



ACACIA RIDGE TRACK RENEWAL PROGRAM

PROJECT PROFILE

March 2016

Detailed Scope Overview

RMC Rail was engaged by Aurizon to conduct a major renewal program in Acacia Ridge Yard (Brisbane, QLD):

- Replacement of 2 x 47KG 1 in 8.25 Standard Gauge Timber Turnouts with New 60KG 1 in 9 SG Turnouts installed on FFU Bearers
- Replacement of existing 1 in 9 47KG Type D Dual Gauge Turnout with New Concrete 60KG Dual Gauge Turnout
- Renewal of sleepers and ballast on 1450m existing Standard Gauge Track
- Install of Level Crossings and Walkways

Project Challenges

Project required careful integration to enable completion around the operating requirements of the Yard. This meant undertaking works in both ARTC and Single Line Possessions in order to ensure continuity of supply for both Aurizon and Pacific National Customers.

Key challenges included:

- Completion of Track Renewal on Arrival Road 1 whilst maintaining access for Operation on Arrival Roads 3 – 9
- Installation of 1 in 9 Dual Gauge Turnout to align into existing crossover while maintaining access for rail Traffic to utilize the adjacent track for access to Narrow Gauge Freight Yard
- Tight access and lack of room for plant and equipment, materials and spoil required the need for development of innovative approaches to construction
- Works were successfully integrated to be performed alongside day to day operations including Container Loading / Unloading as well as shunting and train operations



Innovative Delivery

RMC Rail utilized Milling Equipment from Stabilized Pavements Australia in order to conduct ballast removal while eliminating the risks associated with Slewing Equipment in Single Line construction activities. This approach allowed for the removal for over 3000t of foul ballast in a single shift while continuing to maintain access for Yard Operations.

Integrated planning with the client allowed for the supply of rollingstock for sleepers to be layed directly off flat top wagons placed on the adjacent track. This removed approx. 500 plant movements through the operating yard.



Value Adding

RMC Rail in conjunction with CQ cranes developed a Dual Lift Plan for the install of 2 x 60KG Standard Gauge FFU Turnouts over the top of the existing Signal Structures, eliminating the risk associated with Build In-Situ Construction on New Turnout Designs.

FAST FACTS

\$2.15M

Project Value

3 Turnouts
1450m Track Renewal

Scope Achieved

0 Train Cancellations

Despite delays with inclement weather, critical assets were handed back on time to minimize impact

0 Incidents

CLIENT REFERENCE

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