

NORSOK STANDARD

SYSTEM REQUIREMENTS
DIESEL
SYSTEM NO. 62-00

P-SR-013
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

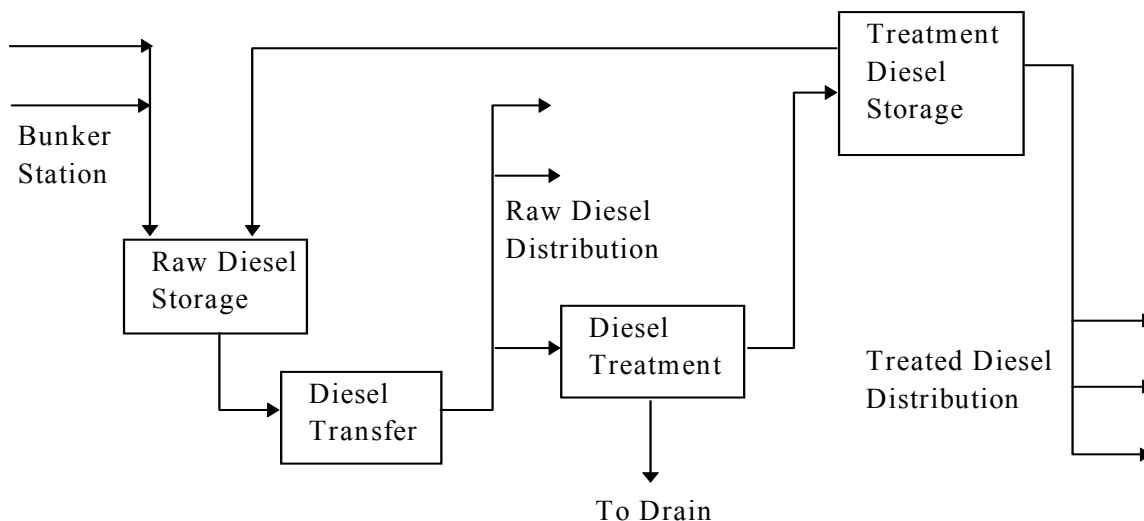
5.1 General

Storage and treatment of raw diesel supplied by boat.

5.2 Products/Services

The system supplies treated and un-treated (raw) diesel to the users.

5.3 Equipment/Schematic



5.4 Performance

Storage (m ³)		Treatment	Distribution
Treated	Raw	(m ³ /hr)	(m ³ /hr)

5.4.1 System capacity

Product Quality- Treated Diesel

Sodium+potassium+lithium - <0.2 ppm by wt. Particles: 95% removal of particles >5 micron 100% removal of particles >20 micron. Free water - < 100 ppm by vol.

System pressure

9 barg @ outlet nozzle of distribution pump(s).

Storage volume

4 days normal consumption

5.5 Regularity

5.5.1 Regularity

- Storage/Treatment - 85 %
- Distribution - 99 %

5.5.2 *Sparing*

- Hose loading stations, 2 off, one each platform side
- Raw diesel tanks, 2 x 50% or 3 x 33%
- Day tanks, 1 x 100% for firewater pumps, emergency generator and power generator/compressor turbines (dual fuel)

5.6 **Process/Ambient Conditions**

Supply to the system will be raw diesel supplied by boat.

5.7 **Operational Requirements**

5.7.1 *Control and Monitoring*

From local control panel and field instrumentation. Monitoring shall be available on OS/VDU in CCR as follows:

OS/VDU Functions	P	T	L	F	A	Other
Treatment					X	Common
Raw Diesel Storage			M		X	
Treated Diesel Storage			M		M	
Distribution System	M				X	

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

5.7.2 *Pumps*

Low shear type shall be preferred.

5.7.3 *Bunker Stations*

Shall be provided on two sides of platform. Sampling points shall be installed. Hook-up points for biocide treatment shall be installed.

5.7.4 Day tanks

Automatic refilling shall not be installed. Overflow from day tanks shall be routed to raw diesel storage.

5.8 Maintenance Requirements

All major components shall be easily accessible for maintenance.

5.9 Isolation and Sectioning

Isolation valves shall be installed in branches from main distribution header.

5.10 Layout Requirements

None.

5.11 Interface Requirements

None.

5.12 Commissioning Requirements

A combination of day tank storage capacity and availability of the treatment system shall enable early commissioning and start-up of this system.