



Document No.	GIS 12-104
Applicability	Group
Date	26 August, 2003

Guidance on Industry Standard for Metal-Clad Switchgear (IEEE C37.20.2)

GIS 12-104

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) GIS 12-104. This Guidance on Industry Standard (GIS) is based on the following heritage documents from merged BP companies:

AMOCO

A EL-SG-MV-P Electrical—Switchgear—Medium-Voltage Metal-Clad—Supply Specification.

ARCO

ES 412-90 Medium Voltage Switchgear.

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Scope

This GIS document provides guidance on industry standard for design, materials, fabrication, inspection, testing, documentation, and preparation for shipment of metal-clad medium voltage switchgear based on IEEE C37.20.2-1999, *IEEE Standard for Metal-Clad Switchgear*. Numbering of the following sections and paragraphs corresponds to section and paragraph numbering of IEEE C37.20.2-1999 and reflects additions, deletions, and revisions. Requirements of IEEE C37.20.2-1999 that are not revised remain applicable.

3 Definitions, qualifying terms, and common or related terms

Add:

- 3.1.10 blank space:** A cubicle with main bus, blank door and no secondary devices. Steel work shall be done so the blank space can be equipped in the field without cutting or welding.
- 3.1.11 fully equipped space:** Same as a spare, except without a breaker.
- 3.1.12 main bus:** Group of conductors, that serves as a common connection for all circuits in the assembly
- 3.1.13 spare:** A completely ready-to-operate unit, including the drawout breaker and all required secondary devices, fully wired.

5 Ratings

5.1 General

Add:

15 kV circuit breakers shall be rated 750 MVA minimum.
5 kV circuit breakers shall be rated 350 MVA minimum.

6 Tests

6.1 General

Add:

Written certification of all tests performed shall be provided to the customer.
Additional costs for witness testing shall be included as an option in purchase price.
Customer shall witness tests for equipment to be installed offshore.
Manufacturer shall perform production and conformance tests outlined in section 6.3 and 6.4 as part of the factory acceptance tests (FAT).
Customer shall be given two week prior notice of FAT schedule.

7 Construction

7.1 Buses and primary connections

Revise first sentence to read:

Bus and primary connections shall be hard-drawn high conductivity copper.

