



## Process Safety Working Group Update 15<sup>th</sup> October 2013

Tony Stonehewer -Chairman

### Members

Paul Riley

Bob Lawson

Ian Reed

Noj Sehmar

David Tidball

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Greystar

Greystar

Northern Gas Networks

National Grid

Wales and West Utilities

Eon

### Support

Nikki Barker

UKOPA

UKOPA/13/043

# 2012 Process Safety Indicator Report



- Request for data went out in July asking for responses by the end of August 2013 – by which date 9 responses were received
  
- Further request issued in September asking for responses by 11<sup>th</sup> October – to date 13 responses received
  
- To date responses have not been received from
  - BG Group – but no pipelines in UK
  - Bord Gas – but no pipelines in UK
  - Esso
  - Ineos
  - Perenco
  - Shell
  - Valero

# 2012 Process Safety Indicator Report

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- ❑ Questions were revised slightly for the 2012 report
- ❑ Companies were asked about corrosion repairs and pipelines affected by ground movement and were no longer asked about maintenance of protective devices or length of pipelines flown by helicopter
- ❑ Report is yet to be prepared, but with the data provided to date the following results have been obtained (please be aware that these are without 3 companies data provided previously)

# 2012 Report & 2011 Comparison

PSI Number	Risk Control	Indicator	Safety Performance Indicator (2012)	Safety Performance Indicator (2011)
1	Emergency Response	Emergency Testing	Number of Exercises = 43	Number of Exercises = 48
2	Competency and Training	Emergency Response Training	123 staff trained	129 staff Trained
3	Operating Procedures	Exceedances of Safe Operating Pressure	55 Exceedances 0 above MAOP	79 Exceedances 0 above MAOP
4	Route Management	Number of infringements safely managed to avoid pipeline damage	712	1099
5	Integrity	Number of product loss reports in year:-	2 product loss $8.6 \times 10^{-5}$ per km	3 product loss $1.13 \times 10^{-4}$ per km
		Number of damage reports in year:-	71 damage incidents $3.20 \times 10^{-3}$ per km	85 damage incidents $3.20 \times 10^{-3}$ per km

NB: Length of pipeline is different each year. Please note 5 companies not yet provided data in 2012

## 2012 Report & 2011 Comparison

PSI Number	Risk Control	Indicator	Safety Performance Indicator (2012)	Safety Performance Indicator (2011)
6	Integrity	Number of Corrosion Repairs	46	Not Measured in 2011
7	Integrity	Number of Pipelines affected by ground movement	7	Not Measured in 2011
8	Inspection	In-line inspection:-	2249 kms inspected 96% of programmed ILIs	3625.9 kms inspected 18.3%
		External inspection:-	2874 kms inspected 99.89% of programmed Inspection	4243.1 kms inspected 18.3%
9	Safety Alerts	Number of safety alerts shared	13	11

NB: Length of pipeline is different each year. Please note 5 companies not yet provided data in 2012

# 2012 Process Safety Indicator Report

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- Is the report to be prepared with the 13 respondents to date or should another week be given for outstanding companies (approximately 2100 Km of pipelines) to provide the results?
  
- Report to be prepared by the end of October, reviewed by PSWG members by mid November and submitted to the board for approval to publish

# Proposal - 2013 Process Safety Indicator Report

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- Request for data to be sent out in January 2014 for return before end of March 2014
  
- Report to be prepared and reviewed by PSWG during April
  
- Report submitted to the Board and published in May 2014

# Cross Industry Sharing

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- ❑ UKOPA now members of the Process Safety Leadership Forum
  - ❑ Chemical and Downstream Oil Industry Process Safety Forum – relevant documents that they have issued have been uploaded to the members area
    - ❑ Human Factors Analysis
    - ❑ SIL Demonstrating Prior Use
    - ❑ Corporate Governance
  - ❑ Industry Learning Briefs
  - ❑ HSE Consultation regarding COMAH

## PSWG Future Plans

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- 2013 Process Safety Indicator Report to be compiled and published
- Process Safety Best Practice Guide (UKOPA/12/010) to be reviewed and updated to include more guidance on measurers for
  - Control Room operations
  - Maintenance
- Continued push to increase number of Safety Alerts issued (to date in 2013 40 compared with 13 for the whole of 2012)

# HSE - Generic Performance Ratings

## Performance Assessment

Each risk control topic should be assessed against the following performance criteria, a score of 20 or 10 must satisfy all specified criteria.

60	50	40	30	20	10
Unacceptable	Very Poor	Poor	Broadly Compliant	Fully Compliant	Exemplary
<p>Unacceptably far below relevant minimum legal requirements.</p> <p>Most success criteria are not met.</p> <p>Degree of non-compliance extreme and widespread.</p> <p>Failure to recognise issues, their significance, and to demonstrate adequate commitment to take remedial action.</p>	<p>Substantially below the relevant minimum legal requirements.</p> <p>Many success criteria are not fully met.</p> <p>Degree of non-compliance substantial.</p> <p>Failures not recognised, with limited commitment to take remedial action.</p>	<p>Significantly below the relevant minimum legal requirements.</p> <p>Several success criteria are not fully met.</p> <p>Degree of non-compliance significant.</p> <p>Limited recognition of the essential relevant components of effective health and safety management, but demonstrate commitment to take remedial action</p>	<p>Meets most of the relevant minimum legal requirements.</p> <p>Most success criteria are fully met.</p> <p>Degree of non-compliance minor and easily remedied.</p> <p>Management recognise essential relevant components of effective health and safety management, and commitment to improve standards.</p>	<p>Meets the relevant minimum legal requirements.</p> <p>All success criteria are fully met.</p> <p>Management competent and able to demonstrate adequate identification of the principal risks, implementation of the necessary control measures, confirmation that these are used effectively; and subject to review.</p>	<p>Exceeds the relevant minimal legal requirements.</p> <p>All success criteria are fully met.</p> <p>Management competent, enthusiastic, and proactive in devising and implementing effective safety management system to 'good practice' or above standard. Actively seek to further improve standards.</p>

## EMM Risk Gap

EXTREME	SUBSTANTIAL	MODERATE	NOMINAL	Not applicable	Not applicable
Formal enforcement Notice and / or Prosecution.	Formal enforcement Notice / Letter.	Letter / IN.	Verbal instruction / letter.	Verbal instruction may be appropriate.	No further action is necessary

## Initial Enforcement Expectation

Initial Enforcement Expectation is dependent upon the authority of the relevant standards applicable to the areas of non-compliance.

Actual enforcement conclusion is dependent upon Duty holder and Strategic factors as per HSE's [Enforcement Management Model](#).

# Thank you for listening

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## Questions?

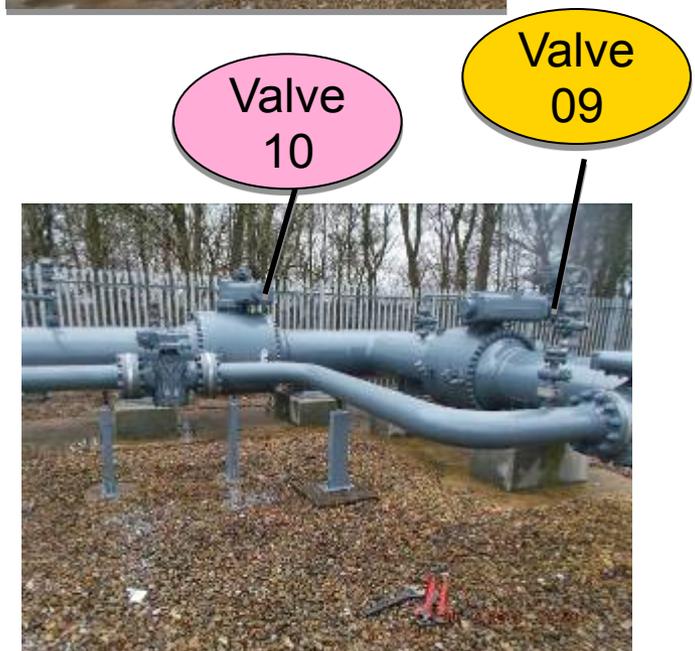
## Other Topics

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- ❑ Audco Plug Valve incident
- ❑ Isolation Incident

# Incident Details

- ❑ Wednesday 20<sup>th</sup> March 2013
- ❑ Routine Valve Maintenance and Preparation for Pig Trap Inspection
- ❑ Completed maintenance of valve 09
- ❑ Commenced maintenance of valve 10 and prepare Pig Trap for examination



# Incident - Photos



Incident occurred whilst removing plug from body vent valve



# Incident - Photos



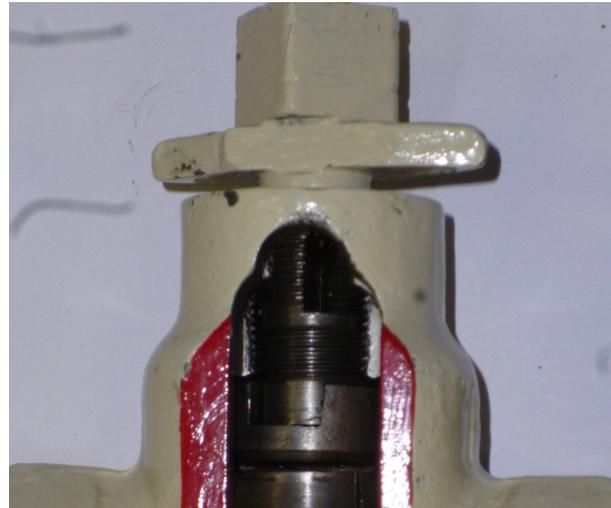
# Investigation



- ❑ Valve 10 installed in 1971
- ❑ Audco Body Vent valve likely to be installed at same time
- ❑ Valve extensively used across industry
- ❑ Manufacturer not aware of any other failures
- ❑ HSE arranged for assessment of valve via Health & Safety Laboratory

# Investigation / Action

## Sectioned valve used for training



- HSE concluded investigation
- Bulletin Issued – Training and DVD
- Vented Plug to replace solid plugs