**MJV Workshop on using Safety Performance Indicators (SPIs) in Enforcement and Risk Management of Major Hazard Sites
10-12 April 2018, Hernstein, Austria**

**Session 3. STRATEGIES FOR WORKING WITH SPIs ON DIFFERENT TYPES OF SITES**

***Here the participants should discuss how the approach to SPIs can differ depending on the type of site. Participants are asked to look at SPIs in the context of sites in different industries considering also the type of company in some cases (small or large, single site vs. multiple owner site).***

***Instructions:***

***Each group must select one industry each out of the following 3 categories and consider each question with reference to each industry. This means that each group will be discussing 3 different industries. Groups can always discuss more industries in these categories, or add another industry of their choice, but only after they have finished discussing the three industries from the required categories.***

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| 1. ***OIL AND GAS INDUSTRIES***

***Select one of the industries below and answer the questions in relation to the industry you selected.**** Petroleum refineries
* LPG- storage and distribution / Petroleum products storage and distribution
* Fuel storage (as end-user), e.g. LPG, heating oil
* Renewable energy (Biogas, Biodiesel, Geo-Thermal-Sites)
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| 1. ***CHEMICAL INDUSTRIES***

***Select one of the industries below and answer the questions in relation to the industry you selected.**** Large scale chemicals manufacturing (multi-national/multi-site operator)
* Small scale chemicals manufacturing (multi-national/multi-site operator)
* Chemicals manufacturing single-site operator (often speciality chemicals)
* Chemicals warehousing (including pesticides, agro-chemicals) single-site operator
* Chemicals warehousing (including pesticides, agro-chemicals) multiple-site operator
* Chemical storage (including pesticides, agro-chemicals)
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| 1. ***OTHER HAZARDOUS INDUSTRIES***

***Select one of the industries below and answer the questions in relation to the industry you selected.**** Explosive and pyrotechnic storage
* Hazardous chemicals end-user (e.g. electroplating, PU-foam production, chemicals blending, etc.)
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***The group should aim to answer questions 1 and 2 for each industry, and either question 3 or 4. Please look at all the questions together and decide the group’s strategy for the session. If you are running out of time, prioritise answering questions 1 and 2. There is no penalty for not answering all the questions!!***

* ***Rapporteurs/Presenters – Please label your sessions and presentations on the memory stick clearly (e.g., Group 1, Session 1)***

***Therefore, your main tasks are:***

***1) The group should choose a rapporteur at the beginning of the session. Rapporteurs should take good notes on a pc and these should be provided to the Chair at the end of the session.***

***Please spend no more than 5 minutes on selecting a rapporteur.***

***2) Discuss the questions and try to provide concrete answers to each. Specific details such as inspection methods, inspection questions, strengths and weaknesses, best and worst case criteria, using real cases from inspections, are all good ways to make your experience useful for other inspectors.***

***3) The group should use the last 10 minutes to structure the plenary presentation and decide who will give the presentation.***

***You have 75 minutes. Watch your time and please stay on topic!***

**Questions for Session 3 – Strategies for working with SPIs on different types of sites**

1. **Suppose you are inspecting a site in this industry. What do you think they would have and should have regarding the use of SPIs, for example:**
* **The site has an SPI.**
* **If the site usually does not have an SPI, do you think it should? Why or why not?**
* **Focus of the SPIs on a typical site (usually) – equipment, people, procedures?**
* **What do you think should be the focus?**
* **Quality of the SPIs – high, medium, low?**
* **Who chooses the SPIs – the operator, a consultant? Pros and cons?**
* **Experience with SPIs – 1st generation (beginners), mature (2nd or 3rd generation)? Are the SPIs on experienced sites better?**
* **How many SPIs are enough? How many are too many?**
* **Is there a greater expectation that upper tier sites use SPI’s compared to lower sites?**
1. **In the ideal situation, what kind of insights do you think the SPI can provide for the inspection in a typical site in this industry? How could they be measured?**

*Do you think SPIs could be very useful or not useful at all?*

*Please list some SPIs you would find useful on this type of site, if any*

1. **Are there typical strengths and weaknesses for this industry in 1) the selection of SPIs and 2) the implementation, analysis and use of the SPIs? If so what are they?**

*What advice or recommendations might you give about SPIs to companies in this industry?*

*What inspection strategies can you use to examine SPIs in this industry?*