

CASE STUDY

LPG Loadout Transaction Database

OUR CLIENT:	Vector - Kapuni
INDUSTRY:	Oil and Gas
VALUE:	NZ\$150K
OVERVIEW:	<p>The LPG loadout system controls tankers entry to the Kapuni site, loadout, and filling of tankers with LPG. The LPG loadout transaction database (LPG-LTDB) is an integral part of the system.</p> <p>Once a tanker is loaded, the details are stored in the LPG-LTDB, Bill of Lading and Dangerous Goods dockets are printed and given to the driver.</p> <p>The LPG-LTDB has a user interfaces in the site reception and the IT server room.</p> <p>The existing system made up of ; GUPTA database, user interface, reporting, printing and communications between the PLC, DCS and server was slow and difficult to operate.</p> <p>It was decided to replace the system with a Microsoft Access / SQL based system to improve functionality, reliability and availability.</p>
ENGINEERING:	<p>ECL engineers were responsible for the design, configuration, coding, installation, testing, commissioning and documentation of the new system, made up of the following components;</p> <p>Microsoft Access 2010 front end user interface. Microsoft SQL Server 2005 for data storage. Rockwell RSSQL / RSLinx for data retrieval from the field. Communications upgraded to Ethernet fibre between the PLC, DCS and printer. Colour laser printer prints Bill of Lading and Dangerous Goods dockets automatically.</p>

- The commissioning was completed during planned shutdowns to minimize the downtime for the site.
- The new LPG-LTDB system has improved functionality, reliability and availability.



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