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Guidance on Industry Standard for Physical Property Analysers

GIS 31-014

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) GIS 31-014. This Guidance on Industry Standard (GIS) is based on parts of heritage documents from the merged BP companies as follows:

Amoco (ACES)

A PC-PA-00-E	Process Control—Process Analysers—Engineering Specification
A PC-PA-00-G	Process Control—Process Analysers—Guide
A PC-PA-00-P	Process Control—Process Analysers—Supply Specification

ARCO (APCES)

Std 312-92	Analysers
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British Petroleum (RPSE)

RP 30-02	Instrumentation and Control, Selection and use of Measurement Instrumentation
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1. Scope

This GIS covers the design, manufacture, testing and shipping of physical property analysers, the exact analysis required is stated on the attached Individual Analyser Data sheet (IAD).

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 555 Process Analyzers

BP Engineering Technical Practices (ETP)

GIS 31-011 Guidance on Industry Standard for Analyser Houses

Engineering Equipment & Materials Users Association

EEMUA 175 EEMUA Code of Practice for Calibration and Checking Process
Analysers (Formerly IP Code 340)

International Electrotechnical Commission (IEC)

IEC 60079-10 Electrical apparatus for explosive gas atmospheres —
Part 10: Classification of hazardous areas.

International Organization for Standardization (ISO)

ISO 2592	Determination of Flash and Fire Points - Cleveland Open Cup Method- (Use IP 36/02)
ISO 2719	Determination of flash point - Pensky-Martens closed cup method, (IP 34/02)
ISO 13736	Petroleum products and other liquids - Determination of flash point - Abel closed cup method, (IP 170/99)
ISO 3007	Petroleum products-Determination of vapour pressure-Reid method (IP69)
ISO 3015	Cloud Point of Petroleum product (IP 219)
ISO 3405	Determination of distillation characteristics at atmospheric pressure

National Fire Protection Association (NFPA)

NFPA 70 National Electric Code

3. Scope of supply

The following items shall be included in the analyser vendor's scope of supply:

- a. Analyser. (Type of analyser to be filled in by purchaser).
- b. Functional testing, including necessary test materials, prior to dispatch.

