

ISO TC 67 WG11:Coating and Lining of Structure and Equipment for Oil and Gas Industry



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Scope:

Standardization of coating/lining, externally & internally, for corrosion control of equipment and structure (onshore & offshore) used in drilling, production, storage and processing of liquid and gaseous hydrocarbons within petroleum, petrochemicals and natural gas industries

Excluded: Aspects of pipeline coatings (ISO TC 67 SC2) and the aspects being dealt with ISO TC 35.

General overview

Members/Experts

The number of experts in WG11 (all 6 TGs) until this date, as per the Global Directory and IOGP Share File, is **69 experts from 21 countries**. The updated WG11 experts register, as on September 2019, which reflects the membership in both IOGP Share file and ISO Global Directory is explained in Annex 1 of WG11 report.

Liaisons

ISO Liaisons

ISO TC 67 SC2: Pipeline Transportation Systems

ISO TC 67 WG4: Reliability Engineering and Technology

ISO TC 35: Paints and Varnishes

ISO TC 156: Corrosion of Metals and Alloys

Liaisons (non ISO/IEC)

IOGP Coating Subcommittee

GSO TC 7 WG5 – Coating & Lining.

A cooperation with the following:

SSPC and NACE International

To plan liaisons with the above organizations

Published Standards Before 2018

ISO 16961: Petroleum, petrochemical and natural gas industries- Internal protective coating and lining of steel storage tanks. August 2015.

ISO 18797-1: Petroleum, petrochemical and natural gas industries - External corrosion protection of risers by coating and lining, Part 1: Elastomeric coating system – Polychloroprene or EPDM). September 2016

Published Standards in 2018

ISO18796-1: Petroleum, petrochemical and natural gas industries – Internal lining of process pressure vessel - Part1:Technical requirements. October 2018.

ISO 19277: Petroleum, petrochemical and natural gas industries - Qualification Testing of Coatings under insulation. December 2018.

Work Program/Progress – New Current Active projects - IOGP

Standard Number	Title	Stage	Expected publication date
ISO 18797-2	External Coating/Lining of Riser Pipes, Field Repair and Maintenance works	WD completed CD is expected end of September 2019 DIS expected in January 2020	September 2020
ISO 18796-2	Pressure Vessels Internal Coatings/ Linings – Selection of Lining Systems	WD in progress CD expected in November 2019	January 2021

Work Program/Progress – New work item proposals since Plenary 2018, Development Launched

Ref. Number	Title	Stage/Dev.	ISO/IOGP	Expected publication date
ISO/TC 67 N 1729	Competency requirements for coating inspectors	WD1 Under development	IOGP	1 st Q 2021
ISO/TC 67 N 1727	Competency requirements for coating applicator	WD1 Under development	IOGP	1 st Q 2021
ISO/TC 67 N 1728	Corrosion and fouling resistant protective coatings for tube ID of shell and tube heat exchangers	WD1 Under development	IOGP	2 nd Q 2021
ISO NP 24177	Internal coatings for corrosion protection of steel pipes, bends and fittings used in pipeline transportation systems	WD1 Under development DIS 4th Q 2020	ISO Jointly with SC2 under WG 25	2 nd , Q 2021

Plans for New Projects (Revision) – 2020 - Under IOGP

Standard Number	Title	Status
ISO 16961:2015,	Petroleum, petrochemical and natural gas industries - Internal coating and lining of steel storage tanks	PIP Sent to IOGP standards solution for review/process

WG11 Meetings

Next Planned Meetings

Face to Face WG11 Meeting

The 10th meeting will be on 9th, -10th, December 2019, just before the IOGP Coating Subcommittee meeting on 11th December 2019 in London - UK.

Next Teleconference/Webex Meetings

Five WG11 Webex meeting organized, recent one was on 18/9/2019.

All Task Groups (TGs) planed to organize teleconference Meetings in September and October 2019.

Note: TGs organize their meetings separate from WG11 meetings dates. TGs may also arrange their meetings combined with the WG meeting.

Highlights and Concerns

- WG11 succeeded to have wide range of experts from the Globe (Middle East, Europe, Americas, Asia etc.) with projects coming from the oil and gas industry to develop standards adopted back by this industry.
- WG 11 is currently working under the IOGP Standards Solution Umbrella for the technical WG early stage activities. Improvement and upgrading of this system is required to enhance and harmonies the two (ISO & IOGP) Systems and to avoid any confusion or delay in the projects development and review.
- TC 67 Secretary to remind NSB to revise the experts register in ISO Global Directory as it is required to be updated form time to time.

Opportunities, Challenges

Opportunities

- WG11 is planning to establish/launch cooperation and liaisons with stockholders and professional organizations to enhance ISO coating standards development.
- TG4 project leader provided some ideas for proposals of new projects relevant to TG4 scope: Qualification Testing of Coatings under Insulation. NWIPs/PIPs will be raised in due time on this subject. WG11 will review and study these ideas and NWIP/PIPs may be raised, when approved by WG experts.

Challenges

- Enhance the participation of experts in the WG11 meetings the by holding its meetings in various locations. Last face-to-face meeting held in Paris and the next one will be in London.
- The need to involve experts from stakeholders and professional organizations like NACE/SSPC and establish liaisons with these organizations.
- Enhance the cooperation with TC 67 SC2 & TC SC6, under Joint WGs to develop new ISO Standards on Internal coatings of pipes/pipelines/Equipment.
- Enhance the liaison with TC 35 & TC 156 and establish a mechanism to involve them in WG11 projects and get involved in their projects.
- Inviting more experts from operators/stakeholders and industry for the current and future projects.



Highlights

Lessons learnt

Developing successful new standards for the oil and gas industry requires the involvement and cooperation of operators, manufactures and service providers and utilization of their experts.