

Report on International Standards Workshop

Introduction:

The International Standards Workshop for Oil & Gas Industry in Libya & North Africa was organized by the Libyan Petroleum Institute (LPI) and Libyan National Centre for Standardization & Metrology (LNCSM) in association with the International Organization for Standardization (ISO) and the International Association of Oil & Gas Producers on 20-21/11/2007. The main themes of this event were focused on:

- Improve understanding of the importance and benefits of International Standardization in oil & gas industry and explore the activities and experiences of international, regional, national and company related activities, as well as how Libya and other North African countries can positively influence, via active participation, the development of these standards;
- Participate in the discussion and definition of the Libyan and other North African countries oil & gas sector standardization needs in view of an ongoing global oil & gas industry;
- Develop a clear picture on the benefits of adopting and implementing International Standards as national standards, and elaborating effective solutions to the identified difficulties faced in this regard;
- Learn more on the detailed policies and procedures of the development of ISO standards.

The Workshop Programme:

The first day, Tuesday 20 Nov. 2007

The event was held at El Mahary Hotel Conference Centre, and was started with welcoming the guests and participants then opening address from:

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| - National Oil Corporation (NOC) | <i>Mr. Mahmoud Kamour (HSE Manager)</i> |
| - The Secretariat of Planning | <i>Eng. Khaled Ghuil</i> |
| - ISO Secretary General (Video Call) | <i>Dr. Alan Bryden (ISO/CS)</i> |

Followed by several presentations:

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| - Role of the Libyan Petroleum Institute | <i>Dr. Bourima Belgasm (LPI)</i> |
| - Role of the Libyan National Centre for Standardization & Metrology | <i>Dr. Dia Abouhadra (LNCSM)</i> |
| - Introduction to the ISO global village | <i>Mr. Alain Samne (ISO/CS)</i> |
| - Specification & Procedures for the Libyan Transmission & Distribution Systems | <i>Mr. David Hanely &
Mr. John Holt (Pbower)</i> |
| - Work of ISO Technical Committees: TC67, TC28 & TC193 | <i>Mr. Gilles Trican (Total)</i> |
| - Coordination & impacts of the reference system relationship with respect to both petroleum legislation and petroleum operation | <i>Mr. Torsten Helbig
(Wintershall)</i> |
| - Gulf Standards Organization (GSO) involvement in regional oil & gas industry | <i>Mr. Muayad Ajjawi (Qatar Petroleum)</i> |
| - Neighboring Countries: Egypt – EOS | <i>Ms. Mervet Mustafa (EOS)</i> |
| - ISO, CEN & API Cooperation | <i>Mr. Alain Loppinet (CEN TC12)</i> |

The second day, Wednesday 21 Nov. 2007

The workshop was held at LPI premises, and the presentations were continued as follows:

- Identifying Standards required by oil companies & the mechanism proposed to be adopted *Mr. Muftah Shampour (LPI)*
- Vision, Strategies and Future Outlook *Mr. Omar El Mansuri (AKAKUS)*
- Moving towards global standards for the benefit of the oil & gas industry – the role of the OGP *Mr. Gilles Trican (Total)*
- Think standards, Think Global – Corporate adoption if International Standards in SHELL *Mr. Neil Reeve (SHELL)*
- Qatar Petroleum – Experience gained, advantages & challenges *Mr. Muayad Ajjawi (Qatar Petroleum)*
- Future standards needs in Libya & National Committee for International Standards review & adoption *Dr. Dia Abouhadra (LNCSM)*
- Implementation of ISO & IEC International Standards *Mr. Mohamed Al Halloug (Zawia Refinery)*

Following lunch, a round-table discussion was held mainly on what are the benefits and challenges for the Libyan Oil & Gas Industry – national and foreign operators – to move towards adopting & implementing the International Standards; the steps needed to enable the Libyan participation in the development of International Standards for Oil & Gas Industry. The discussion brought about the measures to be taken by the Libyan Oil & Gas Industry to bring in better improvements in the use of International Standards.

The outcome and vision of this discussion are summarized below:

- 1- General awareness in the area of International Standards to familiarize all operator companies specially the National Oil Companies
- 2- Participation in OGP committees and ISO Technical Committees
- 3- International Standards of Oil and Gas industry should be supported by NOC
- 4- Oil companies in Libya (national & international) should adopt and implement International Standards of Oil & Gas Industry
- 5- Cooperation between NOC, LNCSM & LPI with International Bodies to keep going toward the adoption and implementation of International Standards of Oil & Gas
- 6- The main three ISO Technical Committees (TCs) are: TC67 (Materials, equipment and offshore structures for the petroleum and petrochemical industries) its scope “Standardization of the materials, equipment and offshore used in drilling, transport by pipelines and processing of liquid and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries”, TC28 (Petroleum products and lubricants) its scope “Standardization of terminology, classification, specifications, methods of sampling, measurement, analysis and testing for petroleum and non-petroleum based products, lubricants and fluids” and TC193 (Natural gas) its scope “Standardization of terminology, quality specifications, methods of measurement, sampling, analysis and testing for natural gas and natural gas substitutes (gaseous fuel), in all its facts from production to delivery to all possible end users across national boundaries”. Libya is member of ISO TC67 and should participate by other members in TC28 & TC193
- 7- The criteria to select the oil and gas experts that will be nominated for ISO TCs should be provided by LNCSM
- 8- Technical information related to International Standards should be provided from oil and gas operators
- 9- To establish a mirror Technical Committees (TCs) by LNCSM, to facilitate the implementation of International Standards

The Plan:

To form a committee from National Oil Companies, the National Oil Corporation (NOC) and LPI, where LPI will play the role of awareness, consultancy and implementation of International Standards with cooperation with LNCSM

