

**INTERNATIONAL STANDARDS WORKSHOP  
FOR THE OIL AND GAS INDUSTRY  
IN LIBYA & NORTH AFRICA**

**20 & 21 NOVEMBER 2007  
TRIPOLI – LIBYA**

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# «ISO, CEN & API COOPERATION.»

## SUMMARY

- 1) Experience of CEN in harmonization of international standards in the sphere of the Petroleum and Natural gas
  - 1-1) EUROPE & CEN (slides 3 to 6)
  - 1-2) VIENNA AGREEMENT (slides 7)
  - 1-3) CEN TC12 (slides 8 to 12)
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- 2) Experience of API in harmonization of international standards in the sphere of the Petroleum and Natural gas
  - 2-1) CONCERN ON API (slide 17)
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# 1-1) EUROPE & CEN

THE CEN = **C**omité **E**uropéen de **N**ormalisation  
(European Committee for Standardization)

includes 30 voting standardization bodies of:

- 27 countries members of European Union
- 3 countries members of European Free Trade Association  
and
- 4 affiliates which are negotiating the entrance in EU  
Plus
- 9 CEN Partner Standardization Bodies

**NOTA:** the votes are weighted according to the income of each country which means 365 votes (in ISO: 1 country = 1 vote)

# MEMBERS OF CEN

## 1) FULL MEMBERS (30):

Austria, Belgium, Bulgaria, Cyprus, Czech Rep., Denmark, Estonia, Finland, France, Germany, Greece, Hungary, **Iceland**, Ireland, Italy, Latvia, Lithuania, Luxemburg, Malta, The Netherlands, **Norway**, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, **Switzerland**, United Kingdom.

## 2) AFFILIATES (4):

Albania, Croatia, Macedonia, Turkey.

*These 4 countries are on discussion to become CEN member.*

## 3) CEN PARTNER STANDARDIZATION BODIES (9):

Armenia, Australia, Bosnia & Herzegovina, Egypt, Rep. Of Moldova, Russian Federation, Serbia, Tunisia, Ukraine.

*A NSB which is unlikely to become CEN member but which commits to use ENs.*

# IMPORTANT FACTS ON CEN

(to have in mind)

- Each time an EN standard is adopted, each of the 30 nations members of CEN has to adopt it in its national collection within 6 months and to cancel any existing national standard on the same subject. They may be published in the national language or in one of the three official languages of CEN  
( English, French or German)
- In Europe, Standards are not usually **mandatory** unless a regulatory body (European Commission or national regulatory body) gives an obligation to use such standard.

# RELATIONSHIP BETWEEN EU & CEN (NEW APPROACH WAY)

- ❖ The EU legislation gives only essential requirements and no more technical details,
- ❖ The commission mandates CEN to write harmonised standards giving a 'presumption of conformity' to the essential legal requirements included in the Directives.
- ❖ Those harmonised standards are always written by the stakeholders and are subject to the consensus process of international standardization.
- ❖ **Non harmonised standards exist but they must not be in conflict with any of the Essential Requirements of any New Approach Directive.**

# 1-2) VIENNA AGREEMENT

**Agreement** between ISO and CEN on exchange of technical informations between **CEN** and **ISO** in force since **june 1991** (with some additional revisions since that date).

The main topics are:

- 1) Mutual increased representation at meetings.
- 2) Transfer of work from CEN to ISO (or vice-versa).
- 3) Adoption of existing ISO standards as European ones without change (UAP) or with possible changes (PQ).
- 4) Parallel approval of documents within both organisations (Enquiry/DIS ; Final Vote/FDIS)

# 1-3) CEN TC12

- **TITLE:** Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries
- **SCOPE:** Standardization of the materials, equipment and offshore structures used in drilling, production, transport by pipelines and processing of liquid and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries, *excluding on-land supply systems used by the gas supply industry* and those aspects of offshore structures covered by IMO requirements (ISO TC8).
- The standardization is to be achieved wherever possible by the adoption of ISO standards.

# MEMBERS OF CEN 12

- The 30 members of CEN (see above)
- The 4 associated members (see above)
- No CEN TC12 partner member (for the time being)

## *BUT WHY NOT LIBYA?*

- 4 liaisons:
  - **OGP** (International Association of Oil and Gas Producers)
  - **API** (American Petroleum Institute)
  - **EUROGIF** (EUROpean Oil and Gas Innovation Forum)
  - **ISO TC67** (standardization of petroleum, petrochemical & natural gas)
- Chairman : Alain LOPPINET
- Secretary: Valerie MAUPIN (AFNOR)

# CEN/TC12 Vision in line with the ISO TC67 & OGP vision



Global  
Standards Used  
Locally  
Worldwide

# CEN TC12 GOAL

- CEN TC12 has, in addition to the previous vision, the following goal:

**DO IT ONCE. DO IT RIGHT. DO IT  
INTERNATIONALLY**

- Therefore our standards are developed within **ISO TC67 and Sub-Committees** and adopted back in **CEN TC12** without modification taking into account the fact that we actively participate to the elaboration of the documents.

# The BASES of the Work of CEN TC12

To reach the previous objectives We are working according to the following bases in our standardization action:

- **3 European countries (at least) shall participate to the work done in the corresponding ISO Working Groups.**
- **We use Vienna Agreement between ISO and CEN .**
- **CEN TC12 adopts ISO TC67 Standards in EUROPE.**
- **We prefer parallel voting of the standards at the stages of DIS (Preliminary Enquiry in CEN) and FDIS (Final vote in CEN) . (or UAP if impossible)**
- **European Standards become National Standards in the 30 countries of CEN when positively voted.**

# 1-4) HOW CEN TC12 WORKS?

<b>ISO TC67</b>	<b>CEN TC12</b>
<b>NWI circulated in ISO</b>	<b>NWI circulated in CEN (at the same time)</b>
<p><b><u>CONDITIONS OF ACCEPTANCE</u></b></p> <ol style="list-style-type: none"><li>1. Qualified majority with votes (according to ISO rules).</li><li>2. 3 European countries nominate experts to participate to work in ISO.</li><li>3. 1 European Project Leader is nominated</li></ol>	<p><b><u>CONDITIONS OF ACCEPTANCE</u></b></p> <ol style="list-style-type: none"><li>1. Qualified majority with weighted votes (according to CEN rules).</li><li>2. 3 European countries nominate experts to participate to work in ISO.</li><li>3. 1 European Project Leader is nominated</li></ol>
<b>« AWI xx xxx »</b>	<b>« WI 012 yyy »</b>

# HOW CEN TC12 WORKS? (2)

<b>ISO TC67</b>	<b>CEN TC12</b>
Launching of the Draft International Standard <b>DIS XX XXX</b>	Launching in parallel of the Preliminary Enquiry <b>prEN ISO xx xxx</b>
All comments from ISO and CEN taken care of in ISO WG	Participation of European experts in ISO WG.
Launching of Final Draft International Standard <b>FDIS XX XXX</b>	Launching in parallel of the Final Vote <b>prEN ISO xx xxx</b>
<i>In ISO: 1 country = 1 vote</i>	<i>In CEN: 1 country = 1 weighted vote</i>

# HOW CEN TC12 WORKS? (3)

If the ISO vote and the CEN qualified one is positive, we will have the same standards in both organisation (for example):

**ISO xx xxx:200y**

**EN ISO xx xxx:200y**

*and*

*then by obligation in each European Country, member of the European Union only, you will have a national adoption within 6 months.*

**NF EN ISO xx xxx:200y**

**BS EN ISO xx xxx:200y**

# 1-5) CEN TC12 MAIN RESULT IN HARMONIZATION

AT MID 2007 WE ISSUED IN CEN TC12  
**101** EN ISO STANDARDS or EN (ISO  
MODIFIED) STANDARDS (& 1 TECHNICAL  
REPORT)

- 1. 95 EN ISO published standards**
- 2. 6 EN (ISO modified) standards (exclusion of gas supply industries)**
- 3. 1 CEN TR (piping + ASME B31-3 + PED )**

## 2-1) CONCERN ON API

In order to succeed in our goal, we need to have the American on board because, for Oil & Gas standards, the API (American Petroleum Institute) standards were the rule in the western hemisphere.

API is an important actor of our international deal in Exploration & Production as well as in Refinery.

- **Many API documents are the base for ISO projects (65%)**
- American experts are participating to the work done in ISO and many of them are project leaders.
- **Some work items are common in API and ISO and joint work groups exist.**
- The adoption back is the rule (some are voted in parallel as in CEN) and we have identical or modified standards (API XXX/ISO YYY)

# 2-2) PROCESS GUIDE FOR API-CRE / ISO COORDINATION

(approved by ISO TC67 SC6 & API-CRE)

- To facilitate the development and the maintenance of one set of internationally acceptable standards.
- To minimise the number of standards published separately or out of sync by API & ISO.

**The guide define all the conditions and procedure including some charts such as:**

1. **Project initiation (new standards to be co-branded)**
2. **Project initiation (revision of a co-branded standard)**
3. **Production process for an API/ISO standard.**

## 2-3) Global standards used locally worldwide

### List of ISO-API-CEN common standards

ISO	EN	API	TITLE
ISO 13628-1 : 2005 In revision	EN ISO 13628-1 : 2005 in revision WI 215	API RP 17A 4th edition	P&NGI - Design and operation of subsea production systems - Part 1 : General requirements and recommendations
ISO 10414-1 : 2001		API RP 13 B-1; 3 <sup>rd</sup> edition (ISO modified)	P&NGI- Field testing of drilling fluids Part 1 : Water-based fluids
ISO 10416 : 2002		API RP 13I ;7th edition (ISO modified)	P&NGI- Drilling fluids – Laboratory testing
ISO 10417 : 2004	EN ISO 10417 : 2004	API RP 14B 5th edition	P&NGI - Subsurface safety valve systems - Design, installation, operation and redress
ISO 10418 : 2003	EN ISO 10418 : 2003		P&NGI - Offshore production installations – Analysis design, installation and testing of basic surface process safety systems
ISO 10426-3 :2003	EN ISO 10426-3 :2004	API RP 10B-3 1st edition	P&NGI – Cements and materials for well cementing – Part 3: Testing of deep water well cement formulation

# 2-4) Results of Global standards ISO-API-CEN

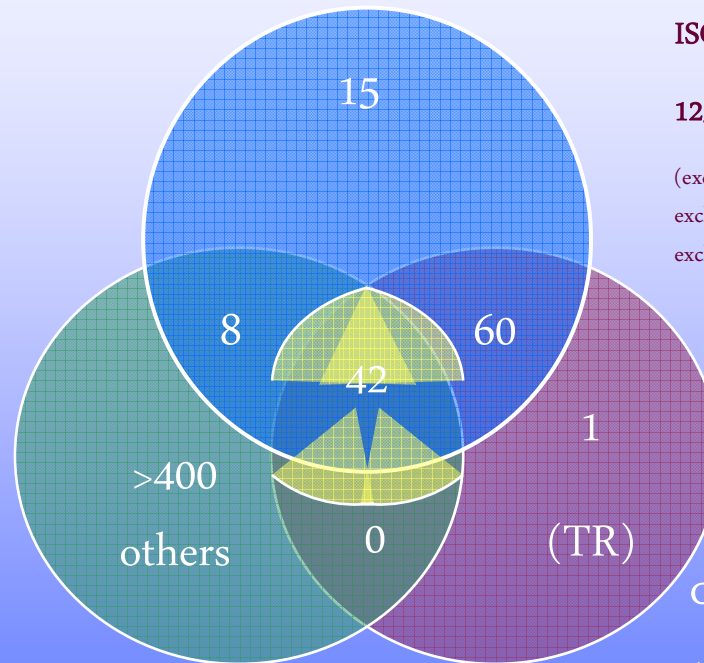
API

Upstream & Refining

50 cobranded published;

(excl. NACE MR0175/ISO 15156;  
 excl API Spec. 9A/ISO 10425 from ISO/TC105  
 excl ISO 10497 from ISO/TC 153;  
 Excl 4 MPMS adoptions from ISO/TC28)

Note: 32 of the other >400 API Standards are linked with 35 of the other 75 ISO/TC67 Standards



ISO/TC67

125 published

(excl. ISO 10425 from ISO/TC105;  
 excl ISO 10497 from ISO/TC 153;  
 excl. so-called “fast-track” standards)

CEN/TC12

103 published

(incl. EN ISO 10434, and EN ISO 17292 from CEN/TC69; and  
 incl. TR for use of ASME B31.1)

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**THANKS FOR YOUR ATTENTION**

**ANY QUESTION?**

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