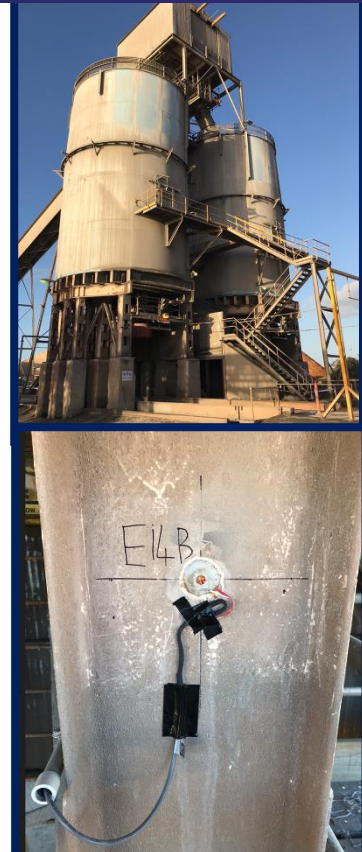
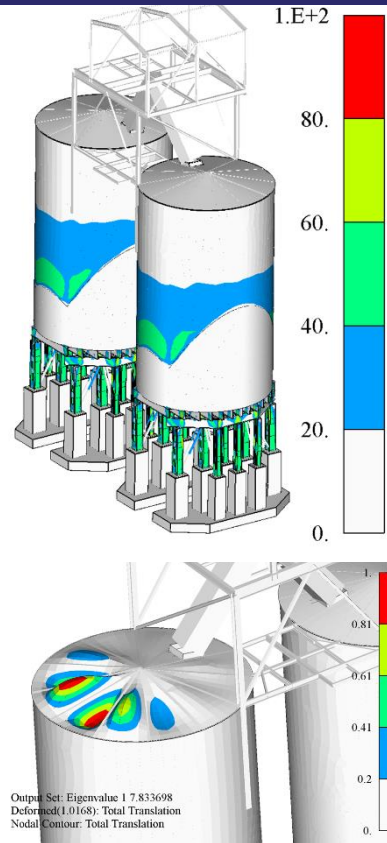
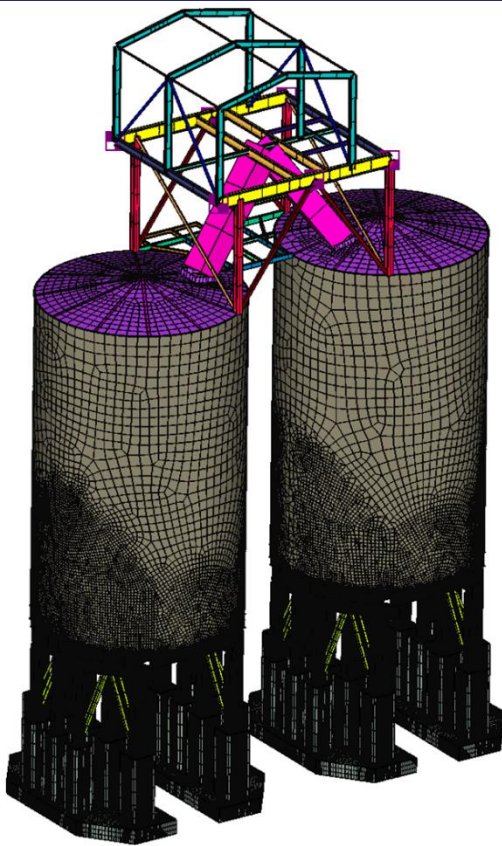


## PROJECT OVERVIEW



# Bulk Silo's Structural Integrity Project

Kwinana, Western Australia

## PROJECT OVERVIEW

### Project Scope:

EDC was engaged to conduct advanced modelling and measurements to assess the structural integrity of the two Silo's and their supporting structures to ensure the facility remains in operation until the replacement is available.

### Challenge:

FEA model development was challenging due to inadequate information on current plate thicknesses and supplied drawings not representative of the actual structure.

### Success:

- Thickness testing and site surveys were undertaken to develop an accurate FEA model for advanced simulation for stress, fracture and buckling analysis.
- Analysis determined that the facility could continue to operate through continuous load monitoring and structural inspections based on pre-determined high-risk areas.

**CLIENT:** Fremantle Ports

**SITE:** Kwinana

**DURATION:** 2018 - Ongoing

