Trustpower's Safety Climate Experience

Executive Summary

Trustpower has H&S systems that meet all typical requirements which include:

- Leadership sign off to ensure senior management commitment
- Health and safety pledge
- A strategy to develop health and safety
- Regular H&S meetings with employee participation
- A vast volume of safety related compliance requirements.

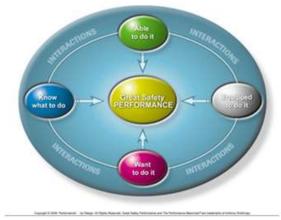
But we strive to be more than this!

We are working towards building and maintaining a culture where 'safety is how we do business around here'. A critical part of this is our Great Safety Performance (GSP) programme for our high risk field staff. These are the people that face real significant hazards each day.

In 2011 Trustpower embarked on the Safety Climate Project lead by the Electricity Engineers Association (EEA) to take our safety culture to a new level. Two years later we have seen visible gains in our safety culture, with our field staff fully engaged and active in contributing to continual improvement of our safety systems. The EEA Safety Climate Project and our Great Safety Performance programme are underpinned by the evaluation information, tools, and processes provided by Orange Umbrella®.

The GSP programme identifies key areas that contribute to our individual and collective safety, namely;

- Knowing what to do
- Being able to do it
- Being equipped to do it
- Wanting to do it
- Safe work actions
- Interactions



This programme has involved all of our field staff completing annual surveys that provide direct feedback as to how they view the safety climate in not only their team, but Trustpower in general. The survey is then followed up with team workshops which explore the results from which we develop actions for improvement. We then have regular follow ups to ensure those actions are making progress with the parties assigned the task held accountable.

To highlight our success it would be easy to list the many improvements we have made and the things we have introduced since the implementation of this programme. But that would be missing the true value of what we as a team and company are achieving. Often when companies say we "enabled" our staff to take health and safety seriously, in reality they have simply "told" staff to take health and safety seriously; instructions are written, policies are implemented and measures are put in place. Whilst these things have their place, this approach alone does not equate to enabling staff to be safe.

The manner in which we have adopted the GSP programme is enabling of our teams to manage their own health, safety and wellbeing. Field staff now have a platform to present their views, anonymously or directly, to Senior Management. In return they have been empowered to make any necessary improvements, and are now keenly engaged in the process. This means health and safety is increasingly being driven by the people in the front line. We now have a culture where the staff actively contribute and drive our health and safety programme, with a level of support and guidance from the business.

About Trustpower

In New Zealand, Trustpower owns 36 small to medium size Hydro Generating Stations and two Wind Farms, with a further Wind Farm in South Australia. We produce electricity from renewable sources and our power stations produce enough electricity for around 220,000 Kiwi households! Trustpower has its head office based in Tauranga and employs over 500 people in New Zealand.

With assets of over NZ\$2 Billion, Trustpower is majority New Zealand owned and is listed on the New Zealand stock exchange.

GSP Process

GSP is not just another survey. The survey simply kick-starts the conversation to help determine the organisation's safety climate and provide topics to explore during workshops. The opportunity for staff to talk openly about safety related issues is the critical aspect. Having an external party assist with the process and facilitate the workshops is what makes GSP successful. Representatives from each workshop are then given the responsibility not only for being the champion for the people they are representing, but for pushing forward the matters important to their people and combining the information from the other workshops to create a sensible action plan.



The Survey – there are approximately 100 questions categorised and run by an external organisation to maintain integrity of the survey. Examples of questions include:

- For every task I perform I check all tools, equipment, machinery and vehicles to ensure they are in good working order before I use them.
- In my work or workplace I am clear about my company's expectations and standards for working safely.
- In my work or workplace I understand how my work team's safety performance is measured.

Question responses are recorded using an agreement scale from "Strongly disagree" or "Almost Never" through to "Strongly Agree" or "Almost always".

The data is collated and turned into a percentage agreement result and presented graphically during the workshops to all staff.

The Workshops - these start with an executive meeting for the senior staff to look at the survey results data and propose questions to be used during the staff workshops.

Staff workshops take place in a safe environment without retribution, recording the key points of discussion on flipcharts where all staff must agree to them before they are documented in a report for the action planning meeting.

Action planning workshop includes one representative from each staff workshop, key senior management staff including our Chief Executive and a facilitator. The action planning workshop reviews the outputs from all prior workshops and determine the most important issues that need immediate attention. An Action Plan is then created from this which indicates timeframes, resources and responsibilities.

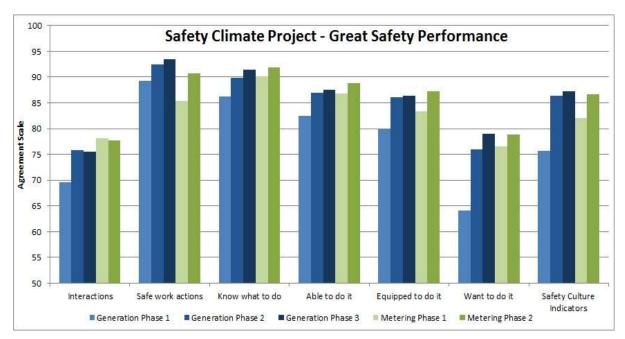
On-going Activity – GSP Reps provide feedback on the action plan to their peers in the field, and regular action plan follow up meetings take place where updates on tasks are provided and accountability is determined. The full phase of surveying, workshops and action planning is then repeated annually.

The Indicators of Success

The process provides a variety of positive performance indicators and shown below is a summary of the details Trustpower uses as well as some other indicators that have significantly impacted by Trustpower taking part in GSP.

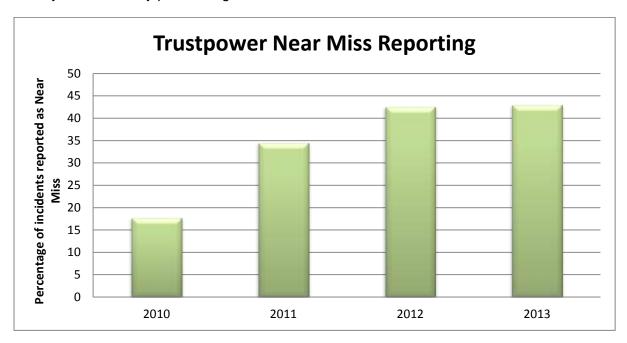
GSP survey results - category summaries

The following graph is a summary of the survey results in categories. The blue lines represent the three phases completed by the Generation team field staff and the green lines represent the two phases the Metering team field staff. Significant gains were made in almost all categories and overall performance has been positive.



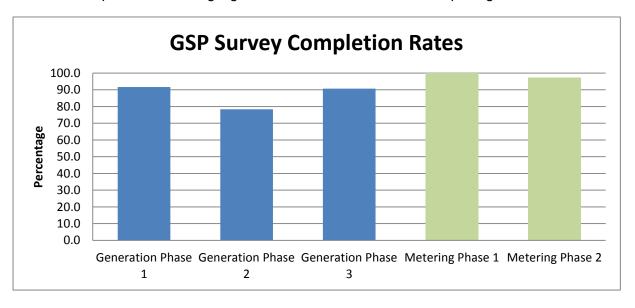
Near Miss Reporting

A truly mature safety culture identifies near miss incidents as a positive indicator, and the increase in reporting of near miss situations shows that the person reporting understands that there is a benefit in doing so. Several examples of near miss incidents reported have occurred where an individual had a moment of absent mindedness. Nobody would have known the incident occurred had they not reported it. This is clear evidence of a thriving safety culture. Below is a graph showing the percentage of near miss incidents reported out of all incidents reported in total. We still have room to improve but change over the past three years is a really positive sign.



Survey Completion Rates

This shows the commitment and value that staff see in the process, with high completion rates in latter phases indicating significant belief in the value of completing it.



Operational Benefits

An important measure used within the Generation team is the number of failed starts that occurred with our hydroelectric generators. Obviously the less failed starts the better and since the introduction of GSP we have seen a reduction in these. It could always be coincidental, but we do believe with better safety comes better quality, particularly with preventative maintenance.

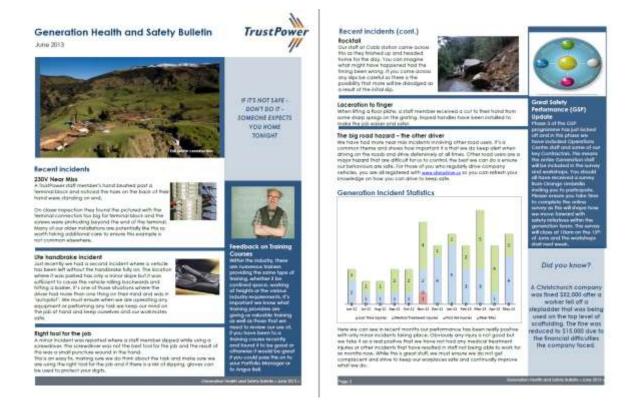
GSP Output Initiatives

The true output from the workshops is actions and initiatives to improve safety. Captured below are some of the many initiatives that have been implemented to date.

"OSHIT" Cards – One success story was the initiative around improving incident reporting, particularly near miss incidents. A quote from one workshop was "I won't report an incident if I take a bit of skin off my knuckles" and "what form do I use if it's not a major incident". The conversation eventually got to a point where we agreed that any situations where a staff member has a loss of control and said to themselves 'Oh shit" then it should be recorded. One of the other staff then came up with an acronym to match that statement Occupation Safety and Health Incident Template or for short the "OSHIT Card".



Communication – regular newsletters were confirmed as being critical communication to regional staff, and regular contributions are gathered from those in the field to produce internal communications that are inclusive and educational.



Personal Protective Equipment (PPE) – inconsistency was found during the GSP workshops where not all staff have the same PPE gear or did not what was available to them. We now have clarity with all teams knowing what gear should be available to them and clear understanding of if you do not have it, ask for it and it will be provided. The workshops also provided feedback on the quality of the PPE gear and we now have better 'fit for the purpose' and specific to the conditions faced out the field.

Training – an evaluation process was started from the GSP programme to capture the quality of all the various training providers that Trustpower uses across the country to ensure when new training is scheduled, that it is with the best possible training provider for our needs.

Technology – using new technology to address safety concerns. In the past we have had software upgrades that removed some safety functions and information that was critical for our field staff. The GSP programme was used to voice this issue and ensured a speedy resolution.

A second technology solution being implemented that has been actioned out of the GSP programme is the installation of smart metering technology for meters that are positioned in dangerous locations, removing the need for a person to access that meter and put themselves at risk of harm.

Safety Goals – Each team has developed its own safety goals to help drive performance. These goals are aligned with Trustpower's Safety Improvement Plan and overall Health and Safety strategy.

Vehicle specifications and equipment – review of all new vehicle purchases are to have a minimum of ANCAP four star rating of new vehicles. Equipment for each vehicle standard with safety cages, first aid, fire extinguishers, snow chains, tow rope, etc



Conclusion

Trustpower has shifted its focus from primarily health and safety compliance towards behavioural safety. There will still be a level of compliance focus but this is balanced with understanding human factors and the impact this has on safety. This is a long term initiative to improve the safety culture within the organisation by using the staff to own and drive the safety process.

The journey to date has shown significant improvements in positive performance indicators and we believe this will have long term benefits by imbedding safe work values and practices. The output of this is a mature safety culture and result in significant reduction in injuries to our people. This initiative is a long term commitment and we expect to see significant improvements over the coming years as we continue this process.

Angus Bell Health and Safety Manager Trustpower Ltd