

CASE STUDY

Functional Safety Consulting

OUR CLIENT:	RedBull Powder – Kopako Production Facility
INDUSTRY:	Explosives
VALUE:	NZ\$50K
OVERVIEW:	<p>The RedBull Powder is NZ's leading manufacturer of commercial explosives, and produces a range of emulsion and packaged explosives for the aggregates industry.</p> <p>As part of RedBull Powder's adoption of the IEC-61511 functional safety standard to reduce process risk and increase safety at their Kopako Production Facility, ECL were engaged to assist with functional safety lifecycle consulting services.</p>
ENGINEERING:	<p>ECL TÜV certified functional safety engineers are responsible for the facilitating:</p> <ul style="list-style-type: none"> • Layer of Protection Analysis(LOPA) & Study Safety Integrity Level (SIL) study • Safety Requirement Specification (SRS) generation • SIL Design Verification • Functional Safety Lifecycle Management documentation & auditing <p>A multi-disciplined team attended the LOPA & SIL Study facilitated by ECL. SRS generation, working with incumbent contractors to deliver the required safety upgrades and verification of the design are a work in progress.</p>

- LOPA & SIL Determination studies have been completed and approved by RedBull using quantitative techniques, and the recommendations independently verified by a SOFAIRP workshop.
- SRS authoring & subsequent Safety System delivery in progress.

