

**International Standards Workshop,
Astana, Kazakhstan**

25/26th May 2005

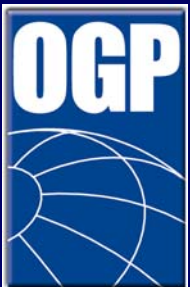
**Moving towards international
standards in the oil and gas
industry**



**Dr Donald Smith
Technical Manager OGP**

What is OGP?

- The International Association of Oil & Gas Producers formed in 1974.
- OGP members include the world's leading private and state-owned oil and gas companies, their national and regional associations and major upstream contractors and suppliers.
- Members produce more than half of the world's oil and about one third of its gas.
- Offices in London and Brussels



Base region of Members

Europe

AMI	ENI	Hydro	Statoil ASA
BP	IFP	OLF	Total
BG Group	IPIECA	OMV	Tullow Oil
DONG	IOOA	Repsol-YPF	UKOOA
Denerco	Mærsk	Schlumberger	WEG
Energy Institute	NOGEPA	Shell	

31 members active in region

Russia & Caspian region

AgipKCO
TNK - BP Management

17 members active in region

Asia & Australasia

BHP Billiton	Petronas Carigali
Cairn Energy	Premier Oil
CNOOC Ltd	PTT EP
JOGMEC	Woodside
Papuan Oil Search	

21 members active in region

Middle East

ADNOC	Rasgas
Kuwait Oil	RECSO
QP	Saudi Aramco

25 members active in region

Africa

Greater Nile Petroleum
SONATRACH

24 members active in region

South America

ARPEL	PDVSA
Hocol	Petrobras

19 members active in region

North America

Amerada Hess	M-I SWACO
API	Occidental
Chevron	Pemex
ConocoPhillips	PetroCanada
ExxonMobil	Unocal
IADC	

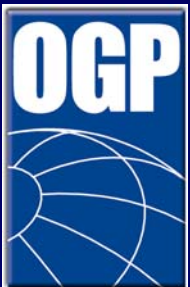
20 members active in region

OGP vision

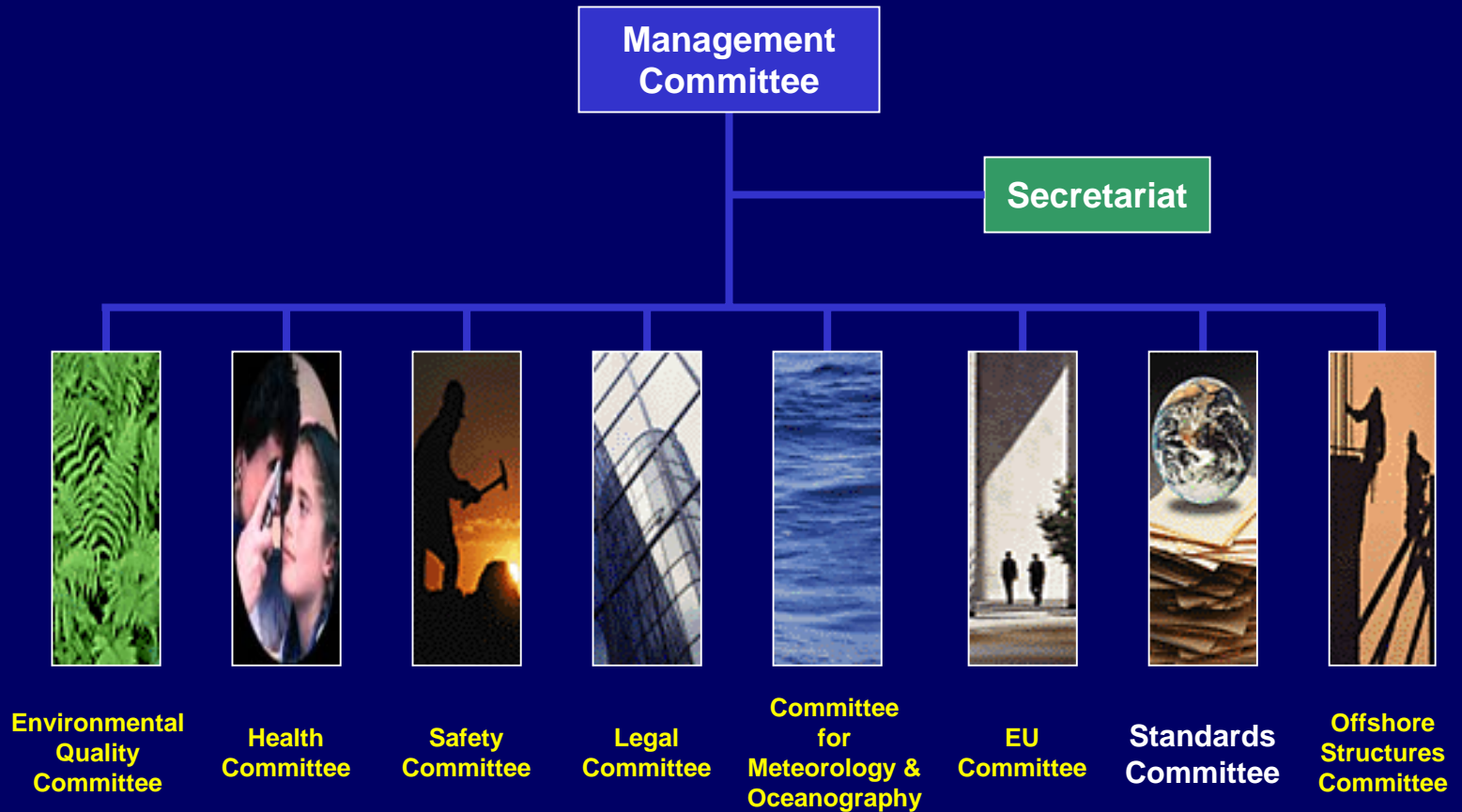
To work on behalf of all the world's upstream companies to promote responsible and profitable operations

OGP mission

- To represent the interests of the upstream industry to international regulatory and legislative bodies
- To achieve continuous improvement in safety, health and environmental performance and in the engineering and operation of upstream ventures
- To promote awareness of Corporate Social Responsibility within the industry and among stakeholders



OGP Organisation



Why make ISO/IEC standards?

- To facilitate global trade
- Transfer and maintain an international experience & best practices carrier, for improved solutions
- Offers global expert networking possibilities
- Open, voluntary participation & use of standards
- Simple and safe design and fabrication
- Reduce need for company specifications
- Reduce need for national regulations



Made for and by the E&P industry
Therefore OGP takes an interest in standards

OGP Standard Committee membership ¹

Representative	Company	Country	Other functions
Wilson Barbosa de Oliveira	Petrobras	Brazil	
Anatoly Baryshnikov	Eni	Italy	
Gerhard Froelich	WEG	Germany	
Alf Reidar Johansen (Chair)	Hydro	Norway	
Alain Loppinet	BNPe	France	CEN/TC12 Chair
Greg Lever	PetroCanada	Canada	
Martin Maeso	Energy Institute	UK	
David Miller	API	USA	API Std. Progr. dir.
Saif Al Naimi	Qatar Petroleum	Qatar	
Terry Qin	CPSC	China	
Neil Reeve	Shell	Netherlands	IFAN President
Alain Samne	ISO	Switzerland	ISO/TC67 Progr. mgr.
Cheryl Stark	BP	USA	ISO/TC67 Chair
Mike Swidzinski	ConocoPhillips	UK	
Graham Thomas	EUROPIA/BP ²	UK	EUROPIA SOEAG Chair
Richard Torgersen	ExxonMobil	USA	
Ramon Torra	Repsol-YFP	Spain	
Gilles Trican	Total	France	

¹ Plus corresponding members from: BG, Chevron, DONG, Mærsk, Premier and Saudi Aramco.

² EUROPIA liaison.



OGP Standards Committee

Terms of References

The main role is to serve as a forum for sharing information on standards work, agreeing issues, coordinating and developing recommendations and positions on standards issues of interest and value to the E&P industry worldwide. Specifically to:

- monitor and promote development of international standards
- share best practices of companies in-house standardisation work
- liaise with standards organisations, such as API
- stewardship of the OGP's liaison memberships with ISO and CEN
- seek to influence efficient use of resources
- identify areas where the OGP should take a pro-active role
- review progress, ensure priorities are suitable for OGP members
- ensure that OGP members are adequately represented
- promote use of standards within member companies



OGP position on standards

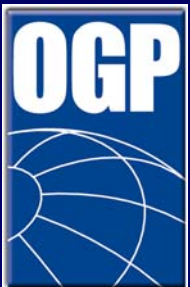
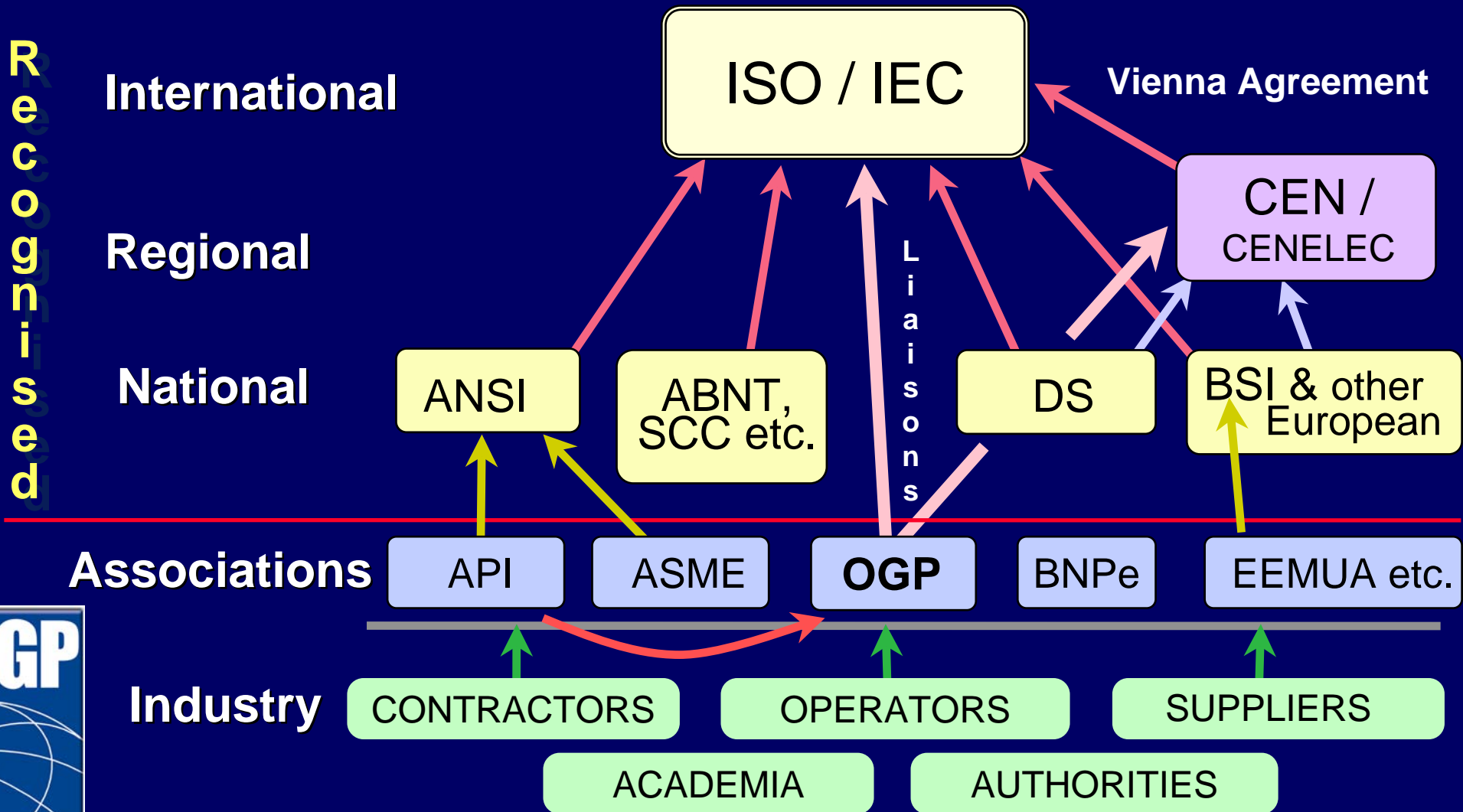
The OGP has been a catalyst for change in industry 's approach to standards and strongly supports the internationalisation of key standards used by the Petroleum and Natural Gas Industries. OGP 's position on standards is:

- development and use of ISO and IEC standards should be promoted
- development of standards should be based on a consensus of need
- “users” should be represented on standards work groups
- duplication of effort should be avoided
- standards should be simple and fit for purpose
- International standards should be used without modification wherever possible
- company specifications should be minimised and written, where possible, as functional requirements.



The adoption of this approach is expected to minimise barriers to trade, enable more efficient worldwide operations, and improve the technical integrity of equipment, materials, and offshore structures used by the Petroleum and Natural Gas Industries.

Standardisation bodies – relationships



OGP & ISO initiative

- OGP supported the ISO initiative in 1987 to develop ISO standards for the Petroleum & Natural Gas Industry.
- This created a global arena for standards development, where all nations concerned have a role to play.
- OGP supported also the desire for ANSI/API, US, to assume responsibility for the ISO/TC67 secretariat.



TC67
Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries



Executive and Management Committees

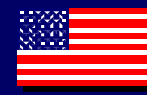
SC 2
Pipelines



SC 3
Drilling and workover fluids and cements



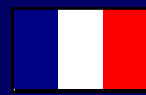
SC 4
Drilling and production equipment



SC 5
OCTG



SC 6
Refinery equipment



SC 7
Offshore structures



WG 2
Conformity Assessment



WG 4
Reliability engineering & technology



WG 5
Aluminium alloy pipe



WG 7
Materials for use in H₂S containing environments



WG 9
Life cycle costing



New standards for the Oil and Gas Industry

OGP promotes the development and use of ISO and IEC standards - International standards should be used wherever possible

ISO Standards for use in the oil & gas industry

ISO 10418 ISO 10423 ISO 10434 ISO 13533 ISO 13534 ISO 13535 ISO 13626 ISO 13702 ISO 13703 ISO 14224 ISO 14692 ISO 14693	Basic surface safety systems Wellhead & christmas tree equipment Bolted bonnet steel gate valves (Rev) Drill-through equipment (BOPs) Hoisting equipment - care/maint Hoisting equipment - specification Drilling and well-servicing structures Control & mitigation of fire & explosion Offshore piping systems Reliability/maintenance data GRP piping, Parts 1-4 Drilling equipment	ISO 15156-1 ISO 15156-2 ISO 15156-3 ISO 15138 ISO 15544 ISO 15665 ISO 17292 ISO 17776 ISO/TS 29001	Selection of cracking resistant materials for use in H ₂ S environments Cracking-resistant steels and cast irons for use in H ₂ S environments Cracking-resistant alloys for use in H ₂ S environments HVAC offshore Emergency response Life cycle costing, Parts 1-3 Metal ball valves Assessment of hazardous situations Sector-specific quality management system	ISO 5977-5 ISO 10424-1 ISO 10424-2 ISO 10434 ISO 10437 ISO 10438 ISO 10439 ISO 10440-1 ISO 10440-2 ISO 10441 ISO 10442 ISO 13631 ISO 15691	Gas turbines - procurement Rotary drilling equipment Threading, gauging and testing of rotary connections Steel gate valves Special-purpose steam turbines Lubrication, shaft-sealing and oil-control systems, Parts 1-4 Centrifugal compressors Rotary PD process compressors (Rev) Rotary PD packaged air compressors Flexible couplings - special Integrally geared air compressors Reciprocating gas compressors High speed enclosed gear units	ISO 13704 ISO 13705 ISO 13706 ISO 13707 ISO 13709 ISO 13710 ISO 14691 ISO 15547-1 ISO 15547-2 ISO 15649 ISO 15761 ISO 16812 ISO 21049	Calculation heat tube thickness (Corr) Fired heaters for general service Air-cooled heat exchangers (Rev) Reciprocating compressors Centrifugal pumps Reciprocating positive displacement pumps Flexible couplings - general Plate & frame type heat exchangers (Rev) Brazen aluminium platefin type heat exchangers Piping Steel valves DN 100 and smaller Shell & tube heat exchangers Centrifugal and rotary pumps shaft sealing
ISO 13628-1 ISO 13628-2 ISO 13628-3 ISO 13628-4 ISO 13628-5	Subsea production systems (Rev) Subsea flexible pipe systems (Rev) Subsea TFL pumpdown systems Subsea wellhead & christmas trees Subsea control umbilicals	ISO 13628-6 ISO 13628-7 ISO 13628-8 ISO 13628-9 ISO 13628-10 ISO 13628-11	Subsea production controls (Rev) Completion/workover riser system ROV interfaces ROV intervention systems Bonded flexible pipe Flexible pipe systems for subsea and marine applications	ISO 13819-2 ISO 19900 ISO 19901-1 ISO 19901-2 ISO 19901-4 ISO 19901-5	Fixed steel offshore structures Offshore structures - general requirements Meteocean design and operating considerations Seismic design Geotechnical and foundation design Weight control	ISO 3183 ISO 13625 ISO 13847 ISO 14315 ISO 14725 ISO 15589-1 ISO 15589-2 ISO 15590-1 ISO 15590-2 ISO 15590-3 ISO 16708 ISO 21329	Linepipe, Parts 1-3 Pipelines Pipeline welding Pipeline valves Subsea pipeline valves Cathodic protection for on-land pipelines Cathodic protection for offshore pipelines Pipeline induction bends Pipeline fittings Pipeline flanges Pipeline reliability-based limit state design Test procedures for pipeline mechanical connectors
ISO 10405 ISO 10407-1 ISO 10414 ISO 10416 ISO 10417 ISO 10426-1 ISO 10426-2 ISO 10426-3 ISO 10426-4 ISO 10426-5	Care/use of casing/tubing Drill stem design Field testing of drilling fluids, Part 1-2 Drilling fluids - lab testing Subsurface safety valve systems (Rev) Well cementing Testing of well cements Testing of deepwater well cement Preparation and testing of atmospheric foamed cement slurries Shrinkage and expansion of well cement	ISO 10427-1 ISO 10427-2 ISO 10427-3 ISO 10432 ISO 11960 ISO 11961 ISO 13500	Bow spring casing centralizers Centralizer placement and stop-collar testing Performance testing of cement float equipment Subsurface safety valves (Rev) Casing and tubing (Rev) Drillpipe Drilling fluids	ISO 13503-1 ISO 13503-2 ISO 13503-3 ISO 13678 ISO 13679 ISO 13680 ISO 14310 ISO 15136-1 ISO 15463 ISO 15546 ISO 16070 ISO 17078-1	Measurement of viscous properties of completion fluids Measurement of properties of proppants Testing of heavy brines Thread compounds Connection testing CRA seamless tubes for casing and tubing (Corr) Packers and bridge plugs Progressing cavity pump systems Field inspection of new casing, tubing and plain end drill pipe Aluminium drillpipe Lock mandrels and landing nipples (Rev) Side-pocket mandrels	ISO 13503-1 ISO 13503-2 ISO 13503-3 ISO 13678 ISO 13679 ISO 13680 ISO 14310 ISO 15136-1 ISO 15463 ISO 15546 ISO 16070 ISO 17078-1	Linepipe, Parts 1-3 Pipelines Pipeline welding Pipeline valves Subsea pipeline valves Cathodic protection for on-land pipelines Cathodic protection for offshore pipelines Pipeline induction bends Pipeline fittings Pipeline flanges Pipeline reliability-based limit state design Test procedures for pipeline mechanical connectors



Standards in **brown** issued in 2004
Standards in **green** are a priority for 2005 issue
Many of these standards are adopted by API, CEN and other recognised standards bodies

New standards for the Oil and Gas Industry

OGP promotes the development and use of ISO and IEC standards - International standards should be used wherever possible

ISO Standards for use in the oil & gas industry

ISO 10418 Basic surface safety systems
 ISO 10423 Wellhead & christmas tree equipment
 ISO 10434 Bolted bonnet steel gate valves
 ISO 13533 Drill-through equipment (BOP)
 ISO 13534 Hoisting equipment - care
 ISO 13535 Hoisting equipment - specification
 ISO 13626 Drilling and well-servicing equipment
 ISO 13702 Control & mitigation of fire
 ISO 13703 Offshore piping systems
 ISO 14224 Reliability/maintenance data
 ISO 14692 GRP piping, Parts 1-4
 ISO 14693 Drilling equipment

ISO 15156-1 Selection of cracking resistant materials for use in H₂S environments
 ISO 15156-2 Cracking-resistant steels and cast irons for use in H₂S environments

ISO 5977-5 Gas turbines - procurement
 ISO 10424-1 Rotary drilling equipment

ISO 13704 Calculation heat tube thickness (Corr)
 ISO 13705 Fired heaters for general service

Standards Published: 109

API Adoptions: 36

CEN Adoptions: 79

Kazakhstan is encouraged to adopt these international standards.

ISO 13628-1 Subsea production systems
 ISO 13628-2 Subsea flexible pipe systems
 ISO 13628-3 Subsea TFL pumpdown systems
 ISO 13628-4 Subsea wellhead & christmas trees
 ISO 13628-5 Subsea control umbilicals

ISO 10405 Care/use of casing/tubing
 ISO 10407-1 Drill stem design
 ISO 10414 Field testing of drilling fluids
 ISO 10416 Drilling fluids - lab testing
 ISO 10417 Subsurface safety valve systems
 ISO 10426-1 Well cementing
 ISO 10426-2 Testing of well cements
 ISO 10426-3 Testing of deepwater well cements
 ISO 10426-4 Preparation and testing of atmospheric foamed cement
 ISO 10426-5 Shrinkage and expansion of well cement

ISO 15046 Minimum torque pipe
 ISO 16070 Lock mandrels and landing nipples (Rev)
 ISO 17078-1 Side-pocket mandrels

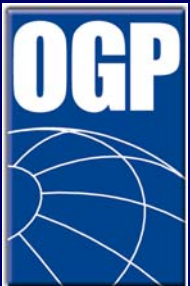
ISO 13704 Calculation heat tube thickness (Corr)
 ISO 13705 Fired heaters for general service
 ISO 13706 Air-cooled heat exchangers (Rev)
 ISO 13707 Reciprocating compressors
 ISO 13708 Centrifugal pumps
 ISO 13709 Reciprocating positive displacement pumps
 ISO 13710 Flexible couplings - general
 ISO 13711 Plate & frame type heat exchangers (Rev)
 ISO 13712 Brazed aluminium platefin type heat exchangers
 ISO 13713 Piping
 ISO 13714 Steel valves DN 100 and smaller
 ISO 13715 Shell & tube heat exchangers
 ISO 13716 Centrifugal and rotary pumps shaft sealing

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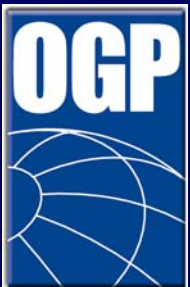
OGP Plan for 2005 and beyond

- Continue to support the development of ISO/IEC standards
- Monitor and influence adoption of ISO standards
- Plan new standards workshop or
- Consider new “standards summit” meeting
- Work with regulators (eg through the International Regulators Forum) to further the recognition of ISO/IEC standards within local regulations



Concluding Remarks

- The O&G industry has the knowledge and resources to produce the standards it needs.
- Join the ISO and IEC work.
- Capture the value added by making use of new ISO and IEC standards
- Work with your national standards bodies and regulators to adopt and reference international ISO & IEC standards.





Global Standards Used Locally Worldwide



www.ogp.org.uk

www.iso.org

www.iec.ch