plant. Two TEAM technicians were deployed on a two weeks on/two weeks off roster to undertake the work, from January to June.

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The work was successfully completed within a total of 4,852 hours on day shift and 768 hours on night shift, with zero leaks reported on start-up.

*This work may have been performed by a company subsequently acquired by TEAM.*

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