



Gulf Region Development & Adoption of Equipment Standards for Oil & Gas Industry

CPSC/OGP Workshop

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Qatar Petroleum

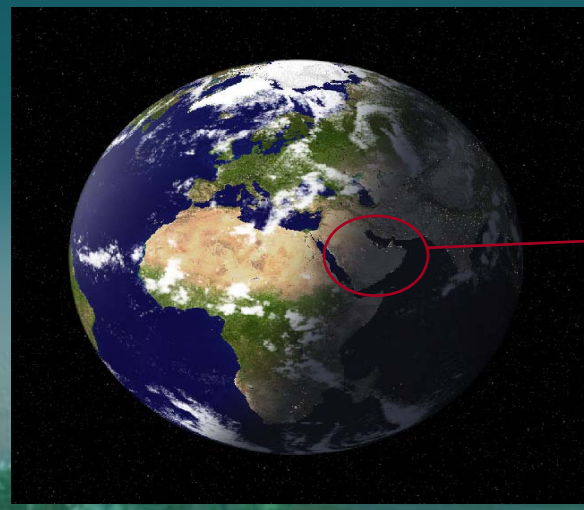
State of Qatar

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4. Development of New Gulf (GSO TC 7) Standards
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Gulf Region States

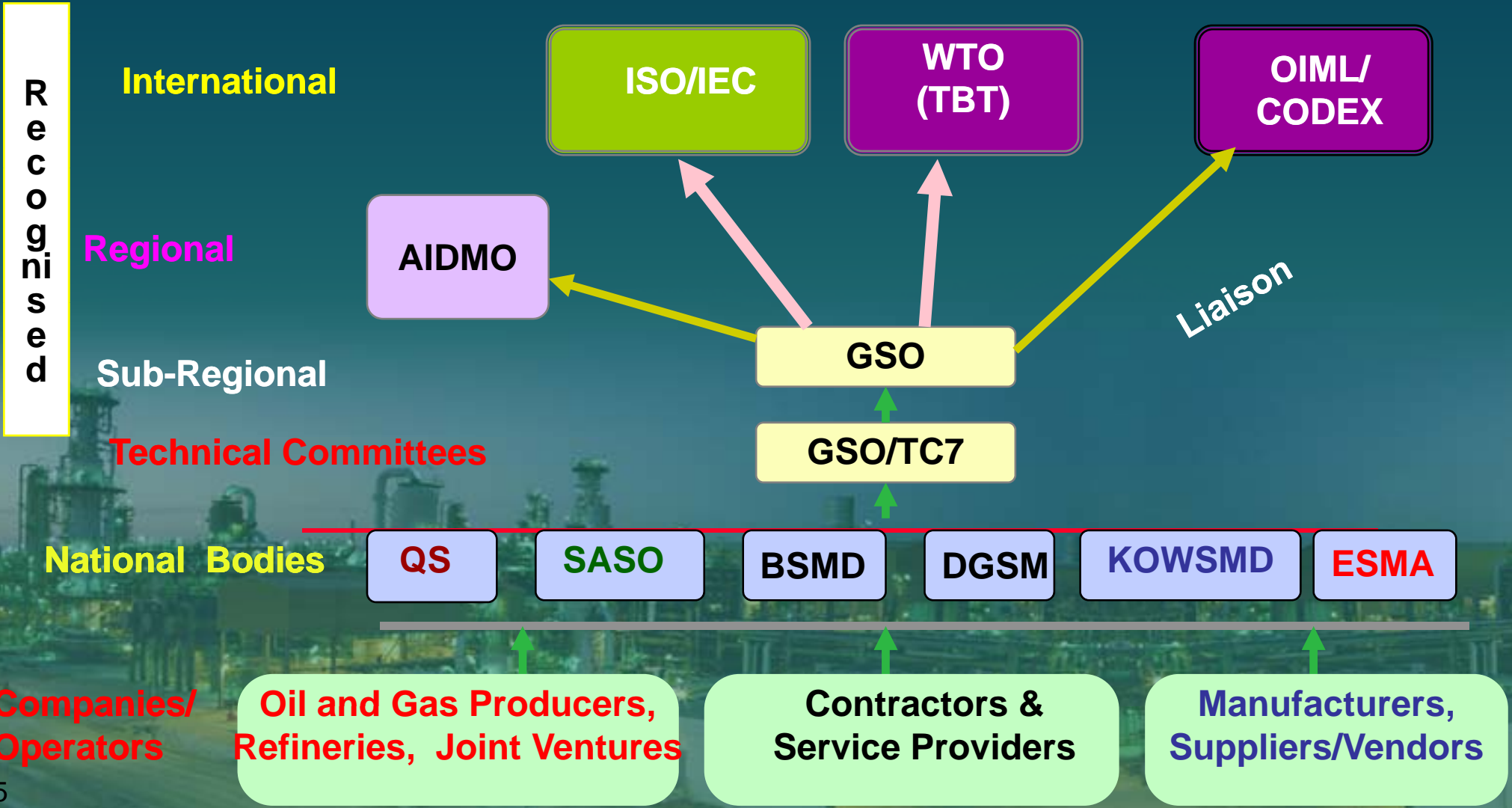
They are the GCC countries of the Arabian Peninsula located at the west coast of the Arabian Gulf and east coast of Red Sea.



Gulf Standards Technical Committee for Oil & Gas Industry in the GCC Countries- GSO TC 7

- GSO TC 7 was established as result of international Standards workshop held in Doha – 3-4 April 2006.
- The committee was established on the 19th, April 2006 by GSO Standards General Committee and Technical Council as the Seventh Committee of GSO.
- GSO TC 7 is responsible for the GCC countries standardization activities in the oil, gas and petrochemical industries.
- The State of Qatar represented by Qatar Petroleum is currently the chair and Secretary of this committee.
- The committee members are from GCC countries standardization bodies/authorities and oil and gas companies.

GSO TC7 RELATIONS WITH OTHER BODIES/PARTIES



GSO TC 7 MISSION & VISION

Mission:

To develop, update, maintain value-added Gulf Standards for petroleum, natural gas and petrochemical industries. This is by adopting international standards, generating new and updating existing Gulf Standards.

Vision:

Gulf Standards used by all GCC countries and based on latest international and industry standards, satisfying the region specific requirements and market availability.

GSO TC 7 OBJECTIVES

- a) To harmonize GCC Countries Oil, Gas & Petrochemical companies standards with each other and with international standards.
- b) To develop new and update current Gulf Standards to satisfy the GCC Countries specific requirements and international standardisation needs.
- c) To establish a system for involvement of GCC Countries in ISO TC 67, TC176, TC 28 and TC 193 technical work to include Gulf Region specific requirements.
- d) To adopt latest revisions of International Standards (ISO/IEC), which satisfy the region specific requirements as Gulf Standards.
- e) To establish a database for Gulf Oil & Gas Companies Standards & Specifications and provide easy access to all members.

GSO TC 7– SCOPE OF WORK

The Gulf Oil & Gas Standards Committee covers the following standardization activities:

- 1) Material, equipment and offshore structures used in Petroleum, Petrochemical, Natural Gas industries and LNG industries i.e., drilling, production, processing, transportation and storage equipment.
- 2) Petroleum and natural gas products (refined products, i.e., fuel Products & LNG/NGL Products) and petrochemicals.
- 3) Technical terminology, Inspection and testing, Management Systems , (Quality, Health , Safety , and Environment).

Managing Equipment Standardization in the Gulf Region

Identifying, Analyzing & Satisfying the Standardization Needs

Managing Resources

- GSO TC 7 Members
- Working Groups
- National/Gulf Technical Committees
- International Technical Committees

Adoption of International Standards

Developing, Updating and Supporting Gulf Standards

New Standards
Harmonization of Company Standards
Current Standards

Training, Awareness

Standards Database

Managing/Coordinating Relationship

- National Bodies
- Oil & Gas Companies
- Manufactures./ vendors
- International

Satisfied Custodians End Users/Customers

Equipment Standards Development - GSO TC7 Approach

Generate New, Adopt International and Update Existing Equipment Standards to Satisfy:

- Company/country main requirements for quality, HSE, uniformity efficiency, reliability and cost optimization.
- Latest revisions of international, national, regional and industry standards
- Company specific requirements, practices/experiences
- National/local regulations and legislative rules
- Latest Technology and market availability
- Cost optimization and good engineering practice.

Why International Equipment Standards is Required For the Gulf Region

- **Gulf Oil & Gas Industry can benefit from International Oil & Gas Industry experiences, new technology, managerial and organizational practices.**
- **Easy to prepare Gulf Oil & Gas Industry required Standards and practices, which enable companies to minimize their specifications.**
- **Establish common standards in Oil & Gas Industry for the benefit of world trade (Technology and information transfer) within the same regional area.**

Gulf Region Involvement in International Standardization

ISO TC 67: Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries.

TC 67/SC 2: Pipeline Transportation Systems

TC 67/SC 6: Processing Equipment and Systems.

TC 67/SC 7: Offshore Structures.

TC 67/WG 2: Conformity Assessment.

TC 67/WG 8: Materials, Corrosion control, welding and joining and non-destructive examination

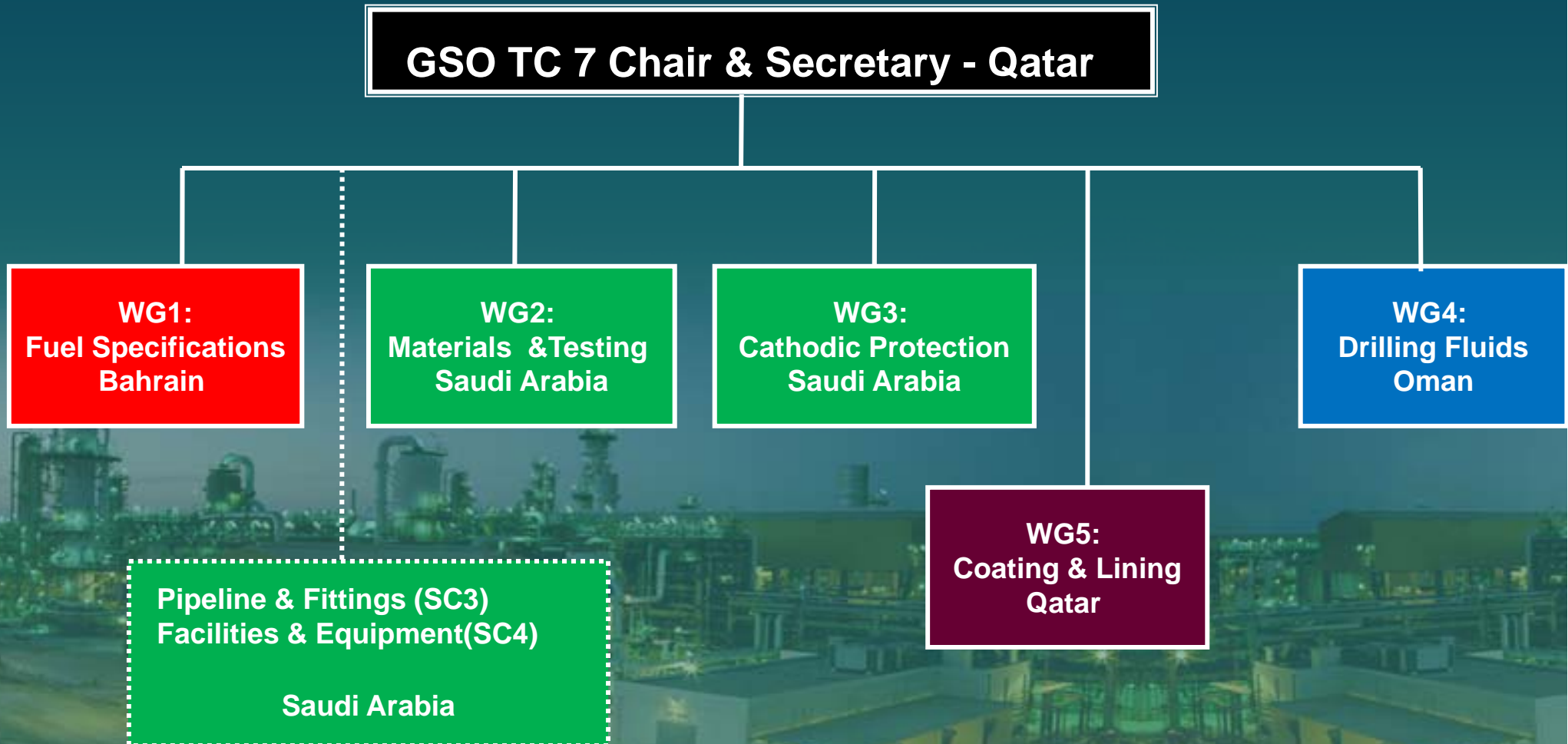
TC 67/WG 7: Corrosion Resistant Materials.

TC 67/WG10: LNG Equipment and Installation.

ADOPTION OF INTERNATIONAL STANDARDS IN THE GULF REGION

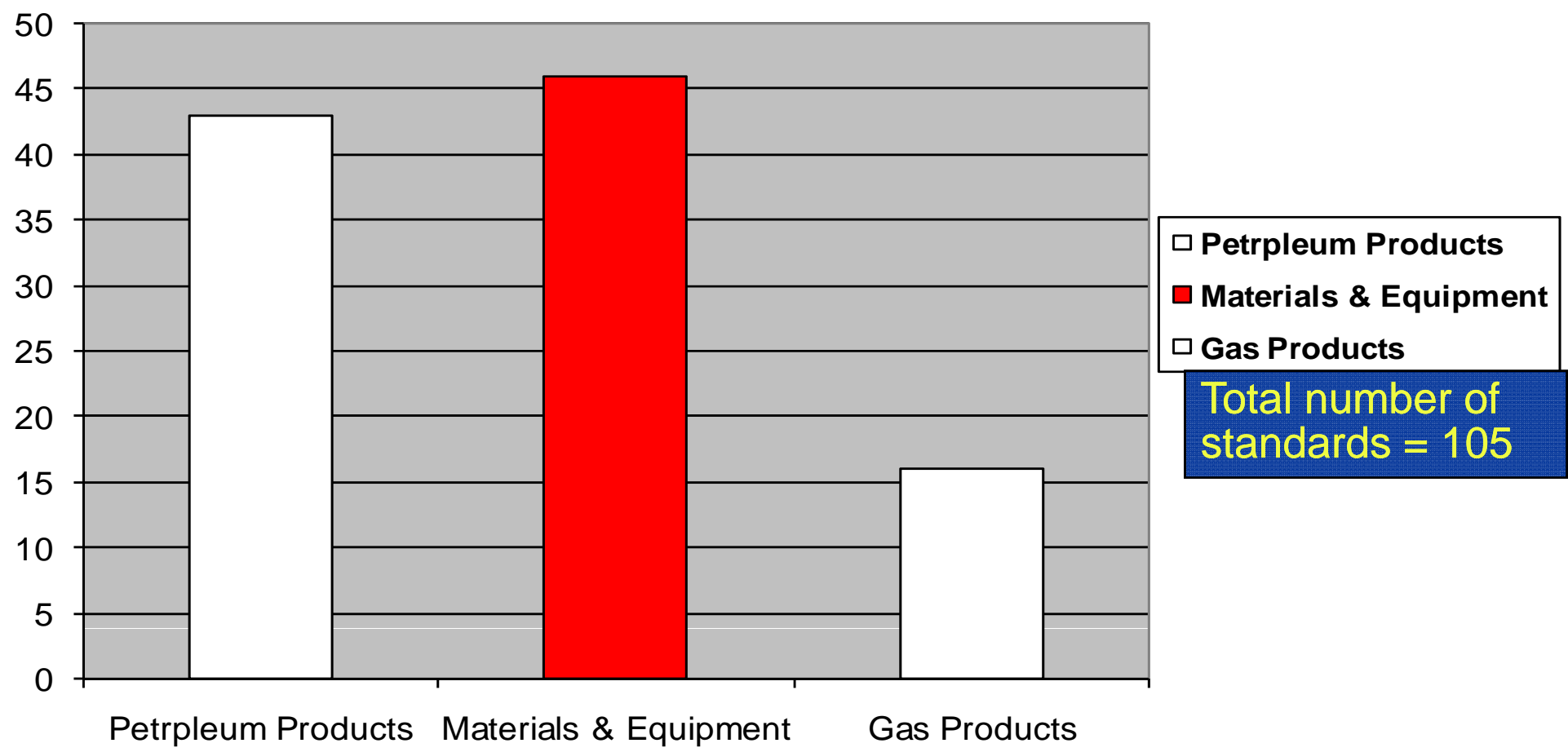
- GSO TC 7 members joined the ISO TC 67 as P & O members to facilitate the adoption of ISO Standards.
- GSO TC 7 work program includes proposals for adoption of wide range of ISO standards as Gulf Standards, as proposed by member countries. All ISO standards to be adopted as Gulf Standards shall be reviewed and agreed by GCC countries. GCC Cover- note pages should be added to the adopted standard.
- GSO TC 7 members participate in the activities of ISO Technical Committee and Sub-Committees /working groups of TC 67.
- Mirror Working Groups for Gulf Standards development and adoption of ISO Standards were established to facilitate the above

Current Working Groups Under GSO TC 7



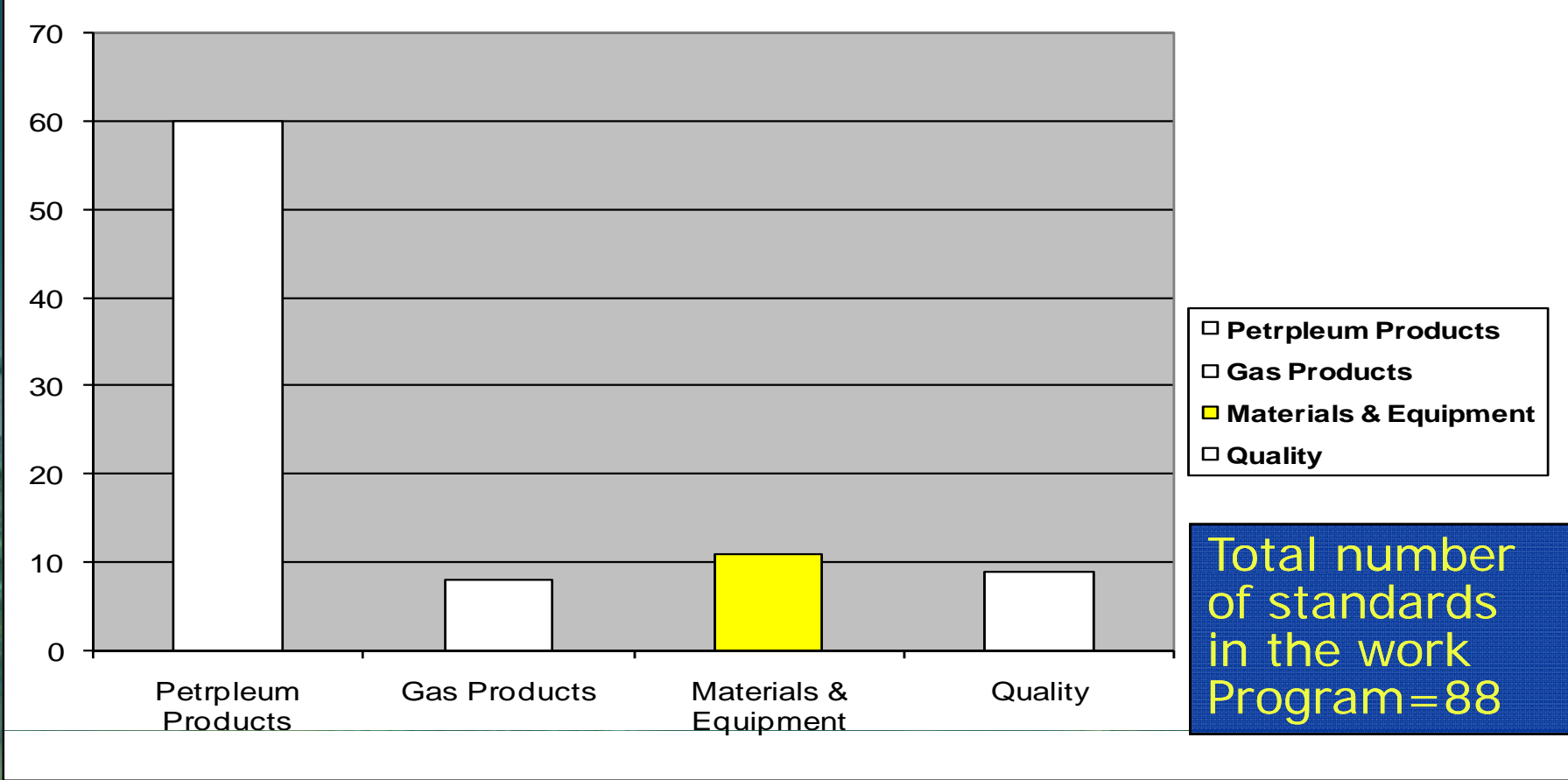
GSO TC 7 Adoption of International Standards - 2007

Adoption of ISO Standards - TC28, TC193 and **TC67**)



GSO TC 7 Work Program for 2008

Adoption of ISO Standards - TC28, TC193, TC67 & TC 176)



Example of Adopted Equipment ISO TC 67 Standard - FDS

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية GCC STANDARDIZATION ORGANIZATION (GSO)

مشروع نهائي

GSO 07/FDS/ISO 21809 - 2: 2007
ISO 21809 - 2: 2007

صناعة النفط و الغاز الطبيعي – الطلاء الخارجي للأنايب المدفونة و المغمورة
المستخدمة في أنظمة خطوط أنابيب النقل –
الجزء الثاني : طلاء الإيبوكسي المنصهر المترابط

PETROLEUM AND NATURAL GAS INDUSTRIES- EXTERNAL
COATINGS FOR BURIED OR SUBMERGED PIPELINES USED IN
PIPELINE TRANSPORTATION SYSTEMS –
PART 2: FUSION-BONDED EPOXY COATINGS

Prepared By
Gulf Standards Committee for Oil & Gas Industry in the GCC

This document is a draft GSO Standard circulated for comments. It is, therefore, subject to alteration and modification and may not be referred to as a GSO Standard until approved by GSO Board of Directors.

تقديم

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية هيئة إقليمية تضم في عضويتها الأجهزة الوطنية للمواصفات والمقاييس في دول الخليج العربية ، ومن مهام الهيئة إعداد المواصفات القياسية الخليجية بواسطة لجان فنية متخصصة وقد قامت هيئة التقييس لدول مجلس التعاون لدول الخليج العربية ضمن برنامج عمل اللجنة الفنية رقم 7 TC "اللجنة الفنية الخليجية لقطاع النفط والغاز" بتبني المواصفة القياسية رقم 2007 : ISO 21809-2 : صناعة النفط والغاز الطبيعي – الطلاء الخارجي للأنايب المدفونة و المغمورة المستخدمة في أنظمة خطوط أنابيب النقل – الجزء الثاني : طلاء الإيبوكسي المنصهر المترابط . والتي أصدرتها " المنظمة الدولية للتقييس " وذلك بلغتها الأصلية . وقامت (دولة قطر) بإعداد مشروع هذه المواصفة.

وقد اعتمدت هذه المواصفة كمواصفة قياسية خليجية بلغتها الأصلية دون إدخال أية تعديلات فنية عليها وذلك في اجتماع مجلس إدارة الهيئة رقم () ، الذي عقد بتاريخ / / هـ ، الموافق . / /

Foreword

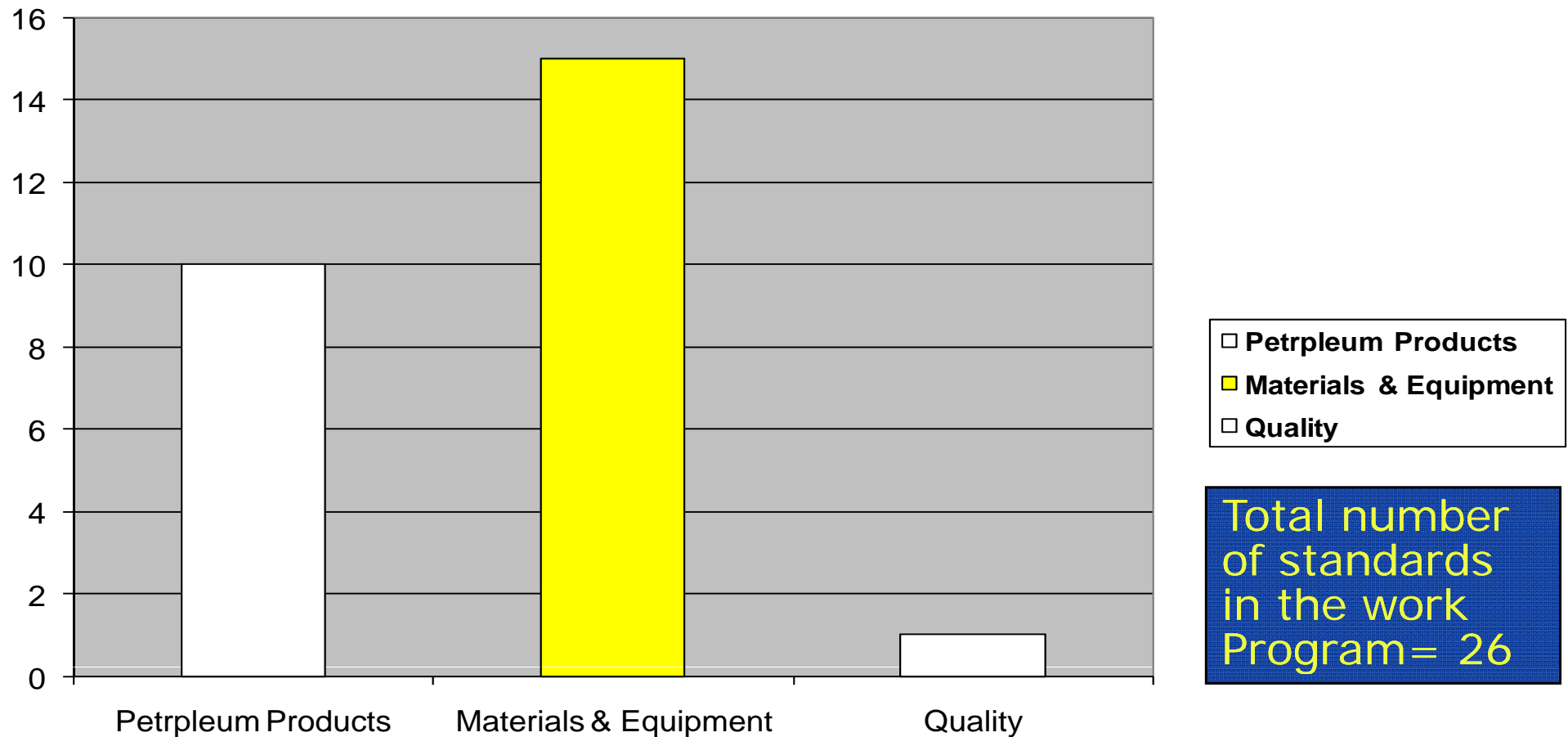
Standardization Organization for GCC (GSO) is a regional Organization which consists of the National Standards Bodies of GCC member States. One of GSO main functions is to issue Gulf Standards /Technical regulation through specialized technical committees (TCs).

GSO through the technical program of committee TC No.: 7 " GSO Technical Committee for oil & gas industry in the GCC" has adopted the International Standard No. **ISO 21809 - 2: 2007** "PETROLEUM AND NATURAL GAS INDUSTRIES- EXTERNAL COATINGS FOR BURIED OR SUBMERGED PIPELINES USED IN PIPELINE TRANSPORTATION SYSTEMS – PART 2: FUSION-BONDED EPOXY COATINGS" issued by (International Organization for standardization) in its original language. The Draft Standard has been prepared by (State of Qatar)

This standard has been approved as a Gulf Standard without any technical modifications (to be stated) by GSO Board of Directors in its meeting No. () , held on / / H, / / G.

GSO TC 7 Work Program for 2008

New Work Items & Updating (Project) Standards



Development of New GSO TC 7 Standards - Examples

- 1-- Painting & Wrapping of Metal Surfaces (CD)
- 2- Quality Requirements for Procurements of Material & Equipment (CD)
- 3- External Coating of Riser Pipes – Offshore Structure (CD)
- 4- Coating & Lining of Storage Tanks (DS)
- 5- Corrosion Inhibitors for Oil & Gas Production Facilities (DS)
- 6- Corrosion Monitoring for Oil & Gas Production Facilities (FDS)
- 7- Cathodic Protection of Storage Tanks (CD)
- 8- Cathodic protection of Well Casings (DS)
- 9- Cleaning, Gauging & Flooding of New Pipelines (CD)
- 10- Hydrostatic Testing of New Pipelines (CD)
- 11- Pre-commissioning & Commissioning of New Pipelines (CD)

Example of GSO TC 7 Developed Equipment Standard FDS

هيئة التقييس لدول مجلس التعاون دول الخليج العربية GCC STANDARDIZATION ORGANIZATION (GSO)

مشروع نهائي

GSO 07/FDS/01

أنظمة مراقبة التآكل الخاصة بالتجهيزات اللازمة لإنتاج النفط والغاز

CORROSION MONITORING SYSTEMS FOR OIL AND GAS PRODUCTION FACILITIES

Prepared By
Gulf standards committee for oil&gas industry in the Gcc

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تقديم

هيئة التقييس لدول مجلس التعاون دول الخليج العربية هيئة إقليمية تضم في عضويتها الأجهزة الوطنية للمواصفات والمقاييس في دول الخليج العربية ، ومن مهام الهيئة إعداد المواصفات القياسية الخليجية بواسطة لجان فنية متخصصة .

وقد قامت هيئة التقييس لدول مجلس التعاون دول الخليج العربية ضمن برنامج عمل اللجنة الفنية رقم 7 " اللجنة الفنية لمواصفات قطاع النفط والغاز " بإعداد هذه المواصفة الخليجية من قبل (دولة قطر) وقد تم إعداد المشروع بعد استعراض المواصفات القياسية العربية والأجنبية والدولية والمؤلفات المرجعية ذات الصلة

وقد اعتمدت هذه المواصفة كمواصفة (قياسية / لاتحة فنية) خليجية بلغتها الأصلية دون إدخال أية تعديلات فنية عليها وذلك في اجتماع مجلس إدارة الهيئة رقم () ، الذي عقد بتاريخ / / هـ ، الموافق / / .

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GSO through the technical program of committee TC No.: 7 " GSO Technical committee For oil & gas industry in the GCC " has prepared this Standard. The draft Standard has been prepared by (State of Qatar).

The draft Standard has been prepared based on relevant ADMO, International and National foreign Standards and references.

This standard has been approved as Gulf (Standard / Technical Regulation) without any technical modifications by GSO Board of Directors in its meeting No..../....held on / / H , / / G

Challenges Facing the Adoption of Equipment International Standards in Gulf Region

- Availability of International Standards Covering All Needs
- Operation /Existing Facilities Requirements /Standards
- Long Term Adoption of Industry and Company Standards
- Region Environment , Local Regulations and Legislative Rules.
- Participation of Gulf Countries specialists in International Technical Committees/working Groups programs.



GULF STANDARDS BASED ON INTERNATIONAL STANDARDISATION AND SECTOR SPECIFIC REQUIREMENTS

***IS A KEY TO SUCCESS FOR GULF REGION
COUNTRIES ECONOMY***

Thank You

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