



Document No.	GIS 38-201
Applicability	Group
Date	30 December 2005

Guidance on Industry Standard for Pedestal Cranes (API 2C)

GIS 38-201

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GIS 38-201. This Guidance on Industry Standard (GIS) is based on parts of heritage documents from the merged BP companies as follows:

Amoco

A-ST-OFS-LIFT-I	Structural Offshore Lifting Inspecting and Testing
A-ST-OFS-PCLA-P	Structural Offshore Pedestal Cranes and Lifting Appliances

Uncontrolled Copy



Table of Contents

	Page
Foreword	2
1. Scope	5
2. Normative references	5
3. Terms and definitions	6
4. General	7
5. Construction	8
6. Materials	8
7. Performance criteria	8
8. Crane	9
8.1. Cab	9
8.2. Structure	9
8.3. Pedestal	9
8.4. Bolts, pins and fittings	10
9. Power-pack	10
9.1. General	10
9.2. Engine	11
9.3. Fuel tank	12
9.4. Hydraulic system	12
10. Hoist	13
10.1. General	13
10.2. Brakes	13
10.3. Drum	13
10.4. Wire rope	13
10.5. Boom	14
11. Operator control	14
12. Working and walking surfaces	15
13. Lubrication	15
14. Electrical and instrumentation	16
14.1. General	16
14.2. Lighting	17
14.3. Switchgear	17
14.4. Motors	17
14.5. Cable	17
14.6. Labelling	18
14.7. Heaters	18
14.8. Enclosures	18



14.9. Plugs and sockets	18
15. Noise	18
16. Inspection and testing.....	18
16.1. Inspection	18
16.2. Testing	19
17. Coatings.....	20
18. Documentation.....	20
18.1. General.....	20
18.2. Mechanical	21
18.3. Electrical	21
18.4. Instrumentation.....	21
18.5. Certificates and operating information.....	21
18.6. Guarantee.....	22



1. Scope

This GIS provides information for design and construction of Pedestal Cranes. This GIS covers the minimum requirements for Pedestal Cranes in accordance with all applicable standards.

2. Normative references

The following normative documents contain requirements that, through reference in this text, constitute requirements of this technical practice. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this technical practice are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

American Institute of Steel Construction (AISC)

AISC	Manual of Steel Construction
AISC S328	Specification for Structural Steel Buildings

American Petroleum Institute (API)

API 2A	Planning, Designing and Constructing Fixed Offshore Platforms
API 2B	Specification for Fabricated Structural Steel Pipe
API 2C	Specification for Offshore Pedestal Mounted Cranes
API 2X	Ultrasonic Examination of Offshore Structural
API 9A	Specification for Wire Rope

American Society of Mechanical Engineers (ASME)

ASME	Boiler and Pressure Vessel Code – Section VIII
ASME	Boiler and Pressure Vessel Code – Section IX
ASME B-18	Bolting
ASME B 16.2	Gaskets, Flanged Fittings
ASME B 16.5	Pipe Flanges and Flanged Fittings
ASME B 31.3	Chemical Plant and Petroleum Refinery Piping

American Welding Society (AWS)

AWS D1.1	Structural Welding Code - Steel.
----------	----------------------------------

BP Engineering Technical Practices (ETPs)

GP 6-60	Onshore and Offshore Paints and Coatings
GIS 12-101	IEC Low Voltage Switch-Gear
GIS 12-102	NEMA Low Voltage Switch-Gear
GIS 12-151	IEC Low Voltage Power Cable
GIS 12-152	NEMA Low Voltage Power Cable
GIS 12-155	IEC Instrument and Control Cable
GIS 12-156	NEMA Instrument and Control Cable
GIS 12-201	IEC Low Voltage Induction Motors
GIS 12-202	NEMA Low Voltage Induction Motors



GP 12-15	Wire and Cable
GP 12-20	Motors
GP 12-25	Earthing, Grounding
GP 12-30	Lighting and Small Power
GP 12-45	Electrical for Packaged Systems
GP 12-60	Hazardous Area Electrical Installations
GP 14-01	Noise Control
GP 18-01	General Requirements for Welded Fabrication
GP 32-20	Site Inspection, Testing, Pre-commissioning
GP 32-50	Inspection and Testing of Electrical Equipment (ANSI)
GP 32-51	Inspection and Testing of Electrical Equipment (IEC)
GIS 34-305	Diesel Engines
GP 34-00	Rotating and Machinery Equipment
GP 36-10	Materials Selection
GP 38-011	Vendor Data Requirements for Offshore Cranes
GP 38-400	Hydraulic Power Systems
GIS 38-400	Hydraulic Power Systems
GP 40-10	Structural Skids and Skid Mounted Units Guide
GP 42-10	Metallic Piping Systems

British Standards (BS)

BS 302	Stranded Steel Wire Ropes
BS 4592	Industrial Type Metal Flooring, Walkways, and Stair Treads
PD 5500	Specification for Unfired Fusion Welded Pressure Vessels
BS 5950	Structural Use of Steelwork in Building

National Electrical Manufacturers Association (NEMA)

250	Standards for Low Voltage Enclosures
-----	--------------------------------------

National Fire Protection Association (NFPA)

NFPA 70	National Electrical Code
---------	--------------------------

Occupational Safety and Health Administration (OSHA)

1910	Subpart "D" Walking, Working Surfaces
1910.95	Noise Exposure Safe Limits

3. Terms and definitions

Cm	centimeter
Ft	feet
Hp	horsepower
In	inches
kW	kilowatt
Mm	millimeter
NPT	national pipe thread



RPM	revolutions per minute
SS	stainless steel

4. General

- a. It shall be the Contractor's responsibility to comply with BP Specifications with regard to the design, fabrication, testing, preparation for shipment, and delivery of the pedestal crane. Omissions from specification or listed references shall not relieve supplier of the responsibility to provide a complete, functioning pedestal crane suitable for specified operation.
- b. This specification along with data sheets and attached applications, if applicable, shall define the requirements and project-specific application.
- c. BP retains the right to require the successful bidder to provide all the information necessary to verify that the crane design meets the provisions of these specifications.
- d. Alternatives or additions to these specifications required by good design practice shall be brought to the attention of BP in writing at the time the bid is submitted.
- e. These codes shall be interpreted as the minimum requirements applicable to the subject work, and no statement contained in this specification shall be construed as limiting the work to such minimum requirements. European, ISO, or local country codes equivalent to the USA codes below may be used. The latest editions of the codes listed shall govern all work.
 1. API 2A.
 2. API 2B.
 3. API 2C.
 4. API 2X.
 5. API 9A.
 6. AWS D1.1.
 7. AISC.
 8. NFPA 70.
- f. The following BP ETPs shall be applied:
 1. GP 18-01.
 2. GP 34-00.
 3. GP 40-10.
 4. GP 42-10.
 5. GIS 38-011.
 6. GIS 38-400.
- g. In cases of conflict between the BP standard specification and any of the applicable codes, the vendors or contractor shall contact BP for clarification.
- h. Parts containing process fluids (cargo, vapour return, ballast, etc.) shall comply with ASME B31.3 and/or ASME Pressure Vessel Code, Section VIII, Division 1, and Section IX or BS PD 5500 as appropriate.
- i. Structural fabrication shall conform to API 2C, AWS D1.1, API RP 2A, AISC "Manual for Steel Construction" and AISC S328 "Specification for Structural Steel Buildings".

