

## CASE STUDY

### Utility Boiler Controls Upgrade

<b>OUR CLIENT:</b>	<b>Methanex - Motunui</b>
<b>INDUSTRY:</b>	Chemical
<b>VALUE:</b>	NZ\$150K
<b>OVERVIEW:</b>	<p>The utility boiler is used to supply medium pressure steam for outages, restarts and normal running. If the plant shuts down the utility boiler is required to supply the steam to restart. The control system PLC for the boiler was obsolete and identified as a risk for plant availability and restarting of the plant.</p> <p>In addition to a full mechanical refit, the control system PLC was to be replaced with a Hima Safety SIL3 rated PLC. The new control system was to be designed to comply with current NZ guidelines (NFPA 85 and AS/NZS 3000:2007).</p>
<b>ENGINEERING:</b>	<p>An ECL TÜV certified functional safety engineer was involved from the design of the controls system, development of the project documentation, through to testing and commissioning of the boiler. A Hima HIMatrix F60 safety SIL3 rated PLC was utilized, communicating with the existing site DCS via Modbus TCP/IP.</p> <p>The commissioning of the boiler was scheduled during a plant shutdown and had to be successfully completed to allow the plant to restart.</p>

- The commissioning was successfully completed within the shutdown, allowing the plant to restart
- The project was completed on time, within budget with no lost time incidents.

