HANDBOOK FOR ACKNOWLEDGEMENT OF COMPLIANCE (AoC)

Revision 07, August 2024

Norges Rederiforbund
Norwegian Shipowners' Association

PREFACE

The update of the AOC handbook in 2024 is done at a time when drilling activity has picked up somewhat, and earnings are healthier than in previous years. Even so, in the past year there have been more units that have left the Norwegian Continental Shelf (NCS) than have arrived.

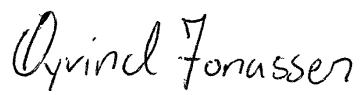
History shows that it is an extensive job to get a facility that has not been built for the NCS up to a level that allows you to get an Acknowledgement of Compliance (AOC). At the start of 2024, there are far more units with AOC than are located on the Norwegian Continental Shelf, and there are also some units that have delivered their SUT back to Havtil.

It is likely that this revision of the AOC handbook will be most relevant for facilities that have been on the NCS in the past, or have already been built, as the various rig companies do not see building new rigs as likely in the foreseeable future.

From the Norwegian Shipowners' Association, we would like to thank everyone who has put in the work to read and comment on ambiguities and things that they think should be changed. The AOC handbook is primarily a tool for those who shall operate a Mobile Offshore Unit (MOU) on the Norwegian Continental Shelf. The book should provide guidance on which regulations apply in specific areas on the MOU.

Much of the work in this revision has been to update names and references/links after the Petroleum Safety Authority (PSA) changed its name to the Norwegian Ocean Industry Authority (Havtil) in 2024. No changes have been made based on regulatory changes, but clarifying changes have been made where Havtil over time has had a somewhat restrictive interpretation of the room for action in the framework regulation § 3 on the use of maritime regulations.

Thanks to members of the reference group, consisting of Odfjell Drilling, Prosafe and Valaris. A special thanks to DNV for the main contribution to the final product.



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1 INTRODUCTION

This chapter gives an overview of the Acknowledgement of Compliance (AoC) scheme that was introduced in 2000 and became mandatory for all mobile offshore units (MOU) on the Norwegian Continental Shelf (NCS) in January 2004. Further it defines the objective and scope of this AoC Handbook, and how it is structured.

1.1 About the AoC scheme

The purpose of the AoC scheme is to make the application process more efficient, clarify responsibility and provide greater predictability for the players on the NCS.

> "When we issue an AoC, this expresses our confidence that petroleum operations can be conducted by the mobile facility concerned in accordance with regulations," *PSA 2019* /1/

All MOUs[1] registered in a national ship register must have an AoC in order to participate in petroleum operations on the NCS. An AoC is not required for mobile facilities operated directly by the field operator, and for storage ships.

The Applicant may be the owner of a MOU, or anybody else who will be in charge of the daily operations of the MOU when undertaking petroleum activity subject to Norwegian shelf legislation.

The AoC is given based on the information that the Applicant has provided concerning the MOU and organisational conditions, and the authorities' follow-up of the Applicant.

There is no defined expiry date for an AoC granted by the Norwegian Ocean Industry Authority (Havtil)[2]. However, the Holder of the AoC is responsible for maintaining the AoC application documentation and informing Havtil of major changes to the MOU or the related management system.

Links:
- *Regulations relating to health, safety and the environment in the petroleum activities and at certain onshore facilities (the Framework Regulations) Section 25 Application for Acknowledgement of Compliance for certain offshore mobile facilities*

[1] In this Handbook, the term MOU includes units for drilling (MODU), production, storage and/or offloading (FPDSO and FPSO), accommodation units and well intervention units, as defined in The Framework Regulations, Section 25.

[2] The Petroleum Safety Authority Norway (PSA) became the Norwegian Ocean Industry Authority (Havtil) from 1st January 2024.

1.2 About the AoC handbook

This Handbook has been developed to enable an efficient process for the Applicant in the development and qualification of material to be used in the application for the AoC. The Handbook also aids standardisation of AoC applications.

It is aimed at MOU owners, MOU operators and drilling contractors.

The Handbook does not introduce any new requirements. The bases for the AoC application will, at any time, be the valid regulations, guidelines and any additional clarifications as issued by Havtil.

The Handbook is set up as follows:

Throughout the Handbook, blue indented text is used to highlight important information. The blue text is taken from various sources such as the Havtil website, Havtil regulations or relevant guidelines and published information.

> " The Norwegian Ocean Industry Authority issues Acknowledgements of Compliance for the following mobile facilities registered in a national ships' register: drilling facilities, living quarters facilities, facilities for production, storage and offloading, facilities for drilling, production, storage and offloading as well as well intervention facilities." – The Framework Regulations, Section 25.

2 WHAT IS THE REGULATORY BASIS FOR A MOU ON THE NCS?

2.1 Introduction

This chapter gives an overview of the regulatory regime that applies to a MOU on the NCS. It covers Havtil's regulatory regime and relevant working environment regulations. According to Havtil regulations, maritime regulations under the Norwegian Maritime Authority (NMA) can be used to meet some requirements, thus, a short introduction to the NMA regime is given.

The chapter also covers technical norms and standards recommended by the authorities and it details the requirements for an AoC application.

It should be noted that authorities other than Havtil, NMA and the Directorate of Labour Inspection have acts and regulations that apply to MOUs on the NCS, for example the Food Safety Authority, the Civil Aviation Authority, Radiation and Nuclear Safety Authority and the Norwegian Post and Telecommunications Authority. However, these regulatory regimes are not covered in this chapter.

2.2 The AoC regulatory framework

The acts governing health, safety and environment (HSE) on the NCS and the HSE regulations enforced by Havtil are shown in the figure below.

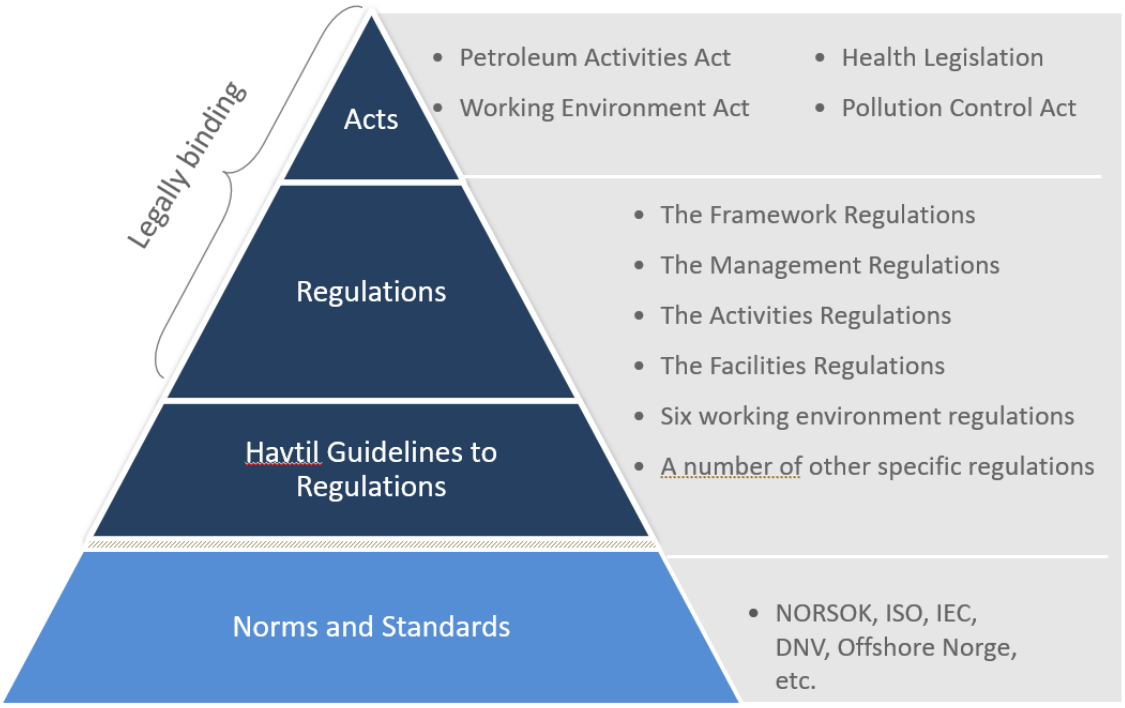

Figure 2-1: Health, safety and environment regulations enforced by Havtil

The AoC arrangement is warranted in the Norwegian *Regulations relating to health, safety and the environment in the petroleum activities and at certain onshore facilities* (the Framework Regulations) *Section 25 Application for Acknowledgement of Compliance for certain offshore mobile facilities*.

It should be noted that relevant EU Product Directives also apply to all MOUs as given in the Norwegian *Regulations relating to design and outfitting of facilities, etc. in the petroleum activities* (the Facilities Regulations), *Chapter XV Implementation of EEA Regulations.*

According to Section 3 of the Framework Regulations *Application of maritime regulations in the offshore petroleum activities*, mobile facilities which follow a maritime operational concept[2] can use relevant technical requirements in the NMA regulations for mobile facilities (the Red Book), with supplementary classification rules provided by a MOU classification society recognised by NMA. Alternatively, international flag state rules with supplementary classification rules providing the same level of safety to technical requirements laid down in and in pursuance of the *Petroleum Activities Act* can be used.

This means that Applicants have three choices when deciding on which *technical* requirements regarding the hull and marine systems to implement on a MOU:

[2] i.e. are registered in a national ship register.

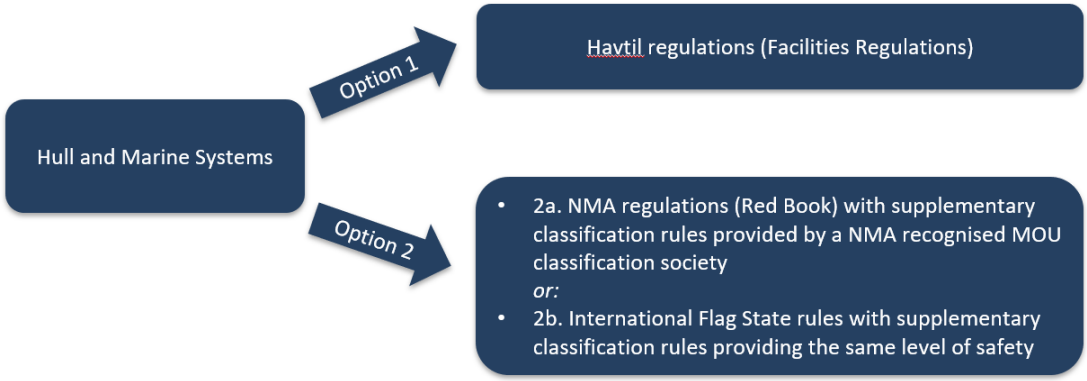

Figure 2-2: Options for technical requirements to maritime areas. Section 3 of the Framework Regulations is the "entry gate" to options 2a and 2b

The provision to use the NMA regulations includes maritime areas such as the hull, stability, anchoring, marine systems and other areas such as electrical systems, communication systems, deck cranes, helicopter deck etc. It excludes functional systems which are directly related to petroleum activities such as drilling and process equipment, universal audio and visual alarms, equipment for personnel transport and requirements for personnel transport on the drill floor and well intervention systems. This is illustrated in Figure 2-3 and further detailed in Section 2.5 of this Handbook.

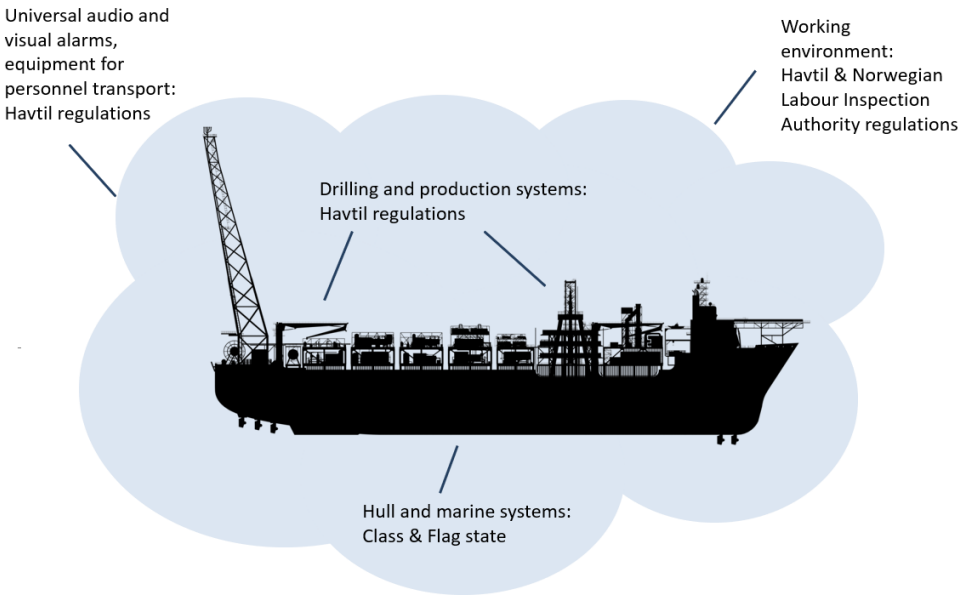

Figure 2-3: Application of regulations for MOUs

The Facilities Regulations Section 1 *Scope* gives clarifications and limitations with regards to the application of Section 3 in the Framework Regulations.

The chosen technical requirements need to be used in their entirety and switching between maritime and petroleum regulations is not accepted. How to handle nonconformities and exemptions is described in Chapter 3.4 Handle nonconformities.

An AoC is granted based on the authorities' evaluations of the condition, compared with the regulations that apply for use of mobile facilities on the Norwegian continental shelf at the time of the statement. When using the maritime regime, this implies that the latest revision of the flag/class rules shall apply for the AoC. This also implies that the latest revision of flag / class rules shall be used as basis for the gap analysis, regardless of the revision of regulations and standards used for assignment of flag / class. See Section 5 for details regarding implementation of regulatory updates when maintaining the AoC.

Links:

- *Regulations relating to health, safety and the environment in the petroleum activities and at certain onshore facilities (the Framework Regulations), Section 25 Application for Acknowledgement of Compliance for certain offshore mobile facilities*
- *Regulations relating to design and outfitting of facilities, etc. in the petroleum activities (the Facilities Regulations), Chapter XV Implementation of EEA regulations*
- *Regulations relating to health, safety and the environment in the petroleum activities and at certain onshore facilities (the Framework Regulations), Section 3 Application of maritime regulations in the offshore petroleum activities*
- *Regulations relating to design and outfitting of facilities, etc. in the petroleum activities (the Facilities Regulations), Section 1 Scope*

2.3 Working environment

Section 3 of the Framework Regulations does not apply to working environment issues like noise, vibration, lighting and ergonomics, but NMA's regulations can be used as a norm in connection to the design of access ways, working areas and living quarters in order to ensure a good and sound working environment.

The Facilities Regulations *Chapter IV Design of Work and Common Areas* presents the applicable requirements with regards to working environment in offshore petroleum activities. These include requirements regarding ergonomic design, human-machine interface (HMI), noise, vibrations and lighting. The Facilities Regulations guidelines give guidance with regards to the applicable chapters in *NORSOK S-002 Working environment*[3] that should be used to be in compliance with the regulations.

[3] The NORSOK standards are developed by the Norwegian petroleum industry to ensure adequate safety, value adding and cost effectiveness for petroleum industry developments and operations.

The *Working Environment Act*, with some exceptions[4], and several of the regulations issued by the Directorate of Labour Inspection, apply to the petroleum activities.

> We follow up the Applicants' management of working environment conditions, so that risk of injury and illness is kept within the framework of regulatory requirements. The players are responsible for ensuring a fully sound and proper working environment, Havtil Website /2/

The following general working environment regulations, pursuant to the *Working Environment Act*, which came into force on 1 January 2013, are relevant:

1. *Regulations concerning organisation, management and employee participation*
2. *Regulations concerning the design and layout of workplaces and work premises (The workplace regulations)*
3. *Regulations concerning administrative arrangements within the area of application of the Working Environment Act (Regulations concerning administrative arrangements)*
4. *Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents (Regulations concerning action and limit values)*
5. *Regulations concerning the performance of work, use of work equipment and related technical requirements (Regulations concerning the performance of work)*
6. *Regulations concerning the construction, design and production of work equipment and chemicals (The producer responsibility regulations)*

Requirements with regards to material handling, transport, access and escape routes, living quarters, health department and emergency sickbay are often considered to be closely connected to ensuring a good and sound working environment. NMA regulations may be used as alternatives to *NORSOK C-001 Living quarters area* and *C-002 Architectural components and equipment* for mobile offshore units in order to fulfil the requirements in The Facilities Regulations *Section 13 Materials Handling and Transport Routes, Access and Evacuation Routes* and Sections 58 – 61 regarding *Living Quarters* in the areas that are covered by the NMA regulations.

It is important to emphasize that when NMA regulations are applied as described in the paragraph above, it implies that other normative standards with respect to health and safety may be selected. Hence, it is not uncommon to use the corresponding NORSOK requirements as a best practice when designing and engineering these areas.

Links:
- Norwegian Labour Inspection Authority, Acts and Regulations
- Regulations concerning organisation, management and employee participation
- The Workplace Regulations
- Regulations concerning the performance of work
- Regulations concerning action and limit values

[4] For example, the Working Environment Act's provisions relating to working hours do not apply to the offshore activities - special provisions are found in the Framework Regulations.

- The producer responsibility regulations
- Regulations concerning administrative arrangements
- Regulations relating to design and outfitting of facilities, etc. in the petroleum activities (the Facilities Regulations), Chapter IV, Design of work and common areas
- NORSOK S-002 Working environment
- NORSOK C-001 Living quarters area
- NORSOK C-002 Architectural components and equipment

2.4 Maritime regime

Havtil stipulates that NMA regulations are to be supplemented by classification rules provided by a MOU classification society recognised by NMA, or other maritime regulations and classification rules providing the same level of safety[5]. DNV and ABS classification rules are provided as an example in Enclosure B[6].

NMA recognizes the following MOU classifications societies; DNV (referred to with former name Det Norske Veritas in the regulations), American Bureau of Shipping (ABS) and Lloyds Register of Shipping (LRS).

Maritime regulations have their basis in the International Maritime Organisation's (IMO) conventions, which are ratified by member states/flag state authorities. IMO has produced a *Mobile Offshore Drilling Unit (MODU) Code* addressing safety considerations for MODUs. The national flag state authorities are free to specify requirements which exceed IMO's minimum requirements, for example the NMA has not ratified the MODU Code but has developed a specific set of regulations (the Red Book) for MOUs.

Links:
- NMA Regulations
- IMO Code for the construction and equipment of mobile offshore drilling units (MODU Code), 2009, 2020 Edition

2.5 Use of technical requirements

Depending on the regime being followed, technical requirements for the various areas on a MOU are given in Havtil's Facilities Regulations and associated guidelines and/or in the NMA regulations for MOUs together with complementary rules for classification of offshore units.

The table presented in Enclosure E may be used as a tool for how to select technical requirements when describing the MOU and all conditions of importance for the intended operations. The top line of the table is shown in the figure below along with a description of what is covered in each column.

[5] Note that the NMA regulations are in some cases more extensive than the IMO conventions, for example potable water.
[6] Lloyds register rules are not included as they do not have N-notation.

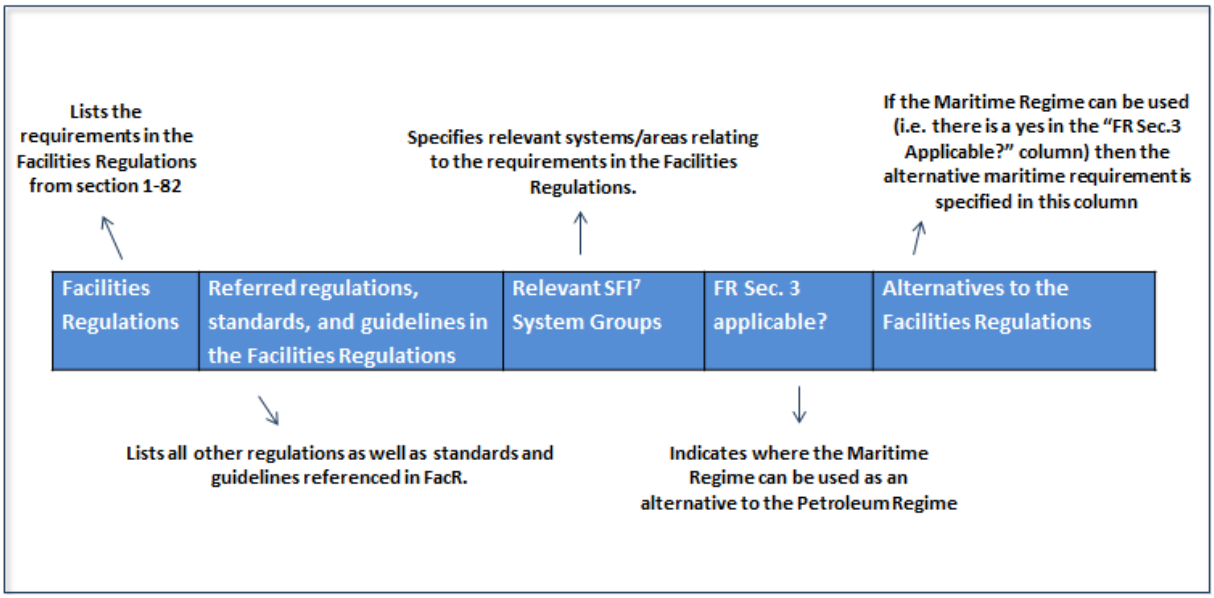

Figure 2-4: Explanation of heading to table in Enclosure E

Should the standards referred to in the regulations be chosen as the method for complying with a requirement, it is assumed that the Applicant will be in compliance. If another standard is chosen, the Applicant needs to demonstrate that the chosen standard will achieve the same level of safety as the recommended standard.

"Enclosure D to the AoC Handbook – ABS Rules references April 2017" can be used as an alternative to the table in Enclosure E.

Links:
- *Enclosure D to the AoC Handbook – ABS Rules references April 2017*

[7] SFI is a coding and classification system widely used in the maritime and offshore industry worldwide, which provides a functional subdivision of technical and functional information on a ship or rig.

3 WHAT DOES THE APPLICANT'S AOC PROCESS INCLUDE?

3.1 Introduction

This chapter gives guidance on how the Applicant could develop its AoC documentation, ensuring a well-structured application. The main objective of the documentation is to verify that the MOU is and always will be, in compliance with all applicable requirements on the NCS. Hence, verification is a key part of this chapter.

> "The responsible party shall determine the need for and scope of verifications, as well as the verification method and its degree of independence, to document compliance with requirements in the health, safety and environment legislation. When verifications are deemed necessary, they shall be carried out according to a comprehensive and unambiguous verification programme and verification basis", Framework Regulations §19, /3/

Due to the complexity of MOUs and operations on board, and the comprehensive rules and regulations that apply, it is important to establish verification systematics[8] that contribute to efficient and correct verification work, creating the necessary trust and confidence both for the Applicant as well as for the field operator and authorities.

Figure 3-1 below outlines the Applicant's AoC process which is the structure to be followed in this chapter.

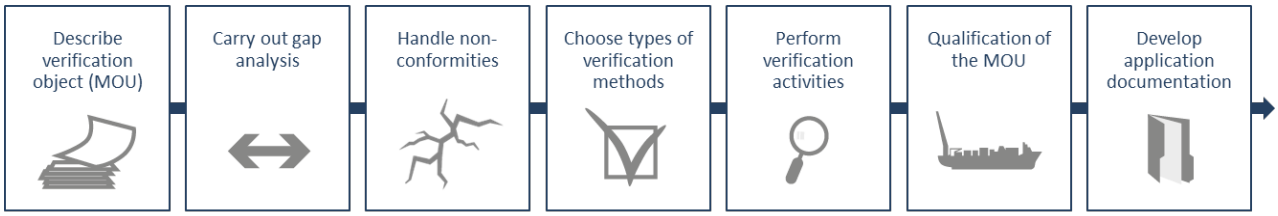

Figure 3-1: The main elements in the Applicant's AoC process

[8] A systematic listing of requirements to verification is not provided in the shelf regulations. The Applicant must therefore themselves identify the various requirements and implement necessary systematics in order to ensure compliance.

3.2 Describe verification object (MOU)

The Applicant should describe the verification objective (the MOU) by means of reference to existing documentation.

The description of the MOU should cover:

- The Applicant's management system
- Technical issues; technical description, operations and limitations

3.3 Carry out gap analysis

The Applicant should present a gap analysis[9] documented in the form of a regulatory compliance matrix covering all relevant acts and regulations.

Applicants typically have two matrices, one covering general and management system requirements (given in all relevant regulations) and one covering technical requirements (given in Havtil and/or NMA regulations – see Enclosure E). The compliance matrices are typically presented in a spreadsheet or table format.

The gap analysis should list the relevant requirements (that is, requirements applicable at the time of the statement being issued) in the acts and regulations and, alongside each requirement, list the Applicant's governing documents which describe how the requirement is met. The compliance status of each requirement should also be specified and if not compliant, a note on how compliance shall be achieved should be included. Reference can be made to relevant sections in the AoC application which cover the requirements. An example of a management system compliance matrix is presented below, using sections of the Framework Regulations as an illustration. The technical requirements compliance matrix is typically presented in the format given in Enclosure E.

[9] Reference is made to Chapter 2 of this Handbook.

Framework Regulations	Requirement	Referred Regulations and Standards	Applicant Internal Document Reference	Applicant AoC Reference	Compliance Status
Section 13	Requirements relating to facilitation of employee participation	Working Environment Act Regulations on Safety Delegates and WE Committees	Procedure XX Work Process XX Guideline XX	Part 2 Chapter XX	Compliant
Section 43	Requirements relating to night work	-	Procedure XX Work Process XX Guideline XX	Part 2 Chapter XX	Not Compliant Temporary exemption given by Havtil.
Section 55	Requirement to impact assessments etc.	-	-	N/A	N/A Responsibility of the field operator

Figure 3-2: Example of a general and management system compliance matrix (using sections of the Framework Regulations as an illustration)

3.4 Handle nonconformities

Requirements on how to handle nonconformities are given in the Management Regulations Section 22. Exemption denotes the authorities' decision to accept nonconformity related to statutory and regulatory requirements and are covered by the Framework Regulations Section 70.

Nonconformity

If nonconformities are identified during the gap analysis, they must be corrected, their causes clarified, and measures implemented to prevent recurrence. Until a nonconformity has been corrected, compensatory measures must be adopted to maintain a prudent level of HSE.

For nonconformities to statutory and regulatory requirements that entail disproportionately high costs to deal with, it may be necessary to apply Havtil for an exemption. This will apply to cases where the Applicant wishes to use another, documentable equivalent solution than that in a detailed requirement, or a solution that yields a lower level of HSE than ensured from the applicable regulatory requirement.

Nonconformities to internal requirements (including standards and guidelines) should be managed internally in accordance with the Applicant's nonconformity handling processes/procedures and Havtil does not have to be informed. However, Havtil may follow up how the Applicant manages the

identification and handling of nonconformities and how the Applicant itself ensures that the nonconformity system functions as intended.

As a basis for maintaining an overview of the status of nonconformities relating to the MOU, a list of all nonconformities that will *not* be corrected before start-up shall be included in the AoC application.

For those nonconformities that will be corrected shortly after start-up, there is no need to apply for exemptions.

Noting that the same nonconformities may recur from MOU to MOU, Havtil recommends companies seeking an AoC to learn from the errors of other owners by reading audit reports from earlier cases. These are all published on Havtil's website.

Exemption

If nonconformities to regulatory requirements are not planned to be corrected as quickly as possible, the Applicant can apply for an exemption according to the Framework Regulations Section 70. This would primarily be relevant for older MOUs should the regulations change. Havtil may grant "long term exemptions" that are exemptions without a defined due date, or "temporary exemptions" that are exemptions with a defined due date.

If the NMA has granted exemptions, the Applicant does not need to re-apply for these exemptions to the Havtil, however Havtil should be informed. For exemptions granted by other flag state authorities, the Applicant will need to re-apply for these exemptions to the Havtil.

Any application for exemption should normally contain[10]:

a. an overview of the provisions from which exemption is sought
b. a statement of which special conditions that make the exemption necessary or reasonable
c. a statement of how the exemption case has been handled internally in the enterprise
d. a description of the nonconformity and the planned duration of the nonconformity
e. a statement of the nonconformity's individual and overall risk, both for own and other activities
f. a description of any measures that, in whole or in part, will compensate for the nonconformity
g. a description of any measures to correct the nonconformity

If the exemption could impact safety and the working environment, a statement from the employees' representative[11] shall be appended with the exemption application.

[10] Reference is given to the guidelines to the Framework Regulations Section 70 Exemptions.

[11] Employee representatives means a wide interpretation of employee representatives, i.e. both trade union representatives, safety delegates, representatives in working environment committees, etc., depending on the individual matter.

Links:

- *Regulations relating to management and the duty to provide information in the petroleum activities and at certain onshore facilities (the Management Regulations), Section 22 Handling of nonconformities*
- *Regulations relating to health, safety and the environment in the petroleum activities and at certain onshore facilities (the Framework Regulations), Section 70 Exemptions*
- *Audit reports on Havtil website*
- *Identical letter: Principles for handling nonconformities from the HSE regulations*
- *Interpretation related to the Framework Regulation Section 24 and 70 – Søke unntak fra veiledninger?, April 2002*

3.5 Choose types of verification methods

Verification methods define systematic, planned activities conducted under the Applicant's supervision to verify and document that the MOU, the organisation and conditions on board satisfy requirements.

ISO defines verification as "confirmation by examination and provision of objective evidence[12] that specified requirements are met".

The Applicant shall determine the need for and scope of verifications, as well as the verification methods and their degree of independence, to document compliance. The Applicant should describe the methods to be applied in the verification work and in which phases they will be applied (as design, construction and operation). The description may include a brief overall description with reference to implemented procedures in Applicant's organisation.

Extent, frequency and planned use of verification methods shall be an integral part of the project/MOU verification plan. The verification plan is usually based on the regulatory compliance matrix.

Table 3-1 Examples of typical verification methods and activities

VERIFICATION METHOD	ACTIVITIES
Audits and supervision carried out by Applicant	• Management system audits • Audits of vendors and suppliers
Use of certificates	• Product, component, management system • Class • Maritime

[12] "Objective evidence" is information that can be proven to be true, based on material presented through observation, measurement, testing or other methods.

VERIFICATION METHOD	ACTIVITIES
Verification during performance of maintenance	• Control and check versus identified rule or requirement • Training of personnel, focusing on proper use of the maintenance management system • Random testing and control
Analyses and evaluations as required by:	• Changes to the use of the MOU • Changed assumptions for operation • Changes in rules and regulations • Recommendations due to own experience or feedback from similar MOU or operations
Inspection and survey:	• Discipline inspections • Product inspections • Class surveys • Inspection by operations manager • Inspection by field operator
Design verification	• Design reviews • HAZIDs • HAZOPs
Other methods such as:	• Working environment charting (chemical/physical and psychosocial) • System for reporting unwanted incidents and follow up of such • System for experience transfer and implementation of corrective actions

3.6 Perform verification activities

Verification is often performed in parallel activities, with limited use of spot checks as supplements, due to the numerous complex systems and work processes involved in the operation of a MOU. Verification is often performed in retrospect to confirm that the activities in question have been conducted satisfactorily in relation to specified requirements.

In the verification, work it is recommended to distinguish between hull/marine systems and systems which are directly related to petroleum activities, such as drilling, production or well intervention systems.

In addition to personnel employed by the Applicant; suppliers, consultants and classification societies will normally be involved in the verification work however it is important to remember that the ultimate responsibility for verification activities lies with the Applicant.

The following guidelines apply with regard to accepting work carried out as part of Applicant's verification activities:

Applicant's own activities	All activities that are planned, managed and conducted under Applicant's control may be regarded as part of Applicant's verification activities.
Classification societies	Classification in-service is used to document that the MOU and the operations on board comply with requirements stipulated in the classification rules. The classification work is objective and may be used by all industry players involved such as Applicant, field operator, insurance companies and authorities when considering technical status of the MOU. The work is performed under contract with Applicant and may thus be used as part of Applicant's verification activities.
Regulatory agencies	Supervisory activities carried out by Havtil and other regulatory agencies are not considered part of Applicant's planned verification activities. Resulting documentation such as maritime certificates may, however, be used for documentation of compliance for relevant parts of the MOU at the time when the supervisory activities were carried out.
Field operator	In the case of newbuilds, field operator's planned verification activities may be considered part of the total verification if this has been agreed between those responsible for the newbuilding activity, e.g. drilling contractor and field operator. Such integrated verification activities shall then be documented in the project verification plan.

3.7 Qualification of the MOU

Qualification is the process the Applicant performs by documenting the results from verification activities to demonstrate that the MOU, management system and organisation comply with relevant requirements.

Applicant shall describe how it will be ensured that the verification object remains in compliance as time goes by.

The Applicant may split the description of the qualification process into initial qualification and in-service qualification under normal operations.

3.8 Develop application documentation

The AoC application should confirm that the Applicant is familiar with the requirements and that these have been duly implemented in the management system.

The application process can be resource-intensive both for Havtil and for the Applicant. Well written and structured AoC documentation will reduce the resources needed in the processing of the application. There is considerable freedom with regard to documentation form as well as extent of total verification documentation provided.

Employee participation

Employee participation is an important precondition on the NCS. Through their participation, employees must be included in decision-making processes that affect occupational health and safety, and their ability to influence their own work situation must be provided for. Employees should thus be involved in developing the AoC documentation.

The AoC application

The AoC application documentation should include:

- an application letter
- a statement from the organisation employees or their representatives regarding the application
- the purpose and plans for the facility
- the support documentation as described below
- a list of analyses and assessments carried out
- the regulatory compliance matrix
- the verification plan (Applicant's own supervision)
- a list of nonconformities not yet closed
- application for exemptions, if any

Support documentation

Many Applicants choose to use the *International Association of Drilling Contractors (IADC) HSE Case Guidelines for Mobile Offshore Drilling Units, /4/*, as a reference when preparing the AoC documentation. In this way the same documentation can be used both for the NCS and the UK Continental Shelf (UKCS) if relevant. The IADC Guidelines recommends that the application has the following format:

Figure 3-3: Contents of an AoC Application (based on the IADC Guidelines)

The table below shows typical topics to be covered in each part.

Table 3-2: Purpose of each part of the AoC application (based on the IADC Guidelines)

PART	CONTENT
Part 1: Introduction and external stakeholders' expectations	Provides an introduction to the AoC application and a description of how the Applicant will demonstrate compliance with regulatory and company requirements as well as external stakeholders' expectations.
Part 2: Contractor's Management System	Provides a description of the Applicant's management system to ensure that HSE risks are reduced to a tolerable level. The methods to reduce risk must be considered in Part 4.
Part 3: Unit description and supporting information	Provides a description of the equipment and systems necessary to reduce risk to a tolerable level, and to fulfil the requirements of the Applicant's Scope of Operations. The equipment and systems must be considered in Part 4.
Part 4: Risk Management	Provides a description of the Risk Management process for assuring that the risks associated with Applicant's Scope of Operations are reduced to a level that is tolerable to the Applicant and other stakeholders. The Risk Management process must consider elements described in Part 2 and the systems and equipment described in Part 3.
Part 5: Emergency Response	Provides a description of emergency response arrangements and plans. These should be described based on the Risk Management process in Part 4.
Part 6: Performance Monitoring	Provides a description of the arrangements for monitoring to ensure that the risk management measures identified in Part 4 are implemented, maintained and effective at the workplace.

For further information, please refer to the IADC Guideline.

NCS specific requirements on barrier management

The intention of barrier management on the NCS is equivalent to the UKCS where focus is on managing major accident risk. The main focus from Havtil is that:

1. Barriers are a combination of technical, operational and organisational elements
2. Information regarding barrier performance should be taken into account in daily operational risk management activities.

On the NCS there are no requirements for third party verification of barriers.

On a rig there will be a combination of maritime and installation specific technical systems acting as barriers. These systems can be placed, from a risk-based perspective, in relation to an unwanted hazardous event. This is typically illustrated in a bow-tie diagram where systems that influence the probability of having the unwanted event are placed to the left of the event and systems which mitigate or reduce the consequences of the event, are placed to the right of the event. An example of such a bow-tie diagram where SFI systems are placed according to their role is shown in Figure 3-4.

Structure	Containment	Control	Protect	Mitigate	Rescue
26 - Turret	70 – Fuel systems	33C – Well control, equipment and systems	51 – Insulation, panels, bulkheads, doors, side scuttles, windows and skylight	425 – Calling systems, command telephone, telephone plants, walkie-talkies, etc.	11 – Other; arrangement, escape ways
2 – Hull and structure	51 – Insulation, panels, bulkheads, doors, side scuttles, windows and skylight	331B – Process Shut Down (PSD)	334B – Open drain for process facility		

Figure 3-4. Example of a bow-tie diagram illustrating placement of SFI systems according to influence before or after a hazardous event

The report *Barrier management in operation for rig industry – Good Practices* /5/ gives guidance on how to implement and manage barriers in daily operation to prevent major accidents.

Links:

- *Regulations relating to health, safety and the environment in the petroleum activities and at certain onshore facilities (the Framework Regulations), Section 13 Facilitating employee participation*
- *Barrier memorandum 2017- Principles for barrier management in the petroleum industry, PSA, 2017*
- *HSE Case Guidelines for Mobile Offshore Drilling Units, IADC*
- *Barrier management in operation for the rig industry – Good Practices, March 2014*

4 HOW DOES HAVTIL PROCESS AN AOC APPLICATION?

The figure below shows the steps in the processing of an AoC application. The steps are then described in further detail below.

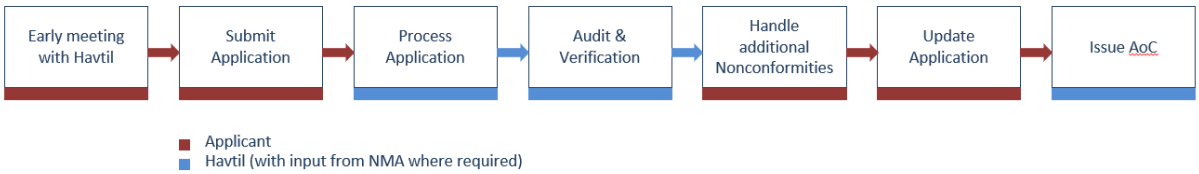

Figure 4-1: Steps in the processing of an AoC application

Early meeting with Havtil

An early meeting with Havtil is recommended to clarify expectations. The Applicant should contact Havtil in ample time. In consultation with the NMA, Havtil will agree on further work, contact and schedule.

Submit application

An application containing documentation as detailed in Chapter 3.8 should be submitted to Havtil. A new application for an AoC must be submitted if the MOU changes hands because the scheme also looks at the individual company's management systems.

Process application

Havtil is in charge of processing the application and will normally use the NMA as a technical expert on maritime issues except when the MOU is under Norwegian Flag. Other relevant authorities are also consulted for MOUs under international flags. The AoC is given on basis of the authorities' assessment of the condition at the time of the statement, measured against the requirements that apply for use of MOU on the NCS at the time of the decision.

Audit and verification

Havtil and other relevant authorities may conduct supervisory activities such as audits, both on board the MOU and at the Applicant's onshore organisation, to verify that the MOU and the work on board complies with requirements to, and conditions for, operation.

> ” Processing an application normally takes three months if the unit is to be used for drilling, assuming that the application meets the expected standards for content and quality. It can take longer to process units to be used for other activities. When the application involves an extended AoC, where the same facility is to be used for a new type of activity which requires the issue of an AoC, consideration can take less than three months.”, *PSA 2019 /1/*

Handle additional nonconformities

If additional nonconformities are identified during the authorities' processing of the application, these nonconformities shall be dealt with before the AoC is granted. See Chapter 3.4 *Handle nonconformities*.

Update Application

The Applicant should update the application documentation if required (i.e. if Applicant received comments from Havtil or other authorities which require application documentation to be updated).

Issue AoC

An AoC is granted based on the authorities' evaluations of the condition, compared with the regulations that apply for use of MOUs on the NCS at the time of the statement. The acknowledgment is given on the basis of the authorities' follow-up of the Applicant and information the Applicant has provided regarding the facility and the organisational conditions.

As a minimum all safety critical nonconformities shall be corrected, maritime certificates issued, and the facility, organisation and management system shall be ready for operation at the time the AoC is issued.

5 HOW IS THE AOC TO BE MAINTAINED?

Once an AoC has been granted to an applicant, it is valid for lifetime of the MOU, irrespective of the waters it is operating in. However, the AoC cannot be transferred to a new operator of the MOU.

> "It is incumbent on the Holder of the AoC to fulfil and uphold all conditions described in the AoC application, regardless of operational mode and location.", PSA 2017, ref. /8/.

The Holder of the AoC shall at all times maintain the AoC documentation and ensure that the MOU, the management system and the organisation are in accordance with applicable statutory and regulatory requirements. Hence, the holder is at all times responsible for maintaining the AoC documentation, actual technical conditions and governing documents. The Holder shall inform Havtil if the conditions for the AoC have changed.

It should be noted that Havtil may withdraw an AoC if they find, during audits and follow-up activities, that the Holder has severe nonconformities from the assumptions and documentation.

Managing change

Regulatory, technical, operational and organisational changes should be handled according to the Holder's management of change process. This should include assessing the consequences of the changes on the AoC conditions and documentation. The AoC documentation shall be updated accordingly.

For changes with impact on safety critical elements, the Holder shall notify the regulator and the Operator.

Managing regulatory updates

Laws and regulations change over time and the AoC Holder shall have processes in place to monitor regulatory updates and evaluate how these updates apply to their operations.

For systems following the Facility Regulations, the technical requirements of the facility regulations are followed up as follows:

- For AoCs granted after 01.01.2018, the Holder must comply with the Facility regulations as of the time of the statement.
- For AoCs granted before 01.01.2018, the Holder must comply with Facility regulations as of 01.01.2018.
- When modifications are carried out on the MOU, the latest regulatory requirements apply for the modification and Havtil shall be informed.

Where following maritime regulations, regulatory updates apply as of the next certificate renewal. In other words, when performing a renewal of maritime certificates, a gap-assessment shall be performed against the latest issue of the NMA regulations and class rules for hull and marine systems and against the facility regulations as of 01.01.2018 for non-marine systems for AoCs granted prior to 01.01.2018.

> "According to the Facility Regulations §82 nr 3, non-marine systems should be gaped against the facility regulations as it stands per 1.1.2018. Thereafter, no further gap analysis is required unless major modifications are performed. The purpose of this requirement is that the requirements of the facility regulations apply after the same principle for permanent and mobile facilities. For marine systems, facilities up for certificate renewal next year shall be gapped against flag/class rules pr. 2020 and the facility regulations pr. 2018." Correspondence Havtil to DNV GL, October 2019.

Communication between Operator-AoC Holder-Havtil

The Operator

The Operator shall, well before the scheduled start of activities, submit an Application for Consent (AfC) to Havtil. When the petroleum activities include contracting a MOU, the application shall contain the relevant AoC.

When applying for a consent, the Operator must take into consideration any short and long-term exemptions granted by Havtil as part of the AoC. The Operator shall evaluate if it is acceptable to perform the planned petroleum activities at the specific location with the existing exemptions. These considerations shall be included in the AfC to Havtil.

The AoC Holder

If the AoC Holder identifies new nonconformities, the Holder shall apply to Havtil for exemptions if necessary and inform the Operator.

Havtil

Furthermore, Havtil will inform the Operator if exemptions are granted or not.

For further details regarding the differences between an AoC and a Consent please see Enclosure C.

Handling 3rd party equipment

When 3rd party equipment is hired permanently by the Holder, this shall be included in the AoC. The Holder is responsible for the equipment and possible nonconformities and exemptions.

When 3rd party equipment is temporarily hired by the Holder, this does not have to be included in the AoC. However, the Holder is still responsible for the equipment and possible nonconformities and exemptions.

When 3rd party equipment is hired by the Operator, it will be the Operator that is responsible for the equipment and possible nonconformities and exemptions.

Maintaining the AoC during lay-up and operations in external waters

In December 2017, PSA issued a circular to the industry regarding maintenance of the AoC during lay-up and during operations in external waters (ref. /6/). The following was highlighted:

- *Lay-up*
  The Holder of the AoC is responsible for ensuring that all conditions mentioned in section 25 of the Framework Regulations are provided for before the facility is re-activated for operations on the Norwegian Continental Shelf.
- *Operations in external waters*
  The Holder of the AoC is responsible for ensuring that all conditions mentioned in section 25 of the Framework Regulations are provided for before the facility re-enters for operations on the Norwegian Continental Shelf.

To facilitate re-entry, changes or modifications performed during lay-up or while in external waters, should be performed according to the latest regulations and the conditions of the AoC. When planning to return to operations on the NCS, Havtil shall be informed and plans for establishing the organisation as per the AoC and Norwegian statutory and regulatory requirements shall as a minimum be in place.

During operation or lay-up in external waters, the MOU will not be audited by Havtil. When in lay-up in Norwegian waters, Havtil may follow-up with audits/visits.

Returning the AoC

When disposing of a MOU, the Holder must return the AoC to Havtil. Alternatively, the Holder may choose to return the AoC when no further operations are planned on the NCS.

Links:
- *Framework regulations Section 25*
- *Circular on maintenance of AoC for mobile facilities, PSA December 2017*

6 REFERENCE LIST

/1/	*https://www.havtil.no/en/supervision/acknowledgements-of-compliance/acknowledgements-of-compliance-aoc/*
/2/	*https://www.havtil.no/en/about-us/role-and-area-of-responsibility/working-environment---our-role/*
/3/	*https://www.havtil.no/en/regulations/all-acts/the-framework-regulations3/III/19/*
/4/	*https://iadc.org/health-safety-environment/#hse-case-guidelines*
/5/	*https://www.rederi.no/rapporter/barrier-management-in-operation-for-the-rig-industry--good-practice/*
/6/	*https://www.havtil.no/en/explore-technical-subjects2/technical-competence/news/2017/maintenance-of-acknowledgement-of-compliance-aoc-for-mobile-facilities/*

7 TERMS AND ABBREVIATIONS

The following terms are used in the Handbook and Enclosures:

Acknowledgement of Compliance (AoC)	A statement from Havtil that expresses the authorities' confidence that petroleum activities can be carried out using the facility within the framework of the regulations.
Applicant	Responsible body for operation of MOU who applies for an AoC.
Exemption	Designates the regulator’s decision to accept a nonconformity from the regulatory requirements.
Holder	Responsible body for operation of MOU who has been granted an AoC.
MOU	Mobile Offshore Unit e.g. units for drilling (MODU), production, drilling, storage and/or offloading (FPDSO, FPSO and FSU), accommodation units and well intervention units.
Nonconformity	Refers in this document to a deviation between the chosen solutions and the relevant requirements.
Operator	Anyone executing on behalf of the licensee the day-to-day management of the petroleum activities.
Owner	The owner of the MOU or the company responsible for its day-to-day operation.
SFI	A coding and classification system widely used in the maritime and offshore industry worldwide, which provides a functional subdivision of technical and functional information on a ship or rig.

The following abbreviations are used in the Handbook and Enclosures:

ALARP	As Low as Reasonably Practicable
AfC	Application for Consent
AoC	Acknowledgement of Compliance
FacR	The Facilities Regulations
FR	The Framework Regulations
Havtil	Norwegian Ocean Industry Authority (PSA before Jan. 2024)
IADC	International Association of Drilling Contractors
IMO	International Maritime Organisation
MOU	Mobile Offshore Unit
MODU	Mobile Offshore Drilling Unit
NCS	Norwegian Continental Shelf
NLIA	Norwegian Labour Inspection Authority
NMA	Norwegian Maritime Authority
NPD	Norwegian Petroleum Directorate

PSA	The Norwegian Petroleum Safety Authority (Havtil from Jan.2024)
UKCS	United Kingdom Continental Shelf

8 ENCLOSURES

The following Enclosures support this Handbook:

ENCLOSURE	CONTENT
A	List of relevant NMA Regulations
B	List of DNV and ABS Classification rules (only offshore class-based standards)
C	Difference between an AoC and a Consent
D	Difference between an AoC and a Safety Case
E	Technical norms and standards for the different areas on a MOU
F	Applicability of Framework Regulations Section 3 – MOU variations

Enclosure A – NMA Regulations

The following NMA Regulations are referred to in this document. The short title is used in the tables of the handbook.

Short title	Name of regulation
- NMA Anchoring	Regulations of 10 July 2009 No. 998 on positioning and anchoring systems on mobile offshore units (Anchoring Regulations 09)
- NMA Ballast	Regulations of 27 January 2016 No. 67 on ballast systems on mobile offshore units (Ballast Regulations)
- NMA Construction	Regulations of 4 September 1987 No. 856 on the construction of mobile offshore units
- NMA Cranes and lifting operations	Regulations of 21 December 2017 No.2381 on cranes and lifting operations on mobile offshore units
- NMA Evacuation and life-saving appliances	Regulations of 2 February 2016 No. 90 on evacuation and life-saving appliances on mobile offshore units
- NMA Fire and explosion	Regulations of 31 January 1984 No. 227 on precautionary measures against fire and explosion on mobile offshore units
- NMA Helicopter decks	Regulations of 18 March 2021 No. 815 on helicopter decks on mobile offshore units
- NMA Living quarters	Regulations of 17 December 1986 No. 2318 on the construction and equipment of living quarters on mobile offshore units
- NMA Potable water systems	Regulations of 4 December 2015 No. 1406 on potable water and potable water systems on mobile offshore units
- NMA Production plants	Regulations of 10 February 1994 No. 123 for mobile offshore units with production plants and equipment
- NMA Risk analyses	Regulations of 22 December 1993 No. 1239 on risk analyses for mobile offshore units
- NMA Stability	Regulations of 20 December 1991 No. 878 on stability, watertight subdivision and watertight/weathertight means of closure on mobile offshore units
- NMA Working environment	Regulations of 4 September 1987 No. 859 on protective, environmental, and safety measures on mobile offshore units

Enclosure B - DNV and ABS Classification rules (only offshore class based standards)[13]

DNV

Offshore Classification Rules

- DNV-RU-OU-0101: Rules for Classification of offshore drilling and support units
- DNV-RU-OU-0102: Rules for Classification of floating production, storage and loading units
- DNV-RU-OU-300: Rules for Classification of offshore units – Fleet in service

Offshore Standards

- DNV-OS-A101: Safety principles and arrangement
- DNV-OS-A201: Winterization for cold climate operations
- DNV-OS-A301: Human comfort
- DNV-OS-B101: Metallic materials
- DNV-OS-C101: Design of offshore steel structures, general
- DNV-OS-C102: Structural design of offshore ship-shaped and cylindrical units
- DNV-OS-C103: Structural design of column-stabilised units
- DNV-OS-C104: Structural design of self-elevating units
- DNV-OS-C105: Structural design of TLPs
- DNV-OS-C106: Structural design of deep draught floating units
- DNV-OS-C301: Stability and watertight integrity
- DNV-OS-C401: Fabrication and testing of offshore structures
- DNV-OS-D101: Marine and machinery systems and equipment
- DNV-OS-D201: Electrical installations
- DNV-OS-D202: Automation, safety & telecommunication systems
- DNV-OS-D301: Fire protection
- DNV-OS-E101: Drilling facilities
- DNV-OS-E201: Oil and gas processing systems
- DNV-OS-E301: Position mooring
- DNV-OS-E302: Offshore mooring chain
- DNV-OS-E303: Offshore fibre ropes
- DNV-OS-E304: Offshore mooring steel wire ropes
- DNV-OS-E401: Helicopter decks
- DNV-OS-E403: Offshore loading and infrastructure buoys

[13] Lloyds register rules are not included as they do not have N-notation.

ABS

Rules

- ABS Rules for Building and Classing Mobile Offshore Units
- ABS Rules for Building and Classing Marine Vessels
- ABS Guide for the Classification of Drilling Systems
- ABS Guide for Building and Classing Drillships
- ABS Rules for Building and Classing Floating Production Installations
- ABS Rules for Building and Classing Facilities on Offshore Installations
- ABS Guide for Building and Classing Subsea Riser Systems
- ABS Guide for Building and Classing Subsea Pipeline Systems
- ABS Guidance Notes on Accidental Load Analysis and Design for Offshore Structures
- Guide for Vessels Operating in Low Temperature Environments
- ABS Guide for Certification of Lifting Appliances
- ABS Guide for Certification of Offshore Gangways
- ABS Guidance note on Review and Approval of Novel Concepts

Enclosure C - Difference between an AoC and a Consent

Consent is required for some activities on the NCS. The *field operator* is responsible for submitting the application for consent to Havtil well before the scheduled start of activities. The application for consent can cover several activities that are naturally related.

Typical activities that need consent are:

- Prior to carrying out exploration drilling
- Prior to carrying out surveys with drilling depth more than 200 meters
- Before facilities are put into service
- Prior to major modifications or changes in use or activities

The consent regime is stipulated in The Framework Regulations Section 29 *Application for consent* and the Management Regulations Section 25 *Consent requirements for certain activities.*

An AoC must be obtained in connection with a specific application for consent to petroleum activity, which implies the application of a MOU, unless an AoC has already been obtained.

Such a consent application will consist of two parts:

- One part which encompasses the location and activity specific matters
- One part which encompasses the MOU specific matters, i.e. technical condition, the MOU organisation and management system

The contents of an application for consent are binding and are used as a basis for the authorities' supervision activities after the consent has been granted.

The applications for consent will be processed by Havtil, the Norwegian Environment Agency and the Norwegian Board of Health.

Enclosure D - Difference between an AoC and a Safety Case

The NCS shares many characteristics with the adjoining UK Continental Shelf (UKCS) and many MOUs move between these continental shelves on a semi-regular basis. The equivalent scheme to the AoC in the UK is called the Safety Case. A comparison between the AoC and Safety Case is shown below.

Table 8-1 Comparison of AoC and Safety Case

	AoC	SAFETY CASE
What is it?	A declaration issued to express the authorities' confidence that the MOU and its organization and management system can be operated in accordance with all requirements.	A document that gives confidence to operators, owners, workers and the competent authority, that the duty holder has the ability and means to control major accident hazards effectively.
Enforcing agency	The Norwegian Ocean Industry Authority (Havtil) (from 1 Jan, 2024) Previously, the Petroleum Safety Authority (PSA)	Since the UK left the EU, the Offshore Major Accident Regulator (OMAR) is now the UK's Offshore Competent Authority (previously known as the Offshore Safety Directive Regulator (OSDR). OMAR is the Competent Authority (CA) responsible for regulating offshore major accident hazards. The Offshore Petroleum Regulator for Environment and Decommissioning (OPRED) and the Health and Safety Executive (HSE) work in partnership as OMAR to deliver the CA functions.
Regulatory basis	The Framework Regulations, Section 25 Application for Acknowledgement of Compliance for certain offshore mobile facilities.	The Offshore Installations (Offshore Safety Directive) (Safety Case etc.) Regulations 2015.
Management system requirements	Include description of established management and control systems in order to manage the MOU activities by means of references to relevant governing documents, manuals, handbooks, etc. The management and control systems shall address all HSE concerns. Quality assurance requirements should be described.	The arrangements within the Safety and Environmental Management System (SEMS) need to address all aspects of the organisation's health, safety and environmental arrangements and should be sufficient to manage and control risks associated with major accident hazards. As a minimum, the documented SEMS must address matters such as organisational structure, responsibilities, practices, procedures, processes and resources for determining the content of the CMAPP and the arrangements for implementing it.
Major accident hazards/ risks	All AoC applications shall contain a description of the HSE analyses and assessments that have been carried out for the facilities covered in the application, and the results and measures that will be implemented as a result of these assessments.	The duty holder must prepare (and include in its Safety Case) a written Corporate Major Accident Prevention Policy which establishes the overall aims and arrangements for controlling major accident risks and how those aims are to be achieved. Demonstrate that all Major Accident Hazards

	AoC	SAFETY CASE
		and Major Environmental Incidents have been identified, their likelihood and consequences have been evaluated, and that suitable measures, including the selection and deployment of associated safety and environmental-critical elements have been, or will be, taken to control those risks to ensure that the relevant statutory provisions will be complied with.
Safety and Environmental Critical Elements[14] (SECEs)	Requirements for risk reduction (Management Regulations §4) and barriers (Management Regulations §5) cover, to a large extent, the intention of SECE though the term "SECE" is not explicitly used. Performance requirements must be established.	SECEs means such parts of an installation and its plant (including computer programmes) - the failure of which could cause or contribute substantially to a major accident; or a purpose of which is to prevent, or limit the effect of, a major accident.
Verification scheme	The responsible party shall determine the need for and scope of verifications, as well as the verification method and its degree of independence, to document compliance with HSE legislation.	Formal written verification scheme where the description of how the SECEs are to be kept available at the standard defined in the performance standards. The overall objective of the verification scheme is to establish a system of independent and competent scrutiny of SECE's throughout the life cycle of an installation and to obtain assurance that the performance standards are achieved and maintained. A description of the verification scheme will be required as part of the Safety Case submission. This includes establishing Performance standards for SECEs; based on the risk assessment performed; to reduce the risks to people and the environment from major accident hazards according to relevant statutory provisions. The scheme provides independent and competent assessment of the SECEs against the requirements of the performance standards.
Independent competent person	Not applicable. The responsible party shall determine the degree of independence as part of the verification scheme.	In UK there is a mandatory requirement for an independent competent person (ICP)/Verifier to be engaged by the duty holder. The Verifier will formally issue a "initial suitability" statement which is a

[14] SECEs are defined in SCR15 as "such parts of an installation and such of its plant (including computer programmes), or any part thereof (a) the failure of which could cause or contribute substantially to; or (b) a purpose of which is to prevent, or limit the effect of, a major accident".

	AoC	SAFETY CASE
		prerequisite to start operations in the UKCS. this initial suitability statement is based on audits on engineering, maintenance, written verification scheme, performance standards, etc which will give a satisfactory perspective of safe operations for the unit.
Follow-up	The holder is at all times responsible for maintaining the AoC documentation, actual technical conditions and governing documents. The Holder shall inform Havtil if the conditions for the AoC have changed.	A yearly verification is made on-board according to the written verification scheme/performance standards previously commented and approved by the Verifier. Managing potential deviations found during this verification is part of the yearly activities and interfaces between duty holder and Verifier. The Safety Case requires a formal 5 yearly thorough review process, as a minimum commented by an independent party, where potential modifications, reviews, updates, on the people, plant and process are to be analysed and reflected

The regulatory basis for the AoC scheme is described in Chapter 2. The regulatory basis for the Safety Case is shown in Table 8-2 below:

Table 8-2 showing relevant UK acts and regulations for the Safety Case

UK LEGISLATION	DESCRIPTION
The Health and Safety at Work, etc. Act 1974	Primary legislation which imposes the duty on the employer / owner of work premises (the duty holder) to safeguard the health, safety (and welfare) of people who may be affected by his undertakings. Almost all safety regulation in the UK is under this Act.
The Offshore Installations (Offshore Safety Directive) (Safety Case etc.) Regulations 2015	The primary aim of the SCR 2015 is to reduce the risks from major accident hazards to the health and safety of the workforce employed on offshore installations or in connected activities. These Regulations also aim to increase the protection of the marine environment and coastal economies against pollution and ensure improved response mechanisms in the event of such an incident.
The Offshore Installations and Pipeline Works (Management and Administration) Regulations 1995 (MAR)	MAR covers such matters as the appointment of installation managers, the use of permit-to-work systems, communication arrangements, helideck operations, records of persons on board and the collection of meteorological and oceanographic information.
The Offshore Installations (Prevention of Fire & Explosion, and Emergency Response) Regulations 1995 (PFEER)	PFEER requires a risk-based systematic approach to managing fire and explosion hazards including preventing fires and explosions on offshore installations, protecting people from the effects of any which do occur and measures to secure effective emergency response.

UK LEGISLATION	DESCRIPTION
The Offshore Installations and Wells (Design and Construction, etc.) Regulations 1996 (DCR)	DCR is in two volumes, relating to the integrity of installations and wells respectively. Regulations include requirements for safeguarding the integrity of an installation / well throughout its life cycle, from design and construction, through operation and maintenance, to decommissioning and dismantling.
Offshore Installations (Safety Representatives and Safety Committees) Regulations 1989 (OSRSCR)	OSRSCR places a duty on the installation operator or owner to consult safety representatives appointed under those Regulations on the preparation, review and revision of a Safety Case for the installation.
The Management of Health and Safety at Work Regulations, 1999	These are very broad regulations that require the duty holder to put in place a (written) management system, assign competent people / supervision / etc., and conduct risk assessments for any activities that are a risk to the health and safety of people.
The Provision and Use of Work Equipment Regulations of 1998 (PUWER)	PUWER places duties on employers who own, operate or have control over work equipment. PUWER also places responsibilities on businesses and organisations whose employees use work equipment, whether owned by them or not.

Links: • *Offshore health and safety law, HSE website*

Enclosure E - Technical norms and standards for the different areas on a MOU

Where the Framework Regulations (FR) Section 3 is applied differently within one SFI group based on use of the equipment/system, the SFI coding is complemented by letters to indicate: A- DRILLING EQUIPMENT AND SYSTEMS, B – PRODUCTION EQUIPMENT AND SYSTEMS, C – WELL INTERVENTION EQUIPMENT AND SYSTEMS.

The full name of NMA Regulations and Class Rules referred to in this table are given in appendixes A and B.

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
CHAPTER I	**INTRODUCTORY PROVISIONS**			
Section 1	**Scope**			
Section 2	**Responsibilities**			
Section 3	**Definitions**			
CHAPTER II	**GENERAL PROVISIONS**			
Section 4	**Choice of development concept**			
Section 5	**Design of facilities**			
Internal ref.: Sec.7 Sec.11 Sec.-13 Chapter IV	Management Regulations, Ch.II Management Regulations, Sec.5 Management Regulations, Ch.V Framework Regulations, Sec.11 Regulations 602/2009 on hazardous substances(in Norwegian only) Regulations 922/2002 on explosive substances (in Norwegian only) NORSOK S-001 NORSOK S-002 NORSOK R-002 NORSOK U-100, Ch.7.6	11 – Other; Arrangement Hazardous area	Yes	NMA Construction NMA Living Quarters NMA Fire and explosion
		34B - Loadbearing Structure for Process Equipment	Yes	NMA Production plants

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	NS-EN ISO 13702 w/appendices IEC 61892-7 Alternatively: DNV-OS-A101			
Section 6	**Design of simpler facilities without accommodation**			
Section 7	**Main safety functions**			
		11 - Other; Arrangement Escape ways	Yes	NMA Construction NMA Living Quarter NMA Fire and explosion
		51 - Insulation, panels, bulkheads, doors, side scuttles, windows, skylight	Yes	NMA Construction, Sec.6 NMA Living Quarters, Sec.6 NMA Fire and explosion, Sec.19-21
Section 8	**Safety functions**			
Internal ref.: Sec.5	Management Regulations, Sec.4 & 5 Activities Regulation, Sec.26 NORSOK I-002, Ch.4 NORSOK S-001 IEC 61508 ISO 13849 NS-EN ISO 13702 Offshore Norge Guideline No.070	331B - Process Shut Down (PSD)	No	
		332B - Emergency Shut Down (ESD)	No	
		333B - De-pressurisation, Safety Valves, Corresponding Flare System	No	
		334B - Open Drain for Process Facility	No	
		79 - Automation systems for machinery	Yes, regarding technical requirements No, regarding ergonomic (human factor) requirements	NMA Ballast NMA Stability NMA Fire and explosion NMA Risk analyses, Sec.22 DNV-OS-D202 DNV-OS-D101

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
				Note I: Ref. Sec. 63 (SFI 408) for dynamically positioned facilities *Note II:* The structure of this alternative is presupposing that requirements regarding control systems for ballast water, bilge, watertight closures and fire/gas detection systems are evaluated under this alternative
CHAPTER III	**OVERALL JOINT REQUIREMENTS**			
Section 9	**Qualification and use of new technology and new methods**			
Section 10	**Installations, systems and equipment**			
Internal ref.: Sect. 5	Working Environment Act Norwegian Labour Inspection Authority, Law mirror Regulations 1357/2011 Conduct of work regulations NORSOK D-001 NORSOK D-002 NORSOK L-002 NORSOK L-004 NORSOK P-002 NORSOK R-001 NORSOK R-002 NORSOK S-002, Ch.5. and A12 I Annex A NORSOK U-001	26 - Turret	Yes	NMA Production plants, Sec.15
		30A - Derrick with components	No	
		31A - Drill floor equipment and systems	No	
		32A - Bulk and mud systems	No	
		33A - Well control equipment and systems	No	
		34A - Pipe handling equipment and systems	No	
		35A - Drill string and downhole equipment and systems	No	
		36A - Material handling equipment and systems	No	
		37A - Service equipment and systems	No	
		38A - Miscellaneous equipment, systems and services	No	
		39A - Marine riser, Riser Compensator	No	

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	NORSOK U-100 NORSOK U-101 NORSOK Z-015 NORSOK Z-DP-002 ISO 13628 IMCA/AODC 035 NS-EN ISO 11064 NS-EN ISO 20815 IEC 61892 Alternatively: DNV-OS-D101 DNV-OS-D201 DNV-OS-D202 DNV-OS-E101	and Drillstring		
		31B - Auxiliary Equipment, Dedicated Process Equipment	No	
		32B - Chemicals Equipment	No	
		36B - Offloading equipment	No	
		37B - Metering for oil & gas export/-injection, combustion gas, flaring of gas etc.	No	
		301B - Inlet from risers, manifolds, swivel etc. (field specific conditions)	No	
		302B - Separation Equipment (including water treatment)	No	
		303B - Compression Equipment	No	
		304B - Water Injection equipment	No	
		334B - Open Drain for Process Facility	No	
		30C - Drilling Derrick w/components	No	
		31C - Work floor, Equipment and Systems	No	
		32C - Bulk- and Drill Fluid Systems	No	
		33C - Well control, Equipment and Systems	No	
		36C - Material Handling, Equipment and Systems	No	
		38C – Miscellaneous equipment, systems and service	No	
		46 - VOC/blanket gas system	Yes	NMA Production plants
		441 - Machine tools, cutting & welding equipment	Yes	NMA Welding equipment
		442 - Tools/equip. for engineers, electr., boatswains, carpenters	Yes	NMA Welding equipment

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
		443 - Painting equipment, scaffolding, paint rafts/boats (gigs)	Yes	NMA Welding equipment
		444 - Cleaning equipment, garbage chutes	Yes	NMA Welding equipment
		445 - Garbage disposal plants, incinerators	Yes	NMA Welding equipment
		446 - Outfitting in store rooms & workshops	Yes	NMA Welding equipment
		447 - Clamps/foundations for spare parts	Yes	NMA Welding equipment
		65 - Motor aggregates for main electric power production	Yes	DNV-OS-D201 DNV-OS-D101
		70 - Fuel systems	Yes	DNV-OS-D101
		71 - Lube oil systems	Yes	DNV-OS-D101
		72 - Cooling systems	Yes	DNV-OS-D101
		73 - Compressed air systems	Yes	DNV-OS-D101
Section 10a	**Ignition source control**			
	NORSOK S-001, Ch.15 ISO 13702, Ch.8 EN 1127-1 Regulations 1849/2017 relating to equipment and safety systems for use in areas with explosion hazard (in Norwegian only) As regards mobile facilities: MODU Code, Ch.6.6 and 6.7.2	65 - Motor aggregates for main electric power production	Yes No, for production plant	DNV-OS-D201 DNV-OS-D101
		66 - Other aggr. & gen. for main & emergency el. power production	Yes, regarding emergency power No, regarding quantity and quality of emergency lighting No, for production plant	NMA Construction, Sec.11-12 NMA Production plants DNV-OS-D101 *Note*: For accommodation units, ref. is made to DNV-RU-OU-0101, Ch.2

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
		74 - Exhaust systems and air intakes	Yes No, for production plant	NMA Fire and explosion, Sec.24, 25, 26 DNV-OS-A101 Ch.2 Sec.2 §3.2, Sec.3 [1)] DNV-OS-D101 Ch.2 Sec.4 §11 [1)] DNV-OS-E101 Ch. 2 Sec.1 §4.3 [1)]
		85 - Electrical systems general part	Yes No, for production plant	NMA Construction (referring to 89/336/EEC and 92/31/EEC) DSB Regulations 1450/2001 relating to maritime electrical systems
		86 - Electrical power supply	Yes No, for production plant	DSB Regulations 1450/2001 relating to maritime electrical systems
		87 - Electrical distribution common systems	Yes No, for production plant	DSB Regulations 1450/2001 relating to maritime electrical systems *Note*: Refer to Sec. 63 (SFI 408) for dynamically positioned facilities
		88 - Electrical cable installation	Yes No, for production plant	DSB Regulations 1450/2001 relating to maritime electrical systems *Note*: Refer to Sec. 63 (SFI 408) for dynamically positioned facilities
		89 - Electrical consumers (lighting etc.)	Yes No, for production plant	NMA Construction, Sec.6a, 12, 19 DSB Regulations 1450/2001 relating to maritime electrical systems

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
[1] Only relevant for ventilation in hazardous areas				
Section 11	**Loads/actions, load/action effects and resistance**			
Internal ref.: Sec.3 Sec.5 Sec.7	Framework Regulations, Section 11 NORSOK D-001, Ch.5, 6 NORSOK D-010, Ch.4, 5 NORSOK L-002, Ch.6 NORSOK N-001 NORSOK N-003 NORSOK N-004 NORSOK S-001 NORSOK Z-013, Annex B ISO 13623, Ch.6 API 17J, Ch.5 Alternatively: DNV-OS-A101, Ch.2 DNV-ST-F101, Sec.3, 4, 5 DNV-ST-F201, Sec.3, 4, 5	2 - Hull and Structure	Yes	NMA Construction, Sec.6, Sec.7 and Sec.10, implications of NMA Stability, Sec.22 and Sec.30 and the following standards: DNV-OS-C101 DNV-OS-C102 DNV-OS-C103 DNV-OS-C104 DNV-OS-A101 The DNV-OS that will be applied when using Sec. 3 in FR are the same as those referred to in FacR.
		30A - Derrick with components	No	
		31B - Auxiliary Equipment, Dedicated Process Equipment	No	
		32B - Chemicals Equipment	No	
		34B - Loadbearing Structure for Process Equipment	Yes	NMA Production plants
		301B - Inlet from risers, manifolds, swivel etc. (field specific conditions)	No	
		302B - Separation Equipment (including water treatment)	No	
		303B - Compression Equipment	No	
		304B - Water Injection equipment	No	

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Section 12	**Materials**			
Internal ref.: Sec. 11	NORSOK M-001 NORSOK M-004 (replaces R-004) NORSOK M-101 NORSOK M-501 NORSOK M-503 NORSOK M-601 NORSOK N-001 DNV-ST-F101, Sec.6, 7 DNV-ST-F201, Sec.7 API 17J, Ch 6 ISO 13623, Ch. 8 ISO 1182 ISO 1716 ISO 5657 ISO 5660-1 ISO 9705 NT Fire 036 for testing of pipeline insulation IMO Resolution A.471 (XII) IMO Resolution A.653 (16) IEC 60331 IEC 60332 Alternatively: DNV-OS-B101 DNV-OS-C102, Ch.2	20 - Hull materials, general hull work	Yes	Referenced standards in FacR are the same as those applied when using Sec. 3 in FR, with the exception of the NORSOK references. The choice will hence be whether or not NORSOK shall be applied.
		27 - Material protection, external	Yes	Referenced standards in FacR are the same as those applied when using Sec. 3 in FR, with the exception of the NORSOK references. The choice will hence be whether or not NORSOK shall be applied.
		28 - Material protection, internal	Yes	Referenced standards in FacR are the same as those applied when using Sec. 3 in FR, with the exception of the NORSOK references. The choice will hence be whether or not NORSOK shall be applied.
		31B - Auxiliary Equipment, Dedicated Process Equipment	No	
		32B - Chemicals Equipment	No	
		34B - Loadbearing Structure for Process Equipment	Yes	NMA Production plants
		301B - Inlet from risers, manifolds, swivel etc. (field specific conditions)	No	
		302B - Separation Equipment (including water treatment)	No	
		303B - Compression Equipment	No	
		304B - Water Injection equipment	No	

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	DNV-OS-C103, Ch.2 DNV-OS-C104, Ch.2			
Section 13	**Materials handling and transport routes, access and evacuation routes**			
Internal ref.: Sec.20 Sec.70	Regulations concerning organisation, management and employee participation, Sec.10-1 The Workplace Regulations, Sec.2-5,2-18,2-25 Regulations concerning the performance of work, section 17 Regulations concerning construction, design and production of work equipment and chemicals (Norwegian only), Ch.4 NMA Construction, Sec.14-17 NORSOK C-001, Ch.7.28 and 7.15 NORSOK C-002, Ch.5, 6 NORSOK R-002, Appendix B NORSOK S-001, Ch.6, 7, 22 NORSOK S-002, Ch.6.1, 6.2, 6.2.1, 6.3 and 8.1 DNV-ST-0358 Alternatively: DNV-OS-A101 NSA Norm for physical-chemical working environment, Ch.5.2.6.3	11 - Other; Arrangement Escape ways	Yes, regarding access, transport routes and escape ways (incl. stairs) No, regarding thresholds and ladders	NMA Construction NMA Living Quarters NMA Fire and explosion NMA Evacuation and life-saving appliances, Sec.8
		36C - Material Handling, Equipment and Systems	No	
Section 14	**Ventilation and indoor climate**			

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Internal ref.: Sec.22	NLIA 444 Guidelines on climate and air quality NIPH Recommended technical standards for indoor climate NORSOK H-003 NORSOK S-001, Ch.17.4 NORSOK S-002, Ch.7.5 and 7.7 NORSOK U-100, Ch.5.2.2, 5.2.3 NS-EN ISO 15138 Alternatively: DNV-OS-D101, Ch.2 Sec.4 NSA Norm for physical-chemical working environment	11 - Other; Working environment	No	
		57 - Ventilation, air-conditioning and heating system	Yes, regarding fire protection No, regarding working environment No, for production plant	NMA Fire and explosion NMA Construction NMA Living quarters NMA Stability, Sec.18 DSB Regulations 1450/2001 relating to maritime electrical systems DNV-OS-A101 DNV-OS-D101
Section 15	**Chemicals and chemical exposure**			
Internal ref.: Sec.5 Sec.36	Activities Regulation, Chapter XI Regulations 1357/2011 concerning the performance of work, Sec.2, 3 (except 3-23, 3-24, 3-27), 4 (except 4-4), 7, 12-6, 31-1, 31-6, 31-7 Regulations 1358 /2011 concerning action and limit values, Sec.5, App. 1 The Workplace Regulations 1356/2011, Sec.4-1, 7-1, 7-2, 7-3, 7-4 Regulations 1355/2011 concerning organisation, management and employee participation, Sec.2-1, 10-1, 10-6, 11-1, 14-6	11 - Other; Working environment	No	
		32B - Chemicals Equipment	No	

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	Act 62/2005 relating to work environment, Sec.3-1, 4-5, 5-3, 18-1 Regulations 922/2002 on explosive substances (in Norwegian only), Ch.7 NORSOK P-002, Ch.20 NORSOK S-002, Ch.6.1, 6.2.9., 6.3, 7.5, 7.7.2 and A2 and A.7 in Annex A Alternatively: NSA Norm for physical-chemical working environment, Sec.5.2.1			
Section 16	**(Repealed by Regulations 23 December 2013)**			
Section 17	**Instrumentation for monitoring and recording**			
	Activities Regulations, Ch.X Management Regulations, Sec.19 CAA Regulations 526/2021 relating to flight weather service (in Norwegian only) CAA Regulations 604/2019 relating to use of offshore helicopter deck (in Norwegian only) NS_EN ISO 19901-1:2015, Pt.1	37B - Metering for oil & gas export/-injection, combustion gas, flaring of gas etc.	No	
		417 - Miscellaneous nautical equipment	No	
Section 18	**Systems for internal and external communication**			
	Activities Regulations, Sec.77	425 - Calling systems, command telephone, telephone plants, walkie-	Yes	NMA Fire and explosion, Sec.14, 22, 23, 25, 26

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	NORSOK S-001, Ch.18 NORSOK T-003 NORSOK T-101 NORSOK U-100, Ch.7.14	talkies, etc.		NMA Cranes and lifting operations NMA Radio equipment NMA Construction, Sec.21 NMA Anchoring, Sec.12 Specific requirements for alarm systems, see Sec. 32 (SFI 811)
		811 - Fire detection, fire and lifeboat alarm systems	Yes, except for specific requirements for sound and light alarms	NMA Fire and explosion, Sec.14, 22-26 NMA Production plants, Sec.21-22
Section 19	**Communications equipment**			
	Management Regulations, Sec.17 NORSOK U-100, Ch.7.14	421 - Radio plant	Yes	NMA Radio equipment
		422 - Lifeboat radio transmitters, emergency radio, direction finder	Yes	NMA Evacuation and life-saving appliances, Sec.16, 28
CHAPTER IV	**DESIGN OF WORK AND COMMON AREAS**			
Section 20	**Ergonomic design**			
Internal ref.: Sec.21	Activities Regulations, Sec.34 NORSOK S-002, Ch. 6.1, 6.2, 6.3, 7.5.6, 7.8, 7.9, 8.1, 8.2 ISO 6385 Alternatively: NSA Norm for physical-chemical working environment, Sec.5.2.6	11 - Other; Working environment	No	

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Section 21	**Human-machine interface and information presentation**			
Internal ref.: Sec. 34a	NORSOK S-002, Ch.7.8.3, A.9 in Annex A NS-EN 614, Part 1 EN 894, Parts 1-3 Alternatively: NSA Norm for physical-chemical working environment, Sec.5.2.6.2	11 - Other; Arrangement Escape ways Hazardous area Winterization Working environment	No	
		331B - Process Shut Down (PSD)	No	
		332B - Emergency Shut Down (ESD)	No	
		333B - De-pressurisation, safety valves, corresponding flare system		
		334B - Open drain for process facility	No	
		79 - Automation systems for machinery	Yes	NMA Ballast NMA Stability NMA Fire and explosion NMA Risk analyses, Sec.22 DNV-OS-D202 DNV-OS-D101 Note I: Ref. Sec. 63 (SFI 408) for dynamically positioned facilities Note II: The structure of this alternative is presupposing that requirements regarding control systems for ballast water, bilge, watertight closures and fire/gas detection systems are evaluated under this alternative.
Section 22	**Outdoor work areas**			

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	NORSOK S-002, Ch.7.9 and A.8 in Annex A	11 - Other; Working environment	No	
		53 - External deck covering, steps, ladders, etc., fore-and-aft gangway	Yes	NMA Construction
		57 - Ventilation, air-conditioning and heating system	Yes, regarding fire protection No, regarding working environment	NMA Fire and explosion NMA Construction, Sec.7, 18 NMA Stability, Sec.18 DNV-OS-A101 DNV-OS-D101
Section 23	**Noise and acoustics**			
Internal ref.: Sec. 38	Activities Regulations, Sec.38 NORSOK S-002, Ch. 6.1, 6.3.1, 7.1, 7.2, 7.3, 7.4, 8.2 and A.5 in Annex A NORSOK U-100, Ch. 5.2.2.6 Alternatively: NSA Norm for physical-chemical working environment, Sec.5.2.2	11 - Other; Working environment	No	
Section 24	**Vibrations**			
	Regulations 1357/2011 concerning the performance of work, Sec.14-8, 14-9, 14-12, 14-13, 14-14 Regulations 1358/2011 relating to action values and threshold values, Sec. 3 Regulations 1355/2011 concerning organisation, management and employee participation, Sec.10-1, 14-6	11 - Other; Working environment	No	
		303B - Compression Equipment	No	

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	NS 4931 NORSOK S-002, Ch.6.1, 7.1, 7.2, 8.2 and A.5 in Annex A Alternatively: NSA Norm for physical-chemical working environment, Sec.5.2.3			
Section 25	**Lighting**			
	NORSOK S-002, Ch.7.6, 8.2 Alternatively: NSA Norm for physical-chemical working environment, Sec.5.2.4	11 - Other; Working environment	No	
Section 26	**Radiation**			
	Activities Regulations, Sec.37 NORSOK S-002, Ch.6.2.10	11 - Other; Working environment	No	
Section 27	**Equipment for personnel transport**			
	Activities Regulations, Sec.92 NORSOK R-002, Annex G	37A - Service equipment and systems	No	
		38A - Miscellaneous equipment, systems and services	No	
		561 - Personnel lifts, escalators	No, for lifting equipment on drill floor Yes, for other equipment	*Equipment for lifting personnel other than on drill floor:* NMA Cranes and lifting operations, Sec.25 *Lifts:* NMA Cranes and lifting operations, Sec.11

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Section 28	**Safety signs**			
	Regulations 1355/2011 relating to organization, management and participation, Sec.10-5 Regulations 1356/2011 relating to workplace, Sec.4-2, 5 Alternative for signs to response, rescue and evacuation equipment: NORSOK C-002 NS 6033	448 - Name plates (markings) on machinery, equipment, pipes cables	Yes	NMA Working environment NMA Evacuation and life-saving appliances, Sec.8
CHAPTER V	**PHYSICAL BARRIERS**			
Section 29	**Passive fire protection**			
Internal ref.: Sec. 11	NORSOK S-001, Ch.20 ISO 834 ISO 3008 ISO 3009 ISO 22899-1 Part 1 NT Fire 021 Alternatively: DNV-OS-A101, Ch.2 Sec.2 DNV-OS-D301	51 - Insulation, panels, bulkheads, doors, side scuttles, windows, skylight	Yes No, for production plant	NMA Construction, Sec.6 NMA Living Quarters, Sec.6 NMA Fire and explosion, Sec.19-21 NMA Production plants (?)
Section 30	**Fire divisions**			
Internal ref.: Sec.7 Sec.11	DNV-OS-A101, Ch.2 Sec.1 §3.6 ISO 3008 or NS 3907	51 - Insulation, panels, bulkheads, doors, side scuttles, windows, skylight	Yes No, for production	NMA Construction, Sec.6 NMA Living Quarters, Sec.6

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Sec.12 Sec.31	ISO 3009 or NS 3908 IMO Resolution A.754 (18) Alternatively: DNV-OS-D301, Ch.2 Sec. 1		plant	NMA Fire and explosion, Sec.19-21 NMA Production plants
Section 31	**Fire divisions in living quarters**			
	NORSOK S-001, Ch.20.4.6	51 - Insulation, panels, bulkheads, doors, side scuttles, windows, skylight	Yes	NMA Construction, Sec.6 NMA Living Quarters, Sec.6 NMA Fire and explosion, Sec.19-21 NMA Production plants (?)
Section 32	**Fire and gas detection system**			
Internal ref.: Sec.33 Sec.36 Sec.37	NORSOK S-001, Ch.13, 14 NS-EN ISO 13702 with App. B.6 Alternatively: DNV-OS-D301, Ch.2 Sec.4	811 - Fire detection, fire and lifeboat alarm systems	Yes, except for specific requirements for sound and light alarms (NORSOK S-001 Ch.18) No, for production plant	NMA Fire and explosion, Sec.22-25 NMA Production plants, Sec.21-22
Section 33	**Emergency shutdown system**			
Internal ref.: Sec.5 Sec.7	NORSOK S-001, NS-EN ISO 13702 Alternatively: DNV-OS-A101, Ch.2 Sec.4	332B - Emergency Shut Down (ESD)	No	
		333B - De-pressurisation, Safety Valves, Corresponding Flare System	No	
		812 - Emergency shutdown system	Yes, for the drilling	NMA Fire and explosion, Sec.26

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
			unit part No, for process plant (well testing facilities shall be considered as a process for a drilling unit)	NMA Production plants, Sec.30-31
Section 34	**Process safety system**			
	NORSOK P-002 API RP 520/NS-EN ISO 4126 API 521 ISO 10418	331B – Process Shut Down (PSD)	No	
		812 – Emergency shutdown system	Yes, for the drilling unit part No, for process plant (well testing facilities shall be considered as a process for a drilling unit)	NMA Fire and explosion, Sec.26 NMA Production plants, Sec.30-31
Section 34a	**Control and monitoring system**			
	Offshore Norge Guideline No. 104 EN 62682 EEMUA 191	79 - Automation systems for machinery	Yes, regarding technical requirements No, regarding ergonomic (human factor) requirements No, for production plant and drilling	NMA Ballast NMA Stability NMA Fire and explosion NMA Risk analyses, Sec.22 DNV-OS-D202 DNV-OS-D101 *Note I:* Ref. Sec. 63 (SFI 408) for dynamically positioned facilities

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
				Note II: The structure of this alternative is presupposing that requirements regarding control systems for ballast water, bilge, watertight closures and fire/gas detection systems are evaluated under this alternative.
		811 – Fire detection , fire and lifeboat alarm system	Yes, except for specific requirements for sound and light alarms	NMA Fire and explosion, Sec.22, 23, 25 NMA Production plants
Section 35	**Gas release system**			
Internal ref.: Sec. 11	NORSOK S-001, Ch.12 NORSOK P-002, Ch.21 NS-EN ISO 13702, Ch.7, App. B.2 API 521	331B - Process Shut Down (PSD)	No	
		812 - Emergency shutdown system	Yes, for the drilling unit part No, for process plant (well testing facilities shall be considered as a process for a drilling unit)	NMA Fire and explosion, Sec.26 NMA Production plants, Sec.30-31
Section 36	**Firewater supply**			
Internal ref.: Sec. 37	Activities Regulations, Sec.62 NORSOK S-001, Ch.21 Alternatively: DNV-OS-A301, Ch.2 Sec.3, 6, 7	813 - Fire/wash down, fire pumps, sprinklers 814 - Firefighting systems for external fires 815 - Firefighting systems w/gas 816 - Firefighting systems w/foam 817 - Firefighting systems w/steam 818 - Firefighting systems w/powder 819 - Firefighting systems w/other agents	Yes, for drilling units No, for production units	NMA Fire and explosion, Sec.6-9 NMA Production plants, Sec.23-24 NMA Helicopter decks, Sec.35, 37 DNV-OS-D101 (Ch.2 Sec.1, 2 & 6)

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Section 37	**Fixed fire-fighting systems**			
	Product Control Act 79/1976, Sec. 3a (in Norwegian only) NORSOK S-001, Ch.21 NS-EN ISO 13702, Ch.12, App. B.8 Alternatively: DNV-OS-D301, Ch.2 Sec.3, 4, 7, 8	813 - Fire/wash down, fire pumps, sprinklers 814 - Firefighting systems for external fires 815 - Firefighting systems w/gas 816 - Firefighting systems w/foam 817 - Firefighting systems w/steam 818 - Firefighting systems w/powder 819 - Firefighting systems w/other agents	Yes, for drilling units No, for production units	NMA Construction, Sec.21 NMA Fire and explosion, Sec.6-15 NMA Helicopter decks, Sec.35-38, 41 DNV-OS-D101 (Ch.2 Sec.1, 2 & 6)
Section 38	**Emergency power and emergency lighting**			
	NORSOK R-002, Ch.5.15 NORSOK S-001, Ch.19 NS-EN ISO 13702, Ch.10, App. C.1 IMO 2009 MODU CODE, Ch.5 EN 1838	66 - Other aggregates and generators for main and emergency power productions	Yes	NMA Construction, Sec.11-12 NMA Production plants DNV-OS-D101 *Note*: For accommodation units, ref. is made to DNV-RU-OU-0101, Ch.2 Sec.4
		85 - Electrical systems general part	Yes	NMA Construction (referring to 89/336/EEC and 92/31/EEC) DSB Regulations 1450/2001 relating to maritime electrical systems
Section 39	**Ballast system**			
	NMA Ballast NORSOK S-001, Ch.24.4 DNV-OS-D101, Ch.2 Sec.3	80 - Ballast and bilge systems, gutter pipes outside accommodation	Yes, regarding system design No, regarding environmental	NMA Ballast DNV-OS-D101 (Ch.2 Sec. 1, 2, 3 & 6) For self-elevating Units;

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
			requirements (Act. Reg. Sec. 60)	DNV-OS-D101
Section 40	**Open drainage systems**			
	Activities Regulations, Ch.XI NORSOK S-001, Ch.9, 24 NORSOK P-002, Ch.28 NS-EN ISO 13702, Ch.9, App. B.4	334B - Open Drain for Process Facility	No	
		80 - Ballast and bilge systems, gutter pipes outside accommodation	Yes, regarding system design No, regarding environmental requirements (Act. Reg. Sec. 60)	NMA Ballast NMA Pollution (Ch.2 Sec.1, 2, 3 & 6) For self-elevating Units: DNV-OS-D101
CHAPTER VI	**EMERGENCY PREPAREDNESS**			
Section 41	**Equipment for rescue of personnel**			
Internal ref.: Sec. 5 lit. c Sec. 69	Activities Regulations, Sec.77	501 - Lifeboats with equipment	Yes	NMA Evacuation and life-saving appliances
Section 41a	**Evacuation and rescue means for manned underwater operations**			
Internal ref.: Sec. 9	Activities Regulations, Sec.77, literas c and d Framework Regulations, Sec.19 IMCA D 051 Hyperbaric Evacuation Systems (HES) Interface Recommendations NORSOK U-100	483 - Diving equipment	No	
Section 42	**Materials for action against acute pollution**			

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	Framework Regulations, Ch.II Management Regulations, Sec.17	489 - Environmental protection equipment	No	
Section 43	**Emergency preparedness vessels**			
Section 44	**Means of evacuation**			
	Activities Regulations, Sec.73 Activities Regulations, Sec.77, lit. d	501 - Lifeboats with equipment	Yes [2)]	NMA Evacuation and life-saving appliances [2)]
	DNV-OS-C101 DNV-ST-E406 NORSOK N-001 NORSOK S-001, Ch.22 ISO 19900	502 - Life rafts with equipment	Yes [2)]	NMA Evacuation and life-saving appliances [2)]
[2)] Havtil requires the personnel weight to be 100kg according to the Facilities Regulations § 44 (guideline)				
Section 45	**Survival suits and life jackets, etc.**			
	Management Regulations, Sec.17	503 - Lifesaving, safety and emergency equipment	Yes	NMA Evacuation and life-saving appliances
Section 46	**Manual fire-fighting and firefighter's equipment**			
	NORSOK S-001, Ch.21.4.7, 23.4.6 NS-EN ISO 13702, App. B.8.12	505 - Loose firefighting apparatuses and equipment, firemen's suit	Yes	NMA Fire and explosion, Sec.12-15
CHAPTER VII	**ELECTRICAL INSTALLATIONS**			
Section 47	**Electrical installations**			
Internal ref.: Sec.5	Regulations relating to electrical power installations 1626/2005 (in	65 - Motor aggregates for main electric power production	Yes	DNV-OS-D101 Ch.2 Sec.5 DNV-OS-D201

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Sec.10 Sec.38 Sec.77 Sec.78	Norwegian only) Radiation Protection Regulations 1659/2016 (in Norwegian only) Section 26 IEC 61892 IEC 61892-2 (2012) Corr. 1 IEC 60092 Alternatively: DNV-OS-D201	85 - Electrical systems general part	Yes	NMA Construction (referring to 89/336/EEC and 92/31/EEC) NMA Life-saving appliances, Sec.20 DSB Regulations 1450/2001 relating to maritime electrical systems
		86 - Electrical power supply	Yes	DSB Regulations 1450/2001 relating to maritime electrical systems
		87 - Electrical distribution common systems	Yes	DSB Regulations 1450/2001 relating to maritime electrical systems *Note*: Refer to Sec. 63 (SFI 408) for dynamically positioned facilities
		88 - Electrical cable installation	Yes	DSB Regulations 1450/2001 relating to maritime electrical systems *Note*: Refer to Sec. 63 (SFI 408) for dynamically positioned facilities
		89 - Electrical consumers (lighting etc.)	Yes	NMA Construction Sec.6a, 12, 19 DSB Regulations 1450/2001 relating to maritime electrical systems
CHAPTER VIII	**DRILLING AND WELL SYSTEMS**			
Section 48	**Well barriers**			
Internal ref.: Sec.8 Sec.11	Management Regulations, Sec.5 NORSOK D-010, Ch.4, 5, 9, 15	33A - Well control equipment and systems	No	
		33C - Well control, equipment and systems	No	

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Section 49	**Well control equipment**			
	NORSOK D-001, Ch.5, 6, Annex A, B, C NORSOK D-002 NORSOK D-010, Ch.5.7.2 Alternatively: DNV-OS-E101, Ch.2 Sec.5 §3	33A - Well control equipment and systems	No	
		33C - Well control, equipment and systems	No	
Section 50	**Compensator and disconnection systems**			
Internal ref.: Sec.5 lit. c Sec.11	Management Regulations, Sec.17 NORSOK D-001, Ch.5, 6 alternatively: DNV-OS-E101, Ch.2 Sec.5 §4	33A - Well control equipment and systems	No	
		33C - Well control, Equipment and Systems	No	
		38A - Miscellaneous equipment, systems and services	No	
		39A - Marine riser, Riser Compensator and Drillstring	No	
Section 51	**Drilling fluid system**			
Internal ref.: Sec. 8 Sec. 15 Sec. 17	Management Regulations, Sec.5 NORSOK D-001, Ch.5, 6 Alternatively: DNV-OS-E101, Ch.2 Sec. 5 §7	32A - Bulk and mud systems	No	
		32C - Bulk- and Drill Fluid Systems	No	
		74 - Exhaust systems and air intakes	Yes	NMA Fire and explosion, Sec.24-25 NMA Evacuation and life-saving appliances, Sec.24-26 DNV-OS-A101 Ch.2 Sec.2 §3.2, Sec.3 [3)] DNV-OS-D101 Ch.2 Sec.4 §11 [3)] DNV-OS-E101 Ch.2 Sec.1 §4.3 [3)] [3)] Only relevant for ventilation in hazardous areas

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
[3] Only relevant for ventilation in hazardous areas				
Section 52	**Cementing unit**			
Internal ref.: Sec.15	Pollution Control Act (in Norwegian only) NORSOK D-001, Ch.5, 6, Annex A, B, C Alternatively: DNV-OS-E101,, Ch.2 Sec.5 §7.4	32A - Bulk and mud systems	No	
Section 53	**Equipment for completion and well flow**			
Internal ref.: Sec.12	Resource Management Regulations NORSOK D-007 NORSOK D-010, Ch.6-8, 14-15 Alternatively: DNV-OS-E101, Ch.2 Sec.5 §9	31A - Drill floor equipment and systems	No	
		35A - Drill string and downhole equipment and systems	No	
		37A - Service equipment and systems	No	
		38A - Miscellaneous equipment, systems and services	No	
		38C - Miscellaneous, systems and service	No	
Section 54	**Christmas tree and wellhead**			
Internal ref.: Sec.8	Activities Regulations, Sec.47	36C – Material handling equipment and systems	No	

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Sec.33	Management Regulations, Sec.5 NORSOK D-010, Ch.7.7.2, 8, 15 NORSOK U-001 ISO 10423 ISO 13628	376C - Wellhead and tubular equipment	No	
		38C – Miscellaneous, systems and service	No	
CHAPTER IX	**PRODUCTION PLANTS**			
Section 55	**Production plants**			
Internal ref.: Sec.5 Sec.10 Sec.15	Activities Regulations, Sec.60 Activities Regulations, Sec.61a, 61b Framework Regulations, Ch.II Framework Regulations, Sec.45 NORSOK L-001 NORSOK L-002 NORSOK P-002 NORSOK U-001 ISO 13628	31B - Auxiliary Equipment, Dedicated Process Equipment	No	
		32B - Chemicals Equipment	No	
		301B - Inlet from risers, manifolds, swivel etc. (field specific conditions)	No	
		302B - Separation Equipment (including water treatment)	No	
		303B - Compression Equipment	No	
		304B - Water Injection equipment	No	
		46 - VOC/blanket gas system	Yes	NMA Production plants
CHAPTER X	**LOAD-BEARING STRUCTURES AND PIPELINE SYSTEMS**			
Section 56	**Load-bearing structures and maritime systems**			
Internal ref.: Sec.5	NORSOK N-001 NORSOK N-004	2 - Hull and structure	Yes	NMA Construction, Sec.6, Sec.7 and Sec.10, implications of

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Sec.7 Sec.11 Sec.39 Sec.62	NMA Construction NMA's Circular RSV 17-2016, point 6 DNV-OS-C104			NMA Stability, Sec.22 and Sec.30 and the following standards: DNV-OS-C101 DNV-OS-C102 DNV-OS-C103 DNV-OS-C104 DNV-OS-A101 Note: The DNV-OS that will be applied when using Sec. 3 in FR are the same as those referred to in FacR.
		34B - Loadbearing Structure for Process Equipment	Yes	NMA Production plants
Section 57	**Pipeline systems**			
CHAPTER XI	**LIVING QUARTERS**			
Section 58	**Living quarters**			
Internal ref.: Sec.20 Sec.61	Activities Regulations, Sec.14 Activities Regulations, Sec.19 NORSOK C-001 NORSOK C-002 NORSOK S-001 NORSOK S-002 alternatively:	11 - Other; Arrangement	Yes	NMA Construction, Sec.6, 6a, 7,, 12, ,, 15, 17, 18 NMA Living Quarters, Sec.6-15, 17-18 NMA Fire and explosion, Sec.11, 19
		52 - Internal deck covering, ladders, steps, railings etc.	Yes, regarding deck covering and railings No, regarding ladders	NMA Construction NMA Living Quarters Havtil Facilities Regulations Guidelines Sec. 58 (for conditions not covered by

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	NMA Living Quarters, Sec.6, 7, 8, 12, 13, 14, 15, 17 and 18		and thresholds	NMA regs)
		54 - Furniture, inventory and entertainment equipment	Yes No, regarding bunk beds	NMA Living Quarters Havtil Facilities Regulations Guidelines Sec. 58 (for conditions not covered by NMA regs)
		55 - Galley & pantry equipment, arrangement for provisions, ironing/drying equipment	Yes, regarding shape/ construction No, regarding working environment, lighting, ventilation etc. (NORSOK S-002)	NMA Living Quarters Havtil Facilities Regulations Guidelines Sec. 58 (for conditions not covered by NMA regs)
Section 59	**Health department**			
Internal ref.: Sec.38	Management Regulations, Sec.17 NORSOK C-001, Ch.7.21 Alternatively: NMA Living Quarters, Sec.16	504 - Medical and dental equipment, medicines and first aid equipment	Yes, regarding health department No, regarding emergency sickbay	NMA Living Quarters
Section 60	**Emergency sickbay**			
	Management Regulations, Sec.17 NORSOK C-001, Ch.7.21	504 - Medical and dental equipment, medicines and first aid equipment	Yes, regarding health department No, regarding emergency sickbay	NMA Living Quarters
Section 61	**Supply of food and drinking water**			
	Activities Regulations, Sec.13 Drinking water Regulations 1868/2016 (in Norwegian only)	76 - Distilled and make-up water systems	Yes	NMA Potable water systems

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	NORSOK P-002, Sec.27 NIPH Safe, Sufficient & Good Potable Water Offshore			
CHAPTER XII	**MARITIME FACILITIES**			
Section 62	**Stability**			
Internal ref.: Sec.39	NMA Stability, Sec.8-51 NORSOK N-001, Ch.7.10 NMA's circular RSV 17-2016, point 6	1 - Unit general	Yes	NMA Stability, Sec.8-51 For self-elevating units; DNV-OS-C301 NMA Production, Sec.17, §2-3
Section 63	**Anchoring, mooring and positioning**			
Internal ref.: Sec.11 Sec.50 Sec.56	Activities Regulations, Sec.90 NMA Anchoring, Sec.6-17 NORSOK N-001, Ch.7.11, 7.12 IMO MSC/Circular 645	26 - Turret	Yes	NMA Production plants, Sec.15
		43 - Anchoring, mooring and towing equipment	Yes	NMA Anchoring NMA Production plants Note: not applicable for Jack-ups
		408 - Dynamic positioning plant	Yes	NMA Anchoring (MSC/Circulars 1580 and 645)
Section 64	**Turret**			
	NMA Production, Sec.15 §1-4 NORSOK S-001, Ch.6.4.9	26 - Turret	Yes	NMA Production plants, Sec.15
CHAPTER XIII	**DIVING FACILITIES**			
Section 65	**Installations and equipment for manned underwater operations**			
CHAPTER XIV	**ADDITIONAL PROVISIONS**			

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
Section 66	**Loading and offloading systems**			
	Management Regulations, Sec.9 For FPSOs and FSUs: NMA Production, Sec.35 DNV-OS-E201, Ch.2 Sec.12 NORSOK N-001	36B - Offloading equipment	No	
Section 67	**Waste**			
	Activities Regulations, Sec.72	11 - Other; Arrangement	Yes	NMA Working environment, Sec.12
Section 68	**Exhaust ducts**			
Internal ref.: Sec.51	NORSOK S-001	74 - Exhaust systems and air intakes	Yes	NMA Fire and explosion, Sec.19, 24-25, 26 NMA Stability, Sec.18 DNV-OS-A101 Ch.2 Sec.2 §3.2, Sec.3 [4)] DNV-OS-D101 Ch.2 Sec.4 §11 [4)] DNV-OS-E101 Ch.2 Sec.1 §4.3 [4)]
[4)] Only relevant for ventilation in hazardous areas				
Section 69	**Lifting appliances and lifting gear**			
Internal ref.: Sec.13 Sec.80	NORSOK D-001, Ch.5, 6 NORSOK R-002 Error! Bookmark not defined. Offshore Norge Guideline No. 081 Remote Pipe Handling Operations NSA Guidelines for implementation of	31A - Drill floor equipment and systems [5)]	No	
		34A - Pipe handling equipment and systems[5)]	No	
		36A - Material handling equipment and systems[5)]	Yes, except for drill floor	NMA Cranes and lifting operations, Sec.25

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	EN 13852-1 on existing offshore cranes on mobile offshore units (built before 2007)	31C - Work floor, Equipment and Systems[5)]	Yes, except for drill floor	NMA Cranes and lifting operations, Sec.25
		36C - Material Handling, Equipment and Systems[5)]	Yes, except for drill floor	NMA Cranes and lifting operations, Sec.25
		45 - Lifting and transport equipment for machinery components	Yes	https://www.sdir.no/en/shipping/legislation/regulations/protective-environmental-and-safety-measures-on-mobile-offshore-units/ NMA Cranes and lifting operations, Sec.25
		501 – Lifeboats with equipment (launching and recovery appliances for rescue and evacuation means)	Yes	NMA Evacuation and life-saving appliances
		561 - Personnel lifts, escalators[5)]	Yes, except for drill floor	NMA Cranes and lifting operations, Sec.25 *Lifts:* NMA Cranes and lifting operations, Sec.11
		563 - Deck cranes	Yes	NMA Cranes and lifting operations NORSOK S-002 Working Environment (for working environment in crane cabin, and access to crane) See also NPD/PSA's letter of 22.12.2003

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
[5] NORSOK R-002 applies for lifting appliances and lifting gear in the drilling area; however the EU machine directive references in NORSOK R-002 is not applicable for offshore mobile facilities.				
Section 70	**Helicopter deck**			
	CAA Regulations relating to flight over the continental shelf 1181/2007 (in Norwegian only) NORSOK C-004, (except Ch. 14) NORSOK S-001, Ch.21.4.9	566 - Helicopter Platform w/equipment	Yes	NMA Helicopter decks
Section 71	**Marking of facilities**			
	Framework Regulations, Sec.1 Norwegian Coastal Administration - Provisions on the marking of permanently located offshore units in the petroleum industry	261 – Name plates, draught marks etc.	Yes	NMA Construction, Sec.13
		41 - Navigation and searching equipment	Yes	
		427 - Light and signal equipment (lanterns, whistles, etc.)	Yes	NMA Construction, Sec.13 NMA Helicopter decks, Sec.26
Section 72	**Marking of equipment and cargo**			
Section 73	**Lifts**			
Internal ref.: Sec. 13	NORSOK R-002, Annex E	561 - Personnel lifts, escalators	Yes , except for drill floor	*Equipment for lifting personnel other than on drill floor:* *Lifts:* NMA Cranes and lifting operations, Sec.11, 25
CHAPTER XV	**IMPLEMENTATION OF EEA REGULATIONS**			
Section 74	**(Repealed by regulations 26 April 2019)**			
Section 75	**Personal protective equipment**			
Section 76	**Aerosol containers**			
Section 77	**EMC**			
	Regulations relating to electrical equipment 1598/2017 (in Norwegian	85 - Electrical systems general part	Yes	NMA Construction, Sec.6a

Facilities Regulations	Referred regulations, standards, and guidelines in the Facilities Regulations	Relevant SFI system groups	FR Sec. 3 applicable?	Alternatives to the Facilities Regulations
	only) (the EE Regulations) Regulations relating to electromagnetic compatibility (EMC) for electronic communication 378/2016 (in Norwegian only) Council Directive 89/336/EEC Council Directive 92/31/EEC			(referring to 89/336/EEC and 92/31/EEC) DSB Regulations 1450/2001 relating to maritime electrical systems
Section 78	**(Repealed by regulations 26 April 2019)**			
Section 79	**(Repealed by regulations 26 April 2019)**			
Section 80	**Products not covered by the Facilities Regulations**			
CHAPTER XVI	**CONCLUDING PROVISIONS**			
Section 81	**Supervision, decisions, enforcement, etc.**			
Section 82	**Entry into force**			

Enclosure F - Applicability of the Framework Regulations section 3; MOU variations

Enclosure E covers and explains use of Framework Regulations (FR) Section 3 for mobile offshore units registered in a national ships' register and following a maritime operational model.

Whether selecting to apply FR Section 3 or not, all floating facilities on the NCS shall be in accordance with several requirements set forth by NMA. In the following some differences of applicability of maritime regulations and Framework Regulations Section 3 for different MOU types are highlighted. It should be emphasised that the following table describes applicability in an overall and broader view, hence what is the primary regulations to follow.

Legend to the following table

NA	Not applicable
FacR	Follow the Facilities Regulation directly
Maritime	Follow maritime regime according to Framework Regulations Section 3

Facilities Regulations	Drilling Unit and Well Intervention Unit	Accommodation Unit	Production (and storage) Unit	Storage Unit
Section 1 Scope	Information	Information	Information	Information
Section 2 Responsibilities	NA	NA	NA	NA
Section 3 Definitions	Information	Information	Information	Information
Section 4 Choice of development concept	NA	NA	NA	NA
Section 5 Design of facilities	Maritime	Maritime	FacR	Maritime
Section 6 Design of simpler facilities without accommodation	NA	NA	NA	NA
Section 7 Main safety functions	Maritime	Maritime	FacR	Maritime
Section 8 Safety functions	Maritime	Maritime	FacR	Maritime
Section 9 Qualification and use of new technology and new methods	Maritime	Maritime	Maritime	Maritime
Section 10 Installations, systems and equipment	Maritime	Maritime	Maritime[1]	Maritime
Section 10a Ignition source control	Maritime	Maritime	FacR	Maritime
Section 11 Loads/actions, load/action effects and resistance	Maritime	Maritime	FacR	Maritime
Section 12 Materials	Maritime	Maritime	Maritime	Maritime
Section 13 Materials	Maritime	Maritime	FacR	Maritime

[1] FacR shall be used for the production plant in production units and *Maritime* can be used for the vessel specific.

Facilities Regulations	Drilling Unit and Well Intervention Unit	Accommodation Unit	Production (and storage) Unit	Storage Unit
handling and transport routes, access and evacuation routes				
Section 14 Ventilation and indoor climate	Maritime[2]	Maritime[2]	FacR	Maritime[2]
Section 15 Chemicals and chemical exposure	FacR	FacR	FacR	FacR
Section 16 Flammable and explosive goods	Repealed by Regulations 23 December 2013			
Section 17 Instrumentation for monitoring and recording	FacR	FacR	FacR	FacR
Section 18 Systems for internal and external communication	Maritime[3]	Maritime[3]	Maritime[3]	Maritime[3]
Section 19 Communications equipment	Maritime[3]	Maritime[3]	Maritime[3]	Maritime[3]
Section 20 Ergonomic design	FacR	FacR	FacR	FacR
Section 21 Human-machine interface and information presentation	FacR	FacR	FacR	FacR
Section 22 Outdoor work areas	FacR	FacR	FacR	FacR
Section 23 Noise and acoustics	FacR	FacR	FacR	FacR
Section 24 Vibrations	FacR	FacR	FacR	FacR

[2] *Maritime* can be used for physical systems, FacR shall be used for indoor climate.
[3] Universal audio and visual alarms must follow FacR. Apart from alarm signals, *Maritime* can be used for design of internal/ external communication.

Facilities Regulations	Drilling Unit and Well Intervention Unit	Accommodation Unit	Production (and storage) Unit	Storage Unit
Section 25 Lighting	FacR	FacR	FacR	FacR
Section 26 Radiation	FacR	FacR	FacR	FacR
Section 27 Equipment for personnel transport	Maritime[4]	Maritime	Maritime	Maritime
Section 28 Safety signs	Maritime	Maritime	Maritime	Maritime
Section 29 Passive fire protection	Maritime	Maritime	FacR	Maritime
Section 30 Fire divisions	Maritime	Maritime	FacR	Maritime
Section 31 Fire divisions in living quarters	Maritime	Maritime	FacR	Maritime
Section 32 Fire and gas detection system	Maritime	Maritime	FacR	Maritime
Section 33 Emergency shutdown system	Maritime	Maritime	FacR	Maritime
Section 34 Process safety system	FacR	NA	FacR	FacR[5]
Section 34a Control and monitoring system	Maritime	Maritime	FacR	Maritime
Section 35 Gas release system	FacR	NA	FacR	NA
Section 36 Firewater supply	Maritime	Maritime	FacR	Maritime
Section 37 Fixed fire-fighting systems	Maritime	Maritime	FacR	Maritime
Section 38 Emergency power and emergency lighting	Maritime	Maritime	Maritime	Maritime
Section 39 Ballast syst.	Maritime	Maritime	Maritime	Maritime

[4] FacR shall be used for lifting equipment on the drill floor
[5] For storage units an evaluation needs to be done (of extent of PSD) and if necessary follow FacR.

Facilities Regulations	Drilling Unit and Well Intervention Unit	Accommodation Unit	Production (and storage) Unit	Storage Unit
Section 40 Open drainage systems	Maritime[6]	Maritime	FacR	Maritime[6]
Section 41 Equipment for rescue of personnel	Maritime	Maritime	Maritime	Maritime
Section 41a Evacuation and rescue means for manned underwater operations	FacR	FacR	FacR	FacR
Section 42 Materials for action against acute pollution	FacR	FacR	FacR	FacR
Section 43 Emergency preparedness vessels	FacR	FacR	FacR	FacR
Section 44 Means of evacuation	Maritime	Maritime	Maritime	Maritime
Section 45 Survival suits and life jackets, etc.	Maritime	Maritime	Maritime	Maritime
Section 46 Manual fire-fighting and firefighters' equipment	Maritime	Maritime	FacR	Maritime
Section 47 Electrical installations	Maritime	Maritime	FacR	Maritime
Section 48 Well barriers	FacR	NA	NA	NA
Section 49 Well control equipment	FacR[7]	NA	NA	NA
Section 50 Compensator and disconnection systems	FacR[7]	NA	NA	NA
Section 51 Drilling fluid system	FacR[7]	NA	NA	NA

[6] Environmental performance needs to be according to FacR.
[7] FacR shall be used, but FacR has direct reference to DNV-OS-E101.

Facilities Regulations	Drilling Unit and Well Intervention Unit	Accommodation Unit	Production (and storage) Unit	Storage Unit
Section 52 Cementing unit	FacR[7]	NA	NA	NA
Section 53 Equipment for completion and controlled well flow	FacR	NA	NA	NA
Section 54 Christmas tree and wellhead	FacR	NA	NA	NA
Section 55 Production plants	FacR	NA	FacR	FacR
Section 56 Load-bearing structures and maritime systems	Maritime	Maritime	Maritime	Maritime
Section 57 Pipeline systems	NA	NA	NA	NA
Section 58 Living quarters	Maritime[8]	Maritime[8]	Maritime[8]	Maritime[8]
Section 59 Health department	Maritime[8]	Maritime[8]	Maritime[8]	Maritime[8]
Section 60 Emergency sickbay	FacR	FacR	FacR	FacR
Section 61 Supply of food and drinking water	Maritime[9]	Maritime[9]	Maritime[9]	Maritime[9]
Section 62 Stability	Maritime	Maritime	Maritime	Maritime
Section 63 Anchoring, mooring and positioning	Maritime	Maritime	Maritime	Maritime
Section 64 Turret	NA	NA	Maritime[10]	Maritime[10]
Section 65 Installations and equipment for manned underwater	NA	NA	NA	NA

[8] *Maritime* can only be used for layout and design. FacR shall be used for working environment.
[9] *Maritime* can be used for technical layout. FacR (Norwegian Institute of Public Health) should be used for water quality and treatment systems.
[10] *Maritime* can be used for structure and equipment, FacR shall be used for process piping.

Facilities Regulations	Drilling Unit and Well Intervention Unit	Accommodation Unit	Production (and storage) Unit	Storage Unit
operations				
Section 66 Loading and offloading systems	NA	NA	Maritime[11]	Maritime[11]
Section 67 Waste	Maritime	Maritime	Maritime	Maritime
Section 68 Exhaust ducts	Maritime	Maritime	Maritime	Maritime
Section 69 Lifting appliances and lifting gear	Maritime[12]	Maritime	Maritime	Maritime
Section 70 Helicopter deck	Maritime	Maritime	Maritime	Maritime
Section 71 Marking of facilities	Maritime	Maritime	FacR	Maritime
Section 72 Marking of equipment and cargo	NA	NA	NA	NA
Section 73 Lifts	Maritime[12]	Maritime	Maritime	Maritime
Section 74 Simple pressure vessels	Repealed by Regulations 26 April 2019			
Section 75 Personal protective equipment	NA	NA	FacR	FacR
Section 76 Aerosol containers	NA	NA	FacR	FacR
Section 77 EMC	Maritime	NA	FacR	FacR
Section 78 ATEX	Repealed by Regulations 26 April 2019			
Section 79 Pressure equipment not covered by the Facilities Regulations	Repealed by Regulations 26 April 2019			

[11] The design of the stern on FPSOs and FSUs should conform to the NORSOK N-001 standard.
[12] Far shall be used for lifting equipment on the drill floor

Facilities Regulations	Drilling Unit and Well Intervention Unit	Accommodation Unit	Production (and storage) Unit	Storage Unit
Section 80 Products not covered by the Facilities Regulations	Maritime	Maritime	FacR	FacR
Section 81 Supervision, decisions, enforcement, etc.	NA	NA	NA	NA
Section 82 Entry into force	NA	NA	NA	NA


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