



## Break-Out Session 3

# The Role of SPIs in Safety Performance

### Group 2

*Please save under a different name, e.g.  
"Break-out Session 2\_Group 2\_Presentation"*

# Industries you chose to evaluate:

1. LPG Storage and Distribution
2. Large Scale chemical manufacturing  
(multinational, multisite)
3. Hazardous chemicals end-user

# 1. How should SPIs look for.....



## LPG Storage

- Typically few staff, third party distributors
- SPI's storage – focus on asset integrity
- SPI's distribution – focus on people and procedures
- An opportunity for trade association to define SPI's.
- Limited number of indicators
- Number of loading/unloading activities is key risk factor
- Water based LPG filling/unloading normally UT

# How should SPI's look for.....



## Large Scale chemical manufacturing (multi-national, multi-site)

- Typically focus on hardware SPI's
- Multipurpose plants – management of change
- Revision of procedures and refresher training crucial
- People and procedures equally as important as equipment
- Expectation that they will use SPI's
- Operators tend to choose SPI's (corporate level- site can add to if they wish)

# How should SPI's look for .....



## Hazardous chemicals end-user

- Use of SPI's depends on how the particular sector has matured
- Waste industry – lack of awareness and education on major accidents
- “Garage” industries , mom and pop firms
- Food industry – do they realise the hazards of ammonia?
- Swimming pools – chlorine
- Focus SPI's on people and procedures but not a priority, perhaps focus on SMS (even if not mandated)

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## 2. What kind of insights do you think the SPI can provide for the inspection in a typical site in each industry?



- Start a dialogue
- Tells inspectors what they the operator believes is important
- Just as important is what KPI's are not chosen – where are the blind spots
- Large chemical site requires more time to evaluate but no real difference across the industries

### 3. Typical strengths and weaknesses industry in 1) selection of SPIs and 2) implementation



- No real differences across industries in strengths and weaknesses
- Selection of SPI's –
  - Strengths -group activity considering major accident hazards
  - Weaknesses – off the shelf and not tailored to major risks
- Implementation
  - Starts a conversation which may lead to action
  - Weaknesses – not refining indicators, not discarding redundant indicators, no action as a result of indicator