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Guidance on Practice for Sulfuric Acid Systems

GP 60-40

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GP 60-40. This Guidance on Practice (GP) is developed from outside sources:

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Table of Contents

	Page
Foreword	2
1. Scope	7
2. Normative references.....	7
3. Symbols and abbreviations.....	8
4. Design considerations.....	9
4.1. General.....	9
4.2. Materials	9
4.3. Coatings	9
4.4. Pumps	9
4.5. Storage	10
4.6. Piping.....	10
4.7. Flanges.....	10
4.8. Bolts.....	10
4.9. Gaskets	10
4.10. Valves.....	11
4.11. Vents and drains.....	11
4.12. Utilities	11
5. Safety	12
5.1. General.....	12
5.2. Spills	12
5.3. Leak detection	12
5.4. Emergency isolation.....	13
5.5. Personal protective equipment.....	13
5.6. Eyewash and showers	14
6. Sampling.....	14
7. Training.....	15
8. Inspections	15
8.1. General.....	15
8.2. Pressure Vessels.....	16
8.3. Piping.....	16
8.4. Valves.....	17
8.5. Pumps	17
9. Maintenance	17
9.1. General.....	17
9.2. Relief Valves.....	18
9.3. Temporary Repairs	18



List of Figures

Figure 1-Typical Sulfuric Acid Alkylation Plant 19

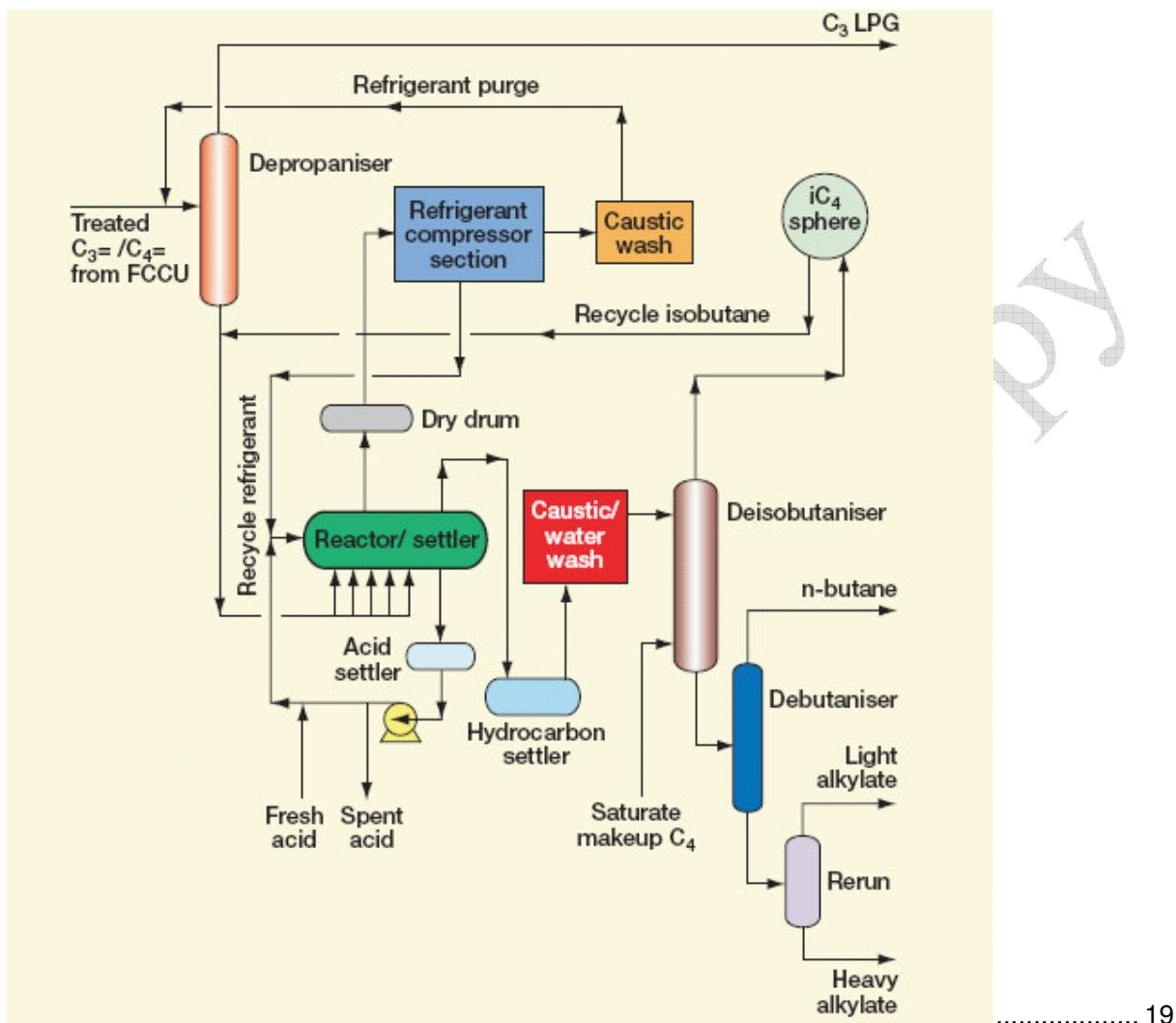


Figure 2- Typical Sulfuric Acid Alkylation Plant Reactor 20



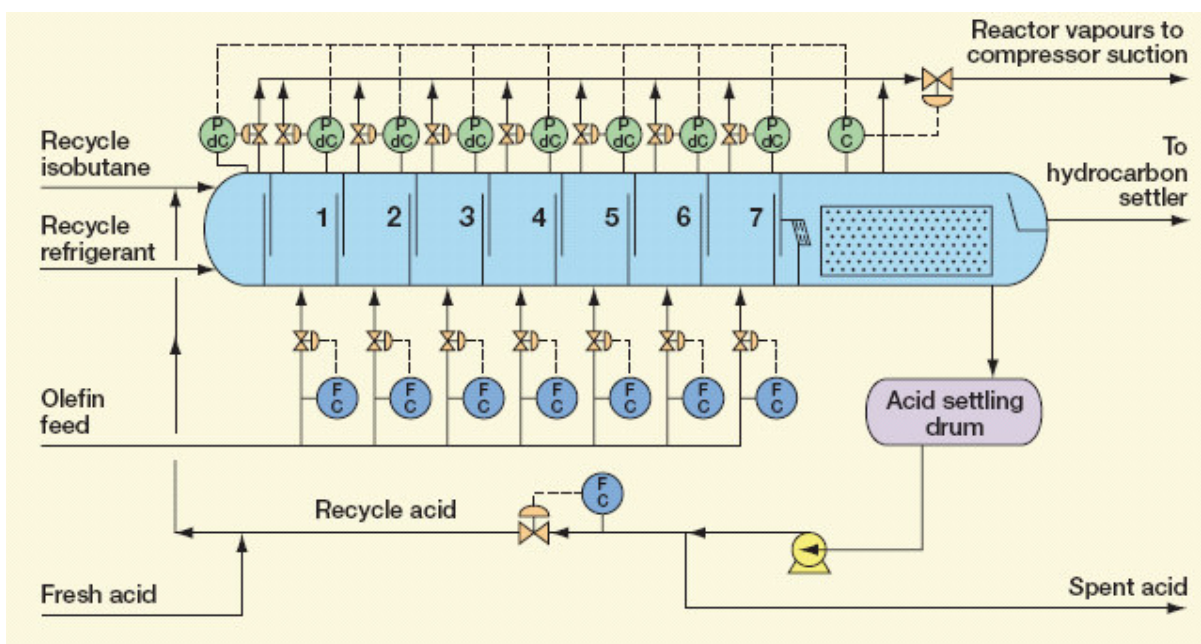


Figure 3- Sulfuric Acid Alkylation Plant Reactor Internals 20

Inlet Mixers & Baffles settler 21

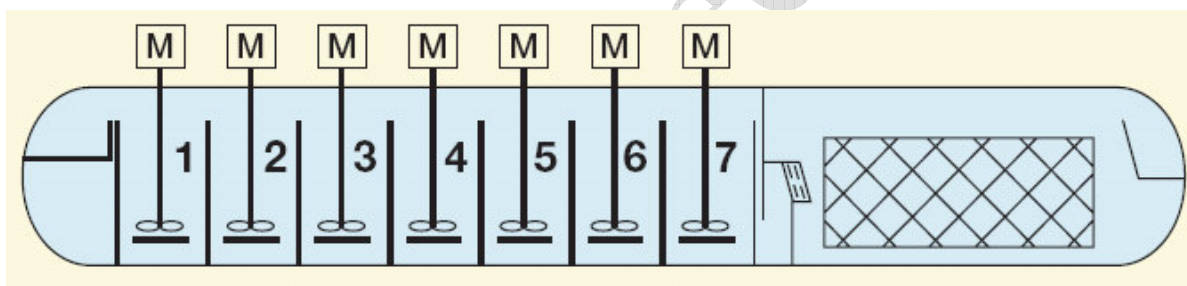
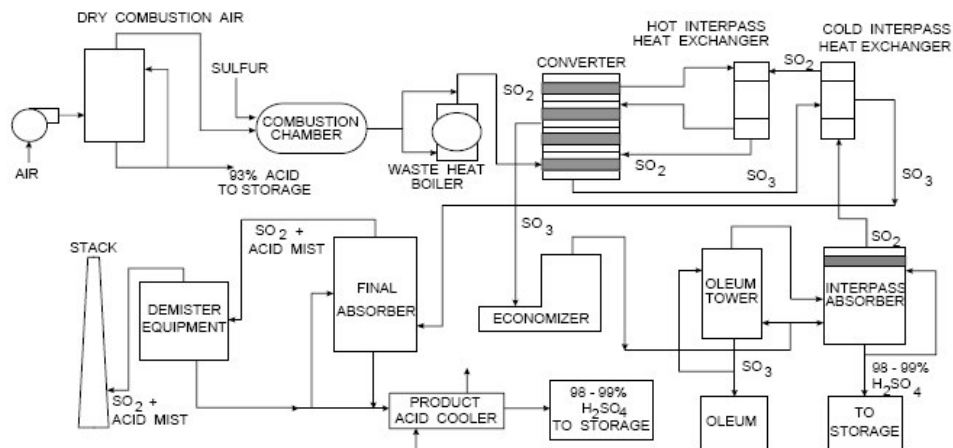


Figure 4- Typical Elemental Sulfur Plant 21

Figure 4- Typical Elemental Sulfur Plant 22





1. Scope

This GP provides guidance on practices associated with the design, operation and maintenance of Sulfuric Acid systems.

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

RP 2 FPS	Practice for Design of Floating Production Facilities
RP 510	Pressure Vessel Inspection Code
RP 520	Sizing & Installing Pressure Relieving Devices
RP 550	Installation of Refinery Instruments and Controls
RP 570	Pipe Inspection Code
RP 572	Inspection Code
RP 576	Pressure Relieving Devices
RP 685	Seal less Pumps
RP 750	Management of Process Hazards

American Society of Mechanical Engineers (ASME)

ASME B 16.204	Gaskets
ASME	Boiler and Pressure Vessel Code
ASME B.1.1	Valves
ASME B 31.3	Process Piping
ASME B 31.1	Power Piping
ASME B 16.5	Pipe Flanges
ASME B 16.3	Valves

BP Group Engineering Technical Practices (ETPs)

GP 6-60	Onshore and Offshore Paints and Coatings
GP 6-63	Internal Coating of Equipment and Piping
GP 26-10	Heat Exchangers
GP 34-00	Rotating Equipment and Machinery
GP 36-10	Materials Selection
GP 42-10	Metallic Piping Systems
GP 42-20	Piping Component Specification
GIS 46-010	Pressure Vessels
GP 46-01	New Pressure Vessels
GIS 60-302	Instrument and Utility Air Package
GP 62-01	Valve Selection

