

NORSOK STANDARD

SYSTEM REQUIREMENTS
GAS COMPRESSION
SYSTEM NO. 23

P-SR-004
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

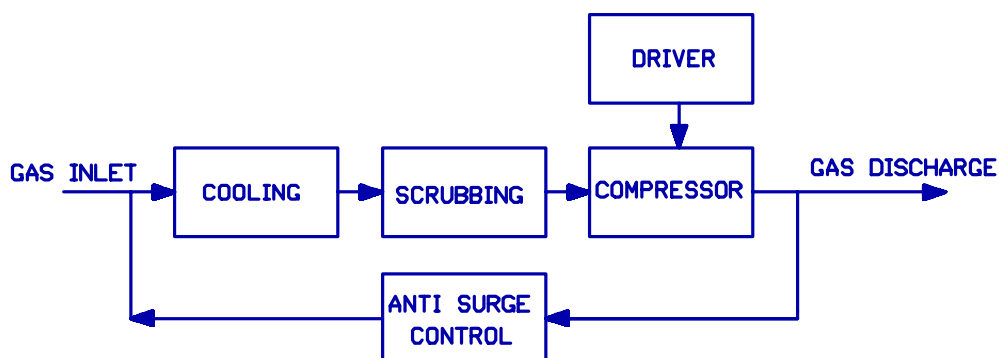
5.1 General

Re-compression of associated lower pressure gas (low and intermediate pressure separators).

5.2 Products/Services

Not Applicable.

5.3 Equipment/Schematic



5.4 Performance

5.5 Regularity

5.5.1 Regularity

99 %.

5.5.2 Sparing

To be determined based on LCC evaluation.

5.6 Process/Ambient Conditions

5.6.1 Gas supply

Inlet pressure :

Inlet temperature :

Gas composition is attached.

Unit(s) will be installed in sheltered area.

5.7 Operational Requirements

5.7.1 Control and Monitoring

System shall be fully controlled and monitored from the CCR, as follows:

OS/VDU Functions	P	T	L	F	A	Other
Compressor	M ¹⁾	M ¹⁾		M	X	¹⁾ inlet & outlet
Turbine	M	M			X	
Electric Motor		M			X	
Scrubbers			M		L	
Coolers		C			T	

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

5.8 Maintenance Requirements

All major parts to be easily accessible and removable.

5.9 Isolation and Sectioning

Each compressor train shall be equipped with isolation valves and bleed for maintenance purposes.

5.10 Layout Requirements

- Coolers and compressors should be elevated above scrubbers.
- Anti surge line to be sloped with valve at high point.

5.11 Interface Requirements

5.11.1 Cooling

Cooling medium or seawater for gas, lube and seal oil coolers.

5.11.2 Nitrogen

For isolation seal gas.

5.11.3 Methanol

If required. For hydrate prevention and removal. Injection points upstream each cooler.

5.12 Commissioning Requirements

- Temporary strainers shall be installed upstream each compressor.
- Turbines can be fitted with dual fuel nozzles if onshore commissioning is planned.