

“Capacity Building and Strengthening Institutional Arrangement”

Workshop: Quantitative risk assessment of oil and gas plants

Working Group n°. 5
**“Define a Safety Management Systems for oil
and gas industrial units ”**

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Objective

Developing a comprehensive and general check list helpful to authorities in verifying the quality of best practices and analysis aimed to reach an effective and efficient SMS.

Activities

1st phase: Given the inspection check list reported below containing the eight SMS elements, you will develop for each sub-elements a list of activities or basilar elements to be verified as congruent as possible with your operative requirements. (Follow the statements described for the 3rd element included in Italian General Check List reported below Elements inspection check list).

Option

Application of verification criteria to a selected oil and gas establishments for SMS general check list element Nr 3. By following criteria reported in the 3rd element of general check list simulate a process of verification by collecting all those necessary information for its compliance.

Elements inspection check list: 8 sms elements

Document on major accidents prevention policy, SMS structure and his integration with the general management.

- Definition of major accidents prevention policy.
- Verification of the SMS structure and its integration with the establishment organisation.
- Policy Document Contents

Organisation and staff

- Definition of responsibilities, resources and planning of activities.
- Information activity.
- training and formation activities.
- Human factors, operator/plant interfaces

Evaluation and identification of major accidents

- Identification of dangerous substances and processes, definition of safety criteria and requirements.
- Identification of possible accidental events and safety analysis.
- Planning and updating of technical and/or managerial solutions for the reduction of risks

Process management

- Identification of plants and equipment to be subject to inspection plans.
- Process documentation.