



Roy Hill Crusher Remediation Project

PROJECT DETAILS

Centrals were engaged by the vendor of the Crusher Lines in the Roy Hill Mine to perform structural modification to correct and strengthen after critical failures and damage caused during commissioning of the crusher line systems (including feed hopper, apron feeder, primary and secondary sizers, vibrating screens and associated structures). Modifications were required on three separate crusher line systems located with two ROM's.

1. Installation of hopper side wall supports beam bracing and installation of hopper back wall support beams to strengthen hopper structure and prevent movement.
2. Installation of beams and horizontal jacking frames, and jack feed hopper back to design alignment off the apron feeder.
3. Installation of hopper insert/internal modifications to modify the feed of ore onto the apron feeder.
4. Modifications to the feed hopper support k-braces for strengthening.
5. Modifications of the torque arms and t-rex arm pad extensions.
6. Modifications to impact bed idler frames and installation of new heavy duty idler frames to strengthen and prevent failure.
7. Replacement of feed hopper bin wear plates and application of anti-friction coating
8. Installation of impact beam and fabrication and installation of surge bar to primary sizer.
9. Replacement of primary and secondary sizer bin wear liner plates and remediation of parent material damage.
10. Modification and adjustments to vibrating screens.
11. Miscellaneous modifications to walkways, handrails, and guarding.

Client: Tenova TAKRAF
Location: Roy Hill Minesite, WA
Duration: 6 months
Completion: July 2016
Value: \$3.5M



PROJECT HIGHLIGHTS
Personnel on Site: 50
Manhours: 6,520

