

Standards mentioned at PETROBRAS Offshore Basic Designs									RTM or NR	OBS. / CONCLUSION	Ref. Equivalence to ISO or IEC			
CATEGORY	ENTITY	STD NUMBER	TITLE	YEAR	P-55 INDEX	PMXL-1 INDEX	TOTAL AKPO	Ref. DOCUMENT			ENTITY	STD NUMBER	YEAR	TITLE
Alarm Systems	EEMUA	191	Alarm Systems - A Guide to Design, Management and Procurement	1999	X									
Alarm Systems	ISA	18.1	Annunciator Sequences and Specifications	2004	X	X	X	N-1882		Antes era S 18.1				
Analyzers	API	RP 555	Process Analyzers	2001	X	X	X							
Analyzers	ISA	RP 76.0.01	Analyzer System Inspection and Acceptance	1998						Verificar				
Control Panels	EIA	RS-310-C	Racks, Panels and Associated Equipment	1977	X	X				EXCLUIR. Norma cancelada				
Control Panels	ISA	RP-60.1	Control Center Facilities	1990	X	X				EXCLUIR				
Control Panels	ISA	RP-60.2	Control Center Design Guide and Terminology	1995	X	X				EXCLUIR				
Control Panels	ISA	RP-60.3	Human Engineering for Control Centers-	1985	X	X				EXCLUIR				
Control Panels	ISA	RP-60.4	Documentation for Control Centers	1990	X	X				EXCLUIR				
Control Panels	ISA	RP-60.6	Nameplates, Labels and Tags for Control Centers	1984	X	X				EXCLUIR				
Control Panels	ISA	RP-60.8	Electrical Guide for Control Centers	1978	X	X				EXCLUIR				
Control Panels	SAMA	PMC-28.2	Dimensions for Panels and Rack Mounted Industrial Process-Measurement and Control Instrument		X					EXCLUIR. SAMA não existe mais.				
Control Rooms	ISO	11064-1	Ergonomic Design of Control Centres - Part 1: Principles for the Design of Control Centres	2000		X								
Control Rooms	ISO	11064-2	Ergonomic Design of Control Centres - Part 2: Principles for the Arrangement of Control Suites	2000		X								
Control Rooms	ISO	11064-3	Ergonomic Design of Control Centres - Part 3: Control Room Layout	2002		X								
Control Valves	ANSI/ASME	B 16.10	Face To Face and End-To-End Dimensions of Valves	2000		X				Verificar				
Control Valves	ANSI/ASME	B 16.5	Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24 Metric/Inch Standard	2003	X	X	X			Verificar				
Control Valves	ANSI/ISA	75.01.01	Flow Equations for Sizing Control Valves	2002	X	X	X			Antes era S 75.01	IEC	60534-2-1		

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Control Valves	ANSI/ISA	75.02	Control Valve Capacity Test Procedures	1996	X	X				Antes era S 75.02				
Control Valves	ANSI/ISA	75.08	Installed Face-to-Face Dimensions for Flanged Clamp or Pinch Valves	1999						Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.08.01	Face-to-Face Dimensions for Integral Flanged Globe-Style Control Valve Bodies (Classes 125, 150, 250, 300, and 600)	2002		X				Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.08.02	Face-to-Face Dimensions for Flangeless Control Valves (Classes 150, 300, and 600)	2003						Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.08.03	Face-to-Face Dimensions for Socket Weld-End and Screwed-End Globe-Style Control Valves (Classes 150, 300, 600, 900, 1500, and 2500)	2001						Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.08.04	Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Class 4500)	2001						Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.08.05	Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Classes 150, 300, 600, 900, 1500, and 2500)	2002						Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.08.06	Face-to-Face Dimensions for Flanged Globe-Style Control Valve Bodies (Classes 900, 1500, and 2500)	2002						Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.08.07	Face-to-Face Dimensions for Separable Flanged Globe-Style Control Valves (Classes 150, 300, and 600)	2001						Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.08.09	Face-to-Face Dimensions for Sliding Stem Flangeless Control Valves (Classes 150, 300, and 600)	2004						Verificar se deve ser mantida				
Control Valves	ANSI/ISA	75.26.01	Control Valve Diagnostic Data Acquisition and Reporting	2006										
Control Valves	ANSI/ISA	93.00.01	Standard Method for the Evaluation of External Leakage of Manual and Automated On-Off Valves	1999										
Control Valves	API	598	Valve Inspection and Testing	2004	X	X*	X							
Control Valves	API	RP 553	Refinery Control Valves	1998	X									
Control Valves	FCI	70-2	Control Valve Seat Leakage	2006	X	X	X							
Control Valves	IEC	60534-2	Industrial-Process Control Valves - Part 2	2000	X	X				Por que somente Part 2???				
Control Valves	ISA	75.03	Face-To-Face Dimensions for Flanged Globe-Style Control Valve Bodies	-	X					EXCLUIR. Norma cancelada				
Control Valves	ISA	75.07	Laboratory Measurement of Aerodynamic Noise Generated by Control Valves	1997	X	X				Antes era S 75.07				

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Control Valves	ISA	75.11.01	Inherent Flow Characteristic and Rangeability of Control Valves	2002	X	X				Antes era S 75.11				
Control Valves	ISA	75.17	Control Valve Aerodynamic Noise Prediction	1989	X	X				Antes era S 75.17				
Control Valves	ISA	75.19.01	Hydrostatic Testing of Control Valves	2001	X	X	X			Antes era S 75.19				
Control Valves	ISA	RP 75.21	Process Data Presentation for Control Valves	1996	X	X								
Control Valves	ISA	RP 75.23	Considerations for Evaluating Control Valves Cavitation	1995	X	X								
Control Valves	ISA	TR 75.04.01	Control Valve Position Stability	1998										
Data Comm.	IEEE	std 802.3	Part 3: Carrier Sense Multiple Access With Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications	2006	X	X								
Data Comm.	TIA/EIA	RS-232-F	Interface Between Data Terminal Equipment and Data Communication Equipment Employing Serial Data Interchange	2002	X	X				Verificar				
Data Comm.	TIA/EIA	TIA-422-B	Electrical Characteristics of Balanced Voltage Differential Interface Circuits	2005	X	X				Verificar				
Data Comm.	TIA/EIA	TIA-485-A	Electrical Characteristics of Generators and Receivers for Use in Balanced Digital Multipoint Systems	2003						Verificar				
Electrical Systems	API	RP 14FZ	RP for Design and Installation of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class 1, Zone 0, Zone 1 and Zone 2 Locations	2001	X	X*		ET-3000.00-1200-800-PAZ-001						
Electrical Systems	IEC	60092	Electrical Installations in Ships (All Parts)		X	X								
EMC	CENELEC	EN-50081-2	Electromagnetic Compatibility Generic Emission Standard		X	X				EXCLUIR	IEC	61000	2006	Electromagnetic compatibility (EMC) Part 6-4: Emission standard for industrial environments
EMC	CENELEC	EN-50082-2	Electromagnetic Compatibility Generic Emission Standard		X	X				EXCLUIR	IEC	61000	2006	Electromagnetic compatibility (EMC) Part 6-2: Immunity for industrial environments
EMC	IEC	61000	Electromagnetic Compatibility (EMC) Series - All Parts		X	X	X	N-1882						
EMC	IEC	60533	Electrical and electronic installations in ships - Electromagnetic compatibility	1999	X									
EMC	IEEE	std 518	Guide for the Installation of Electrical Equipment to Minimize Electrical Noise Inputs to Controllers from External Sources		X	X				EXCLUIR. Norma cancelada				
EMC	NEMA	2-230-A	ICS Components for Solid-State Logic Systems		X					EXCLUIR				

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EMC	SAMA	PMC 33.1	Electromagnetic Susceptibility Of Process Control Instrumentation	1978	X					EXCLUIR. SAMA não existe mais.				
Enclosures	IEC	60079	Electrical Apparatus for Explosive Gas Atmospheres - All Parts		X	X	X	ET-3000.00-1200-800-PCI-001 ET-3000.00-1200-800-PAZ-000						
Enclosures	IEC	60529	Degrees of Protection Provided by Enclosures (IP code)	2001	X	X	X	ET-3000.00-1200-800-PCI-001 ET-3000.00-1200-800-PAZ-001						
Enclosures	IEC	61892-7	Mobile and Fixed Offshore Units - Electrical installations - Part 7: Hazardous Area	1997	X	X*		ET-3000.00-1200-800-PCI-001		Por que somente Part 7?				
Enclosures	ISA	12.01.01	Definitions and Information Pertaining to Electrical Apparatus in Hazardous (Classified) Locations	1999	X	X		ET-3000.00-1200-800-PCI-001		Verificar				
Enclosures	NEMA	ICS-6	Industrial Control and Systems Enclosures	1993	X	X				EXCLUIR				
Enclosures	NFPA	496	Standard for Purged and Pressurized Enclosures for Electrical Equipment	2003	X	X		ET-3000.00-1200 HOLD						
Environ. Conditions	IEC	60068	Environmental Testing - All Parts		X	X				Verificar aplicáveis				
F&G Detection System	ANSI/ISA	12.13.01	Performance Requirements for Combustible Gas Detectors	2003	X	X					IEC	61770 - 1 a 5		
F&G Detection System	API	RP 14G	RP for Fire Prevention and Control on Open Type Offshore Production Platforms	1993	X	X	X							
F&G Detection System	ISA	92.0.01	Performance Requirements for Toxic Gas Detection Instruments: Hydrogen Sulfide	1998	X					Antes era S 12.5-1				
F&G Detection System	ISA	92.0.02	Installation, Operation, and Maintenance of Toxic Gas-Detection Instruments: Hydrogen Sulfide	1998	X									
F&G Detection System	ISA	RP 12.13.02	Installation, Operation and Maintenance of Combustible Gas Detection Instruments	2003		X				SUBSTITUIR PELA IEC	IEC	61779-6		Electrical Apparatus for the Detection and Measurement of Flammable Gases - Part 6: Guide for the Selection, Installation, Use and Maintenance of Apparatus for the Detection and Measurement of Flammable Gases
F&G Detection System	NFPA	72-E	Automatic Fire Detectors		X					EXCLUIR. Norma inativa				
F&G Detection System	UL	268	Standard for Safety Smoke Detectors for Fire Alarm Signaling Systems	2003		X								
F&G Detection System	UL	521	Standard for Safety Heat Detectors for Fire Protective Signaling Systems	2005		X								
Flow Meter. Sys.	API	MPMS-10.7	Manual of Petroleum Measurement Standards-Sediment and Water-Karl Fisher	2001	X	X	X		RTM					

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Flow Meter. Sys.	API	MPMS-11.2	Manual of Petroleum Measurement Standards-Compressibility factors for hydrocarbons	2002	X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-12	Manual of Petroleum Measurement Standards-Calculation of Petroleum Quantities		X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-14.1	Manual of Petroleum Measurement Standards-Natural Gas Fluid measurements	2006	X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-14.2	Manual of Petroleum Measurement Standards-Compressibility Factors of Natural Gas and Other Related Hydrocarbon Gases (A.G.A. Report n° 8)			X	X		RTM					
Flow Meter. Sys.	API	MPMS-14.3-1	Manual of Petroleum Measurement Standards-Natural Gas Fluid Measurements-Concentric, Square-Edged Orifice Meters (A.G.A. Report n.º 3)	1993	X	X	X	ET-3000.00-1200-850-PGT-001	RTM					
Flow Meter. Sys.	API	MPMS-14.3-2	Manual of Petroleum Measurement Standards-Natural Gas Fluid Measurements-Specification and Installation Requirements, Reaffirmed May 1996 (ANSI/API 2530)	2000	X	X	X	ET-3000.00-1200-850-PGT-001	RTM					
Flow Meter. Sys.	API	MPMS-14.3-3	Manual of Petroleum Measurement Standards-Natural Gas Fluid Measurements-Natural Gas Applications	1992	X	X	X	ET-3000.00-1200-850-PGT-001	RTM					
Flow Meter. Sys.	API	MPMS-14.6	Manual of Petroleum Measurement Standards-Natural Gas Fluid Measurements-Continuous Density..	1998	X	X	X	ET-3000.00-1200-850-PGT-001						
Flow Meter. Sys.	API	MPMS-14.8	Manual of Petroleum Measurement Standards-Natural Gas Fluid Measurements-Liquefied Petroleum Gas ...	1998	X	X	X	ET-3000.00-1200-850-PGT-001						
Flow Meter. Sys.	API	MPMS-17	Manual of Petroleum Measurement Standards-Marine Measurements		X	X	X							
Flow Meter. Sys.	API	MPMS-20.1	Manual of Petroleum Measurement Standards-Allocation Measurements	1993	X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-4.1	Manual of Petroleum Measurement Standards-Proving Systems Introduction	2005	X	X	X	ET-3000.00-1200-850-PGT-001	RTM	ISO	7278		Liquid Hydrocarbons- Dynamic Measurement -Proving System	
Flow Meter. Sys.	API	MPMS-4.2	Manual of Petroleum Measurement Standards-Proving Systems Displacement Provers	2003	X	X	X	ET-3000.00-1200-850-PGT-001		ISO	7278		Liquid Hydrocarbons- Dynamic Measurement -Proving System	
Flow Meter. Sys.	API	MPMS-4.3	Manual of Petroleum Measurement Standards-Proving Systems Small Volume Provers		X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-4.4	Manual of Petroleum Measurement Standards-Proving Systems Tank Provers	1998	X	X	X	ET-3000.00-1200-850-PGT-001	RTM	ISO	7278		Liquid Hydrocarbons- Dynamic Measurement -Proving System	
Flow Meter. Sys.	API	MPMS-4.5	Manual of Petroleum Measurement Standards-Proving Systems Master Meters	2000	X	X	X	ET-3000.00-1200-850-PGT-001	RTM	ISO	7278		Liquid Hydrocarbons- Dynamic Measurement -Proving System	
Flow Meter. Sys.	API	MPMS-4.6	Manual of Petroleum Measurement Standards-Proving Systems Pulse Interpolation	1999	X	X	X	ET-3000.00-1200-850-PGT-001		ISO	7278		Liquid Hydrocarbons- Dynamic Measurement -Proving System	
Flow Meter. Sys.	API	MPMS-4.7	Manual of Petroleum Measurement Standards-Proving Systems Field-Standard Test Measures		X	X	X		RTM					

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Flow Meter. Sys.	API	MPMS-4.9	Manual of Petroleum Measurement Standards-Proving Systems Methods of Calibration	2005	X	X	X				ISO	7278	Liquid Hydrocarbons- Dynamic Measurement -Proving System	
Flow Meter. Sys.	API	MPMS-5.1	Manual of Petroleum Measurement Standards-Metering - General Considerations	2005	X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-5.2	Manual of Petroleum Measurement Standards-Metering -Liquid Hydrocarbon by Displacement Meters	2005	X	X	X				ISO	2714	Liquid Hydrocarbons-Vol.Measurement by Displacement Meter Systems other than Dispensing Pumps	
Flow Meter. Sys.	API	MPMS-5.3	Manual of Petroleum Measurement Standards-Metering -Liquid Hydrocarbon by Turbine Meters	2005	X	X	X				ISO	2715	Liquid Hydrocarbons - Volumetric Measurement by Turbine Meter Systems	
Flow Meter. Sys.	API	MPMS-5.4	Manual of Petroleum Measurement Standards-Metering Accessory Equipment for Liquid Meters	2005	X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-5.5	Manual of Petroleum Measurement Standards-Metering Pulsed Data Transmission	2005	X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-5.6	Manual of Petroleum Measurement Standards-Metering Liquid Hydrocarbon by Coriolis Meters	2002	X	X	X							
Flow Meter. Sys.	API	MPMS-5.8	Manual of Petroleum Measurement Standards-Metering Liquid Hydrocarbon by Ultrasonic Flowmeters -Transit Time technology	2005	X	X	X							
Flow Meter. Sys.	API	MPMS-7.2	Manual of Petroleum Measurement Standards - Temperature Determination	2001	X	X	X		RTM					
Flow Meter. Sys.	API	MPMS-8.1	Manual of Petroleum Measurement Standards-Standard Practice for Manual Sampling of Petroleum and Petroleum Products		X	X	X	ET-3000.00-1200-850-PGT-001						
Flow Meter. Sys.	API	MPMS-8.2	Manual of Petroleum Measurement Standards-Automatic Sampling of Petroleum and Petroleum Products		X	X	X	ET-3000.00-1200-850-PGT-001	RTM					
Flow Meter. Sys.	API	MPMS-8.3	Manual of Petroleum Measurement Standards-Mixing and Handling of Liquid Samples of Petroleum and Petroleum Products		X	X	X	ET-3000.00-1200-850-PGT-001	RTM					
Flow Meter. Sys.	API	MPMS-9	Manual of Petroleum Measurement Standards-Density Determination			X	X		RTM	Define método laboratório. Retirar?				
Flow Meter. Sys.	API	MPMS-9-1	Manual of Petroleum Measurement Standards-Hydrometer Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products (ANSI/ASTM D 1298) (IP 160)		X	X	X		RTM	Define método laboratório. Retirar?				
Flow Meter. Sys.	API	MPMS-9-3	Manual of Petroleum Measurement Standards-Thermohydrometer Test Method for Density and API Gravity of Crude Petroleum and Liquid Petroleum Products		X	X	X		RTM	Define método laboratório. Retirar?				
Flow Meter. Sys.	API	RP 551	Process Measurement Instrumentation	1993	X	X	X	N-1882 ET-3000.00-5500-800-PCI-002 ET-3000.00-1200-800-PCI-001						
Flow Meter. Sys.	IEC	60751	Industrial Platinum Resistance Thermometer Sensors	1995	X	X		N-1882						
Flow Meter. Sys.	ISA	MC 96.1	Temperature Measurement Thermocouples	1982		X					ISO	8310		

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Flow Meter. Sys.	ISA	RP 31.1	Specification, installation and calibration of Turbine Flowmeters	1977		X		N-1882 ET-3000.00-5500-800-PCI-002			ISO	2715	Liquid Hydrocarbons- Volumetric Measurement by Turbine Meters System	
Flow Meter. Sys.	ISO	2715	Liquid hydrocarbons -- Volumetric measurement by turbine meter systems	1981					RTM	Incluída - O RTM requer conformidade com esta norma				
Flow Meter. Sys.	ISO	3171	Petroleum Liquids-Automatic Pipeline Sampling	1988			X				ISO	9951		
Flow Meter. Sys.	ISO	4006	Measurement of Fluid Flow in Closed Conduits - Vocabulary and Symbols	1993			X							
Flow Meter. Sys.	ISO	4266	Petroleum and Liquid Petroleum Products - Measurement of Level and Temperature in Storage Tanks by Automatic Methods	2002				RTM	RTM	Só quando houver medição em tanques				
Flow Meter. Sys.	ISO	4268	Petroleum and Liquid Petroleum Products - Temperature Measurements Manual Methods	2000				RTM	RTM	Só quando houver medição em tanques e medição manual de temperatura				
Flow Meter. Sys.	ISO	4269	Petroleum and Liquid Petroleum Products - Tank Calibration by Liquid Measurement - Incremental Method Using Volumetric Meters	2001				RTM	RTM	Só quando houver medição em tanques				
Flow Meter. Sys.	ISO	5024	Petroleum Liquids and liquefied petroleum gases-Measurement - standard reference conditions	1999			X							
Flow Meter. Sys.	ISO	5168	Measurement of fluid flow - Procedures for the evaluation of uncertainties	2005			X	ET-3000.00-1200-850-PGT-001 RTM	RTM					
Flow Meter. Sys.	ISO	6551	Petroleum Liquids and gases-Fidelity and security of dynamic Measurement -Cabled transmission of electric and/or electronic pulsed data	1995			X							
Flow Meter. Sys.	ISO	7507	Petroleum and liquid petroleum Products-Calibration of Vertical Cylindrical Tanks Obs: As partes 5 e 6 não se aplicam?	1-2003 2-2005 3-2006 4-1995 5-2000				RTM	RTM	Só quando houver medição em tanques verticais cilíndricos				
Flow Meter. Sys.	ISO	10012	Measurement management systems -- Requirements for measurement processes and measuring equipment	2003					RTM	Incluída - O RTM requer conformidade com esta norma				
Flow Meter. Sys.	ISO	11631	Measurement of Fluid Flow - Methods of specifying flowmeter performance	1998			X							
Flow Meter. Sys.	ISO	4267-2	Petroleum and Liquid Petroleum Products - Calculation of Oil Quantities - Part 2: Dynamic Measurement	1988	X			ET-3000.00-1200-850-PGT-001 RTM	RTM					
Flow Meter. Sys.	ISO	5167 1 to 4 Parts	Measurement of Fluid Flow by Means of Pressure Differential Devices Inserted in Circular Cross-Section Conduits Running Full	2003		X	X	ET-3000.00-1200-850-PGT-001 RTM	RTM					
Flow Meter. Sys.	ISO	TR 9464	Guidelines for the use of ISO 5167-1	1998					RTM	Incluída - O RTM requer conformidade com esta norma				
Flow Meter. Sys.	OIML	R117	Measuring Systems for Liquids other than Water					ET-3000.00-1200-850-PGT-001	RTM					
Flow Meter. Sys.	OIML	R120	Standard Capacity Measures for Testing Measuring Systems for Liquids Other than Water	1996				ET-3000.00-1200-850-PGT-001 RTM		não está no RTM anexo a port.1. Está em outra port.? Retirar?				

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Forms	ISA	20	Specification Forms for Process Measurement and Control Instruments, Primary Elements, and Control Valves	1981	X	X	X	N-1882 ET-3000.00-1200-800-PCI-001			IEC	60534-7	1989	Industrial - process Control Valves - Part 7: Control Valve Data Sheet
Forms	ISA	TR 20.00.01	Specification Forms for Process Measurement and Control Instruments - Part 1: General Considerations Updated with 27 New Specification Forms	2001				N-1882 ET-3000.00-1200-800-PCI-001						
Foundation Fieldbus	IEC	61158-2	Digital data communications for measurement and control – Fieldbus for use in industrial control systems – Part 2: Physical layer specification and service definition			X								
Foundation Fieldbus	IEC	61158-3	Digital data communications for measurement and control Fieldbus for use in industrial control systems Part 3: Data link service definition	2003		X								
Foundation Fieldbus	IEC	61158-4	Digital data communications for measurement and control – Fieldbus for use in industrial control systems – Part 4: Data link protocol specification			X								
Foundation Fieldbus	IEC	61158-5	Digital Data Communications for Measurement and Control - Fieldbus for Use in Industrial Control Systems - Part 5: Application Layer Service Definition			X								
Foundation Fieldbus	IEC	61158-6	Digital Data Communications for Measurement and Control - Fieldbus for Use in Industrial Control Systems - Part 6: Application Layer Protocol Specification			X								
Foundation Fieldbus	IEC	TR 61158-1	Digital data communications for measurement and control - Fieldbus for use in industrial control systems - Part 1: Overview and guidance for the IEC 61158 series	2003										
General	API	RP 14E	RP for Design and Installation of Offshore Production Platform Piping System	1991	X	X								
General	API	RP 552	Transmission Systems	1994	X	X	X	N-1882 ET-3000.00-1200-800-PCI-001						
General	ISA	50.00.01	Compatibility of Analog Signals for Electronic Industrial Process Instruments	2002	X	X		N-1882		Antes era S 50.1				
General	ISA	RP-55-1	Hardware Testing of Digital Process Computer		X	X				EXCLUIR. Norma cancelada				
General	ISO	31	Quantities and Units Obs:13 partes com revisões em anos variados				X							
General	ISO	91	Petroleum Measurement Tables	1-1992 2-1991			X							
Graphical Symbols	ANSI/ISA	S 5.4	Instrument Loop Diagrams	1991	X	X	X				ISO	3511-3		Process Measurement Control Functions and Instrumentation- Symbolic Representation - Part 3: Detailed Symbols for instrument interconnection diagrams
Graphical Symbols	ASME-	Y32.10	Graphic Symbols for Fluid Power Diagrams—OBS:NORMA-ABANDONADA-EM-2003	1994	X	X		N-1882		EXCLUIR. Norma cancelada	ISO	1219	AKPO	Fluid Power System and components- Graphic Symbols
Graphical Symbols	ISA	5.1	Instrumentation Symbols and Identification	1992	X	X	X	N-1882 ET-3000.00-1200-800-PCI-001 ET-3000.00-5500-800-PCI-002		Antes era S.5.1. REVISAR ISO	ISO	3511-1 3511-2		Process Measurement Control Functions and Instrumentation- Symbolic Representation - Part 1: Basic Requirements Part 2: Extension of Basic Requirement

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Graphical Symbols	ISA	5.2	Binary Logic Diagrams for Process Operations	1992	X	X	X	ET-3000.00-5500-800-PCI-002		Antes era S.5.2			ISO 3511 - NÃO ISO 5784-1 - NÃO IEC TR 61734 - NÃO	
Graphical Symbols	ISA	5.3	Graphic Symbols for Distributed Control/Shared Display Instrumentation, Logic and Computer Systems	1983	X	X	X			Antes era S.5.3	ISO	3511-4	Process Measurement Control Functions and Instrumentation-Symbolic Representation - Part 4: Basic Symbols for process computer , interface, and shared display/control functions	
Graphical Symbols	ISA	S 5.5	Graphic Symbols for Process Displays	1985	X	X	X							
Installation/ Inspection	API	RP 574	Inspection Practices for Piping System Components	1998	X	X								
Installation/ Inspection	API	RP 576	Inspection of Pressure-Relieving Devices	2000		X								
Installation/ Inspection	API	RP 520 Part II	Sizing, Selection, and Installation of Pressure - Relieving Devices in Refineries, Part II - Installation	2003	X	X*	X	N-1882						
Instrument Air	ANSI/ISA	7.0.01	Quality Standard for Instrument Air	1996	X	X								
Intrinsic Safety	ISA	RP 12.06.04	RP for Wiring Methods for Hazardous (Classified) Locations- Instrumentation- Part 1: Intrinsic Safety-	2003	X	X				Antes era RP 12.6. EXCLUIR	IEC	60079		
Intrinsic Safety	ISA	RP 12.2.02	Recommendations for the Preparation, Content, and Organization of Intrinsic Safety Control Drawings-	1996	X	X				Antes era RP 12.4. EXCLUIR	IEC	60079		
Performance/ Tests	ASME	PTC 19.3	PTC 19 - Part 3: Temperature Measurement Instruments and Apparatus	2004			X	N-1882		VERIFICAR				
Performance/ Tests	IEC	60770-1	Transmitters for Use in Industrial-Process Control Systems - Part 1: Methods for Performance Evaluation	1999										
Performance/ Tests	IEC	60770-2	Transmitters for use in industrial-process control systems - Part 2: Methods for inspection and routine testing	2003										
Performance/ Tests	IEC	60770-3	Transmitters for use in industrial-process control systems - Part 3: Methods for performance evaluation of intelligent transmitters	2006										
PLCs	IEC	61131	Programmable Logic Controllers - All Parts		X	X	X	N-2194						
Pressure Safety Valves	API	STD 2000	Venting Atmospheric and Low-Pressure Storage Tanks Nonrefrigerated and Refrigerated	1998	X	X	X	N-1882						
Pressure Safety Valves	API	STD 526	Flanged Steel Pressure Relief Valves	2002	X	X	X	N-1882						
Pressure Safety Valves	API	STD 527	Seat Tightness of Pressure Relief Valves	2002	X	X	X	N-1882						
Pressure Safety Valves	ASME	BPVC - I	Boiler Pressure and Vessel Code - Section I: Power Boilers	2006				N-1882						

Standards mentioned at PETROBRAS Offshore Basic Designs									RTM or NR	OBS. / CONCLUSION	Ref. Equivalence to ISO or IEC			
CATEGORY	ENTITY	STD NUMBER	TITLE	YEAR	P-55 INDEX	PMXL-1 INDEX	TOTAL AKPO	Ref. DOCUMENT			ENTITY	STD NUMBER	YEAR	TITLE
Pressure Safety Valves	ASME	BPVC - VIII	Boiler Pressure and Vessel Code - Section VIII: Pressure Vessels	2006				N-1882						
Pressure Safety Valves	ASME	PTC 25	Pressure Relief Devices	2001				N-1882						
Process Control	API	RP 554	Process Instrumentation and Control	1995	X	X	X	N-1882						
Process Control	API	RP 557	Guide to Advanced Control Systems	2000	X	X								
Process Control	ISA	S 26	Dynamic Response Testing of Process Control Instruments	-	X	X				EXCLUIR. Norma cancelada				
Safety Instrumented Systems	IEC	61508-1 to 7	Functional Safety of Electrical/ Electronic/ Programmable Electronic Safety Related Systems - All Parts				X							
Safety Instrumented Systems	IEC	61511-1	Functional Safety – Safety Instrumented Systems for the Process Industry Sector – Part 1: Framework, Definitions, System, Hardware and Software Requirements	2003										
Safety Instrumented Systems	IEC	61511-2	Functional safety - Safety Instrumented Systems for the Process Industry Sector - Part 2: Guidelines for the Application of IEC 61511-1	2003										
Safety Instrumented Systems	IEC	61511-3	Functional Safety – Safety Instrumented Systems for the Process Industry Sector – Part 3: Guidance for the Determination of the Required Safety Integrity Levels	2003										
Safety Instrumented Systems	ISA	91.00.01	Identification of Emergency Shutdown Systems and Controls that are Critical to maintain Safety in Process Industries	2001		X				Antes era 91.01. EXCLUIR				
Safety Systems	API	RP 14C	RP for Analysis, Design, Installation and Testing of Basic Surface Safety Systems for Offshore Production Platforms	2001	X	X	X	ET-3000.00-5500-800-PCI-002 ET-1200.00-1200-800-PAZ-001			ISO	10418		
Safety Systems	API	RP 14J	RP for Design and Hazards Analysis for Offshore Production Facilities	2001	X	X	X							
Safety Systems	API	RP 520 Part I	Sizing, Selection and Installation of Pressure-Relieving Devices in Refineries - Part I - Sizing and Selection	2000	X	X*	X	N-1882						
Safety Systems	API	RP 521	Guide for Pressure-Relieving and Depressurizing Systems	1999	X	X	X	N-1882						
Software	ANSI/IEEE	STD 1008	Software Unit Testing	2002	X	X								
Software	IEEE	std 730	IEEE Standard for Software Quality Assurance Plans	2002	X	X								
Software	IEEE	std 829	IEEE Standard for Software Test Documentation	1998	X	X								
Software	IEEE	std 830	IEEE Recommended Practice for Software Requirements Specifications	1998	X	X								

Standards mentioned at PETROBRAS Offshore Basic Designs									RTM or NR	OBS. / CONCLUSION	Ref. Equivalence to ISO or IEC			
CATEGORY	ENTITY	STD NUMBER	TITLE	YEAR	P-55 INDEX	PMXL-1 INDEX	TOTAL AKPO	Ref. DOCUMENT			ENTITY	STD NUMBER	YEAR	TITLE
Terminology	ANSI/IEEE	STD 610.12	Software Requirements	1990		X				Antes era STD 529				
Terminology	ISA	51.1	Process Instrumentation Terminology	1993	X	X		N-1882		Antes era S 51.1	IEC	60050-351	International Electrotechnical Vocabulary - Part 351: Automatic Control	
Terminology	ISA	RP 42.00.01	Nomenclature for Instrument Tube Fittings	2001	X	X				Antes era RP 42.1				
Terminology	ISA	75.05.01	Control Valve Terminology	2005	X	X		N-1882 ET-3000.00-1200-800-PCI-001		Antes era S 75.05				
Terminology	ISO	1998-6	Petroleum Industry - Terminology - Part 6: Measurement	2000			X							
Terminology	SAMA	PMC 32.1	Process Instrumentation Reliability Terminology	-	X	X				EXCLUIR. SAMA não existe mais.				
Well Control Systems	AIA/NAS	4638	Cleanliness Requirements of Parts Used in Hydraulic Systems	2004	X	X				EXCLUIR - Inativa em 2001	ISO	11171	2001	Hydraulic fluid power - Calibration of automatic particle counters
Well Control Systems	API	RP 14B	Design, Installation, Repair and Operation of Subsurface Safety Valve Systems	2005	X	X		ET-3000.00-1200-800-PAZ-001			ISO	10417	2004	Petroleum and Natural Gas Industries - Subsurface Safety Petroleum and Natural Gas Industries - Subsurface Safety Valve Systems - Design, Installation, Operation and Redress
Well Control Systems	API	RP 14D	Specification for Wellhead Surface Safety Valves and Underwater Safety Valves for Offshore Service	-	X			ET-3000.00-1200-800-PAZ-001		EXCLUIR. Norma cancelada				
Well Control Systems	API	RP 14H	RP for Installation, Maintenance, and Repair of Surface Safety Valves and Underwater Safety Valves Offshore	1994	X	X					ISO	10423	2003	Petroleum and Natural Gas Industries - Drilling and Production Equipment - Wellhead and Christmas Tree Equipment
Well Control Systems	API	Spec 6A	Specification for Wellhead and Christmas Tree Equipment	2005	X	X					ISO	10423	2003	Petroleum and Natural Gas Industries - Drilling and Production Equipment - Wellhead and Christmas Tree Equipment