

AlertSafe™ - North Western Program Alliance

Background

NWPA is part of the Level Crossings Removal Project (LXRP). LXRP was established by the Victorian Government to oversee one of the largest rail infrastructure projects in the state's history. NWPA has recently completed a project that required a 93-day occupation, considered to be one of the longest ever in rail construction.

Business Requirements

LXRP requirements involved a series of intensive, time-critical projects where engineers and tradesmen typically work 12 x 13-hour shifts with two days off. Even for short projects, this has resulted in high levels of reported fatigue, and a degree of dissatisfaction and burn-out. NWPA identified that the risks associated with working long hours, including night shifts, across a 93-day occupation would not be acceptable or comply with legislative obligations. It was determined that a comprehensive fatigue risk management system (FRMS) was required, including the implementation of roster scheduling software to design, assess and manage rosters.

The Solution

NWPA engaged Opturion for several elements:

- Identify the optimal on-site staffing requirements based on the project plan;
- Create roster pattern options with acceptable levels of fatigue risk and aligned with best practice hours of work principles (created in consultation with FMSSA);
- Implement the chosen rosters within AlertSafe® rostering system and provide training for 250 staff and roster administrators;
- Support the use of AlertSafe® during the occupation.



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Customer Outcomes

In consultation with NWPA, Opturion identified effective ways to reduce fatigue-related risks associated with hours of work:

- Analyse the existing shift patterns to confirm high levels of potential fatigue risk;
- Reduce the number of engineers on shift with a combination of long day shifts and on-call, rather than 24x7 cover for senior or specialist engineers;
- Reduce the number of consecutive shifts from 12 to six when 24/7 coverage is required, and provide two consecutive rest days;
- Change from a two-shift to a three-shift system, with an 8-hour night shift and 10-hour morning and afternoon shifts;
- Have a complete record of attendance and documentation on hours of work exceedance and mitigation measures taken;
- NWPA completed the 93-day project two weeks ahead of schedule and are currently reviewing the results, with positive early indications.

Further Information

Please contact Opturion for a demonstration, or give us some data that we can use to identify potential benefits.



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