

De-Construction and Demolition

MINING & METALS | PLANT & MACHINES

Introduction

Andvare's key personnel have extensive experience in the de-construction and demolition of fixed and mobile plant for the bulk materials handling, oil & gas and mining industry. This includes mine and export facility machines (stackers, reclaimers and shiploaders) as well as plant infrastructure both for process and non-process.

Andvare's team of experienced engineers use dynamic, static and non-linear 3D modelling techniques to determine the structural integrity and weaknesses that will allow the safest, most economic deconstruction or demolition methodology.

Relevant projects undertaken by Andvare's key resources include:

- Nelson Point Stacker STK3 and Reclaimer BWR3
- SS114 Demolition
- Finucane Island Berth C
- Mt Whaleback Stackers STK1 & STK2
- Nelson Point Shiploaders SL1&2

Key Capabilities

- Use of 3D modelling to simulate the felling of structures
- Analysis of strength of redundant structures
- Development methodologies and detailed sequencing for the deconstruction and systematic demolition of both fixed and mobile plant & machines
- Site management and supervision of demolition contractors in deconstruction works
- Accurate prediction of structure and member movement during deconstruction, felling or demolition phases
- Failure analysis methods and catastrophic failure prevention modelling

