



Document No.	GIS 56-108
Applicability	Group
Date	31 December 2005

Guidance on Industry Standard for Boiler Feedwater Clarification Equipment

GIS 56-108

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GIS 56-108. This Guidance on Practice (GP) is based on parts of heritage documents from the merged BP companies as follows:

Amoco

A FE-BFW-CLAR-P Boiler Feedwater Treating Equipment, Clarification Equipment, Supply Specification.

Uncontrolled Copy

Copyright © 2005, BP Group. All rights reserved. The information contained in this document is subject to the terms and conditions of the agreement or contract under which the document was supplied to the recipient's organisation. None of the information contained in this document shall be disclosed outside the recipient's own organisation without the prior written permission of Director of Engineering, BP Group, unless the terms of such agreement or contract expressly allow.



Table of Contents

	Page
1. Scope	4
2. Normative references.....	4
3. Symbols and abbreviations	5
4. General	5
5. Codes & standards	5
6. Scope of supply	5
7. Clarifier Design	6
7.1. General	6
7.2. Clarifier-softener	6
7.3. Filters	8
8. Mechanical Design	9
8.1. Pumps	9
8.2. Instrument and controls.....	9
8.3. Inspection and testing	10
9. Guarantees, documentation, MSDS, and preparation for shipping.....	10
9.1. Guarantees	10
9.2. Documentation requirements	11
9.3. Identification & shipping	11

List of Tables

Table 1 - Filter media size	12
-----------------------------------	----



1. Scope

This GIS defines requirements for design, fabrication, and testing of clarification and associated equipment to be used for boiler feedwater treatment.

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 Society of Mechanical Engineers (ASME)

ASME	Boiler and Pressure Vessel Code (BPVC)
	Section I Boilers
	Section VIII Pressure Vessels
	Section IX Welding Qualifications

BP Engineering Technical Practices (ETPs)

GP 04-20	Civil Engineering
GP 06-40	Protective Coatings
GP 06-60	Onshore & Offshore Paints and Coatings
GP 12-15	Wire & Cable
GP 12-20	Motors
GP 12-25	Earthing & Grounding
GP 12-60	Hazardous Area Electrical Installations
GIS 12-155	Instrument & Control Cable (IEC)
GIS 12-156	Instrument & Control Cable (NEMA)
GIS 12-201	Low Voltage Induction Motors (IEC)
GIS 12-202	Low Voltage Induction Motors (NEMA)
GIS 12-205	Synchronous Motors (IEC)
GIS 12-205	Synchronous Motors (ANSI / NEMA)
GP 18-01	General Requirements for Welded Fabrication
GP 34-00	Rotating & Machinery Equipment
GIS 34-201	Centrifugal Pumps
GIS 34-202	Horizontal Centrifugal Pumps
GIS 34-203	Vertical Centrifugal Pumps
GP 36-10	Engineering Guidance on Material Selection
GP 40-10	Structural Skids & Skid Mounted Units
GP 40-11	I&T of Skid Mounted Units
GIS 40-101	Skid Mounted Units Procurement
GIS 40-102	Skid Mounted Units Lifting and Rigging Requirements
GP 60-50	General Issues – Equipment Packages

