



Pars Oil and Gas Company

Rev. No.: 4 Class:1

Doc Title: LIST OF APPLICABLE CODES & INDUSTRY STANDARDS

Doc. Number:: DB-1516-999-P332-203

# LIST OF APPLICABLE CODES & **INDUSTRY STANDARDS**

**CONTRACT NO.:** POGC-801-84/240

South Pars Gas Field Development Phases 15&16 PROJECT:

Pars Oil and Gas Company **COMPANY:** 

**CONSORTIUM:** GHORB, IOEC, ISOICO and SAFF

						APPD.	71112.	71112.
REV.	DATE	DESCRIPTION	PREP.	СНКД.	P.M.	P.D.	Contractor APPD.	Company APPD.
0	07/07/07	ISSUED FOR APPROVAL	T.Z	M.P	F.Z	V.B		
1	30/09/07	ISSUED FOR APPROVAL	T.Zareinehkafsh	M.Pourmohammadali	F.Zanjani	V.Baghoomian	H.Firouzi	
2	26/11/07	ISSUED FOR APPROVAL	T.Zareinehkafsh	M.Pourmohammadali	F.Zanjani	V.Baghoomian	H.Firouzi	
3	30/01/08	ISSUED FOR APPROVAL	T.Zareinehkafsh	M.Pourmohammadali	F.Zanjani	V.Baghoomian	S.H. Habibi	
4	20/04/08	IFD	M.Pourmohammadali	M.Pourmohammadali	F.Zanjani	V.Baghoomian	S.H. Habibi	









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# South Pars Gas Field Development Phases 15&16 Onshore Facilities



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#### 1 SCOPE

This specification provides the list of International Codes and Industry Standards which will govern the design and construction of the ONSHORE FACILITIES for SOUTH PARS FIELD DEVELOPMENT PROJECT (Phase 15 & 16).

#### 2 INSTRUCTIONS

- 2.1 The project facilities shall be designed, engineered, built, installed and commissioned to the latest relevant international codes and standards issued up to 21.12.2006. Other references stated in these standards shall also apply. These reference documents shall be the latest revision at the date of Call for Tenders.
- 2.2 GHORB-E-KHATAM shall be responsible for checking consistency of specified documents and informing POGC of any interpretation prior to application.
- 2.3 The list attached concerns only the Codes & Standards, it is understood that compulsory regulations (local /international) shall be applied.
- 2.4 The list attached is general and not exhaustive, it shall not restrict the requirement mentioned in the specifications or other documentation.









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#### 3 LIST OF APPLICABLE CODES AND INDUSTRY STANDARDS

#### 3.1 PROCESS DESIGN

#### API (American Petroleum Institute)

API RP 520 Sizing, Selection, and Installation of Pressure-Relieving

Devices in Refineries

API RP 521 Guide for Pressure-Relieving and Depressurising Systems
API STD 2000 Venting Atmospheric and Low Pressure Storage Tanks (Non-

Refrigerated and Refrigerated)

#### 3.2 PRESSURE VESSELS - HEAT EXCHANGERS

ASME (American Society of Mechanical Engineers)

ASME SECTION VIII ASME Boiler & Pressure Vessel Code, Div. 1 and 2

including Addenda

TEMA Standards of the Tubular Exchangers Manufacturers

Association

EJMA Standards of the Expansion Joints Manufacturers

Association, Inc.

ASME SECTION II ASME Boiler & Pressure Vessel Code, Materials, Part A/B/C/D

ASME SECTION IX ASME Boiler & Pressure Vessel Code, Welding

NACE MR 0175/ISO 15156 The World Wide Authority on Materials Selection, Design,

Installation, Maintenance, and Corrosion Prevention.









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#### BSI (British Standard Institute)

PD 5500 Unfired Fusion Welded Pressure Vessels

Others

**UBC 1997** Uniform Building Code - Volume 2

Division III = Wind Design

Division IV = Earthquake Design

EEMUA Publication No143 Recommendations for Tube end Welding

#### API (American Petroleum Institute)

API 662 Plate Heat Exchangers for General Refinery Services

**API 660** Shell and Tube Heat Exchanger for General Refinery Services

## Welding Research Council

**WRC** Bulletin 107 Bulletin 297 WRC

#### **HEATERS – BOILERS** 3.3

**API 530** Calculation of Heater Tube Thickness in Petroleum Refinery

**API 535** Burners for Fired Heaters in General Refinery Services

**API 560** Fired Heater for General Refinery Service

**ASME Section 1** Boiler and Pressure Vessel Code

**ASME B31.1 Power Piping** 

**ASME B31.3** Chemical Plant and Petroleum Refinery Piping

# CICIND(International Committee on Industrial Chimney)

2001 Model code for concrete chimneys part A-The shell, with commentaries 1995 Model code for concrete chimneys part C-Steel linings, with

commentaries









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Doc Title: LIST OF APPLICABLE CODES & INDUSTRY STANDARDS

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1999 Model code for steel chimneys, with commentaries Amendment A-Mar.

2002

1996 Model on chimney protective coatings

#### 3.4 **AIR COOLERS**

**API 661** Air Cooled Heat Exchangers for General Refinery Service

EEMUA Publication No143 Recommendations for Tube end Welding

ASME Section VIII ASME Boiler & Pressure Vessel code Div.1&2 Including Addenda ASME Section II ASME Boiler & Pressure Vessel code & Materials Parts A.B.C.D

Welding Qualification ASME Section IX

**ASME B16.5** Select Pipe Flanges & Flanged Fittings

**ASTM 123** Specification for Zinc (Hot Dipped Galvanized) Coatings

#### STORAGE TANKS 3.5

# 3.5.1 Storage Tanks Non Refrigerated

# API (American Petroleum Institute)

**API 620** Recommended Rules for Design and Construction of large,

welded, low pressure Storage tanks

**API 650** Welded Steel Tanks for Oil Storage

API 2000 Venting Atmospheric and Low-pressure Storage Tanks **API 2550** Method for Measurement and Calibration of Upright

Cylindrical Tanks

API MPM CH2.2B Management Petroleum Measurement Standards- Tank Calibration-

Calibration of upright Cylindrical Tank using the Optical Reference

#### **UBC** (Uniform Building Code)

**UBC** 1997

Volume 2 Chapter 16









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Division III = Wind Design

Division IV = Earthquake Design.

# 3.5.2 Storage Tanks Refrigerated

### BSI (British Standard Institute)

BS 7777 Flat Bottomed Vertical Cylindrical Storage Tanks for Low

Temperature Service

BS 8110 Structural Use of Concrete (parts 1 to 13)

BS 5896 Specification for High Tensile Steel Wire and Strand for the

Prestressing of Concrete

### API (American Petroleum Institute)

**API 620** Design and construction of Large, Welded, Low Pressure Storage

**API 2000** Venting Atmospheric and Low-Pressure Storage Tanks

API 2550 Method for Measurement and Calibration of Upright Cylindrical

Tanks

API 2510 Design and construction of LPG installations

API 2510A Fire protection considerations for the design & operation of

Liquefied petroleum gas storage

# ASTM (American Society for Testing and Materials)

ASTM A 537 Specification for Pressure Vessel Plates, Heat Carbon-Manganese-

Silicon Steel

Others

EEMUA No 147 Recommendations for the Design and Construction of Refrigerated

Liquefied Gas storage Tanks









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AISI E-I Steel Plate Engineering Data Series: Useful Information - Design

of Plate Structure, Volume II

FIP-CEB Report on Method of Assessment of the Fire Resistance of

Concrete Structural Members

FIP-CEB Model Code 1990

FIP-CEB Bulletin 174 - Model Code for Fire Design of Concrete Structures

Acceptance and Application of Post-tensioning System FIP Recommendations

FIP Recommendations Approval, Supply and Acceptance of Steels for Prestressing

FIP Report Assesment of Mechanical Properties of Structural Materials for

Cryogenic Applications.

ASME SA 435 Specification for Straight Beam Ultrasonic Examination of Steel

**Plates** 

#### **UBC** (Uniform Building Code)

**UBC** Volume 2 Chapter 16

Division III = Wind Design

Division IV = Earthquake Design

#### 3.6 ROTATING EQUIPMENT

#### API (American Petroleum Institute)

**API 610** Centrifugal Pumps for Petroleum, Heavy Duty Chemical &

Gas Industry Services

**API 613** Special-Purpose Gear Units for Refinery Petroleum,

Chemical and Gas Industry Services

**API 614** Lubrication, Shaft-Sealing, and Control System for Special

Purpose Applications

**API 616** Gas Turbines for Refinery Services

**API 617** Centrifugal Compressors for Petroleum, Chemical and Gas

Service Industries

**API 618** Reciprocating Compressors for Petroleum, Chemical and Gas









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**Industry Services** 

**API 670** Vibration, Axial-Position, and Bearing Temperature Monitoring Systems **API 671** Special-Purpose Couplings for Refinery Service **API 672** Packaged Integrally Geared, Centrifugal Air Compressors for Petroleum, Chemical and Gas Industry Services **API 674** Positive displacement pumps - Reciprocating **API 675** Positive displacement pumps - Controlled volume **API 676** Positive Displacement Pump - Rotary **API 682** Shaft Sealing Systems for Centrifugal and Rotary Pumps **API 686** Recommended Practices for Machinery Installation and Installation Design API 619 Rotary Type Positive Displacement Compressor for Petroleum and Gas

API 673 Centrifugal Fans for ,Petroleum, Chemical and Gas Industry Services

API 677 General Purpose Gear Units for Petroleum, Chemical and Gas Industry

Services

**Industry Services** 

# NFPA (National Fire Protection Association)

NFPA 20 Installation of Stationary Pumps for Fire Protection

#### ASME (American Society of Mechanical Engineers).

Power Test Code:

• PTC 9	"Displacement Compressors"
• PTC 10	"Compressors and Exhausters"
• PTC 22	"Gas Turbine Power Plant"
• PTC 1	"General Instruction"
• PTC 7.1	"Reciprocating Pumps"
• PTC 8.2	"Centrifugal Pumps"









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• PTC 11 "Fans"

• PTC 17 "Reciprocating Internal Combustion Engines"

PTC 30 "Air Cooled Heat Exchanger"

### **Hydraulic Institute Standards**

### ISO (International Organization for Standardization)

ISO 2548 Acceptance Tests for Centrifugal, Mixed Flow and Axial

**Pumps** 

ISO 1940 Mechanical Balancing of Rotating Bodies

ISO 5199 Industrials Pumps - Technical Specification for Centrifugal Pumps

**Others** 

AGMA 6011 Association of Gear Manufacturers, Practice for High Speed

Helical and Herringbone

### 3.7 OVERHEAD CRANES AND HOISTS

FEM / I Rules for the Design of Hoisting Appliances

NFE 52.126 French Norm for Testing Cranes

B.S. 2573 Parts 1&2 Rules for Design of Cranes

B.S. 466 Power Driven Overhead Traveling Crane

### 3.8 PIPING

# ANSI/ASME (American National Standards Institute)

ASME B 1.1 Unified Inch Screw Threads

ASME B 1.20.1 Pipe Threads, General Purpose

ASME B 16.5 Steel Pipe Flanges and Flanged Fittings

ASME B 16.10 Faca to Face and End to End Dimensions of Valves
ASME B 16.34 Steel Valves - Flanged, Threaded and welding End









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**ASME B 16.47** Large Diameter Steel Flanges - NPS 26 through NPS 60 **ASME B 31.1 Power Piping ASME B 31.3** Process Piping. **ASME B 31.4** Transportation Systems for liquid Hydrocarbons and other Liquids **ASME B 31.8** Gas Transmission and Distribution Piping System ASME B 16.48 Steel Line Blanks **ASME B 16.9** Factory Made Wrought Steel Butt-Welding Fittings **ASME B 16.28** Wrought steel butt welding short radius elbows and returns Forged Fittings, Socket-Welding and Threaded **ASME B 16.11 ASME B 16.24** Cast Copper Alloy Pipe Flanges and Flanged Fittings ASME B 16.25 Butt welding Ends **ASME B 16.20** Gaskets for Pipe Flanges - Ring-Joints, Spiral-Wound, and Jacketed **ASME B 16.21** Non-metallic Flat Gaskets for Pipe Flanges **ASME B 16.36** Steel Orifice Flanges ASME B 18.2.1 Square and Hex Bolts and Screws **ASME B 18.2.2** Square and Hex Nuts **ASME B 31.8** Gas Transmission and Distribution Piping System Welded and Seamless Wrought Steel Pipe **ASME B 36.10M** ASME B 36.19M Stainless Steel Pipe

# API (American Petroleum Institute)

**ASME B 46.1** 

API 598	Valve Inspection and Testing
API 600	Steel Gate Valves - Flanged and Butt-Welding Ends
API 602	Compact Steel Gate Valves
API 5L	Line Pipe
API 6D	Specification for Pipeline Valves
API 6 FA	Specification for Fire Test for Valves
API 15 I R	Low Pressure Fiberglass Line Pine

Surface Texture









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**API 594** Wafer and Wafer-Lug Check Valves

API 604 Ductile Iron Gates Valves Flanged Ends

API 607 Fire Test for Soft-Seated Quarter-Turn Valves

**API 609** Lug- and Wafer-Type Butterfly Valves

API 660 Shell and Tube Heat Exchangers for General Refinery Services

MSS (Manufacturers Standardization Society of the Valve and Fittings Industry, Inc)

MSS SP6 Standard Finishes for Contact Faces of Pipe Flanges and

connecting ends Flanges of Valves and Fittings

MSS SP25 Standard Marking System for Valves, Fittings, Flanges and Unions

MSS SP44 Steel Pipe Line Flanges

MSS SP58 Pipe Hangers and Supports - Material and Design

MSS SP69 Pipe Hangers and Supports - Selection and Application

MSS SP 9 Spot Facing for Bronze, Iron and Steel Flanges

MSS SP 42 Class 150 Corrosion Resistant Gate, Globe, Angle and Check Valves

with Flanged and Butt Weld Ends

MSS SP 45 By-pass and Drain Connections

Quality Standards for Steel Castings for Valves, Flanges, and Fittings MSS SP 53/4/5

and Other Piping Components

MSS SP 61 Pressure Testing of Steel Valves

MSS SP 72 Ball Valves with Flanged or Butt-Welding Ends for General Service

MSS SP 80 Bronze Gate, Globe, Angle and Check Valves

MSS SP 97 integrally reinforced forged branch outlet fittings

MSS SP 43 Wrought Stainless Steel Butt-Welding Fittings

MSS SP 75 Specification for High Test Wrought Butt Welding Fittings

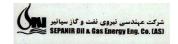
MSS SP 95 Swage (D) Nipples and Bull Plugs

<u>Others</u>

BS 6755 Specification and Test of Steel Valves for the Petroleum,

Petrochemical and Allied Industries









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EJMA STD Standard of the Expansion Joint Manufacturers Association,

Inc. including Addenda

NACE MR 0175/

ISO 15156 (Ed.2001,

Amendment 2005) Sulphide Stress Cracking Resistant Metallic Materials for Oil Field

Equipment

WRC 297 Welding Research Council

BS 5351 Specification for Steel Ball Valves for the Petroleum Petrochemical

and Allied Industries (Amendment 1990)

BS 5352 Specification for Steel Wedge Gate, Globe and Check Valves 50 mm

and Smaller for Petroleum Petrochemical and Allied Industries

(Amendment 1990/1989)

BS 6755-1 Testing of Valves Part 1:Specification for Production Pressure Testing

Requirements

BS 6755-2 Testing of Valves: Specification for Fire Type Testing Requirements

EJMA STD Standard of the Expansion Joint Manufacturers Association Including

Addenda

#### ASTM (American Society for Testing and Materials)

As described within Project Piping Classes.

Note: Other codes and standards as described within project piping classes and other project piping specification and latest revision (up to effective date of the contract) of these codes an standards shall be applied ,but shall be checked by software.

#### 3.9 CIVIL - STRUCTURAL STEEL

# 3.9.1 Design Codes

#### ◆ Loading

Uniform Building Code

**UBC - 1997** 









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 Minimum Design loads for buildings and other structures

ANSI/ASCE 7-02

# ◆ Concrete Design

• Building Code requirements for structural concrete :

American Concrete Institute (ACI), and more specifically:

A.C.I. 318 M-05 and commentary,

A.C.I. 318 RM-95 and including all A.C.I. codes and documents in reference,

A.C.I. 305R-91 "Hot weather concreting",

A.C.I. 301,

A.C.I. 315.

• CIRIA Special publication 31 "Guide to concrete construction in the Gulf Region".

ASTM C 33	Standard Specification for Concrete Aggregates
ASTM D242	Standard Specification for Mineral Filler for
	Bituminous Paving Mixtures
ASTM D692	Standard Specification for Bituminous Paving Mixtures
ASTM D698	Moisture-Density Relation of Soil Using 5.5 lb (2.5kg) Hammer
	and 12" (305mm) Drop
ASTM D1073	Standard Specification for Fine Aggregate for Bituminous Paving
	Mixtures
ASTM D1559	Resistance to Plastic Flow of Bituminous Mixtures
	Using Marshall Apparatus
ASTM D2027	Standard Specification for Cutback Asphalt (Medium
	Curing Type)
ASTM D2028	Standard Specification for Cutback Asphalt (Rapid Curing Type)
ACI 318R	Building Code Requirements for Reinforced Concrete

### ◆ Steel structure Design

A.I.S.C. Manual of American Institute for Steel Construction









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• A.I.S.C. 2001- ASD 1989

Manual of American Institute for Steel Construction

#### ◆ Foundation

- Code of Practice for foundations of machinery (CP 2012).
- Welded steel tanks for oil storage API 650 for tank foundations.
- ◆ Roads design
- AASHTO Guide for design of Pavement structures 1993
- Overseas Road Note 31 (Fourth Edition)
  - "A guide to the structural design of bitumen-surfaced roads in tropical and sub-tropical countries".
- Specification for Highway works Highways agency. The Stationary Office - 1994.
- ACI. 351.3R-04 "Foundations for Dynamic Equipment".

## 3.9.2 Construction Standards

- ◆ American Concrete Institute (A.C.I.)
- ◆ American Institute of Steel Construction (A.I.S.C.)
- ♦ A.A.S.H.T.O. standards

### 3.9.3 Testing, Inspection and acceptance standards

◆ A.S.T.M. standards or equal (B.S., N.F....)

#### 3.10 BUILDINGS

# 3.10.1 Design codes

◆ Uniform Building Code

U.B.C - 1997

♦ Minimum design loads for buildings and other structures ANSI / ASCE 7 -93

◆ American Concrete Institute

A.C.I. 318 M-95

◆ American Institute for steel construction









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◆ Safety Guide SG-22 for blast resistant design of building

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### 3.10.2 Construction standards

- ◆ American Concrete Institute (A.C.I.)
- ◆ American Institute of Steel Construction (A.I.S.C.)

# 3.10.3 Testing inspection and acceptance standards

♦ A.S.T.M. Standards or equivalent (B.S., NF....)

#### 3.10.4 Materials

◆ A.S.T.M. Standards or equal (B.S. - N.F. ....)

#### 3.10.5 Acoustics

ISO 31/VII Quantities and Units of Acoustics ISO 140-9 Room-to-Room Sound Attenuation

ISO 717: Part 1 Airborne Sound Installation in Buildings and Interior Building

Element.

ISO 717: Part 2 Airborne Sound Installation of Façade Elements and

açades

# 3.10.6 Insulation

◆ A.S.T.M. Standards or equivalent (BS, NF,....)

#### 3.11 **HVAC**









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ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers)

ASHRAE 52.1-1991 Gravimetric and dust-spot procedures for testing air-cleaning

used in general ventilation or removing particulate matter

ASHRAE 55a-1995 Thermal Environmental conditions for human occupancy

**ASHRAE 62-2001** Ventilation for acceptable indoor air quality

ASHRAE Handbooks and Standards

OCMA (Oil Companies Materials Association)

Oil and Gas Environment

ARI (American Refrigeration Institute)

ARI 310/380-2004 Packaged Terminal Air-Conditioners and Heat Pumps

ARI 410-2001 Forced-Circulation Air-Cooling and Air-Heating Coils

ANSI/ARI 430-99 Central Station Air Handling Units

ARI 440-98 Room Fan-Coils

ANSI/ARI 640-2001 Commercial and Industrial Humidifiers

ARI 680-2001 Residential Air Filter Equipment

ARI 850-93 Commercial and Industrial Air Filter Equipment

AFI (American Filtering Institute)

**ADC (Air Diffusion Council)** 

SMACNA (Sheet Metal and Air Conditioning Contractors National Association)

Low Pressure Duct Construction Standards









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NFPA 90A STD. for Installation of Air-Conditioning and Ventilating

System

#### **ELECTRICAL** 3.12

#### IEC (International Electrical Commission)

and in particular:

IEC 34/60034 **Rotating Electrical Machines** 

**IEC 56** High Voltage Alternating - Current Circuit Breakers

IEC 76/60076 Power Transformers

Electrical Apparatus for Explosive Atmospheres IEC 79/60079

**IEC 298** A.C. Metal-Enclosed Switchgear and Controlgear for Rated

Voltages above 1 kV and Up to and Including 52 kV

**IEC 364 Electrical Installations of Buildings** 

IEC 439 Low-Voltage Switchgear and Controlgear Assemblies **IEC 529** Classification of Degrees of Protection Provided by

Enclosures for Electrical Equipment.

IEC 1024 Protection of Structures against Lightning

IEC 6 1034 Measurement of Smoke Density of Cables Burning Under Defined

Conditions

Colures of the Cores of Flexible Cables and Cords First Edition IEC 60 173

IEC 60 183 Guide to the selection of High-Voltage Cables Second Edition

IEC 60 227 Polyvinyl Chloride Insulated Cables of Rated Voltages up to and

Including 450/570 V

IEC 60 228 Conductors of Insulated Cabled Second edition









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IEC 60 287	Electrical Cables-Calculation of the Rating
IEC 60 331	Tests for Electric Cables under Fire Conditions-Circuit Integrity
IEC 60 332	Tests for Electric Cables under Fire Conditions
IEC 60 354	Loading Guide for Oil-Immersed Power Transformers Second Edition
IEC 60 364	Electrical Installations of Buildings
IEC 60 446	Basic and safety Principles for man-machine interface, marking and identification-identification of conductors by colures or numerals
IEC 60 502	Power Cables with Extruded Insulation and Their Accessories for Voltages from 1KV
IEC 60 529	Degree of Protection Provided by Enclosures(IP code) Edition 2.1; Edition 2:1989 Consolidated With Amendment 1:1999
IEC 60 702	Mineral Insulated Cables and Their Terminations With a Rated Voltage Not Exceeding 750 V
IEC 60 726 IEC 60034	Dry-Type Power Transformer First Edition; (Amendment 1-1986) Rotating Electrical Machines
IEC 60044-1	Instrument Transformer-part 1: Inductive Current Transformers
IEC 60044-2	Instrument Transformer-part 2: Inductive Voltage Transformers
IEC 60072	Dimensions and Output Series For Rotating Electrical Machines
IEC 60076	Power Transformer









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Doc. Number:: DB-1516-999-P332-203

IEC 60079 Electrical apparatus for Explosive Gas Atmospheres IEC 60085 Thermal evaluation and classification of electrical insulation IEC 60146 Semiconductor Converters - General Requirements and Line **Commutated Converters** IEC 60186 Voltage Transformers Second Edition; (amendment 1-1988) (Amendment 2-1995) IEC 60228 Conductors of Insulated Cables Second Edition; Errata-09/1979; Supplement A-1982; Amendment 1-1993 IEC 60255 **Electrical Relays** IEC 60269 Low-Voltage Fuses IEC 60282 high-Voltage Fuses IEC 60287 Electric Cables - Calculation of the Current Rating IEC 60289 Reactors Second Edition; CENELEC EN 60289: 1994 IEC 60298 AC Metal-Enclosed Switchgear for Rated Voltage Above 1 KV and up to and Including 52 KV Third Edition; Amendment 1-1994; Corrigendum-1995; Corrigendum-1998 IEC 60335-2-29 Household and Similar Electrical Appliances - Safety - Part2-29: Particular Requirements for Battery Chargers Fourth Edition









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IEC 60364 **Electrical Installations of Buildings** IEC 60420 High-Voltage Alternating Current Switch-Fuse Combinations Second Edition IEC 60439 Low-Voltage Switchgear and Control gear Assemblies IEC 60470 High-Voltage Alternating Current Contactors and Contactor-Based Motor-Starters Second Edition; Cancels and Replaces IEC 60632-1 IEC 60478 Stabilized Power Supplies, DC Output IEC 60529 Degree of Protection Provided by Enclosures(IP code) Edition 2.1; Edition 2:1989 Consolidated With Amendment 1:1999 IEC 60622 Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes Sealed Nickel-Cadmium Prismatic Rechargeable Single Cells Third Edition IEC 60623 Secondary cells and batteries containing Alkaline or Other Non-acid electrolytes Vented nickel-cadmium prismatic rechargeable single cells Fourth Edition IEC 60686 Stabilized Power Supplies, AC Output First Edition IEC 60694 Common Specifications For High-Voltage Switchgear and Control gear Standards Edition 2.2; Consolidated with amendment 1:2000; Amendment 2: 07/2001 IEC 60947 Low-Voltage Switchgear and Control gear IEC 60989 Separating Transformers, Autotransformers, variable Transformer and Reactors First Edition









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IEC 61000 Electromagnetic Compatibility

IEC 61024 Protection of Structures Against Lightning

IEC 62271 High-Voltage Switchgear and Control gear

IEC 61442 Electric Cables-test methods for accessories for power cables with

rated voltage from 6Kv up to 30 Kv

IEC 60885-7 Electric test methods for electric cables part 1: Electrical tests for

cables ,cords and wires for voltages up to and including 450/750 V

IEC 60092-375 Electrical Installations in Ships - Part 375: Shipboard

Telecommunication Cables and Radio-Frequency Cables - General

Instrumentation, Control and Communication Cables

IEC 60754 Test on Gases Evolved During Combustion of Materials from Cables

IEC 61253 Piezoelectric ceramic resonators - A Specification in the IEC quality

assessment system for electronic components (IECQ)

IEC 60068-2 Environmental testing - Part 2: Methods of test - Test Fg:

Vibration, acoustically induced

Others

CENELEC European Standards and Publications
NFC 13200 High Voltage Electrical Installation

DIN 57141/ Earthing System in a.c. installations for rated voltages above 7 Kv

VDE0141/7-76

NFPA 70 Electrical Standard for Industrial Machinery









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Doc. Number: : DB-1516-999-P332-203

IEEE 80 Earthing System

#### 3.13 **INSTRUMENTATION - CONTROLS**

#### ANSI (American National Standards Institute)

Valves - Flanged, Threaded and Welding End B 16 - 34

FCI 70-2 Control Valve Seat Leakage

MC 96 - 1 Temperature Measurement Thermocouples

#### API (American Petroleum Institute)

Manual of Petroleum Measurement Standards

**API RP 521** Guide for Pressure Relief and Depressurising Systems API Std 526 Flanged Steel Safety Valves for Use in Petroleum Industry

(including marking)

API Std 527 Commercial Seat Tightness of Safety Relief Valves with

Metal to Metal Seat

**API RP 551** Process Measurement Instrumentation

**API RP 552** Transmission System

**API RP 554 Process Instrumentation** 

**API RP 555 Process Analysers** 

API Std 598 Valve Inspection and Testing.

#### ASME (American Society of Mechanical Engineers)

ASME, Div. 1 Flange Rating when Temperature Exceeds the Limits of

Sect. VIII, ap. 2 ANSI B 16-5

ASME, Div. 1 Hydraulic Test for Safety Relief Valve Sect. VIIII

### **IEC (International Electrical Commission)**

IEC 60-068.2 Basic Environmental Testing Procedures for Electronic

Components and Electronic Equipment

IEC 60-079 Electrical Apparatus for Explosive Gas Atmosphere









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Doc Title: LIST OF APPLICABLE CODES & INDUSTRY STANDARDS

Doc. Number: : DB-1516-999-P332-203

IEC 60-331 Fire resisting characteristics of electrical cables

IEC 60-332 Tests on electric cables under fire conditions (with part 1

and part 3c)

IEC 60-529 Classification of Degree of Protection Provided by

**Enclosures** 

IEC 60-584 Thermocouples

IEC 60-751 Industrial Platinum Resistance Thermometer Sensors IEC 60-801 Electromagnetic Compatibility for Industrial-Process

Measurement and Control Equipment

IEC 61508 Functional safety of electrical/electronic/programmable electronic

safety-related systems

IEC 61511 Functional Safety Instrumented System for the Process Industry sector IEC 60092-375 Part 375: Shipboard Telecommunication Cables and Radio-Frequency Cables -

General Instrumentation, Control and Communication Cables

IEC 60092-376 Electrical installations in ships - Part 376: Shipboard Multi core Cables

for control circuit

#### IEEE (Institute of Electrical and Electronics Engineers)

**IEEE 472** Surge Protection Criteria

#### ISA (Instrument Society of America)

ISA S5.1 Instrumentation Symbols and Identification ISA S75.01 Flow Equations for Sizing Control Valves

ISA S75.03 Uniform Face-to-Face Dimensions for Flanged Globe Style

**Control Valve Bodies** 

ISA S 18.1 Annunciator Sequences and Specifications

#### Manual of Petroleum Measurement Standards

Others

EIA RS 232/422/485 Interface between Data Terminal Equipment and Data

Communication Equipment Employing serial Binary Data.









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Doc Title: LIST OF APPLICABLE CODES & INDUSTRY STANDARDS

Doc. Number: : DB-1516-999-P332-203

NACE MR 0175-99 Sulphide Stress Cracking Resistant Metallic Materials for Oilfield

Equipment (1999 Revision)

ISO 5167-1 Measurement of fluid flow by means of pressure differential

devices -Orifice Plates , Nozzles and Venturi Tube , inserted in circular

cross-section conduits running full

#### 3.14 **SAFETY / FIRE PROTECTION**

<u>General</u>

IP Code Part 15 Area Classification Code for Petroleum Installations IP Code part 9 Large Bulk Pressure Storage and Refrigerated LPG

# API (American Petroleum Institute)

API 2021 Fighting Fires in and around flammable and combustible liquid

atmospheric storage tanks

### NFPA (National Fire Protection Association)

NFPA 10	Portable Fire Extinguishers
NFPA 11	Low-Expansion Foam and Combined Agent Systems
NFPA 11A	Medium- and High-Expansion Foam Systems
NFPA 11C	Mobil Foam Apparatus
NFPA 12	Carbon Dioxide Extinguishing Systems
NFPA 13	Installation of Sprinklers Systems
NFPA 14	Installation of Standpipe Private Hydrants and Hose Systems
NFPA 15	Water Spray Fixed Systems for Fire Protection
NFPA 16	Installation of Deluge Form Water Sprinkler Systems and
	Foam-water spray systems
NFPA 17	Dry Chemical Extinguishing Systems
NFPA 20	Installation of Stationary Pumps for Fire Protection
NFPA 24	Private Fire Service Mains and Their Appurtenances









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Doc Title: LIST OF APPLICABLE CODES & INDUSTRY STANDARDS

Doc. Number: : DB-1516-999-P332-203

NFPA 30 Flammable and Combustible Liquids Code

NFPA 45 Fire Protection for Laboratories using Chemicals NFPA 58 Storage and Handling of Liquefied Petroleum Gases

NFPA 59 Standard for the Storage and handling of LPG at Utility Gas

NFPA 72 National Fire Alarm Code

NFPA 86 Ovens and Furnaces.

**NFPA 101** Life Safety Code

**NFPA 325** Fire Hazard Properties of Flammable Liquids, Gases and

Volatile Solids

World Bank Standard.

#### 3.15 **NOISE CONTROL**

# EEMUA (Engineering Equipment and Material Users Association)

Pub. 140 Noise Procedure Specification

(formally OCMA Spec. NWG1, Rev.2, 1980)

#### ISO (International Organisation for Standardisation)

ISO Standards Acoustics-Inc: Basic Standards, Methods of Noise Handbook 35 Measurement, Audiometry & Human exposure to noise

# **IEC (International Electrical Commission)**

**IEC 225** Specification for Octave-Band and Fractional-Octave-Band-Analog

and Digital Filters

**IEC 651** Recommendations for Sound-Level Meters

# World Bank Standard.

#### 3.16 **PAINTING**

#### ISO (International Organisation for Standardisation)







Doc Title: LIST OF APPLICABLE CODES & INDUSTRY STANDARDS



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Doc. Number:: DB-1516-999-P332-203

ISO 8501 Preparation of Steel Substrates before Application of Paints and

Related Products -- Visual Assessment of Surface Cleanliness -- Part 1: Rust Grades and Preparation Grades of Uncoated Steel Substrates and of Steel Substrated after Overall Removal of

Previous Coatings.

#### SSPC (Steel Structures Painting Council)

SSPC-PA 2 Measurement of Dry Film Thickness with Magnetic gauges

SSPC-PA 3 A guide to Safety in Paint Application

SSPC-Vis 1 Visual Standard for Abrasive Blast Cleaned Steel

SP1 Solvent Cleaning

SP3 Power Tool Cleaning

SP5 White Metal Blast Cleaning SP6 Commercial Blast Cleaning.

SP8 Pickling

SP10 Near-White Blast Cleaning

SP11 Power Tool Cleaning to Bare Metal
SSPC PA-1 Shop, field and maintenance painting

SSPC-SP 20 Zinc rich primers (Type I, "Inorganic", and type II, "Organic")

SP2 Hand tool Cleaning

SP7 Brush-off blast cleaning

SSPC AB1 Abrasive Specification NO.1 Manual and Slag Abrasive SSPC VIS3 Visual Standard for Power and Hand Tool Cleaned Steel

#### ASTM (American Society for Testing and Materials)

ASTM D3359 Measuring Adhesion by Tape Test

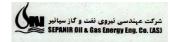
ASTM D4417 Field Measurement of Surface Profile of Blast Cleaned Steel
ASTM D4541 Standard Test Method for Pull-off Strength of Coatings Using

Portable Adhesion

ASTM D4752 Standard Test Method for Measuring MK resistance of Ethyl

Silicate (Inorganic) Zinc Rich Primers by Solvent Rub









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Doc Title: LIST OF APPLICABLE CODES & INDUSTRY STANDARDS

Doc. Number:: DB-1516-999-P332-203

ASTM E337 Standards Test Method for Measuring Humidity with a

Psychrometer Measurement of Wet and Dry Bulb Temperature

**ASTM D520** Standard Specification for Zinc Dust Pigment

**ASTM D4285** Standard Test Method for Indicating Oil or Water in Compressed Air

**BSI (British Standards Institute)** 

BS 1710 Specifications for Identification of Pipelines and Services

BS 3900 Methods of Tests for Paints

NACE (National Association of Corrosion Engineers)

NACE RP 0178 Fabrication Details, Surface Finish Requirements and Proper

Design

Considerations for Tanks and Vessels to be Lined for Immersion

Service

NACE RP 0188 Discontinuity (Holiday) Testing of Protective Coatings

NACE RP 288 Inspection of Linings on Steel and Concrete

NACE MR 0175/ISO 15156Petroleum and natural gas industries—Materials for use in H2S-

containing Environments in oil and gas production

NP 6 H 189 A State-of-the-Art Report of Protective Coatings for Carbon Steel

and Austenitic Stainless Steel Surfaces Under Thermal Insulation

and Cementious Fireproofing

TM-O1 Visual Standard for Surfaces of New Steel Airblast Cleaned with

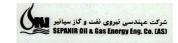
Sand Abrasives

Others

NF 30124 Measuring of Dry Film Thickness Non Destructive method with

magnetic flux.









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### 3.17 INSULATION

ASTM (American	Society for	Testing and	Materials)

	<del></del>
ASTM A167	Stainless Steel and Heat Resisting Chromium - Nickel Steel Plate,
	Sheet and Strip
ASTM A463	Steel Sheet, Cold-Rolled, Aluminum-coated, Type 1 and Type 2
ASTM C165	Measuring Compressive Properties of Thermal Insulations
ASTM C167	iberglass Material Density
ASTM C240	Foamglas Density
ASTM C450	Prefabrication and Field Fabrication of Thermal Insulating Fitting
	Covers, Adjunct No. 12-304500-00
ASTM C461	Mastics and Coatings Used with Thermal Insulation
	(R 1990)
ASTM C518	Steady-Sate Heat Flux Measurements and Thermal Transmission
	Properties by Means of The Heat Flow Meter Apparatus
ASTM C547	Mineral Fiber Performed Pipe Insulation
ASTM C552	Cellular Glass Thermal Insulation
ASTM C591	Unfaced Performed Rigid Cellular Polyurethane Thermal
	Insulation
ASTM C592	Mineral Fiber Blanket Insulation & Blanket Type Pipe Insulation
	(metal meshcovered)
ASTM C612	Mineral Fiber Block and Board Thermal Insulation
ASTM C680	Determination of Heat Gain or Loss and the Surface Temperature
	of Insulated pipe and Equipment Systems by the Use of a Computer
	Program
ASTM C795	Wicking Type Thermal Insulation for use over austenitic stainless
	steel
ASTM C871	Thermal Insulation Materials for Leachable Chloride, Fluoride,
	Silicate, and Sodium Ions
ASTM D93	Flash Point by Pensky-Martens Closed Tester



**ASTM D1621** 



Compressive Properties of Rigid Cellular Plastics (R 1979)





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**ASTM D1622** Apparent Density of Ragid Cellular Plastics

**ASTM D1623** Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics

ASTM D2341 Rigid Urethane Foam

**ASTM D2856** Open Cell Content of Rigid Cellular Plastics by the Air Pycnometer.

ASTM E84 Surface Burning Characteristics of Building Materials

ASTM E90 Measurement of Airborn Sound Transmission Loss in Building

**Partitions** 

ASTM E96 Water Vapour Transmission of Materials

#### **BSI** (British Standard Institute)

BS 4735 Laboratory Method of Test for Assessment of the Horizontal

> Burning Characteristics of Specimens no longer than 150mm x 50mm x 13mm of Cellular Plastics and Cellular Rubber Materials

when subjected to a Small Flame

BS 5970 Thermal Insulation of Pipe Work and Equipment (in the temperature

range of -100°C to +870°C)

#### 3.18 **FIREPROOFING**

UL 1709 Fire Tests on Building Materials and Structures (Underwriter Laboratories)

#### **WELDING / WELDING AND STEEL MATERIAL INSPECTIONS** 3.19

# **European Norms**

EN 10 204 Metallic Products - Types of Inspection Documents

#### **British Standards**

**BS EN 287** Approval Testing of Welders

**BS EN 288** Welding Procedure for Metallic Materials

**BS EN 473** Qualification and Certification of Non-destructive Personnel









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Doc. Number: : DB-1516-999-P332-203

**BS EN 584** Non-destructive testing - Industrial Radiographic Film BS 2600 Method for Radiographic Examination of Fusion Welded Buts Joints in Steel BS 2910 Method for Radiographic Examination of Welded Circumferential **Buts Joints in Steel Pipes** Method for Ultrasonic Examination BS 3923 BS 3971 Specification for Image Quality Indicators for Industrial Radiography BS 4870 Approval Testing of Welding Welding Procedures. BS 4871 Approval Testing of Welders to Approved Welding Procedures BS 5996 Methods for Ultrasonic Testing and Specifying Quality Grades of Ferritic Steel Grades BS 6072 Method for Magnetic Particle Flaw detection BS 6443 Method for Penetrant Flaw Detection BS 7257 Method for Radiographic Examination of Welded Branch Nozzle **Joints** 

#### ASME (American Society of Mechanical Engineers) Codes

Section II -Part C: Welding Rods, Electrodes and Filler Metals

Section V Non-destructive Examination

Unfired Pressure Vessels, Divisions 1 and 2 Section VIII

Section IX Welding Qualification

# ASTM (American Society for Testing and Material(s) Standards

E92 Test Method for Vichers Hardness of Metallic Materials

E94 Guide for Radiographic Testing

E114 Ultrasonic Pulse-Echo Straight Beam Examination by the

Contact Method

E125 Magnetic Particle Indications on Ferrous Castings

E142 Controlling Quality of Radiographic Testing E165 **Liquid Penetrant Inspection Examination** 

E709 Magnetic Particle Examination.









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A578 Specification for Straight-Beam Ultrasonic Examination of Plain

and Clad Steel Plates for Special Applications

A833 Indentation Hardness of Metallic Materials by Comparison

Hardness Testers

E110 Standard Test Method for Indentation Gardness of Metallic

Materials by Portable Hardness Testers

E140 Standard Hardness Conversion Tables of Metals

# AWS (American Welding Society)

AWS A 4-2 Standard Procedure for Calibrating Magnetic Instruments to

Measure the Delta Ferrite Content of Austenitic and Duplex

Austenitic-Ferritic Stainless Steel Weld Metal.

#### ASNT (American Society of Non-destructive Testing)

SNT - TC-1a Recommended Practice for Non-Destructive Testing Personnel

Qualification and Certification.

#### 3.20 **TELECOM**

Where there are no equivalent Iranian standards, the appropriate International and European standards shall be applied to the Telecommunications system Design. These shall include, but not be limited to, all applicable sections of :

- ◆ ITU Recommendations, including ITU-R and ILU-T
- ♦ EIA, IEE, IEEE, ISO and IEC Standards
- ◆ DTI MPT Specifications
- ♦ IMO Regulations
- ♦ ICAO Regulations
- ♦ CENELEC Standards
- ◆ EUTELSAT EESS Standards.









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# 3.21 Management

ISO 9001

Quality management systems — Requirements



