

NORSOK STANDARD

SYSTEM REQUIREMENTS
HYDRAULIC POWER
SYSTEM NO. 65-10

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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

The hydraulic power system shall provide the hydraulic-operated ESD valves and other hydraulic topside valves with hydraulic power, and also supply hydraulic power to all other topside users, at specified pressures.

5.2 Products/Services

Not Applicable.

5.3 Equipment/Schematic

None.

5.4 Performance

Design parameters will be specified based on the requirements of the individual project and should as a minimum include the following:

Pressure	Barg
Temperature	Degr. Celsius
Capacity, pump and accumulator	Sm ³ /hr
Hydraulic fluid	BIO-degradable

5.5 Regularity**5.5.1 Regularity****5.5.2 Training/sparing****5.6 Process/Ambient Conditions**

System will be located in sheltered, unheated area.

5.7 Operational Requirements

Start-up and shutdown of the hydraulic power package shall be local. Monitoring of the hydraulic power package shall be possible from CCR. For normal operation, the pumps shall have an auto start and stop function initiated by the pump discharge pressure transmitters. In addition there shall be an override selector to enable manual operation for maintenance or emergency situations. Continuous monitoring of performance and alarm shall apply.

The hydraulic system shall be equipped with accumulator capacity to activate all connected valves twice without use of any outside hydraulic source. In addition to this all hydraulic actuated ESD valve shall be equipped with local accumulator with capacity to activate the valve three times. Local accumulator is not necessary if the actuator is spring return.

Downstream of the various valves the hydraulic oil shall be collected in a common return header and sent to the hydraulic oil reservoir.

The hydraulic oil shall have a cleanliness level according to NAS 1638 class 6.

5.8 Maintenance Requirements

The hydraulic power system shall be repaired on breakdown only. Preventive maintenance shall be based on inspection and monitoring of performance.

5.9 Isolation and Sectioning

During normal operation of the platform, it shall be possible to do maintenance work on major parts of the system without affecting processing of hydrocarbons.

5.10 Commissioning Requirements

System installation shall be planned such that early commissioning and operation of the system can take place.

5.11 Interface Requirements

5.12 Commissioning Requirements