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GIS 18-012

Storage and Control of Welding Consumables

Group Instruction for Supply

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GIS 18-012. This Group Instruction for Supply (GIS) is a republication of GP 18-02 and is based on the BP heritage GS 118-4. BP Group Standards (GHSER, Integrity Management Functional Standard, etc.) dictate requirements that must be satisfied in addition to the requirements of this document.

BP Exploration and Operating Company has prepared this GIS. It defines the requirements of BP for the storage and control of welding consumables. Whilst this document is not based on any specific standard it should be utilised for all work involving welded construction. It should be used to supplement individual project fabrication specifications and other BP GP/GIS (Group Practice/Group Instruction for Supply) documents related to welded construction.

The fundamental requirement of BP is that appropriate welding consumables should be used for all welded constructions and that these consumables should be maintained in pristine condition until required for welding.

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1. Scope

This GIS defines BP requirements for the receipt, storage, and control of welding consumables held under shop and site conditions. It is applicable to all welded construction. This GIS will be used to supplement individual project fabrication specifications and may be used in conjunction with any relevant design code. The principal objectives of this GIS are:

- a. Prevention of damage or deterioration of welding consumables at all stages from receipt through to welding and,
- b. Provision of a high level of assurance that the specified consumables are employed in the welding of any given joint.

This GIS will not be used to impose additional constraints on any existing procedures which embody the principles of storage and control outlined.

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.

BP

GIS 36-103 Positive Material Identification (PMI).

American Society of Mechanical Engineers (ASME)

ASME Boiler and Pressure Vessel Code, Section II Materials, Part C.

ASME SFA 5 series Specification for Welding Rods, Electrodes, and Filler Wires.

ASME SFA 5.01 Filler Metal Procurement Guidelines.

American Welding Society (AWS)

AWS A4.3 Standard Methods for Determination of the Diffusible Hydrogen Content of Martensitic, Bainitic and Ferritic Steel Weld Metal Produced by Arc Welding.

AWS A5 series Specifications for Welding Rods, Electrodes, and Filler Wires.

AWS A5.01 Filler Metal Procurement Guidelines.

European Standard (EN)

EN 499 Welding consumables – Covered electrodes for manual metal arc welding of non alloy and fine grain steels – Classification.

EN 757 Welding consumables – Covered electrodes for manual metal arc welding of high strength steels – Classification.

EN 12070 Welding consumables – Wire electrodes, wire and rods for arc welding of creep resisting steels – Classification.

EN 12072 Welding consumables – Wire electrodes wires and rods for arc welding of stainless and heat resisting steels – Classification.

EN 12074 Welding consumables – Quality requirements for the manufacture, supply and distribution of consumables for welding and allied processes.

