ECL
ENGINEERING CONTROL

CASE STUDY
Marine Loading Arm

OUR CLIENT:	**Methanex – Port Taranaki**
INDUSTRY:	Chemical
VALUE:	NZ$150K
OVERVIEW:	Methanex utilize two marine loading arms to load ships with Methanol from a local tank farm. One of the loading arms was mechanically and electrically obsolete. Due to the busy ship loading schedule the risk of not having both loading arms in service was assessed as high. A project was initialized to install a new loading arm, with the obsolete PLC system being replaced by a Hima HIMatrix F60 SIL3 rated safety PLC.
ENGINEERING:	An ECL TÜV certified functional safety engineer was involved from the design of the controls system and development of the project documentation to testing and commissioning of the loading arm. Communications were via Modbus TCP/IP to the existing site Honeywell Experion DCS. The commissioning was scheduled to minimize disruption to the ship loading schedule using the remaining loading arm.

- The commissioning was successfully completed with minimal disruption to the ship loading schedule
- The project was completed on time, within budget and with no lost time incidents

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