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Guidance on Practice for Cable Trays and Raceways

GP 12-75

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) GP 12-75. This Guidance on Practice (GP) is based on parts of heritage documents from the merged BP companies as follows:

Amoco

A EL-SYS-00-C Electrical—Systems—Installation Specification.

ARCO

ES 400-89 Electrical - General (Wiring methods & cable tray system design).

BP (Pre-1999)

RP 12-13 Electrical Systems and Installations Cables, Cable Systems, and Wiring.

GS 112-1 Electrical Engineering Specification for Materials and Workmanship.

BP Chemical US

CP 17-2-1 Electrical Detail Design and Construction Practice.

BP GOMDW

1400-20-EL-SP-4000 General Requirements and Installations of Electrical Facilities.

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1. Scope

This GP provides guidance for the design, selection, and installation of cable tray and raceway systems used indoors and outdoors in classified and unclassified locations.

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 Petroleum Institute (API)

API RP 540 Electrical Installations in Petroleum Processing Plants.

BP

GP 12-60 Guidance on Practice for Hazardous Area Electrical Installations

International Electrotechnical Commission (IEC)

IEC 60079-14 Electrical apparatus for explosives gas atmospheres – Part 14. Electrical installations in hazardous areas (other than mines).

IEC 60423 Conduits for electrical purposes - Outside diameters of conduits for electrical installations and threads for conduits and fittings.

IEC 60614 Conduits for electrical installations.

IEC 61537 Cable tray systems and cable ladder systems for cable management.

National Fire Protection Association (NFPA)

NFPA 70 National Electrical Code (NEC).

National Electrical Manufacturers Association (NEMA)

NEMA C80.1 American National Standard for Rigid Steel Conduit - Zinc Coated (GRC).

NEMA C80.3 American National Standard for Electrical Metallic Tubing - Zinc Coated (EMT).

NEMA C80.5 American National Standard for Aluminum Rigid Conduit (ARC).

NEMA FG1 Fiberglass Cable Tray Systems.

NEMA RN1 Polyvinyl-Chloride(PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit.

NEMA TC2 Electrical Polyvinyl Chloride (PVC) Tubing and Conduit.

NEMA VE1 Metal Cable Tray Systems.

NEMA VE2 Cable Tray Installation Guidelines.

Process Industry Practices (PIP)

PIP ELCGL01 Electrical Design Criteria (wiring methods).

