

NORSOK STANDARD

SYSTEM REQUIREMENTS

OPEN DRAIN

SYSTEM NO. 56-10/20

P-SR-012

Rev. 1, December 1994

CONTENTS

1. FOREWORD	2
2. SCOPE	2
3. NORMATIVE REFERENCES	2
4. DEFINITIONS AND ABBREVIATIONS	2
4.1 Definitions	2
4.2 Abbreviations	2
5. FUNCTIONAL REQUIREMENTS	2
5.1 General	2
5.2 Products/Services	2
5.3 Equipment/Schematic	3
5.4 Performance	3
5.5 Regularity	3
5.6 Process/Ambient Conditions	3
5.7 Operational Requirements	4
5.8 Maintenance Requirements	4
5.9 Isolation and Sectioning	4
5.10 Layout Requirements	4
5.11 Interface Requirements	5
5.12 Commissioning Requirements	5

1. FOREWORD

This standard has been developed by the NORSOK Standardisation Work Group.

2. SCOPE

3. NORMATIVE REFERENCES

NORSOK Standard

P-CR-001 Process Design.

4. DEFINITIONS AND ABBREVIATIONS

4.1 Definitions

4.2 Abbreviations

5. FUNCTIONAL REQUIREMENTS

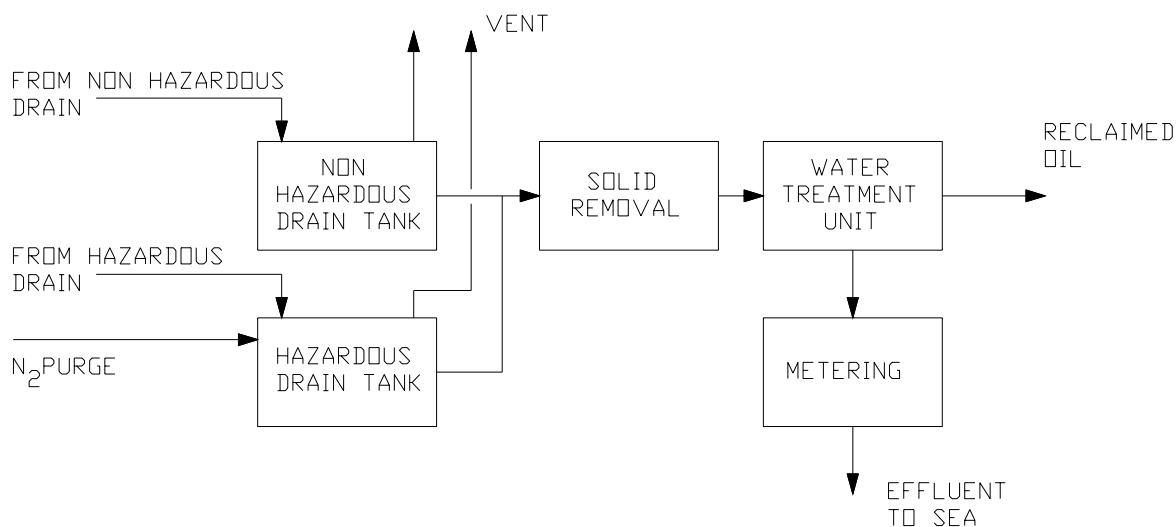
5.1 General

Collection of spillage, wash down water, fire water and rain water from deck areas, equipment drip trays and bounded areas.

5.2 Products/Services

Not Applicable.

5.3 Equipment/Schematic



5.4 Performance

System Capacity
Product Quality
Operating Life

Oil in water to sea, max. 40 mg/l

5.5 Regularity

5.5.1 Regularity

95 %.

5.5.2 Sparing

- Single train
- Tanks shall be 1 x 100%, pumps 1 x 100% and water treatment unit 1 x 100%.

5.6 Process/Ambient Conditions

5.6.1 Inlet conditions (both systems)

Pressure Atmospheric + elevations
Temperature max. 50 °C
Flow
Oil in water

Equipment will be located in unheated, sheltered area.

5.7 Operational Requirements

5.7.1 Control and Monitoring

System shall be operated from local control panel. The following information to be available in CCR:

OS/VDU Functions	P	T	L	F	A	Other
Tanks					L ¹⁾	¹⁾ High level
Effluent overboard				M		
Common Alarm					X	Running Units

P = Pressure/Discharge Pressure, T = Temperature, L = Level, F = Flow,
A = Alarm, M = Monitoring, X = Alarm available as required

Collection tanks shall be designed for settling and easy disposal of solid particles. Corrosion resistant filters shall be located upstream pumps/centrifuges to prevent excessive pump wear.

5.8 Maintenance Requirements

- Drain pots shall be available for maintenance without scaffolding.
- Pumps shall be easily accessible for maintenance.

5.9 Isolation and Sectioning

Separate collection from classified and non-classified areas required.

Drilling area drain shall not be mixed with drain from other areas before pre-treatment to remove mud solids, etc.

Vent from tanks to be located in an open safe area.

5.10 Layout Requirements

5.10.1 Piping

Piping system shall be designed for solid particles. Adequate sloping (1:100) and rod-out/flushing facilities shall be implemented. Minimum size 3".

Drain points shall be designed to represent low points in decks.

Tundishes/gullies shall be designed for easy plugging to prevent HC gas migration during hot-work.

5.11 Interface Requirements

5.11.1 *Oily water treatment*

Return of reclaimed oil to oil sump.

5.11.2 *Nitrogen*

Purge of hazardous drain tank.

5.12 Commissioning Requirements

None.