



Document No.	GIS 38-202
Applicability	Group
Date	30 December 2005

Guidance on Industry Standard for Overhead Underhung Trolley Type Hoists

GIS 38-202

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GIS 38-202. This Guidance on Industry Standard (GIS) is based on the following heritage documents from merged BP companies:

BP

CP 28 Lifting Equipment

Amoco

A ST-OFS-PCLA-P Structural Offshore Pedestal Cranes and Lifting Appliances



Table of Contents

	Page
Foreword	2
1. Scope	4
2. Normative references.....	4
3. Definitions.....	6
4. Abbreviations.....	6
5. Requirements	6
6. Hoists and hoist systems	7
6.1. General.....	7
6.2. Hoists	8
6.3. Trolleys.....	9
6.4. Runway Beams.....	9
6.5. System Testing.....	9
7. Winches.....	10
7.1. Design and Construction.....	10
7.2. Braking	10
7.3. Controls	10
7.4. Marking.....	10
8. Lifting gear and loose gear	11
8.1. Steel Wire Ropes.....	11
8.2. Slings.....	11
8.3. Shackles	12
8.4. Eyebolts.....	12
8.5. Hooks and Pulley Blocks	12
8.6. Containers	12
8.7. Beam Clamps	13
8.8. Padeyes.....	13
8.9. Wedge and Socket Terminations for Wire Ropes.....	13
9. Controls	14
10. Painting	15
11. Testing and inspection	15
12. Documentation	15



1. Scope

- a. This GIS provides guidance on health, safety and environmental legislation, good design practice, and technical and economic considerations for overhead underhung trolley type hoists. The design information included in this specification is not intended to cover complete details. The guideline outlines regulations, design considerations, and recommends a configuration which can be scaled to adapt to the specific facilities which can differ due to layouts and production capacity.
- b. This standard is intended to guide the purchaser in the use or creation of a fit-for-purpose specification for enquiry or purchasing activity.
- c. This document may refer to certain local, national or international regulations but the responsibility to ensure compliance with legislation and any other statutory requirements lies with the user. The user shall adapt or supplement this document to ensure compliance for the specific application.

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 National Standards Institute

ANSI B30.2	Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist)
ANSI B30.10	Hooks
ANSI B30.11	Monorails and Underhung Cranes
ANSI B30.16	Overhead Hoists (Underhung)
ANSI B30.17	Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)
ANSI / ASME B30.7	Base mounted drum hoists

American Petroleum Institute (API)

API SPEC 9A	Specification for Wire Rope
-------------	-----------------------------

American Society for Testing and Materials (ASTM)

ASTM E 23	Notched Bar Impact of Metallic Materials
ASTM A 490	Heat-Treated Steel Structural Bolts, 150 ksi Minimum Tensile Strength-AASHTO No.: M 253
ASTM A 325	Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength-AASHTO No.: M 164
ASTM A 307	Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength

BP Engineering Technical Practices (ETPs)

GP 6-60	Onshore and Offshore Paints and Coatings
GP 12-20	Motors
GP 12-02	Power Installation and Construction



GIS 12-201 IEC Low Voltage Induction Motors
GP 35-10 Maintainability

British Standards Institution

BS 302	Specification for wire ropes for cranes, excavators and general engineering purposes
BS 365	Specification for galvanized steel wire ropes for ships
BS 436	Spur and helical gears.
BS 449	Specification for the use of structural steel in building
BS 464	Thimbles for wire ropes
BS 1290	Specification for wire rope slings and sling legs for general lifting purposes
BS 1663	Specification for higher tensile steel chain Grade 40 (short link and pitched or calibrated) for lifting purposes
BS 2573	Rules for the design of cranes
BS 2763	Round steel wire for ropes
BS 2853	Specification for the design and testing of steel overhead runway beams
BS 2903	Specification for higher tensile steel hooks for chains, slings, blocks and general engineering purposes
BS 3032	Specification for higher tensile steel shackles
BS 3113	Specification for alloy steel chain, Grade 60 short links, for lifting purposes
BS 3243	Specification for hand-operated chain pulley blocks
BS 3458	Specification for alloy steel chain slings
BS 3481	Flat lifting slings
BS 3551	Specification for alloy steel shackles
BS 3701	Specification for hand operated plate side winches
BS 4211	Specification for steel ladders for permanent access
BS 4278	Specification for eyebolts for lifting purposes
BS 4360	Specification for weldable structural steels
BS 4536	Specification for heavy duty pulley blocks for use with wire ropes
BS 4942	Short link chain for lifting purposes
BS 5304	Code of practice. Safeguarding of machinery
BS 5750	Quality systems
BS 6166	Lifting slings
BS 6180	Code of practice for protective barriers in and about buildings
BS 6210	Code of practice for the safe use of wire rope slings for general lifting purposes
BS 6405	Specification for non-calibrated short link steel chain (grade 30) for general engineering purposes: class 1 and 2
BS 6668	Textile lifting slings, Part 2, Specification for round slings made of man-made fibre for general service
BS MA 31	Specification for ships' deck machinery cargo winches
BS MA 32	Specification for ships' deck machinery - mooring winches

