

NORSOK STANDARD

SYSTEM REQUIREMENTS
OILY WATER TREATMENT
SYSTEM NO. 44

P-SR-008
Rev. 1, December 1994

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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

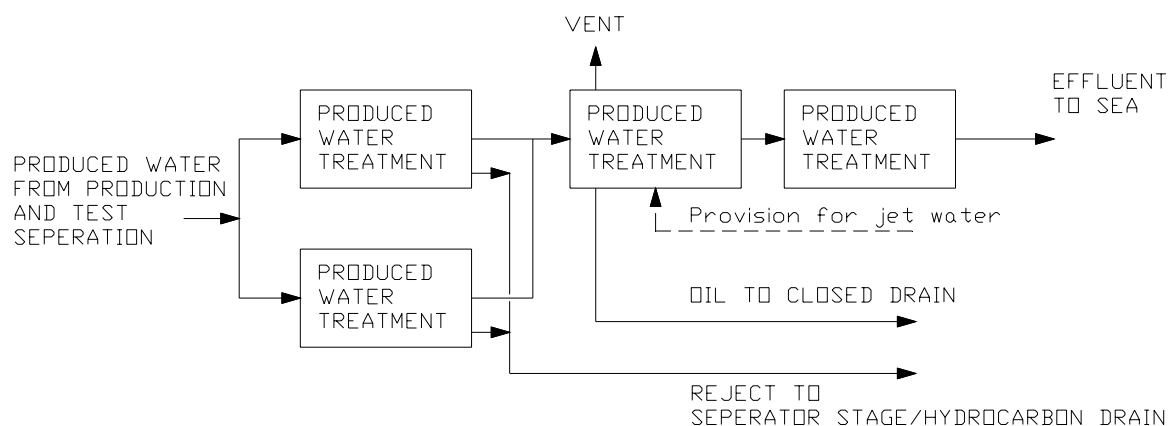
5.1 General

Collects and treats produced water prior to discharge into the sea.

5.2 Products/Services

Not Applicable.

5.3 Equipment/Schematic



5.4 Performance

System Capacity
Product Quality

Produced Water-cut Profile
Produced water to sea, max. 40 mg/l

Operating Life

5.5 Regularity

5.5.1 Regularity

99 %.

5.5.2 Sparing

Dedicated group of parallel produced water treatment units for each pressure level. Number of units in group shall be increased as demand requires.

Sparing shall be provided utilizing produced water treatment unit in other group.

5.6 Process/Ambient Conditions

5.6.1 Inlet conditions

Pressure	:	
Temperature	:	
Droplet size/distribution	:	
Oil content in water	:	2000 mg/l
Solids	:	

Equipment will be located in an open sheltered area.

5.7 Operational Requirements**5.7.1 Control and Monitoring**

Performance shall be controlled and monitored from CCR, dedicated Operator Station (OS) VDU picture, as shown below:

OS/VDU Functions	P	T	L	F	A	Other
Effluent measurement				M		DAS
Degassing vessel			C		L	
OIW value						To be sampled

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

5.7.2 DAS

Data Acquisition System

5.7.3 Sampling

Sampling point at discharge and upstream produced water treatment unit.

5.7.4 Sand

System shall facilitate handling of produced sand and removal of sand without interruption of operation.

5.8 Maintenance Requirements

Repair and replacement of the produced water treatment unit shall be possible without shutdown of the system.

5.9 Isolation and Sectioning

None.

5.10 Layout Requirements**5.10.1 Arrangement**

Produced water treatment unit shall be grouped and installed in a common rack. Unit components shall be interchangeable.

5.11 Interface Requirements**5.11.1 Chemicals**

Two connections shall be installed for injection of chemicals upstream each produced water treatment unit.

5.12 Commissioning Requirements

None.