

**BUSINESS PLAN  
ISO/TC 67**

**“Materials, equipment and offshore structures for the petroleum and natural gas industries”**

**1 INTRODUCTION**

**1.1 ISO technical committees and business planning.**

The extension of formal business planning to ISO Technical Committees (ISO/TCs) is an important measure which forms part of a major review of business. The aim is to align the ISO work programme with expressed business environment needs and trends and to allow ISO/TCs to prioritise among different projects, to identify the benefits expected from the availability of International Standards, and to ensure adequate resources for projects throughout their development. Your role in the implementation of the Business Planning concept will contribute significantly to the overall effectiveness of international standardization.

We express our sincere appreciation and thanks for your time in reviewing this Business Plan.

**1.2 International standardization and the role of ISO.**

The foremost aim of international standardization is to facilitate the exchange of goods and services through the elimination of technical barriers to trade.

Three bodies are responsible for the planning, development and adoption of International Standards: ISO (International Organization for Standardization) is responsible for all sectors excluding Electrotechnical, which is the responsibility of IEC (International Electrotechnical Committee), and most of the Telecommunications Technologies, which are largely the responsibility of ITU (International Telecommunication Union).

ISO is a legal association, the members of which are the National Standards Bodies (NSBs) of some 130 countries (organizations representing social and economic interests at the international level), supported by a Central Secretariat based in Geneva, Switzerland.

The principal deliverable of ISO is the International Standard.

An International Standard embodies the essential principles of global openness and transparency, consensus and technical coherence. These are safeguarded through its development in an ISO Technical Committee (ISO/TC), representative of all interested parties, supported by a public comment phase (the ISO Technical Enquiry). ISO and its Technical Committees are also able to offer the ISO Technical Specification (ISO/TS), the ISO Public Available Specification (ISO/PAS) and the ISO Technical Report (ISO/TR) as solutions to market needs. These ISO products represent lower levels of consensus and have therefore not the same status as an International Standard.

ISO offers also the Industry Technical Agreement (ITA) as a deliverable which aims to bridge the gap between the activities of consortia and the formal process of standardization represented by ISO and its national members. An important distinction is that the ITA is developed by ISO workshops and fora, comprising only participants with direct interest, and so it is not accorded the status of an International Standard.

**2 BUSINESS ENVIRONMENT OF THE ISO/TC.**

## **2.1 Description of the Business Environment.**

The following political, economic, technical, regulatory, legal, societal and/or international dynamics describe the business environment of the industry sector, products, materials, disciplines or practices related to the scope of this ISO/TC, and they may significantly influence how the relevant standards development processes are conducted and the content of the resulting standards:

The petroleum and natural gas industry is a much studied and very visible business sector in the international marketplace. Individual stakeholder groups may impact operations directly, and thereby, influence the progress of technology development and ISO standards. Petroleum and natural gas operating companies (referred to as operators throughout this business plan) with their stockholders, government, public interest groups, investing and lending institutions, employees, suppliers and contractors, media, consumers and local communities play interrelated and sometimes conflicting roles in defining the petroleum and natural gas business environment. Each group exerts economic, societal, and technical constraints on the ability to operate. Stockholders, the investment community, governments, public at large and public interest groups scrutinize the activity and intent of an operator. A balance among the parties is always sought which will allow the finding, production, transport and refining of raw hydrocarbon products. Any stoppage or hindering of activity will financially impact the operator and community, and therefore, the ability to engage in financially successful activities that support the TC program and standards preparation. Generally, the petroleum and natural gas “industry” includes operators, manufacturers and service/supply sectors that are the technical experts, project leaders and subcommittee chairs in the TC67 program.

Finding and producing oil and natural gas is becoming more difficult, as the easily attained sources have long been depleted. Activity is migrating to more challenging areas with lesser quality reservoirs and more inhospitable locales, and is requiring a shift in the technology to overcome these new obstacles. Deep water, remote locations with little infrastructure, and arctic regions are becoming commonplace for petroleum and natural gas activity. Technology is being developed to allow operation in water depth over 2500 metres, remote locations without roads or pipeline for transport, and arctic regions in which product, human life and equipment must be protected from subzero temperatures. Improving extraction efficiency of raw hydrocarbon is also a challenge faced by the industry. Tertiary recovery techniques of steam, carbon dioxide, nitrogen, surfactant, and other methods are becoming more complex, and flow patterns more complete. Indigenous populations, environmental conservation groups, legislators, regulators, employees, and suppliers influence the economic viability of any location.

Technology is key to accessing, transporting and refining these raw materials to finished products that meet a market demand and can still be produced at an attractive consumer price. And with changes in technology will come changes in the standards currently being prepared. There is a time delay for the experimental solutions to be validated by field application but eventually the successful experiments will become market norms.

Interchangeability of parts is an operational requisite, and operators see international standardization as a way to gain consensus among all participants to attain this requirement. By

defining the basic requirements via standardization, operator, manufacturer and/or service-supply and regulators benefit. Operators seek to have technically equivalent equipment available worldwide, and reduce the need for internal company specifications. Manufacturers and suppliers find standards a major method to define product specifications and economically produce equipment for the entire industry. Standards writers attempt to prepare standards for commonly available equipment, not “one-off” proprietary or patented products, which represent broadly available products. Standards that must contain patented processes or products necessitate obtaining a release for use from the company holding the patent.

Standards also include health, safety and environmental precautions, which protect workers, population in general and the surroundings. Regulators see international standards as a way to ensure the sustainable development of their countries’ natural resources, while protecting workers’ health and safety, and the environment of operation. In the past national specifications, such as BSI, Norsok, and API, have been used extensively but not applied internationally. Most market participants agree that one set of international standards is the only means to true standardization.

**2.2 Quantitative Indicators of the Business Environment.**

The following list of quantitative indicators describes the business environment in order to provide adequate information to support actions of the ISO/TC:

The petroleum and natural gas industry is an extremely complex one, in which countries produce, import, and export, both petroleum and natural gas, and are interdependent for markets of crude product and equipment to support the industry. Most countries of the world are involved in the petroleum and natural gas industry, either as exporters or importers. In some countries, the entire economy is centered on the contributions of this industry. The supply of petroleum and natural gas is directly tied to the industrialization of an economy, and this drives the demand and production. Although the levels of production have remained relatively constant over the past three years, it is anticipated that worldwide production of petroleum and natural gas is increasing as demand in developing nations is increasing and developed countries expand.

During the past three years, the volume of crude products produced has remain fairly constant, but the US \$ equivalent has fluctuated dramatically. Political and economic instability during 1998, particularly in the Far East, caused a major downturn in prices for raw products and subsequently, in dollars of revenue. Economic recovery was evident began in 1999, and the year 2000 will be even more favourable for prices. The following chart indicates these trends for *production only*, which is the market for raw product.

	1997	1998	1999
Gas Production, Billion cu. M/day	6,2	6,3	6,5
Gas Production, billion cu.ft./day	219,5	223,2	228,9
US \$, billion	191,65	160,84	173,67

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Petroleum Production, biooion cu.m/day	11 461,4	11 677,6	11 429,6
Petroleum Production, billion barrels/day	72 090	73 450	71 890
US \$, billion	347,08	220,44	298,15
TOTAL US \$,billion	538,73	381,28	471,82

Source: BP Stat Review, Platt's, and Energy Information Agency (US DOE)

The standards written by ISO/TC67 do not address the actual raw materials produced or the finished refined products but the equipment and processes needed to obtain, transport and refine the raw crude products. Equipment is reused in most cases and new equipment is only sparingly bought for replacements and expansion. Spending also indicates the industries' commitment to new technology and maintenance of safe working environments. Over the past three years in exploration and production alone, the spending has been \$91 billion (1997), \$98 billion (1998), and \$62 billion (1999) for exploration, production, transportation and refining. The industry appears to be increasing the spending during late 2000 and early 2001, as demand worldwide grows. These numbers, however, do not indicate the expenditures in industries needed to make, to reprocess, or market the final products.

There is no way to estimate the cascading effect of the petroleum and natural gas industries to the manufacturing, service/supply, and associated industries. The direct manufacture of material and equipment for petroleum and natural gas activity is a multi-billion dollar industry, which is approaching trillions US \$. Indirectly, as petroleum is the starting component of everything from automobile tires, asphalt roof shingles, and fishing poles to eye shadow, compact disks and audio/video tapes, candles, and bubble gum, the spending for upstream activity is only a minimal portion of the trade finally generated. As evidenced by the oil embargo of 1973 and the protests of 2000, disruption of supply has a devastating economic impact on society. Long-term cessation would alter life as we know it. A conservative estimate of the petroleum and natural gas market covered by TC67 standards with all support, manufacturing, pipeline transport, and refining is in the several trillion \$US.

The number of companies engaged in petroleum and natural gas production and refining are also impossible to estimate. There are megamajor companies, integrated operators, independents, state-owned companies, and "mom-and-pop" operators. The manufacturing, service and supply sector is also composed of large multinational companies, smaller manufacturing, consultants, to the single inventor. The actual employment numbers for the industry worldwide are estimated to be between 1.5 and 2.0 million. This are conservative, as each megamajor employs over 100,000 people, and many integrated companies employ 50,000 and above. The employment in state-owned companies is not a matter of public record, and due to varying employment practices may differ greatly from what would be consider an industry practice in publicly held companies.

To give an idea of the employment magnitude, the USA employs around 284,000 people in the E&P (upstream) portion of the operators. Not included in this number are those employees engaged in transportation and refining for the USA, or the manufacturers, service, supply and

government directly engaged in this industry. To attempt to quantify the numbers of companies and employees would lead to only an inaccurate estimate.

### 3 BENEFITS EXPECTED FROM THE WORK OF THE ISO/TC.

ISO/TC67 is a market-driven technical committee addressing needs of the manufacturers and purchasers in oilfield, transfer and refining equipment. The operators have clearly shown that participation in the writing of ISO standards will reduce the need for internal specifications, facilitate transfer and application of equipment worldwide, reduce barriers to trade across country boundaries, and allow the purchase of compatible equipment from multiple suppliers. Manufacturers use standards to outline basic requirements and then allow for innovation and expansion of basic concepts. This innovative application is a major driver for manufacture of products and company differentiation. This leads to a market differentiation of suppliers, and to some, a competitive advantage.

The goal of ISO/TC67 is the coordination of technical input for all interested parties, with no consideration of national or regional origin, or employer. Regional standards and commonly available standards form the basis of all work, as the desire is for standards covering commonly used equipment and procedures. In the case of ISO/TC67, the industry standards developed through the American Petroleum Institute (API) have been used historically and provide about 70% of the current work program. Other national standards from British Standards Institute (BSI) and industry standards from NORSOK (Norway) have been integrated into the work programme.

An economic measure of the acceptance of ISO standards is the purchase of documents. ISO/TC67 is a relatively new committee (reactivated in 1989) so few standards have actually reached publication. Each year the number of available standards increases, as prior year's work comes to a conclusion and is printed. The past three years of sales must be weighed against the total standards available.

	TOTAL TC67 STANDARDS	STANDARDS PURCHASED	REVENUE TO ISO, SWISS FRANCS
1997	33	239	14 766
1998	34	199	12 946
1999	36	735	36 567

NOTE: This chart reflects only direct ISO-branded sales, and does not include nationally or regionally adopted documents.

The figures given above cover only the TC67 standards marketed through ISO, Geneva Switzerland. Each member country upon readoption of the ISO standard, has the ability to sell it through their distribution system. Therefore, the number of standards purchased is most likely a significantly larger number. To ascertain that total figure, individual SDOs would need to be contacted. Onward years look even more promising, as in the year 2000, 48 standards are available, and in 2001, there should be approximately 70. Therefore, purchases of ISO/TC67

standards are expected to accelerate in the upcoming years as the number increases and industry awareness improves.

The major benefit to ISO standard usage is to the companies employing these standards. Annual savings in design, maintenance, and application of internal standards is expected to be over \$500 million (US\$).

#### **4 REPRESENTATION AND PARTICIPATION IN THE ISO/TC.**

ISO/TC67 has a membership of countries with major involvement in the exploration and/or refining of petroleum and natural gas. In the year 2000, there are twenty participating members, twenty observing members, and two correspondent members representing countries with advanced economies, developing countries, and countries in transition. Of the twenty-eight countries listed by International Monetary Fund (IMF) as advanced economies, seventeen are P, O or correspondent members. Nine of the twenty-eight countries in transition are P, O or correspondent members. Sixteen of the 126 countries considered to be developing nations are P or O members. The TC67 member countries are located on all six continents.

The following chart summarizes the TC67 committee membership by status and country economic status.

	P Member	O Member	Correspondent	IMF TOTAL
Advanced Economies	11	5	1	28
Transition Economies	2	6	1	28
Developing Economies	7	9		126
	20	20	2	182

In the year 2000, the P member countries are Austria, China, Denmark, France, Germany, Indonesia, Iran, Italy, Japan, Mexico, Netherlands, Norway, Romania, Russian Federation, Saudi Arabia, Sweden, Trinidad & Tobago, United Kingdom, USA, and Venezuela. The O member countries are Argentina, Australia, Belgium, Brazil, Bulgaria, Canada, Colombia, Cuba, Czech Republic, Ecuador, Egypt, Finland, Hungary, Malaysia, Poland, Switzerland, Thailand, Ukraine, Viet Nam, Yugoslavia. The corresponding members are Hong Kong and Republic of Moldova.

The countries of the “Big Seven” are all represented in the TC67, ten of the fifteen European Union (EU) are members, and twenty of the twenty-nine Organization for Economic Cooperation and Development (OECD) countries are represented. The percentage of developing countries may seem disproportionately small but many do not have the technological base to initiate a petroleum and natural gas business, and are being supported by companies located in advanced economy countries. Countries such as Algeria, Angola, Bahrain, Gabon, Nigeria, Papua New

Guinea, UAE, and Yemen are involved in the petroleum and natural gas industry but reliant of countries supplying goods and technology to provide standardized equipment.

Noticeably absent from committee activity (projects, working groups, and subcommittees) is representation from Central and South America. Brazil has recently become a participating member, and TC67 is encouraging through personal contacts more countries to participate.

The TC67 has liaison membership from the International Association of Oil and Gas Producers (London), World Customs Organization (Brussels) and UN Economic Commission for Europe (Geneva). OGP is the only organization sending a representative to each plenary meeting.

Recently, the International Association of Drilling Contractors (IADC) has requested a liaison membership with TC/67. The ability for liaison organizations also exist within subcommittees. European Petroleum Industry Association (EUROPIA) is particularly active liaison within subcommittee 6 on refinery equipment.

In the European environment, CEN/TC12 was created as a mirror committee of ISO TC67 with the title, “ Materials, equipment and offshore structures for the petroleum and natural gas industries.” Its purpose is not to write its own regional standards but to get European Standards identical as far as possible to the ISO/TC67 standards by transferring them into its collection via the “Vienna Agreement”. The ISO and CEN groups maintain reciprocity, and a close working relationship in which ISO members also participate in CEN meetings. CEN is very active and sends a delegate to each plenary meeting.

## **5 OBJECTIVES OF THE ISO/TC AND STRATEGIES FOR THEIR ACHIEVEMENT.**

### **5.1 Defined objectives of the ISO/TC.**

The stated mission of the TC67 is to publish standards relevant to the petroleum and natural gas industries which will contribute added value to the design, purchase, and exchange of materials and equipment including services, except ships which are covered by TC 8 – Ships and marine technology. The TC67 has succinctly stated its mission in the Strategic Policy Statement (67N542) as “to create value-added standards for the oil and natural gas industry.” The TC anticipates these to be adopted by regional standards bodies as regional standards and national standards bodies as national standards. The vision of the TC is simply stated as “global standards used locally worldwide.”

To meet the vision, a suite of approximately 130 standards are currently being worked through the ISO process. Each standard is identified as having significant economic impact to a segment of the petroleum and natural gas industry, and is included on the work program. The subjects covered in the standards are diverse but encompassed the total petroleum and natural gas industry. The industry elected to operate the standardization effort under a single technical committee umbrella as many of the subjects are interdependent, and some of the personnel

overlap among subcommittees. Communication and use of resources (technical people, secretarial support, technical editors, and Central Secretariat staff) is more focused through a single, coherent program. Several items common to heavy industry (e.g., gears, compressors, and valves) are being handled in joint working groups with other technical committees. These do not have the same level of communication, work ethic, personnel committed, or coherence displayed in the single committee effort.

The industry requests having these standards available for use as soon as possible, and has made a significant allocation of resources toward effecting this. At present, over 1000 technical experts from operators, manufacturers, service/supply, and academia are working on the documents that are in varying stages of completion. Each subcommittee or working group is responsible for assigning resources (people, time, secretariats' time, and publishing ability of ISO CS) to most efficiently complete the work program. The Executive and Management Committees of ISO/TC67 track the progress of standard production on a monthly basis, and provide input and resources as required. The EC/MC does not play an active role in the technical writing of standards, as that remains the sole responsibility of the subcommittees. Individual members of the EC/MC may act as a resource in their technical discipline, but they are not acting on behalf of the EC/MC. The current work program indicates that all standards should be published (stage 60.60) by 2005 with the current level of staffing.

## **5.2 Identified strategies to achieve the ISO/TC's defined objectives.**

The work initiation strategy employed by TC67 to determine market need for a standard is completion of the New Work Item proposal, circulation to P- and O-members for vote, but with the added requirements of an affirmative vote must be cast by a minimum of five P-members, and each affirmative vote must include the name of an expert(s) willing to work on the project. The proposed NWI is delegated to the appropriate SC or WG, and the project team is formed. Prioritisation (as stated above) is the responsibility of the SC or WG assigned for the project.

Most project leaders expedite the work effort by vigorous use of electronic document transmission for both technical and editorial issues. Only in cases of no Internet access, will a paper copy be transmitted to the project team member. The entire project team attempts to meet three times per year, and tries to schedule the meeting in conjunction with conferences, seminars or other meetings that the experts may be attending (e.g., TC/SC meetings, API Annual CRE and E&P Standardization Conferences, CEN meetings, National Association of Corrosion Engineers meetings, etc.).

The second strategy involves the use of existing documents. In about 70% of the cases, the base document is provided by the American Petroleum Institute or American Society of Mechanical Engineers but further technical and editorial work is usually required by the ISO working group. The additional 30% are identified as needed but not in a current SDO. Major technical and editorial work must be conducted to progress to a completed ISO standard.

The third strategy of ISO/TC67 (as a horizontal committee) is the liaison activity with several additional technical or product committees. The technical output of these TCs impacts the work

effort of TC67, but the experts are not exclusively resident in the petroleum and natural gas industries. Specifically, TC67 has membership reciprocity with TC8 - Ships and marine technology, TC60 - Gears, TC115 - Pumps, TC118 - Compressors, pneumatic tools and pneumatic machines, TC 153 - Valves, and TC 192 - Gas turbines. Joint Working Groups were created with TC60, TC115, TC118, TC153 and TC192 where TC67 is not the work leader but provides experts from the petroleum and natural gas industry. In some cases, these JWG's work very well, but in others, communication is deficient and the joint projects are lagging.

The fourth strategy that directly influences the work effort is the committee structure. The committee is divided along functional lines, with each subcommittee and its subordinate working group representing a technical expertise. The activity performed by each subcommittee or working group involves industry experts with knowledge to complete the defined projects, and are usually involve long-term, complex technical resolutions to known market needs.

This does not mean that each subcommittee works in total isolation. Any individual subcommittee may provide equipment to more than one area of petroleum and natural gas field. The technical committee also has smaller tasks being completed by working groups that report directly to the TC, and do not fit into the technical definition of the subcommittees. The structure of the TC will be discussed thoroughly in Section 7 - Structure, Scopes and Work Programme of the ISO/TC (below).

The final strategy used for achieving TC defined objectives is the utilization of an Executive Committee with subset also being a Management Committee. The Management Committee has a member nominated by each active country, and comes from an SDO, operator or service/supply company. The MC is charged with securing adequate resources to staff the projects, giving guidance and support to the project leaders, and interpreting the requirements of ISO. The Executive Committee is composed of the subcommittee chairmen and the MC. The MC meets approximately three times per year, and the EC meets once. The EC is charged with defining the work programs for each subcommittee, evaluating resources (people, time, interface with ISO CS), and preparing the report for presentation at the annual Plenary Meeting of ISO/TC67.

## **6 FACTORS AFFECTING COMPLETION AND IMPLEMENTATION OF THE ISO/TC WORK PROGRAMME.**

The *MAJOR* factor which directly affects the completion of TC67 documents is the time resource for people to dedicate to ISO business. All companies, including operators, service/supply, manufacturers and academia, have identified capable experts to work on the various ISO/TC67 documents. The TC67 is very well staffed and all market segments are equally represented with these expert "volunteers." However, these experts who know the technology, trends in application, and economic necessity, must also respond to engineering needs of their employers. These experts' time is limited and extremely valuable, and their knowledge useful in daily business opportunities. In the specific case of SC7, which is involved in writing requirements for offshore structures, a large portion of the work is not based on current standards and engineers are compelled to agree upon design criteria, safe guards for workers and environment, and write

the standards. Unfortunately, standards preparation sometimes gets diverted in the course of normal business.

To assist the project leaders in working documents, the ISO/TC67 has created a webpage with information and “helpful hints” for standards preparation. The webpage can be accessed from any computer, and has communications describing ISO CS interpretations, gained learnings from conversations with technical editors and technical program, and lessons learned from experience. It also carries a list of contacts with specific expertise or editorial help. Each subcommittee, working group and project leader can access this information, and learn from the findings of others.

## **7 STRUCTURE, SCOPES AND WORK PROGRAMME OF THE ISO/TC.**

This section gives an overview of ISO/TC’s structure, scopes of the ISO/TCs and any existing subcommittees and information on existing and planned standardization projects, including resources needed for their completion. The aim of this section is to demonstrate the adequacy of the proposed programme of work in relation to the business environment and/or stakeholders’ needs. Only structures directly responsible for standardization projects are listed. Therefore, no co-ordination or advisory groups are included.

The ISO/Technical Committee 67 is divided along functional lines, and adequately staffed by experts from industry and secretaries provided by country SDOs. The scopes of the subcommittees and working groups describe the areas covered in generic terms, and provide an idea of the complexity inherent in this industry. Interrelationship of all parts helps this industry function on a global basis. It should be noted that many of the subcommittees have a scope and work program larger than other ISO technical committees, and are successfully managing programs with very diverse subjects to a very closely watched timetable.

- Subcommittee 1 – Steel pipe for pipelines
- Subcommittee 2 – Pipe transportation systems
- Subcommittee 3 – Drilling fluids and cements, and workover fluids
- Subcommittee 4 – Drilling and production equipment
- Subcommittee 5 – Casing, tubing and drill pipe
- Subcommittee 6 – Refinery, and offshore topside equipment
- Subcommittee 7 – Offshore structures
- Working group 2 – Certification principles
- Working group 4 – Reliability and maintenance data
- Working group 5 – Aluminium drill pipe
- Working group 7 – Materials for corrosive (H<sub>2</sub>S) service
- Working group 8 – Resource group for questions on metallurgy
- Working group 9 – Life cycle costing for P&NGI

SC1 provides pipes manufacturing definitions to SC2, SC4, SC5, SC6 and SC7

SC2 influences the products developed in SC4, SC5, SC6 and SC7

SC3 develops fluid systems that will be in contact with all equipment standardized by SC1, SC2, SC4, SC5, SC6, and SC7

SC4, SC5, SC6 and SC7 must provide equipment that can be linked to be used

SC6 provides interface and technical expertise to TC60, TC115, TC118, TC153, and TC 192.

SC7 must be current in the outcomes of TC8, and various international regulations covering shipping when designing offshore structures that will be towed or left in place

All materials and equipment are standardized to provide manufacturers, users, and the service/supply sectors with the reliable, interchangeable parts available worldwide with inherent worker safety and environmental protection stated in the standard. No single company manufactures the entire spectrum of equipment and materials currently in TC67 standards. Most standards are actually used by manufacturers' to produce supplies or services that are purchased or used by an oil and gas company, locally but potentially deployed throughout the world. This international exchange and relocation of equipment forces companies to use standards in the manufacture and purchase of equipment. The motto of TC67 is "do it once, do it right, do it globally."

Acting as a resource coordinator is an Executive and Management Committee created by the Technical Committee under document N642. The EC/MC is designed to ensure that each subcommittee has adequate country representation in its technical experts basis, that editing to ISO rules can be accomplished, and that the project leaders have adequate support and information to complete their tasks. A key function is the writing and maintenance of all TC67 procedural documents. The EC/MC recently updated the "Policies and Procedures" text, and published N435 Revision 3. The EC/MC also established a Management Plan spreadsheet (N691, revised as N731) of current projects that is constantly maintained and tracks the document development with timescale for each working draft, committee draft, draft international standard, final draft international standard, and eventually, publication. The EC/MC acts as the problem solver for the subcommittees and mainly functions to further the production of standards.

The TC67 actively uses the Internet for all communications within projects, subcommittees, EC/MC and the technical committee. TC67 has attempted to expedite the access for all participants via its singular portal 'www.tc67.net.' Current TC67 documents, project database, training materials, listing of active participants, and e-mail to the committee are easily accessed. This site links to the most up-to-date information of current TC67 activity. Of particular interest to the project leaders and technical editors, is a shared learnings site that is available at 'http://teched.tc67.net' as this repository lists the techniques and ideas acquired through discussions with the ISO technical editors. Paper copy via "snail mail" is the last choice for communication in the technical committee and will be, hopefully, replaced in the near future.

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The data listed in the subsequent pages of Annex A is taken from the N731 document referenced above. This is dated 1-October-00, and indicates the plan following the annual plenary meeting. As stated above, the most current information is available on the Internet.

**ANNEX - GLOSSARY OF TERMS AND ABBREVIATIONS USED IN ISO/TC BUSINESS PLANS.**

NB: This glossary gives the full name and status of terms used, in abbreviated form or in full, in the above “Business Plan for ISO/TCs”. The glossary also gives the source of the information provided. Glossary intends to help with the understanding of the terms used. Whenever any of these terms are used by contributors to this Business Plan, they are requested to use them coherently as foreseen in the glossary.

Term	Abbrev.	Definition
Standardization		<p>Activity of establishing, with regard to actual or potential problems, provisions for common and repeated use, aimed at the achievement of the optimum degree of order in a given context.</p> <p>NOTES</p> <p>1 In particular, the activity consists of the processes of formulating, issuing and implementing standards.</p> <p>2 Important benefits of standardization are improvement of the suitability of products, processes and services for their intended purposes, prevention of barriers to trade and facilitation of technological co-operation.</p>
Standard		<p>Document, established by consensus and approved by a recognised body, that provides, for common and repeated use, rules guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context.</p> <p>NOTE Standards should be based on the consolidated results of science, technology and experience, and aimed at the promotion of optimum community benefits.</p>
package of standards		<p>A group, as small as possible, of inter-related standards in the scope of one or more ISO/TCs which are usually developed simultaneously to one another as parts of one standard, or standards that must be developed simultaneously.</p>
Consensus		<p>General agreement, characterised by the absence of sustained opposition to substantial issues by any important part of the concerned interests and by a process that involves seeking to take into account the views of all parties concerned and to reconcile any conflicting arguments.</p> <p>NOTE Consensus need not imply unanimity.</p>
ISO/TC International Standardization Deliverables:		
International Standard	IS	<p>A normative document, developed according to consensus procedures, which has been approved by the ISO membership and P-members of the responsible committee in accordance with Part 1 of the ISO/IEC Directives as a draft International Standard and/or as a final draft International Standard and which has been published by the ISO Central Secretariat.</p>
ISO Technical Specification	ISO/TS	<p>A normative document representing the technical consensus within an ISO committee, approved by 2/3 of the</p>

Term	Abbrev.	Definition
		P-members of the ISO/TC or SC.
ISO Public Available Specification	ISO/PAS	A normative document representing the consensus within a working group, approved by a simple majority of the P-members of the TC/SC under which the working group operates.
ISO Technical Report	ISO/TR	An informative document containing information of a different form from that of normally published in a normative document.
Amendment	Amd	An amendment alters and/or adds to previously agreed technical provisions in an existing standard.
Technical Committee	ISO/TC	A technical body responsible for the programming and planning of technical work and the monitoring and execution of this technical work. The ISO/TC is also responsible for the consensus building process among its members for individual work items.
Subcommittee	SC	A technical body reporting to an ISO/TC which, within its scope which is covered by the scope of its parent ISO/TC, is responsible for the monitoring and execution of the technical work. The SC is also responsible for the approval and consensus building process among its members for individual work items.
ISO/TC Working group And ISO/SC Working group	WG	A technical body, appointed by the ISO/TC or ISO/SC and composed of experts, responsible for the drafting of standards, in accordance to the ISO rules and the clear specifications set by the ISO/TC or ISO/SC.
Editing Committee		A committee set up by a technical body (ISO/TC or SC) at the beginning of its work, which represents the three official languages of ISO. It is responsible for the correct formulation and presentation of the standard(s) prepared by the technical body (ISO/TC or SC) and the equivalence of the texts in the three official languages.
Participating member	P-member	A member body participating actively in the work of a TC or SC, with an obligation to vote on all questions formally submitted for voting within the TC or SC on enquiry drafts and final draft International Standards and, wherever possible, to participate in meetings.
Work Item number	WI	The identification number given to a standards project in a standards work programme. It is intended that the standards project leads to the issue of a new, amended or revised standard, an ISO/PAS, ISO/TS or other ISO product.
Vienna Agreement	VA	Agreement on technical co-operation between ISO and CEN.
VA ISO lead (5.1)		Technical co-operation between ISO and CEN under the VA, where the work is done by the ISO/TC, where a formal notification of interest was received by ISO from CEN, and where parallel synchronised procedures are applied in ISO and CEN for the approval processes.
VA CEN lead (5.2)		Technical co-operation between ISO and CEN under the VA, where the work is done by the CEN/TC or SC, where a formal notification of interest was received by CEN from ISO, and where parallel synchronised procedures are applied in ISO and CEN for the approval processes.

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<b>Term</b>	<b>Abbrev.</b>	<b>Definition</b>
ISO stakeholders		Individuals, institutions, organizations or enterprises who have a direct or indirect interest in the ISO System, its activities and products and who have a specific interest in the effective programming of ISO work items and their adequate resourcing.

## ANNEX

### Projects directly under this technical committee:

#### ISO/TC67 WORKING GROUP 2 – Certification Principles

**Responsible ISO Member:** NEN (Netherlands)

**Chairperson:** Mr. Harry Gundlach

**Secretary:** Mr. Henk van der Hoek

**Chairperson & Secretary Time Allocation Per Year** = 1% FTE

**Scope:** Standardization of certification, conformity assessment, and quality systems for petroleum and natural gas industries

**Actions for alignment with the business environment:** Awaiting New Work Item

### Standards published:

<b>Designation</b>	ISO 13879:1999
<b>Title</b>	P&ngi – Content and drafting of a functional specification
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13880:1999
<b>Title</b>	P&ngi-Content and drafting of a technical specification
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	TR 13881:2000
<b>Title</b>	P&ngi-Classification and conformity assessment of products, processes and services
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	CASCO and ISO/TC67 MOU
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 WORKING GROUP 4 – Data Collection**

**Responsible ISO Member:** NTC (Norway)

**Chairperson:** Mr. Tor Heimly

**Secretary:** Mr. Stein Osterlie

**Chairperson & Secretary Time Allocation Per Year = 5% FTE**

**Scope:** Standardization of methods to collect and report reliability and maintenance records for petroleum and natural gas industries

**Actions for alignment with the business environment:** Awaiting New Work Item

Standards published:

<b>Designation</b>	ISO 14224:1999
<b>Title</b>	P&ngi – Collection and exchange of reliability and maintenance data for equipment
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 WORKING GROUP 5 – Aluminium Alloy Pipes**

**Responsible ISO Member:** GOST (Russia)

**Chairperson:** Mr. Daniil Polyacheck

**Secretary:** to be named

**Chairperson & Secretary Time Allocation Per Year** = 5%FTE

**Scope:** Standardization of physical and chemical specifications for aluminium alloy pipes for use in petroleum and natural gas industries

**Actions for alignment with the business environment:** Active work item

Active Working Programme:

<b>Designation</b>	15546 - Active Work Item - DIS
<b>Title</b>	P&ngi – Aluminium alloy drill pipe
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): DIS.2 Nov-00 ISO Stage 50 (Issuance of FDIS): Apr-01 ISO Stage 60 (Publication): Oct-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI88
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 WORKING GROUP 7 – Materials for use in H<sub>2</sub>S Containing Environments in Oil and Gas Production**

**Responsible ISO Member:** DIN (Germany)

**Chairperson:** Prof. Günter Schmitt

**Secretary:** Mr. Helmut Wolff (NÖG in DIN)

**Chairperson & Secretary Time Allocation Per Year** = 10% FTE

**Scope:** Standardization of corrosion resistant alloys (CRA) for use in the petroleum and natural gas industries

**Actions for alignment with business environment:** Active work program of 3 items

Active Working Programme:

<b>Designation</b>	15156-1 - Active Work Item - DIS
<b>Title</b>	P&ngi – Corrosion protection – Materials for use in H <sub>2</sub> S containing environments in oil and gas production – Part 1: General principles
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): DIS.2 Nov-00 ISO Stage 50 (Issuance of FDIS): Apr-01 ISO Stage 60 (Publication): Oct-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 83
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15156-2 - Active Work Item - DIS
<b>Title</b>	P&ngi – Corrosion protection – Materials for use in H <sub>2</sub> S containing environments in oil and gas production – Part 2: Cracking resistant unalloyed and low alloy steels
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-00 ISO Stage 50 (Issuance of FDIS): Feb-02 ISO Stage 60 (Publication): Jul-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 84
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15156-3 - Active Work Item - CD
<b>Title</b>	P&ngi – Corrosion protection – Materials for use in H <sub>2</sub> S containing environments in oil and gas production – Part 3: Cracking resistant alloys and other alloys
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-01 ISO Stage 50 (Issuance of FDIS): Jun-02 ISO Stage 60 (Publication): Dec-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI85
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15156-4 - Frozen
<b>Title</b>	P&ngi – Corrosion protection – Materials for use in H <sub>2</sub> S containing environments in oil and gas production – Part 4: Non-metallic materials
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): ISO Stage 60 (Publication):
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI86
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 WORKING GROUP 8 – Materials, Corrosion Control, Welding and Joining, and NDE**

**Responsible ISO Member:** BSI (United Kingdom)

**Chairperson:** Mr. Peter Rist

**Secretary:** Mr. Sjoerd Schuyleman (IP)

**Chairperson & Secretary Time Allocation Per Year = 0.5% FTE**

**Scope:** Resource group for materials information provided to other subcommittees and working groups engaged in standards for the petroleum and natural gas industries

**Actions for alignment with the business environment:** Standing committee which has not been utilized in recent past

**ISO/TC67 WORKING GROUP 9 – Life Cycle Costing**

**Responsible ISO Member:** NTC (Norway)

**Chairperson:** Mr. Peter Malloy

**Secretary:** Mr. Per Kristian Lesund

**Chairperson & Secretary Time Allocation Per Year = 10% FTE**

**Scope:** Standardization of methods and implementation of life cycle costing in the petroleum and natural gas industries

**Actions for alignment with the business environment:** Active work program of 2 items

Standards published:

<b>Designation</b>	ISO 15663-1:2000
<b>Title</b>	P&ngi – Life cycle costing – Part 1: Methodology
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

Active Working Programme:

<b>Designation</b>	15663-2 - Active Work Item - DIS
<b>Title</b>	P&ngi – Life cycle costing – Part 2: Guidance on application of methodology and calculation methods
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Apr-00 ISO Stage 50 (Issuance of FDIS): Jun-01 ISO Stage 60 (Publication): Nov-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15663-3 - Active Work Item - DIS
<b>Title</b>	P&ngi – Life cycle costing – Part 3: Implementation guidelines
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Mar-00 ISO Stage 50 (Issuance of FDIS): Jun-01 ISO Stage 60 (Publication): Nov-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 SUBCOMMITTEE 1 – Line Pipe**

**Responsible ISO Member:** DIN (Germany)  
**Chairperson:** Mr. H-J Zimmermann  
**Secretary:** Mr. Heinz F. Hach  
**Chairperson & Secretary Time Allocation Per Year** = 1% FTE

**Scope:** Standardization of line pipes used in drilling, refining and the transport by pipelines of petroleum and natural gas for the petroleum and natural gas industries.

**Actions for alignment with the business environment:** Reviewing actions of various SDOs (including API ) and ways to align standards being produced with ISO directives, awaiting reaffirmation (revision of documents in 2001).

**Projects directly under this subcommittee :**

Standards published:

<b>Designation</b>	ISO 3183-1:1996
<b>Title</b>	P&ngi - Steel pipe for pipelines – technical delivery conditions – Part 1: Pipes of requirement class A
<b>Target dates</b>	ISO Stage 60 (Publication): 1996
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 3183-2: 1996
<b>Title</b>	P&ngi - Steel pipe for pipelines – technical delivery conditions – Part 1: Pipes of requirement class B
<b>Target dates</b>	ISO Stage 60 (Publication): 1996
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 3183-3:1999
<b>Title</b>	P&ngi - Steel pipe for pipelines – technical delivery conditions – Part 1: Pipes of requirement class C
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

**ISO/TC 67 SUBCOMMITTEE 2 – Pipeline Transportation Systems**

**Responsible ISO Member:** NEN (The Netherlands)

**Chairperson:** Mr. Jaap Guyt

**Secretary:** Mr. Jan Verhagen

**Chairperson & Secretary Time Allocation Per Year = 35% FTE**

**Scope:** Standardization of pipeline transportation systems and equipment used in the petroleum and natural gas industries

**Actions for alignment with the business environment:** Active work program with 7 P members and 7 O members

**Projects directly under this subcommittee :**

Standards published:

<b>Designation</b>	ISO 13623:2000
<b>Title</b>	P&ngi – Pipeline transportation systems – Pipeline valves
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 58
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 14313:1999
<b>Title</b>	P&ngi – Pipeline transportation systems – Pipeline valves
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 34, prEN 13952 ( ISO 14313 modified)
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13847:2000
<b>Title</b>	P&ngi – Pipeline transportation systems – Welding of pipelines
<b>Target dates</b>	ISO Stage 60 (Publication): 12-Oct-2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 63, prEN xxxxx (ISO 14847:2000 modified)
<b>Actions for alignment with the business environment</b>	

Active Working Programme:

<b>Designation</b>	14723 - Active Work Item - DIS
<b>Title</b>	P&ngi – Pipeline transportation systems – Subsea pipeline valves
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Apr-00 ISO Stage 50 (Issuance of FDIS): Jun-01 ISO Stage 60 (Publication): Nov-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 87
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15590-1 Active Work Item - DIS
<b>Title</b>	P&ngi – Pipeline transportation systems – Pipeline induction bends, fittings and flanges – Part 1: Induction bends
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Nov-00 ISO Stage 60 (Publication): Apr-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 96
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15590-2 - Active Work Item - CD
<b>Title</b>	P&ngi – Pipeline transportation systems – Pipeline induction bends, fittings, and flanges – Part 2: Fittings
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Feb-01 ISO Stage 50 (Issuance of FDIS): Apr-02 ISO Stage 60 (Publication): Sep-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 97
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15590-3 - Active Work Item - WD
<b>Title</b>	P&ngi – Pipeline transportation systems – Pipeline induction bends, fittings, and flanges – Part 3: Flanges
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Oct-01 ISO Stage 50 (Issuance of FDIS): Dec-02 ISO Stage 60 (Publication): May-03
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 98
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15589-1 - Active Work Item - CD
<b>Title</b>	P&ngi – Pipeline transportation systems – Cathodic protection – Part 1: On-land pipelines
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Mar-01 ISO Stage 50 (Issuance of FDIS): May-02 ISO Stage 60 (Publication): Oct-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 115
<b>Actions for alignment with the business environment</b>	

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<b>Designation</b>	15589-2 - Active Work Item - CD
<b>Title</b>	P&ngi – Pipeline transportation systems – Cathodic protection – Part 2: Offshore pipelines
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Mar-01 ISO Stage 50 (Issuance of FDIS): May-02 ISO Stage 60 (Publication): Oct-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 116
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	16708 - Active Work Item - WD
<b>Title</b>	P&ngi – Pipeline transportation systems – Reliability-based limit state methods
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Oct-01 ISO Stage 50 (Issuance of FDIS): Dec-02 ISO Stage 60 (Publication): May-03
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 103
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 SUBCOMMITTEE 3 – Drilling and Completion Fluids and Well Cements**

**Responsible ISO Member:** NTC (Norway)

**Chairperson:** Mr. Roger Tonnessen

**Secretary:** Mr. Stein Osterlie

**Chairperson & Secretary Time Allocation Per Year = 25% FTE**

**Scope:** Standardization of drilling and completion fluids and well cements for the petroleum and natural gas industries

**Actions for alignment with the business environment:** Active work program with 8 P members and 4 O members

**Projects directly under this subcommittee :**

Standards published:

<b>Designation</b>	ISO 13500:1998
<b>Title</b>	P&ngi – Drilling fluid materials – Specification and tests
<b>Target dates</b>	ISO Stage 60 (Publication): 1998
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN ISO 13500: 1998
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 10409:1993
<b>Title</b>	P&ngi – Application of cement lining to steel tubular goods, handling installation and joining
<b>Target dates</b>	ISO Stage 60 (Publication): 1993
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 10426-1:2000
<b>Title</b>	P&ngi – Cements and materials for well cementing – Part 1: Specification
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN ISO 10426-1:2000
<b>Actions for alignment with the business environment</b>	

Active Working Programme:

<b>Designation</b>	10414-1 - Active Work Item - DIS
<b>Title</b>	P&ngi – Field testing of drilling fluids – Part 1: Water-based fluids
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Jan-01 ISO Stage 60 (Publication): Jun-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10414-2 - Active Work Item - DIS
<b>Title</b>	P&ngi – Field testing of drilling fluids – Part 2: Oil-based fluids
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Jan-01 ISO Stage 60 (Publication): Jun-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10416 - Active Work Item - CD
<b>Title</b>	P&ngi – Recommended practice for standard procedure for laboratory testing of drilling fluids Drilling fluids – Laboratory Testing
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jan-01 ISO Stage 50 (Issuance of FDIS): Jan-02 ISO Stage 60 (Publication): Jul-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13501 - Frozen
<b>Title</b>	P&ngi – Drilling fluids processing systems evaluation
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): ISO Stage 60 (Publication):
<b>Comments</b>	Waiting on consolidated and revised API documents
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10426-2 - Active Work Item - DIS
<b>Title</b>	P&ngi – Cements and materials for well cementing – Part 2: Recommended practice for testing of well cement
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Dec-00 ISO Stage 60 (Publication): May-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 65
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10427-1- Active Work Item - DIS
<b>Title</b>	P&ngi - Casing centralisers – Part 1: Specifications for bow-string casing centralisers
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Dec-00 ISO Stage 60 (Publication): May-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 14
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10427-2 - Active Work Item - CD
<b>Title</b>	P&ngi – Casing Centralisers – Part 2: Recommended practice for centraliser placement and stop collar testing
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-00 ISO Stage 50 (Issuance of FDIS): Dec-01 ISO Stage 60 (Publication): May-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 114
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	18165 - Active Work Item - DIS
<b>Title</b>	P&ngi – Recommended performance testing of cementing float equipment
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): skipping ISO Stage 60 (Publication): Feb-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13503 - Active Work Item - WD
<b>Title</b>	P&ngi – Evaluation of hydraulic fracturing fluids – Standard procedures
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-01 ISO Stage 50 (Issuance of FDIS): ISO Stage 60 (Publication):
<b>Comments</b>	Mandatory issuance of DIS by Dec-01, or risk cancellation by TMB 55/1998
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 SUBCOMMITTEE 4 – Drilling and Production Equipment**

**Responsible ISO Member:** ANSI (USA)

**Chairperson:** Mr. Ted Zaleski

**Secretary:** Mr. David Miller (API)

**Chairperson & Secretary Time Allocation Per Year = 35% FTE**

**Scope:** Standardization of drilling and production equipment used in the petroleum and natural gas industries

**Actions for alignment with the business environment:** Active work program with 11 P members and 5 O members

**Projects directly under this subcommittee :**

Standards published:

<b>Designation</b>	ISO 10432:1999
<b>Title</b>	P&ngi – Downhole equipment – Subsurface safety valve equipment
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN 10432:1999
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 10419:1993
<b>Title</b>	P&ngi – Drilling and production equipment – Installation, maintenance and repair of surface safety valves and underwater safety valves offshore
<b>Target dates</b>	ISO Stage 60 (Publication): 1993
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 10433:1994
<b>Title</b>	P&ngi – Drilling and production equipment – Specification for wellhead surface safety valves and underwater safety valves for offshore service
<b>Target dates</b>	ISO Stage 60 (Publication): 1994
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 10420:1994
<b>Title</b>	P&ngi – Flexible pipe systems for subsea and marine riser applications
<b>Target dates</b>	ISO Stage 60 (Publication): 1994
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13628-1:1999
<b>Title</b>	P&ngi – Drilling and production equipment – Design and operation of subsea production systems – Part 1: General requirements and recommendations
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN ISO 13628-1:1999
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13628-4:1999
<b>Title</b>	P&ngi - Drilling and production equipment – Design and operation of subsea production systems – Part 4: Subsea wellhead and tree equipment
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN ISO 13628-4:1999
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13628-6:2000
<b>Title</b>	P&ngi – Drilling and production equipment – design and operation of subsea production systems – Part 6: Subsea production control systems
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13628-9:2000
<b>Title</b>	P&ngi – Drilling and production equipment – Design and operation of subsea production systems – Part 9: Remotely Operated Tool (ROT) intervention systems
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10407-1 - Active Work Item - CD
<b>Title</b>	P&ngi – Drilling and production equipment – Drill stem design and operating limits – Part 1: Recommended practice for drill stem design and operating limits
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-00 ISO Stage 50 (Issuance of FDIS): Oct-01 ISO Stage 60 (Publication): Mar-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 92
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10407-2 - Active Work Item - CD
<b>Title</b>	P&ngi – Drilling and production equipment – Drill stem design and operating limits – Part 2: Recommended practice for inspection and classification of drilling stem elements
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jul-01 ISO Stage 50 (Issuance of FDIS): Sep-02 ISO Stage 60 (Publication): Feb-03
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 93
<b>Actions for alignment with</b>	

<b>the business environment</b>	
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<b>Designation</b>	10424-1 - Active Work Item - WD
<b>Title</b>	P&ngi – Drilling and production equipment – Rotary drilling equipment – Part 1: Specifications for rotary drilling elements
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-01 ISO Stage 50 (Issuance of FDIS): Jan-03 ISO Stage 60 (Publication): Jun-03
<b>Comments</b>	CD in Dec-00
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 121
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10424-2 - Active Work Item - WD
<b>Title</b>	P&ngi – Drilling and production equipment – Rotary drilling equipment – Part 2: Threading, gauging and testing of rotary shouldered thread connections
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-01 ISO Stage 50 (Issuance of FDIS): Jan-03 ISO Stage 60 (Publication): Jun-03
<b>Comments</b>	CD in Dec-00
<b>Relationship of this project to the business environment</b>	CEN/TC 12 WI 122
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13534 - Active Work Item - FDIS
<b>Title</b>	P&ngi – Drilling and production equipment – Inspection, maintenance, repair and remanufacture of hoisting equipment
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Aug-00 ISO Stage 60 (Publication): Dec-00
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 35
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13535 - Active Work Item - FDIS
<b>Title</b>	P&ngi – Drilling and production equipment – Hoisting equipment
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Aug-00 ISO Stage 60 (Publication): Dec-00
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 36

<b>Actions for alignment with the business environment</b>	
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<b>Designation</b>	13626 - Active Work Item - CD
<b>Title</b>	P&ngi – Drilling and production equipment – Drilling and well servicing structures - Specifications
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Aug-01 ISO Stage 60 (Publication): Jan-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 51
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	14693 - Active Work Item - CD
<b>Title</b>	P&ngi – Drilling and production equipment – Drilling equipment
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-00 ISO Stage 50 (Issuance of FDIS): Aug-01 ISO Stage 60 (Publication): Jan-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 100
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13533 - Active Work Item - FDIS
<b>Title</b>	P&ngi – Drilling and production equipment – Sepcification for drill through equipment
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Nov-00 ISO Stage 60 (Publication): Mar-01
<b>Comments</b>	9-Oct-00 cancelled by TMB 55/1998
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 39
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13624 - Frozen
<b>Title</b>	P&ngi – Drilling and production equipment – Design and operation of marine drilling riser systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): ISO Stage 60 (Publication):
<b>Comments</b>	The project is waiting on new technical information generated through DEEPSTAR, and available through AMJIG
<b>Relationship of this project</b>	CEN/TC12 WI 49

<b>to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13625 - Active Work Item - CD
<b>Title</b>	P&ngi – Drilling and production equipment – Design, rating, manufacture and testing of marine drilling riser couplings
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-00 ISO Stage 50 (Issuance of FDIS): Dec-01 ISO Stage 60 (Publication): May-02
<b>Comments</b>	CEN/TC12 WI 50
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10423 - Active Work Item - DIS
<b>Title</b>	P&ngi – Drilling and production equipment – Wellhead and Christmas tree equipment
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Nov-00 ISO Stage 60 (Publication): Jan-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 10
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15993 - Active Work Item - NWI
<b>Title</b>	P&ngi – Basic documents for wellhead equipment design, materials and welding, quality control and end connector requirements
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Sep-02 ISO Stage 50 (Issuance of FDIS): Nov-03 ISO Stage 60 (Publication): Apr-04
<b>Comments</b>	NWI – WD Apr-01, CD Sep-01
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10417 - Active Work Item - WD
<b>Title</b>	P&ngi – Subsurface safety valve systems – Design, installation, repair and operation
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Sep-01 ISO Stage 50 (Issuance of FDIS): Sep-02 ISO Stage 60 (Publication): Mar-03

<b>Comments</b>	CD-01
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 6
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10428 - Active Work Item - NWI
<b>Title</b>	P&ngi – Drilling and production equipment – Sucker rods (pony rids, polished rods, couplings and sub-couplings) - Specification
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-03 ISO Stage 50 (Issuance of FDIS): Jun-04 ISO Stage 60 (Publication): Dec-04
<b>Comments</b>	NWI – WD Dec-00, CD Dec-02
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 15
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10431 - Active Work Item - NWI
<b>Title</b>	P&ngi – Drilling and production equipment – Pumping units – Specification
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-03 ISO Stage 50 (Issuance of FDIS): Jun-04 ISO Stage 60 (Publication): Dec-04
<b>Comments</b>	WD Dec-00, CD Dec-02
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 16
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	14310 - Active Work Item - DIS
<b>Title</b>	P&ngi – Downhole equipment – Packers and bridge plugs
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): DIS.2 Jun-00 ISO Stage 50 (Issuance of FDIS): Jan-01 ISO Stage 60 (Publication): Jun-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 95
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15136-1 - Active Work Item - DIS
<b>Title</b>	P&ngi – Downhole equipment – Progressive cavity pump systems for artificial lift – Part 1: Pumps
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Dec-00 ISO Stage 60 (Publication): Apr-01

<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 108
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15136-2 - Active Work Item - NWI
<b>Title</b>	P&ngi – Downhole equipment – Progressive cavity pump systems for artificial life – Part 2: Drive heads
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jul-03 ISO Stage 50 (Issuance of FDIS): Jul-04 ISO Stage 60 (Publication): Jan-05
<b>Comments</b>	WD Jan-01, CD Jan-03
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 109
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	16070 - Active Work Item - DIS
<b>Title</b>	P&ngi – Downhole equipment – Lock mandrels and landing nipples
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Oct-00 ISO Stage 60 (Publication): Feb-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 69
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	17078-1 - Active Work Item - WD
<b>Title</b>	P&ngi – Downhole equipment – Gas lift mandrels and associated subsurface equipment – Part 1: Side pocket mandrels
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-02 ISO Stage 50 (Issuance of FDIS): Jun-03 ISO Stage 60 (Publication): Dec-03
<b>Comments</b>	CD Dec-01
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 117
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	17078-2 - Active Work Item - WD
<b>Title</b>	P&ngi – Downhole equipment – Gas lift mandrels and associated subsurface equipment – Part 2: Side pocket mandrel gas lift valves and flow control devices

<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-02 ISO Stage 50 (Issuance of FDIS): Jun-03 ISO Stage 60 (Publication): Dec-03
<b>Comments</b>	WD Oct-00, CD Dec-01
<b>Relationship of this project to the business environment</b>	CEN/TC 12 WI 118
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	17078-3 - Active Work Item - NWI
<b>Title</b>	P&ngi – Downhole equipment – Gas lift mandrels and associated subsurface equipment – Part 3: Latches, seals and interface data for side pocket mandrels and flow control devices
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-02 ISO Stage 50 (Issuance of FDIS): Jun-03 ISO Stage 60 (Publication): Dec-03
<b>Comments</b>	WD Dec-00, CD Dec-01
<b>Relationship of this project to the business environment</b>	CEN/TC 12 WI 119
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	17824 - Active Work Item - WD
<b>Title</b>	P&ngi – Downhole equipment – Wire wrapped screens
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Oct-02 ISO Stage 50 (Issuance of FDIS): Dec-03 ISO Stage 60 (Publication): May-04
<b>Comments</b>	WD Oct-00, CD Oct-01
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13628-2 - Active Work Item - FDIS
<b>Title</b>	P&ngi – Drilling and production equipment – Design and operation of subsea production systems – Part 2: Flexible pipe systems for subsea and marine applications
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Aug-00 ISO Stage 60 (Publication): Dec-00
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 8
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13628-3 - Active Work Item - FDIS
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<b>Title</b>	P&ngi – Drilling and production equipment – Design and operation of subsea production systems – Part 3: Through flowline (TFL) systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Aug-00 ISO Stage 60 (Publication): Dec-00
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 40
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13628-5 - Active Work Item - DIS
<b>Title</b>	P&ngi – Drilling and production equipment – Design and operation of subsea production systems – Part 5: Subsea control umbilicals
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Nov-00 ISO Stage 60 (Publication): Mar-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13628-7 - Active Work Item - CD
<b>Title</b>	P&ngi – Drilling and production equipment – Design and operation of subsea production systems – Part 7: Workover/completion riser systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Apr-01 ISO Stage 50 (Issuance of FDIS): Jun-02 ISO Stage 60 (Publication): Nov-02
<b>Comments</b>	CD Apr-00
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13628-8 - Active Work Item - DIS
<b>Title</b>	P&ngi – Drilling and production equipment – design and operation of subsea production systems – Part 8: Remotely Operated Vehicle (ROV) interfaces on subsea production systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jul-00 ISO Stage 50 (Issuance of FDIS): Nov-01 ISO Stage 60 (Publication): Mar-02
<b>Comments</b>	
<b>Relationship of this project to the business</b>	

<b>environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	16389 - Active Work Item - CD
<b>Title</b>	P&ngi – Drilling and production risers
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Aug-01 ISO Stage 50 (Issuance of FDIS): Oct-02 ISO Stage 60 (Publication): Mar-03
<b>Comments</b>	CD Oct-00
<b>Relationship of this project to the business environment</b>	CEN/TC 12 WI 102
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 SUBCOMMITTEE 5 – Casing, Tubing and Drill Pipe**

**Responsible ISO Member:** JISC (Japan)

**Chairperson:** Mr. Jim Nakahara

**Secretary:** Mr. Tsuneaki Kobayaski (JISF)

**Chairperson & Secretary Time Allocation Per Year** = 30% FTE

**Scope:** Standardization of casing, tubing and drill pipe used in drilling, production, refining and the transport by pipelines of petroleum and natural gas for the petroleum and natural gas industries.

**Actions for alignment with the business environment:** Active work program with 15 P members and 10 O members

**Projects directly under this subcommittee :**

Standards published:

<b>Designation</b>	ISO 10405:2000
<b>Title</b>	P&ngi – Care and use of casing and tubing
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	Revision of ISO 10405: 1993
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13680: 2000
<b>Title</b>	P&ngi – Corrosion resistant alloy seamless tubes for use as casing, tubing, and coupling stock
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC 12 WI 61
<b>Actions for alignment with the business environment</b>	

Active Working Programme:

<b>Designation</b>	10422 - Active Work Item - CD
<b>Title</b>	P&ngi – Threading, gauging and thread inspection of casing, tubing, and line pipe threads
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-00 ISO Stage 50 (Issuance of FDIS): Feb-02 ISO Stage 60 (Publication): Jun-02
<b>Comments</b>	Revision of ISO 10422: 1993
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 9
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	11960 - Active Work Item - DIS
<b>Title</b>	P&ngi – Steel pipes for use as casing or tubing for wells
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Nov-00 ISO Stage 60 (Publication): Mar-01
<b>Comments</b>	Revision of ISO 11960: 1996 Includes Normative references to both ISO and non-ISO standards having identical technical result (approved ISO/TMB resolution 54/2000)
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 67
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	11961 - Active Work Item - WD
<b>Title</b>	P&ngi – Drill pipe with weld-on tool joints
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-02 ISO Stage 50 (Issuance of FDIS): Aug-03 ISO Stage 60 (Publication): Jan-04
<b>Comments</b>	WD.3 Jun-00, CD Jun-01 Revision of ISO 11961:1996 Corresponds to ISO 10424
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 66
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15463 - Active Work Item - DIS
<b>Title</b>	P&ngi – Field inspection of new casing, tubing and plain end drill pipe
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Mar-01 ISO Stage 60 (Publication): Aug-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 30
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15464 - Active Work Item - CD
<b>Title</b>	P&ngi – Gauging and inspection of casing, tubing and line pipe threads
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jan-01 ISO Stage 50 (Issuance of FDIS): Mar-02 ISO Stage 60 (Publication): Aug-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 31
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10400 - Active Work Item - NWI for revision
<b>Title</b>	P&ngi – Formulae and calculations for casing, tubing, drill pipe and line pipe properties
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Oct-02 ISO Stage 50 (Issuance of FDIS): Mar-03 ISO Stage 60 (Publication): May-04
<b>Comments</b>	Revision of 10400: 1993 WD Jan-01, CD Oct-01
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13679 - Active Work Item - DIS
<b>Title</b>	P&ngi – Testing procedures for casing and tubing connections
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Mar-01 ISO Stage 60 (Publication): Aug-01
<b>Comments</b>	May go to second DIS ballot
<b>Relationship of this project to the business environment</b>	

<b>Actions for alignment with the business environment</b>	
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<b>Designation</b>	13678 - Active Work Item - DIS
<b>Title</b>	P&ngi – Evaluation and testing of thread compound systems for use with casing, tubing and linepipe
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Sep-00 ISO Stage 60 (Publication): Dec-00
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 SUBCOMMITTEE 6 – Processing Equipment and Systems**

**Responsible ISO Member:** AFNOR (France)

**Chairperson:** Mr. Loïc Lescop

**Secretary:** Ms. Valerie Capella

**Chairperson & Secretary Time Allocation Per Year** = 45% FTE

**Scope:** Standardization of processing equipment and systems used in drilling, production, refining and the transport by pipelines of petroleum and natural gas for the petroleum and natural gas industries.

**Actions for alignment with the business environment:** Active work program with 11 P members and 6 O members

**Projects directly under this subcommittee :**

Standards published:

<b>Designation</b>	ISO 13702: 1999
<b>Title</b>	P&ngi – Control and mitigation of fires and explosions on offshore production installations – Requirements and guidelines
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN ISO 13702:1999
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13706:2000
<b>Title</b>	P&ngi – Air cooled heat exchangers
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN ISO 13706:2000
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 15547:2000
<b>Title</b>	P&ngi – Plate heat exchangers
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC 12 WI 89
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 10441:1999
<b>Title</b>	P&ngi – Flexible couplings for mechanical power transmission – Special purpose application
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN ISO 10441-1:1999
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 14691:1999
<b>Title</b>	P&ngi – Flexible couplings for mechanical power transmission – General purpose applications
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	EN ISO 14691:2000
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 15544:2000
<b>Title</b>	P&ngi – Offshore production installations – Requirements and guidelines for emergency response
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 17776:2000
<b>Title</b>	P&ngi – Offshore production installations – Guidelines on tools and techniques for the identification and assessment of hazardous waste
<b>Target dates</b>	ISO Stage 60 (Publication): 2000
<b>Comments</b>	
<b>Relationship of this project</b>	

<b>to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 15138:2000
<b>Title</b>	P&ngi – Offshore production installations – Heating, ventilation and air-conditioning
<b>Target dates</b>	ISO Stage 60 (Publication): 1999
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 81
<b>Actions for alignment with the business environment</b>	

**Project developed in a JWG with ISO/TC153 SC1 (ISO/TC153 SC1 leader)**

<b>Designation</b>	ISO 10434:1998
<b>Title</b>	Steel gate valves, flanged and butt-welded ends
<b>Target dates</b>	ISO Stage 60 (Publication): 1998
<b>Comments</b>	Joint Working Group with ISO/TC153
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

Active Working Programme:

<b>Designation</b>	10418 - Active Work Item - CD
<b>Title</b>	P&ngi – Offshore production installations – analysis, design, installation and testing of basic surface safety systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-00 ISO Stage 50 (Issuance of FDIS): Feb-02 ISO Stage 60 (Publication): Aug-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 7
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	14690 - Frozen
<b>Title</b>	P&ngi – Offshore production installations – Health, safety and environmental management systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): ISO Stage 60 (Publication):
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10438-1 - Active Work Item - DIS
<b>Title</b>	P&ngi – Lubrication, shaft-sealing and control-oil systems and auxiliaries – Part 1: General requirements
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): May-01 ISO Stage 60 (Publication): Sep-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 104
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10438-2 - Active Work Item - DIS
<b>Title</b>	P&ngi – Lubrication, shaft-sealing and control-oil systems and auxiliaries – Part 2: Special purpose oil systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): May-01 ISO Stage 60 (Publication): Sep-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 105
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10438-3 - Active Work Item - DIS
<b>Title</b>	P&ngi – Lubrication, shaft-sealing and control-oil systems and auxiliaries – Part 3: General purpose oil systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-99 ISO Stage 50 (Issuance of FDIS): May-01 ISO Stage 60 (Publication): Sep-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 106
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10438-4 - Active Work Item - DIS
<b>Title</b>	P&ngi – Lubrication, shaft-sealing and control-oil systems and auxiliaries – Part 4: Self-acting gas seal support systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-99 ISO Stage 50 (Issuance of FDIS) May-01 ISO Stage 60 (Publication): Sep-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 107
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10436 - Active Work Item - WD
<b>Title</b>	P&ngi – General purpose steam turbines
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-02 ISO Stage 50 (Issuance of FDIS): Aug-03 ISO Stage 60 (Publication): Jan-04
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 20
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10437 - Active Work Item - DIS
<b>Title</b>	P&ngi – Special purpose steam turbines
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Oct-99 ISO Stage 50 (Issuance of FDIS): Mar-01 ISO Stage 60 (Publication): Aug-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 21
<b>Actions for alignment with the business environment</b>	

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<b>Designation</b>	13703 - Active Work Item - FDIS
<b>Title</b>	P&ngi – Design and installation of piping systems on offshore production platforms
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Sep-98 ISO Stage 50 (Issuance of FDIS): Aug-00 ISO Stage 60 (Publication): Dec-00
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 37
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	14692-1 - Active Work Item - DIS
<b>Title</b>	P&ngi – Glass-reinforced plastic (GRP) piping – Part 1: Applications and materials
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-00 ISO Stage 50 (Issuance of FDIS): Dec-01 ISO Stage 60 (Publication): May-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 110
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	14692-2 - Active Work Item - DIS
<b>Title</b>	P&ngi – Glass-reinforced plastic (GRP) piping – Part 2: Qualification and manufacture
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-00 ISO Stage 50 (Issuance of FDIS): Dec-01 ISO Stage 60 (Publication): May-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 111
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	14692-3 - Active Work Item - DIS
<b>Title</b>	P&ngi – Glass-reinforced plastic (GRP) piping – Part 3: System design
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-00 ISO Stage 50 (Issuance of FDIS): Dec-01 ISO Stage 60 (Publication): May-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 112
<b>Actions for alignment with</b>	

<b>the business environment</b>	
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<b>Designation</b>	14692-4 - Active Work Item - DIS
<b>Title</b>	P&ngi – Glass-reinforced plastic (GRP) piping – Part 4: Fabrication, installation and operation
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Nov-00 ISO Stage 50 (Issuance of FDIS): Dec-01 ISO Stage 60 (Publication): May-02
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 113
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	15649 - Active Work Item - DIS
<b>Title</b>	P&ngi – Piping
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Apr-00 ISO Stage 50 (Issuance of FDIS): Jan-01 ISO Stage 60 (Publication): Jun-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13704 - Active Work Item - DIS
<b>Title</b>	P&ngi – Calculation of heater-tube thickness in petroleum refineries
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jul-99 ISO Stage 50 (Issuance of FDIS): skipped ISO Stage 60 (Publication): Mar-01
<b>Comments</b>	FDIS may be skipped
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13705 - Active Work Item - DIS
<b>Title</b>	P&ngi – Fired heaters for general refinery service
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Aug-99 ISO Stage 50 (Issuance of FDIS): Nov-00 ISO Stage 60 (Publication): Apr-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 41
<b>Actions for alignment with</b>	

<b>the business environment</b>	
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<b>Designation</b>	16812 - Active Work Item - DIS
<b>Title</b>	P&ngi – Shell and tube heat exchangers
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jul-00 ISO Stage 50 (Issuance of FDIS): Jun-01 ISO Stage 60 (Publication): Nov-01
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

**Projects under development in Joint Working Groups with ISO/TC67 SC6, but under leadership of ISO/TC60, ISO/TC153 SC3, ISO/TC118, ISO/TC153 SC1, or ISO/TC192**

ISO/TC60 Lead Committee:

<b>Designation</b>	13691 - Active Work Item - DIS
<b>Title</b>	High-speed special-purpose gear units for the petroleum, chemical and gas industries
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Feb-00 ISO Stage 50 (Issuance of FDIS): Mar-01 ISO Stage 60 (Publication): Jul-01
<b>Comments</b>	JWG with TC60 – Gears
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 43
<b>Actions for alignment with the business environment</b>	

ISO/TC115 SC3 Lead Committee:

<b>Designation</b>	13709 - Active Work Item - DIS
<b>Title</b>	Centrifugal pumps for petroleum, heavy duty chemical, and gas industry service
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS.2): Jan-01 ISO Stage 50 (Issuance of FDIS): Sep-01 ISO Stage 60 (Publication): Feb-02
<b>Comments</b>	JWG with TC115 - Pumps
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 42
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13710 - Active Work Item - CD
<b>Title</b>	Reciprocating positive displacement pumps for use in the petroleum and natural gas industries – technical specifications
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-01 ISO Stage 50 (Issuance of FDIS): May-02 ISO Stage 60 (Publication): Oct-02

<b>Comments</b>	JWG with TC115-Pumps
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 46
<b>Actions for alignment with the business environment</b>	

ISO/TC118 Lead Committee:

<b>Designation</b>	10439 - Active Work Item - DIS
<b>Title</b>	Petroleum, chemical and gas service industries – centrifugal compressors
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): DIS.2 Feb-00 ISO Stage 50 (Issuance of FDIS): Jan-01 ISO Stage 60 (Publication): Jun-01
<b>Comments</b>	JWG with TC118 - Compressors, pneumatic tools and pneumatic machines
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 23
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10442 - Active Work Item - DIS
<b>Title</b>	Packaged integrally geared centrifugal air compressors
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Jan-01 ISO Stage 60 (Publication): Jul-01
<b>Comments</b>	Cancelled by ISO TMB 55/1998 due to lack of progress; JWG with TC118 - Compressors, pneumatic tools and pneumatic machines
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 25
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13631 - Active Work Item - DIS
<b>Title</b>	P&ngi – Packaged reciprocating gas compressors
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Aug-00 ISO Stage 50 (Issuance of FDIS): Jul-01 ISO Stage 60 (Publication): Nov-01
<b>Comments</b>	JWG with TC118 - Compressors, pneumatic tools and pneumatic machines
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 53
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	13707 - Active Work Item - DIS
<b>Title</b>	P&ngi – Reciprocating compressors

<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Aug-00 ISO Stage 60 (Publication): Nov-00
<b>Comments</b>	JWG with TC118 - Compressors, pneumatic tools and pneumatic machines
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 44
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10440-1 - Active Work Item - FDIS
<b>Title</b>	P&ngi – Rotary-type positive-displacement compressors – Part 1: Process compressors (oil-free)
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Jul-00 ISO Stage 60 (Publication): Nov-00
<b>Comments</b>	JWG with TC118 - Compressors, pneumatic tools and pneumatic machines
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 24
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	10440-2 - Active Work Item - DIS
<b>Title</b>	P&ngi – Rotary-type positive-displacement compressors – Part 2: Packaged air compressors (oil-free)
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Dec-00 ISO Stage 60 (Publication): May-01
<b>Comments</b>	JWG with TC118 - Compressors, pneumatic tools and pneumatic machines
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 60
<b>Actions for alignment with the business environment</b>	

ISO/TC153 SC1 Lead Committee:

<b>Designation</b>	15761 - Active Work Item - DIS
<b>Title</b>	Steel gate, globe and check valves for sizes DN 100 and smaller, for petroleum and natural gas industries
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): Jan-01 ISO Stage 60 (Publication): Jun-01
<b>Comments</b>	JWG with TC153 – Valves
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with</b>	

<b>the business environment</b>	
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<b>Designation</b>	17292 - Active Work Item - NP
<b>Title</b>	Metal ball valves for petroleum, petrochemical and allied industries
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): ISO Stage 50 (Issuance of FDIS): ISO Stage 60 (Publication):
<b>Comments</b>	JWG with TC153 – Valves
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

ISO/TC192 Lead Committee:

<b>Designation</b>	3977-5 - Active Work Item - DIS
<b>Title</b>	Gas turbines – Procurement – Part 5: Applications for petroleum and natural gas industries
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): DIS.2 Jun-00 ISO Stage 50 (Issuance of FDIS): Jun-01 ISO Stage 60 (Publication): Dec-01
<b>Comments</b>	JWG with TC192 – Gas Turbines
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 47
<b>Actions for alignment with the business environment</b>	

**ISO/TC67 SUBCOMMITTEE 7 – Offshore Structures**

**Responsible ISO Member:** BSI (United Kingdom)

**Chairperson:** Mr. Richard Snell

**Secretary:** Mr. Malcolm Greenley

**Chairperson & Secretary Time Allocation Per Year = 25% FTE**

**Scope:** Standardization in the field of offshore structures used in the production and storage of petroleum and natural gas, including procedures for assessment of the site-specific application of mobile offshore drilling and accommodation units

**Actions for alignment with the business environment:** Active work program with 15 P members and 6 O members

**Projects directly under this subcommittee :**

Standards published:

<b>Designation</b>	ISO 13819-1:1995
<b>Title</b>	P&ngi – Offshore structures – General requirements
<b>Target dates</b>	ISO Stage 60 (Publication): 1995
<b>Comments</b>	Revisions of document will be under 19900 number
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	ISO 13637:1997
<b>Title</b>	P&ngi – Offshore structures – Mooring of mobile offshore drilling units (MODUs)
<b>Target dates</b>	ISO Stage 60 (Publication): 1997
<b>Comments</b>	
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

Active Working Programme:

**Draft Business Plan of  
«NUMBER»**

**Date:** 01-01-29

**Version:** Draft

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<b>Designation</b>	19901-1 - Active Work Item - WD
<b>Title</b>	P&ngi – Offshore structures – Supplementary general requirements – Part 1: Metocean design and operating considerations
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-01 ISO Stage 50 (Issuance of FDIS): Feb-03 ISO Stage 60 (Publication): Jul-03
<b>Comments</b>	WD Jan-00, CD Dec-00
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19901-2 - Active Work Item - WD
<b>Title</b>	P&ngi – Offshore structures – Supplementary general requirements – Part 2: Seismic criteria and design procedures
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-01 ISO Stage 50 (Issuance of FDIS): Feb-03 ISO Stage 60 (Publication): Jul-03
<b>Comments</b>	WD Feb-00, CD Dec-00
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19901-3 - Active Work Item - WD
<b>Title</b>	P&ngi – Offshore structures – Supplementary general requirements – Part 3: Topside structure
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Sep-02 ISO Stage 50 (Issuance of FDIS): Nov-03 ISO Stage 60 (Publication): Apr-04
<b>Comments</b>	WD Apr-00, CD Sep-01
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19901-4 - Active Work Item - CD
<b>Title</b>	P&ngi – Offshore structures – Supplementary general requirements – Part 4: Geotechnical and foundation design considerations
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-00 ISO Stage 50 (Issuance of FDIS): Feb-02 ISO Stage 60 (Publication): Jul-02
<b>Comments</b>	CD Jan-00
<b>Relationship of this project</b>	

to the business environment	
Actions for alignment with the business environment	

<b>Designation</b>	19901-5 - Active Work Item - CD
<b>Title</b>	P&ngi – Offshore structures – Supplementary general requirements – Part 5: Weight control during engineering and construction
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Feb-01 ISO Stage 50 (Issuance of FDIS): Jan-02 ISO Stage 60 (Publication): Jun-02
<b>Comments</b>	CD Feb-00
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 82
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19901-6 - Active Work Item - WD
<b>Title</b>	P&ngi – Offshore structures – Supplementary general requirements – Part 6: Marine operations
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Mar-02 ISO Stage 50 (Issuance of FDIS): May-03 ISO Stage 60 (Publication): Oct-03
<b>Comments</b>	WD Dec-00, CD Mar-01
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19902 - Active Work Item - CD
<b>Title</b>	P&ngi – Offshore structures – Fixed steel structures
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-02 ISO Stage 50 (Issuance of FDIS): Aug-02 ISO Stage 60 (Publication): Jan-04
<b>Comments</b>	CD.2 Jun-01
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 27
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19903 - Active Work Item - WD
<b>Title</b>	P&ngi – Offshore structures – Fixed concrete structures
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-01 ISO Stage 50 (Issuance of FDIS): Feb-03 ISO Stage 60 (Publication): Jul-03
<b>Comments</b>	CD Dec-00
<b>Relationship of this project</b>	CEN/TC12 WI 28

<b>to the business environment</b>	
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19904 - Active Work Item - WD
<b>Title</b>	P&ngi – Offshore structures – Floating systems
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Dec-01 ISO Stage 50 (Issuance of FDIS): Feb-03 ISO Stage 60 (Publication): Jul-03
<b>Comments</b>	WD Jul-00, CD Dec-00
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 29
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19905-1 - Active Work Item - NWI
<b>Title</b>	P&ngi – Offshore structures – Site-specific assessment of mobile offshore units – Part 1: Jack-ups
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-03 ISO Stage 50 (Issuance of FDIS): Aug-04 ISO Stage 60 (Publication): Jan-05
<b>Comments</b>	WD Dec-00, CD Jun-02
<b>Relationship of this project to the business environment</b>	CEN/TC12 WI 35 & WI 62
<b>Actions for alignment with the business environment</b>	

<b>Designation</b>	19905-2 - Active Work Item NWI
<b>Title</b>	P&ngi – Offshore structures – Site-specific assessment of mobile offshore units – Part 2: Jack-ups commentary (technical report)
<b>Target dates</b>	ISO Stage 40 (Issuance of DIS): Jun-03 ISO Stage 50 (Issuance of FDIS): Aug-04 ISO Stage 60 (Publication): Jan-05
<b>Comments</b>	WD Dec-00, CD Jun-02
<b>Relationship of this project to the business environment</b>	
<b>Actions for alignment with the business environment</b>	