

## Difficulty Complying with Oil and Gas Pro-Active Safety Processes: An approach using a web based safety management system (SMS) to achieve intended risk reduction results.

### Background / Problems

The prevailing safety wisdom standards suggest pro-active safety systems involving management and employees may indeed stimulate safety performance, motivation and program participation. Visibility of management and employee involvement is often difficult and costly to measure with traditional manual tracking spreadsheets. The advent of web-based technologies now give the enterprise options that are more efficient than the traditional manual approach. This paper describes an oil and gas contractor's transformative safety culture experience in shifting from manual HSE management tracking to a web-based management system.



Figure 1 - Safework Solutions BBS Dashboard

### A Case Study

In 2013 a large oil and gas servicing contractor operating in four states with over 500 workers experienced a catastrophic accident resulting in loss of life. This tragedy led to an in-depth cultural study and management system audit in 2014. Despite having adequate safety personnel as well as all industry required compliance programs, this client lacked real time performance metrics which hindered its ability to pro-actively identify and provide solutions. Their safety programs which included behavior based safety (BBS), stop work authority, hazard reporting, safety meetings, inspections and JSEA were very inefficient. For example, the BBS program

alone required 1/3 of an HSE resource to maintain the transfer of employee data to an electronic spreadsheet. Compiled BBS data was chronically 2 to 3 months old and rarely resulted in actionable corrective actions or improvement plans that could be assigned, mitigated, closed and tracked.



Figure 2 - Safework Solutions Corrective Action Tracker home page.

### **The Solution**

In Q4 of 2014, the company implemented Safework Suite™, a web-based safety management system that provided a BBS, SWA, Hazard Hunt and Corrective Action Tracker Solution. KPI's were established for employee performance and monthly governance meetings established. The HSE corporate staff rolled out the system over a period of months and coached their division managers and leaders in the use of the system.

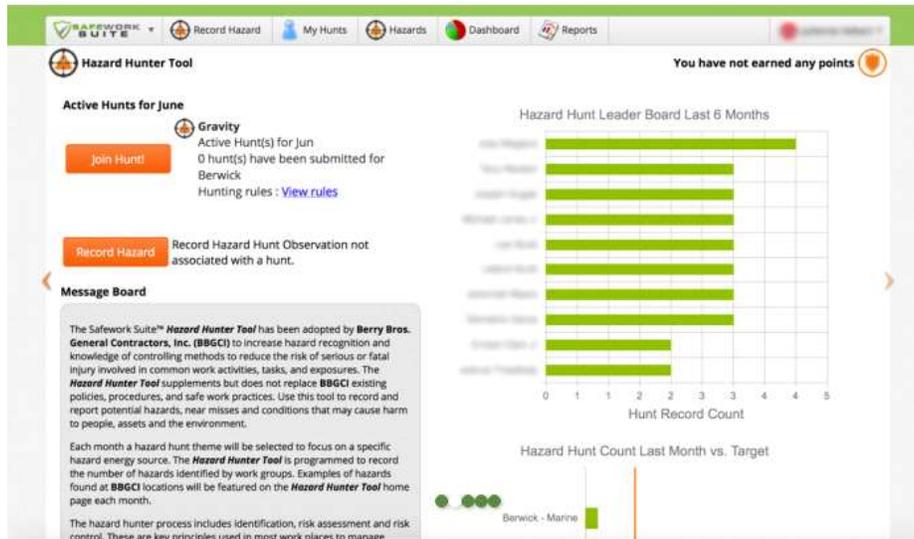


Figure 3 - Safework Solutions Hazard Hunter home page.

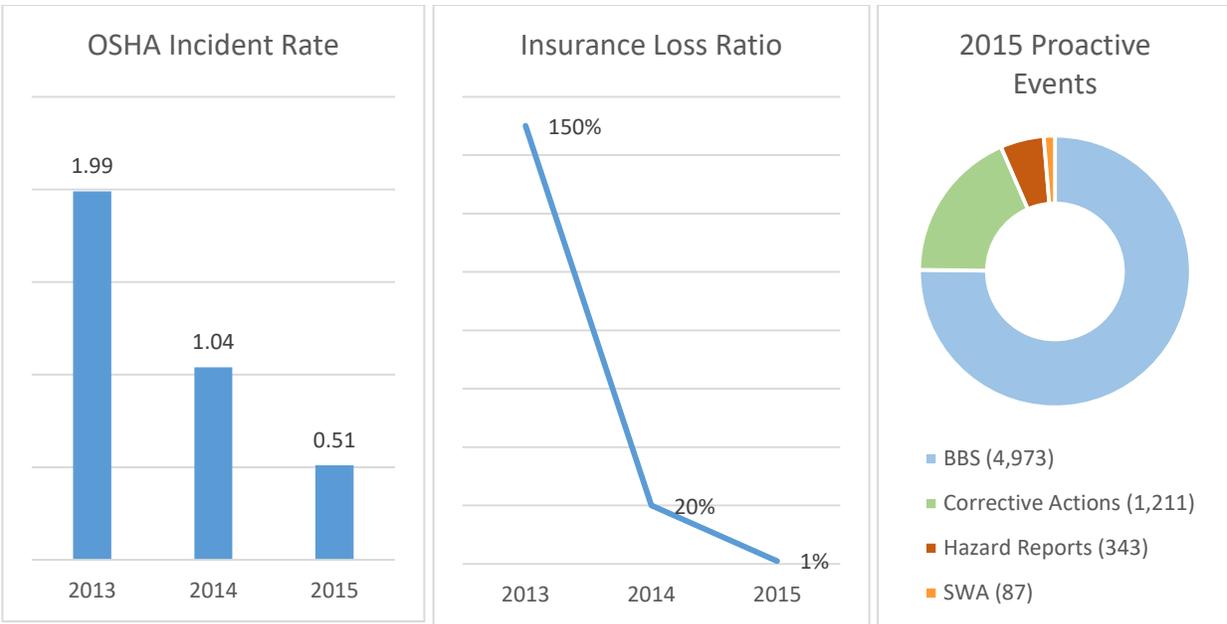
## The Results

In 2013 the company's OSHA incident rate stood at 1.99 which is 53% higher than the industry average of 1.3 for the same year. In 2014 the incident rate fell to 1.04. In 2015 which was the first full year after implementing Safework Suite™ the company's OSHA incident rates dropped further to 0.51 which is 60% below the industry average. It was also the lowest rate recorded in the 50 year history of the company.

Insurance loss ratios also saw significant reductions over the same period. Loss ratios in 2013 were 150%. In 2014 they dropped to 20% and in 2015 improved further to just 1%.

The company saw increased BBS participation from 2013 to 2015 with 500 BBS observations and 4,973 BBS observations submitted respectively. In 2015, Safework Suite enabled the company to effectively track to closure 1,211 corrective actions. Additionally, in 2015 there were 87 documented Stop Work Authority events and 343 hazard recognition reports.

Significant time savings were realized by having these records available in electronic format supported by reports designed for internal and external audit requirements. HSE resources were freed up from data entry tasks to perform more proactive safety tasks.



**Client Testimonial**

The owner of the company reported,

“My experience with Safework Solutions has been remarkable. I attribute the reduction in accident rates my company now enjoys directly to Safework Solutions. Not only do we have a complete audit trail that we never had before, we now have a high level of employee participation in our safety program due to the integrated web-based safety tools provided within the Safework Suite.

This safety software is easy to use, includes time-saving dash boarding, built-in reporting features allowing our management team to focus on actionable analytics. It has eliminated non-productive and costly manual processes to input, trend and analyze safety performance data.

Our BBS process now generates hundreds of observation cards a month. Our old system required several days of manual spreadsheet input in order to produce the required KPIs. Now we have access to real-time metrics using the built in dashboard and can produce customized reports with little effort. The powerful reporting now provides our executive team with actionable data and

real-time visibility to our key metrics. Our safety management system has been transformed to a highly effective and proactive system.

The management team of Safework Solutions has surpassed my expectations and delivered a cost effective business solution supporting our critical risk management and safety business processes.”

### *About Safework Suite*

Safework Solutions, LLC offers a comprehensive web-based safety management system called Safework Suite™. The software supports all of your critical risk management business processes in one integrated user friendly system. We offer the following suite of cloud based tools using the software as a service model.

#### SAFEWORK SUITE™ OF TOOLS:



BEHAVIOR BASED SOLUTION



HAZARD HUNTER



STOP WORK AUTHORITY



INSPECTION TOOL



CORRECTIVE ACTION TRACKER



SAFETY TRAINING MANAGER



INCIDENT WORKFLOW SOLUTION



JOB SAFETY ENVIRONMENTAL ANALYSIS

The Safework Suite™ of tools is easy to use with real-time reporting, tracking and a measurement system for leading proactive safe work programs. Safework Suite™ promotes accountability in performing vital safety activities while eliminating administrative time and money wasted measuring, monitor and evaluating program performance.

Let Safework Suite™ help you focus on your key HSE performance indicators, improve your safety management systems and position your business to succeed in the global market place.

Safework Suite™ is designed by Board Certified Safety Professionals to help clients move to the next level in their hazard identification, reporting and risk control processes.

