HOW THE UK INDUSTRY IS DEALING WITH REDUCING HYDROCARBON RELEASES

Steve Bullock
SVP Petrofac Offshore Projects & Operations
Co-chair Step Change in Safety
Step Change in Safety is a member led industry body with a 16 year track record of working together with all stakeholders including:

- Employing Companies
- Elected Safety Representatives of the workforce
- Operators
- Regulators – Health and Safety Executive
- Unions
- Trade Associations

“Our sole objective is to continuously improve the safety performance of the UK Oil and Gas industry through collaborative working”
Structure overview

Steering Groups - Co-Chair Leads

Workforce Engagement
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Human Factors
email: humanfactors@steppchangeinsafety.net

Asset Integrity
email: assetintegrity@steppchangeinsafety.net

Competence
email: competence@steppchangeinsafety.net

Helicopter Safety
email: hsg@steppchangeinsafety.net

Leadership Team Co-Chairs

Work Groups

Assurance and Verification

Hydrocarbon Release Prevention

Workforce Engagement Toolkit

Technical Authorities

Marine Transfer of Personnel

Mechanical Joint Integrity

Human Factors Toolkit & Procedural Compliance

FPF / FPSOs

Support Team

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STEP CHANGE IN SAFETY
“New releases for old reasons....”
50% reduction target in HCR’s by March 2013

To create long-term sustainability of continuous improvement in HRC reduction, with a target of 50% reduction from 2010-2013.
Events held to showcase industry good practice

- Hydrocarbon release themed network events
- Attended by site leaders, safety professionals and advisors, company focal points and elected safety representatives
- Speakers include oil and gas operators, contractors and the regulator
- Events focused on reduction of hydrocarbon releases, the challenges and ways to share the things that are working well

Focus on sharing learning and improving
• Safety Alert Database and Information Exchange (SADIE), facilitates the sharing of safety information and improves the lateral learning across the industry

• Available on the Step Change in Safety website

25% of reported HCRS currently in database

• Target to significantly improve input to this valuable tool
• Requirement set by the UK regulator for HCR reduction plans
• Guidance of what 'good' HCR reduction plans may include
• Produced using industry HCR reduction plans identified by the regulator as being exemplar 'good' plans
• Consolidated by workgroup & published for industry in 2012
2013 Strategy
Built with input from the line

2013 Generic Plan
Activities that Sites build into their Site Plans

2013 HCRP Plan
Accountability for delivery with HRP Lead
Key site activities identified & on Generic Plan
Asset cumulative risk status
Single Risk Flag
Rolled up from detail of KPIs
Answers: What level of risk do we face?
(Work-in-Progress)

Barrier model (current asset condition)
Status of individual barrier groups (rolled-up from KPIs)
Answers: Where is the risk?

KPI drill down
Flags which KPIs are failing.
Answers: What do we need to fix?

KPI trend
Shows time-trend on the KPI.
Answers: Are we getting better or worse?

KPI narrative
Structured narrative.
Asset provide a response to the “5Whys” associated with each amber or red KPI.
Asks ‘best practice’ questions.
Supports roll-out of best practise across all Petrofac assets (OPO & IES) globally and consistently.
Answers: Is the asset in full control of recovery on this KPI?
• Provides detail on the framework and the intent behind the offshore Regulatory requirements
• Delivers working understanding of the principles to support the compliance processes by raising understanding of the expectations of Assurance / Verification and the benefits brought to both safety and production

+8000 hard copy publications distributed
75% going directly to workforce
To reduce / prevent hydrocarbon leaks by reducing human error in the making and breaking of mechanical joints through improved training & competence standards and processes.
Defining minimum standards of competency
Doubled+ the number of people taking the more robust training and competence route
100+ companies using the framework

2012
2547 learners
677 technical competence tests  90% achievement

2013
3697 learners
1115 technical competence tests  88% achievement
• Launched in 2013 ✓
• Major Accident Hazards ✓
• Small Bore Tubing ✓
• Reporting & Learning Lessons ✓
• Pipework ✓
• October - Control of Work
• December - Joints

+1000 registered users to date = very positive feedback
• A further 50% reduction in HCRs over three years (48 HCRs by 2015/16)
• All HCRs reported to SADIE
• Clear “stretch” targets set by AiSG, supported by Step Change leadership team
• Alignment to regulator strategy, inspection and investigation programme
• Industry good practice guidance reinforced, new (and old) guidance delivered
• Focused events drawing together all levels of workforce to share good practice, incident lessons
• Workforce Elected Safety Reps sitting on leadership team, steering groups and workgroup provide direct two way feedback
• Topic at site safety meetings, SI971 constituency meetings etc
• Strong independent leadership
HOW WILL WE DELIVER

> SIMPLICITY
> ENGAGEMENT
> IMPLEMENTATION
> LEADERSHIP
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