

NORSOK STANDARD

SYSTEM REQUIREMENTS
CHLORINATION
SYSTEM NO. 42-20

P-SR-019
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

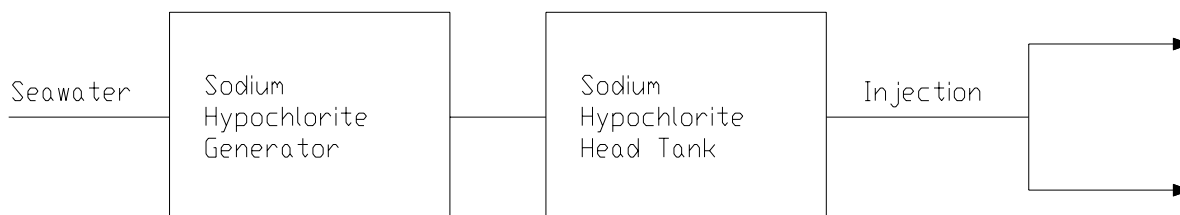
5.1 General

The purpose of the Chlorination System is to generate and supply sodium hypochlorite solution for dosing in appropriate systems to disinfect or prevent marine growth.

5.2 Products/Services

Not Applicable.

5.3 Equipment/Schematic



5.4 Performance

The system shall fulfill the following functional requirements:

- Total Dosing Rate (m^3/hr):
- Dosing Concentration (p.p.m. vol equiv. Cl_2): 2.0
- Flowrate for Systems injected into (m^3/hr):
- Residual Chlorine Concentration in Systems Injected into (p.p.m. vol equiv. Cl_2): 0.3 - 1.0

5.5 Regularity

Regularity: 85 %

Sparing: No sparing (1 x 100%)

5.6 Process/Ambient Conditions

Unit will be installed in sheltered, unheated area.

Supply to the system will be seawater filtered to remove particles above 1000 microns.

5.7 Operational Requirements

The system shall be designed to operate continuously without operator intervention.

Local control and monitoring with unit alarm only brought back to control room.

Facilities shall be included to allow individual regulation of flow to each user.

5.8 Maintenance Requirements

All major parts shall be easily accessible for maintenance.

5.9 Isolation And Sectioning

Means for isolation shall be included at the injection point to each user.

5.10 Layout Requirements

Hydrogen rich vent from system to be routed to safe location.

5.11 Interface Requirements

Seawater,Electricity,Instrument Air

5.12 Commissioning Requirements

None.