

# Risk Assessment Work Group

UKOPA/05/0071

# Outline

- Terms of Reference
- Rationale for Work Program
- Delivery to Date
- Actions Planned for Next Meeting
- Specific Points

# RAWG – Terms of Reference

## **Aim**

- a) As the expert body, provide information and expert opinion on pipeline risk assessment issues on behalf of UKOPA.
- b) Provide expert contact for UKOPA Communications and external contact on pipeline risk assessment.
- c) Provide a formal UKOPA interface with HSE on discussions and development of mutually acceptable approaches to pipeline risk assessment, definition of risk criteria, land use planning, design codes, and pipeline routing.

# RAWG – Terms of Reference

## Objectives

- i) Establish, maintain and develop liaison with HSE, produce papers and case studies for HSE consideration and comment, influence towards a rational and logical approach by Regulatory Authorities towards pipeline risk assessment and Societal Risk assessment.
- ii) Develop, review and update the Industry view on application of risk assessment and risk criteria for land use planning, design codes (IGE/TD/1, BS8010, ISO) and pipeline routing.
- iii) Review and update methodologies for risk assessment of pipelines transporting - (a) toxic, and (b) flammable substances to recommend a consistent approach to UKOPA, and to comment on risk assessments produced by others in UK, Europe and worldwide. Specific areas of interest to include failure frequency data, release rates and mechanisms, dispersion and immediate consequences, ultimate consequences and mitigation aspects.
- iv) Develop Industry view of acceptable risk criteria for the assessment of - (a) toxic, and (b) thermal pipeline hazards.
- iv) Proactively develop and progress UKOPA input to pipeline risk publications, conferences and seminars.

# Rationale for Work program

- HSE “do it their own way” - need to keep objective Risk Assessment processes in view
- Tendency to make it more complicated than it really is
- Argue realistic assumptions and judgements - not just worst case events
- Make sure methods and data are applied correctly
- If we don't do it who else will? In-house? Consultants? HSE?

# RAWG - Current Work Program

- Develop Predictive Modelling
- Improve Ground Movement failure rates
- Develop Mitigation Risk Reduction factors
- Develop better ethylene modelling for LUP zones
- Develop better modelling for Spiked Crude and NGLs
- Develop better modelling for gasoline
- BSI + IGEM supplement work
- Environmental risk assessment

## **RAWG – Progress**

- Progress on all items now substantial
- New modelling being developed for ethylene, gasoline and spiked crude
- Mitigation methods risk reduction factors being developed

## **RAWG – Future Actions**

- Re-engage with HSE at technical level
- Develop jointly new risk methodology with HSE
- Develop / publish data and papers on mitigation risk reduction factors
- Complete reviews and updates on ethylene, spiked crude and NGLs
- Complete the BSI / IGEM work