INTRODUCTION

The year 2021 is coming to an end. It was a remarkable year; not only because all standardisation activities took place fully virtually and remotely, but also because after about 30 years after reactivation of ISO/TC 67, the members agreed to change title and scope to make the technical committee fit for another 30 years. Our new title and scope fit perfectly in the sector’s ambition to reach ‘net zero’ in 2050. Much more has happened in the last couple of months. This Communiqué presents you the highlights, so you will be up to date again. We would appreciate if you forward this Communiqué to your business relations to engage more stakeholders in our activities. Your feedback on this Communiqué is valued as well.

NEW PUBLICATIONS IN Q3 OF 2021

ISO/TC 67 celebrated three publications in the past quarter:

✓ ISO/TS 3250, Petroleum, petrochemical and natural gas industries — Calculation and reporting production efficiency in the operating phase [1st edition]


✓ ISO 18797-2, Petroleum, petrochemical and natural gas industries — External corrosion protection of risers by coatings and linings — Part 2: Maintenance and field repair coatings for riser pipes [1st edition]

ABOUT ISO/TC 67

ISO/TC 67 is responsible for standardisation of the materials, equipment and offshore structures used in the drilling, production, transport by pipelines and processing of liquid and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries.

ISO/TC 67 has set the following goals:

✓ prepare standards required by the industry
✓ prepare standards that are adopted worldwide by bodies such as ABNT (Brazil), API (USA), CEN (Europe), GOST R (Russian Federation), GSO (Gulf Region) and SAC (China)
✓ prepare standards that are recognised by regulators
✓ publish standards that enable companies to minimise their specifications
✓ deliver standards to the target dates on the agreed work programme

Congratulations to Mr Harald Hamran, Mr Marco Chiesa and Mr Erik Broesder, respectively, and their project teams with the publication of these ISO deliverables.

Figure provides overview of product efficiency calculation and reporting work process [SOURCE: ISO/TS 3250:2021, Figure 2]
ISO/TC 67 Communiqué | Issue N° 7, November 2021

HIGHLIGHTS PLENARY MEETING OF ISO/TC 67

ISO/TC 67 organised its 41st plenary meeting virtually on 20 and 21 October 2021. Virtual meetings allow interested parties to easily participate. This was certainly valid in this case: the plenary meeting attracted about hundred participants from all over the world, acknowledging that some of them needed to connect either very early or very late during the two days. The ISO/TC 67 leadership was very pleased to see so much enthusiasm and energy. Not only due to the high level of participation this plenary meeting was successful, but also the excellent reports, good discussions and important resolutions made this meeting a ‘historic’ one.

Excellent participation at 41st plenary meeting of ISO/TC 67 [SOURCE: LinkedIn post Lennart de Waart]

Important outcomes of the 41st plenary meeting of ISO/TC 67 include:

✓ New title and scope [see separate news item]
✓ Establishment of new subcommittee on enhanced oil recovery [see separate news item]
✓ Further consideration about establishing a new subcommittee on green manufacturing and lower carbon initiatives based on the proposal by the Chinese delegation [see picture]
✓ Reallocation of ISO/TC 67/WG 5 'Aluminium alloy pipes' to ISO/TC 67/SC 5 'Casing, tubing and drill pipe'
✓ Reappointment of Mr Philip Smedley (GB) as chair of the ISO/TC 67 Management Committee, Mr Mons Hauge (NO) as convenor of ISO/TC 67/WG 8 'Materials, corrosion control, welding and jointing, and non-destructive examination (NDE)' and Mr Jin Seong Son (KR) as convenor of ISO/TC 67/WG 13 'Bulk materials for offshore projects' for a new term of three years
✓ Development of the "Authoring guidelines for easy digitalisation of content" as deliverable of the ISO/TC 67 advisory group on digital implementation to support project teams in drafting their document fit for ‘standards of the future’ (i.e. machine-readable documents)
✓ Full support to cooperate with the three pilot projects to develop full-text ISO documents with API heritage (i.e. previously co-branded standards) in close cooperation with API (the American Petroleum Institute) and IOGP (the International Association of Oil & Gas Producers) following a licence agreement between API and IOGP [see news item in ISO/TC 67 Communiqué Issue N° 6]
✓ Outline of communication strategy 2022 including participation in standards sessions at two appealing conferences [see separate news item]
**NEW TITLE AND SCOPE OF ISO/TC 67**

In our previous Communiqués, we informed about the recommendations delivered by the ISO/TC 67 chair's advisory group on the committee's title, scope and structure, reflecting the transformation of the oil and gas sector in view of the transition towards a low-carbon emission society. By ballot, the proposed new title and scope has been approved by the ISO/TC 67 members. At the ISO/TC 67 plenary meeting, the members confirmed and celebrated the new title and scope, subject to formal approval by the Technical Management Board (TMB) of ISO. The members consider this change a major milestone, demonstrating that ISO/TC 67, and with that the oil and gas sector, is fit for the future to continue delivering added value standards in cooperation with other bodies. Subcommittees and working groups will review their title and scope as well, and will make proposals for alignment with the parent committee taking into account their future activities (e.g. ISO/TC 67/SC 9 'Liquefied natural gas installations and equipment' is already considering to expand its scope to liquified hydrogen shipping).

**New title:** Oil and gas industries including lower carbon energy

**New scope:** Standardisation in the field of the oil and gas industry, including petrochemical and lower carbon energy activities.

**Excluded:**
- aspects related to petroleum and related products, fuels and lubricants from natural or synthetic sources being covered in ISO/TC 28;
- aspects related to natural gas being covered in ISO/TC 193;
- aspects related to hydrogen technologies being covered in ISO/TC 197;
- aspects related to biogas being covered in ISO/TC 255;
- aspects related to carbon dioxide capture, transportation, and geological storage being covered by ISO/TC 265;
- aspects of offshore structures subject to IMO requirements (ISO/TC 8).

**Proposed areas of work of new ISO/TC 67/SC 10:**
- Oil displacement chemicals for chemical flooding
- Injection and ignition equipment for thermal recovery
- Heat resistant additives of thermal recovery
- Chemicals used in gathering and treatment of chemical flooding produced fluid
- Wellbore treatment agents for chemical flooding
- Layered injection tools for chemical flooding
- Low shearing preparation and injection equipment for chemical flooding
- Treatment equipment for chemical flooding produced fluids
- Microbial flooding and huff-puff injectant
- Designing methods of development plan for chemical flooding

**NEW SUBCOMMITTEE ON ENHANCED OIL RECOVERY**

In our previous Communiqués, we informed about the ad-hoc group on enhanced and improved oil recovery (EOR/IOR) under Chinese leadership. Following the recommendation by this ad-hoc group, two ballots within ISO/TC 67 and the discussion of the ballot results at the plenary meeting of ISO/TC 67, the members agreed to establish ISO/TC 67/SC 10 'Enhanced oil recovery' with a scope standardisation of enhanced oil recovery as applied to onshore and offshore and other EOR technologies, excluding aspects related to carbon dioxide capture, transportation, and geological storage being covered by ISO/TC 265. Mr. Cheng Jiecheng was appointed as chair for this new subcommittee under Chinese committee management. Interested parties are welcome to join this new subcommittee by contacting their national standards body.
IOGP Standards Committee Meeting

The members of the IOGP Standards Committee gathered online on 18 and 19 October 2021. IOGP is a valued liaison organisation of ISO/TC 67 by providing significant resources and offering their materials to enable ISO/TC 67 developing and maintaining the standards that respond to stakeholder’s needs and expectations. In this respect, the IOGP Standards Committee is an important contributor by identifying new topics, carrying out preparatory work, studies and research that can be used as input for standards, and sharing experiences and viewpoints also to coordinate activities.

Similar to the ISO/TC 67 plenary meeting, IOGP welcomed many participants at their Standards Committee meeting, who were offered informative and interactive sessions. Highlights of this IOGP Standards Committee meeting included updates about:

- Contribution to a lower carbon future by deploying activities and support the need for transformative lower carbon technologies for new and existing assets and for rapid adoption, standardisation and repeatability to enable massive scale-up across the whole industry globally
- Progress with identifying the list of preferred standards to guide operators on where to focus their resources and support for industry requirements
- Update of Requirements Digitalisation Task Force with respect to the workstreams: data models, writing, standards, communications and data transfer
- Report about API Emerging Issues Task Force, aiming to provide API input and direction into cross-segment standards, technology and performance related issues
- Recognition of the work done by the Offshore Structures Specification Task Force and by Ted Fletcher

- JIP 33 ‘Standardising Procurement Specifications’
- JIP 35 ‘Offshore Structures Specification Task Force’
- JIP 36 ‘CFIHOS – Capital Facilities Information Handover Specification’
- DISC ‘Digitalisation & Information Standards Committee’

Meeting Calendar

In the face of the COVID-19 pandemic and considering the instruction from the ISO Central Secretariat that all ISO technical meetings planned until 28 February 2022 must be held virtually or postponed until after that date [NB. This period can be extended depending on the evolution of the COVID-19 pandemic], the (sub)committees of ISO/TC 67 follow the developments to decide to organise their next meetings virtually, onsite or hybrid. The following meetings are (tentatively) scheduled:
15 and 16 February 2022: ISO/TC 67/SC 7 'Offshore structures'
16 March 2022: ISO/TC 67/SC 6 'Processing equipment and systems' [intermediate meeting]
23 March 2022: ISO/TC 67 Management Committee [extended meeting]
End March/early April 2022: ISO/TC 67/SC 3 'Drilling and completion fluids, well cements and treatment fluids'
April 2022: ISO/TC 67/SC 9 'Liquefied natural gas installations and equipment'
20 and 21 April 2022: ISO/TC 67/ SC 2 'Pipeline transportation systems'
September 2022: ISO/TC 67/SC 4 'Drilling and production equipment'
2nd half of 2022: ISO/TC 67/SC 5 'Casing, tubing and drill pipe'
October 2022: ISO/TC 67 'Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries'

WORK PROGRAMMES ISO/TC 67, IOGP STANDARDS SOLUTION AND API
The work programmes of ISO/TC 67 and API are available at the following websites:
— ISO/TC 67 work programme – Standards developed under the IOGP umbrella are not shown in this work programme, until the draft standard has been transmitted from IOGP to ISO for 'fast-tracking'.
— IOGP standards solution projects – This overview is periodically updated based on newly approved project initiations by IOGP Standards Committee and publications of completed projects by ISO/TC 67.
— API standards plan – This overview is periodically updated. API standards that are supplemented by ISO will be available as 'read-only' version during the development process via their IBR reading room.

KEY STANDARDISATION SESSIONS AT INTERNATIONAL CONFERENCES IN 2022
Communication about international standards to demonstrate and unlock business value is vital, and is also an industry responsibility. ISO/TC 67 in collaboration with the IOGP Standards Committee have agreed with the organisers of two major conferences in 2022 to arrange key standardisation sessions. The objective is to inform and promote unified standards to accelerate deployment and engage stakeholders in oil and gas sector including lower carbon energy as the sector is part of the energy transition. The sector will contribute to the following conferences:

✓ OTC 2022 in Houston (United States of America) from 2 to 5 May 2022 with a:
   — special panel session on standardisation entitled 'How unified international standards enable efficiency in the energy transition' with executive panellists
   — technical session (on 4 May 2022) with several technical paper presentations regarding standards

✓ ONS 2022 in Stavanger (Norway) on 29 August to 1 September 2022 with a special standardisation session entitled 'Standardisation accelerates value creation in the oil and gas sector' with panel discussions amongst key stakeholders

More information will be made available at the ISO/TC 67 webpage in due time. Mr Runar Østebø, member of the ISO/TC 67 Management Committee, is the planning coordinator of the aforementioned sessions and can be contacted by e-mailing to runos@equinor.com.

We encourage everyone to share and take part in these conferences.

MORE INFORMATION
Contact the ISO/TC 67 Secretariat by e-mailing to energy@nen.nl or calling +31 15 2 690 326 for more information. Interested to take part? Contact your national standards body to get involved!