HANDBOOK FOR ACKNOWLEDGEMENT OF COMPLIANCE (AoC)

Revision 06, February 2020



PREFACE

The Acknowledgement of Compliance (AoC) scheme has a long history starting in year 2000 and made mandatory from 2004. The AoC handbook was last updated in 2015 to include a new layout and more use of active links in the document. In this revision the document follows the same structure and should be easily recognizable for the user.

It is in many ways different to operate on The Norwegian Continental Shelf (NCS) than in other parts of the world. To maintain a stable and recognizable framework for the mobile units the possibility to use maritime regulations is therefore crucial. This is sanctioned in the framework regulation section 3.

This handbook gives an overview of where the maritime regulations can be used as an alternative to the facility regulations.

The Norwegian Shipowners' Association (NSA) wish to especially thank the Norwegian Petroleum Authority (PSA) and the Norwegian Oil and Gas Association for their contribution to the update. DNV GL has been the main contributor to all editorial issues and has given valuable advice during the whole process. NSA also wish to thank our members in the reference group, consisting of Stena Drilling, Transocean and Odfjell Drilling.

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Revision 06 – February 2020

TABLE OF CONTENTS

| PREFACE | | | | | |
|---------|---|--|--|--|--|
| 1 | INT | RODUCTION | | | |
| | 1.1 | About the AoC scheme | | | |
| | 1.2 | About the AoC handbook | | | |
| 2 | WH | AT IS THE REGULATORY BASIS FOR A MOU ON THE NCS? | | | |
| | 2.1 | Introduction5 | | | |
| | 2.2 | The AoC regulatory framework5 | | | |
| | 2.3 | Working environment | | | |
| | 2.4 | Maritime regime9 | | | |
| | 2.5 | Use of technical requirements | | | |
| 3 | WH | AT DOES THE APPLICANT'S AOC PROCESS INCLUDE? | | | |
| | 3.1 | Introduction11 | | | |
| | 3.2 | Describe verification object (MOU)12 | | | |
| | 3.3 | Carry out gap analysis12 | | | |
| | 3.4 | Handle nonconformities | | | |
| | 3.5 | Choose types of verification methods15 | | | |
| | 3.6 | Perform verification activities16 | | | |
| | 3.7 | Qualification of the MOU17 | | | |
| | 3.8 | Develop application documentation | | | |
| 4 | НΟ | N DOES THE PSA PROCESS AN AOC APPLICATION? | | | |
| 5 | HOV | N IS THE AOC TO BE MAINTAINED? | | | |
| 6 | 6 REFERENCE LIST | | | | |
| 7 | TER | MS AND ABBREVIATIONS | | | |
| 8 | ENC | LOSURES | | | |
| E | Enclosure A - DNV GL and ABS Classification rules (only offshore class based standards) | | | | |
| E | Enclosure B - Difference between an AoC and a Consent | | | | |
| E | Enclosure C - Difference between an AoC and a Safety Case | | | | |
| E | Enclosure D - Technical norms and standards for the different areas on a MOU | | | | |
| E | Enclosure E - Applicability of the Framework Regulations section 3; MOU variations | | | | |

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 MOUs¹ 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 Petroleum Safety Authority (PSA). However, the Holder of the AoC is responsible for maintaining the AoC application documentation and informing PSA 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

1.2 About the AoC handbook

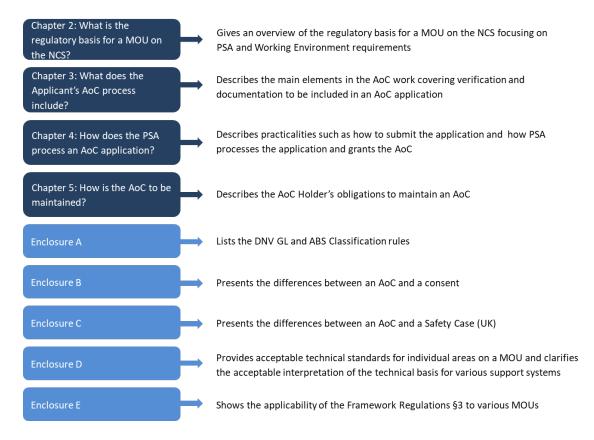
This Handbook has been developed to enable an efficient process for the Applicant in the development and qualification of material to be used in the application for the AoC. The Handbook also aids standardization of AoC applications.

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. Revision 06 – February 2020

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 the PSA.

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 PSA website, PSA regulations or relevant guidelines and published information.

"The Petroleum Safety Authority Norway 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 PSA's regulatory regime and relevant working environment regulations. According to PSA 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 the PSA, the 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 the PSA are shown in the figure below.

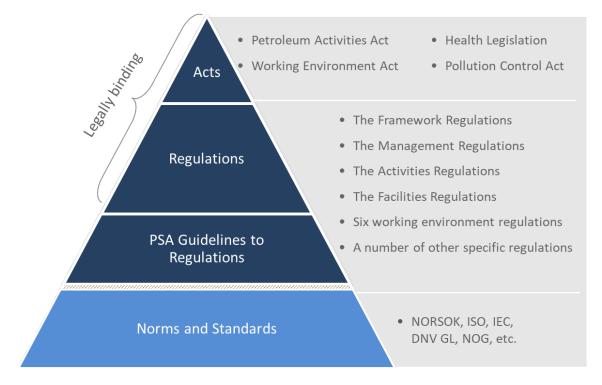


Figure 2-1: Health, safety and environment regulations enforced by PSA

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 concept² 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:



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.

 $^{^2}$ i.e. are registered in a national ship register. Revision 06 – February 2020

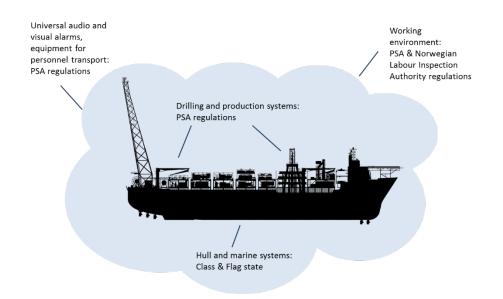


Figure 2-3: Application of regulations for MOUs

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.

The *Working Environment Act*, with some exceptions⁴, 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, PSA 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-OO1 Living quarters area* and *C-OO2 Architectural components and equipment* for mobile offshore units in order to fulfil the requirements in The Facilities Regulations *Section 13 Materials Handling*

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.

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.

Revision 06 – February 2020

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
 - 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

PSA 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 safety⁵. DNV GL and ABS classification rules are provided as an example in Enclosure A⁶.

NMA recognizes the following MOU classifications societies; DNV GL (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

Code for the construction and equipment of mobile offshore drilling units, MODU Code, IMO, 2010 Edition

Revision 06 – February 2020

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.

2.5 Use of technical requirements

Depending on the regime being followed, technical requirements for the various areas on a MOU are given in PSA'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 D 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.

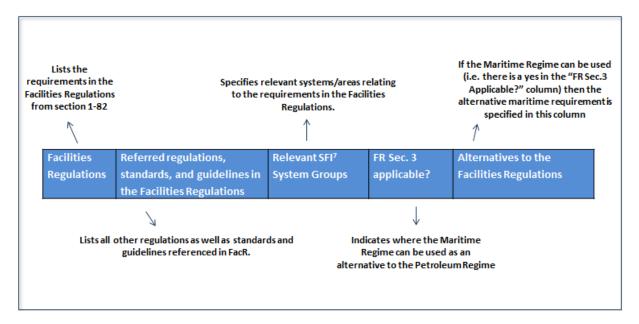


Figure 2-4: Explanation of heading to table in Enclosure D

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 D.

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 systematics⁸ 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.
 Revision 06 – February 2020

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 analysis⁹ 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 PSA and/or NMA regulations – see Enclosure D). 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 D.

 ⁹ Reference is made to Chapter 2 of this Handbook.
 Revision 06 – February 2020

| 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 PSA. |
| 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 PSA 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 PSA does not have to be informed. However, PSA 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, PSA has a clear recommendation to companies seeking an AoC:

"Learn from the errors of other owners by reading our audit reports from earlier cases. These are all published on our website, so the information is available to all", *PSA 2014*. /4/

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. PSA 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 PSA however PSA should be informed. For exemptions granted by other flag state authorities, the Applicant will need to re-apply for these exemptions to the PSA.

Any application for exemption should normally contain¹⁰:

- a. an overview of the provisions from which exemption is sought
- b. a statement of which special conditions that make the exception 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' representative¹¹ 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 PSA 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
- Identical letter Principles for handling nonconformities from the HSE regulations, PSA, January 2014

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 evidence¹² 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 auditsAudits 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 PSA 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 new buildings, field operator's planned verification activities may be considered part of the total verification if this has been agreed between those responsible for the new building 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 inservice 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 the PSA 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
- a list of exemptions

Support documentation

Many Applicants choose to use the International Association of Drilling Contractors (IADC) HSE Case Guidelines for Mobile Offshore Drilling Units, 1 January 2015 /5/, 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:

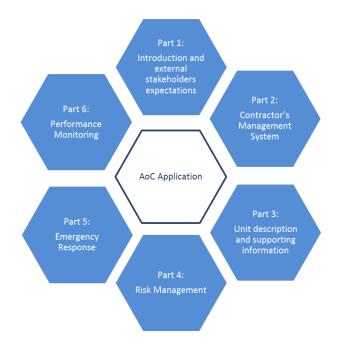


Figure 3-3: Contents of an AoC Application (based on the IADC Guidelines) Revision 06 – February 2020 The table below shows typical topics to be covered in each part.

| 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. |

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

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 the PSA 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 | rdous Protect ent | Mitigate | Rescue |
|---------------------------|--|---|--|--|--|
| 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 /*6/ 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, 1 January 2015
- Barrier management in operation for the rig industry Good Practices, March 2014

4 HOW DOES THE PSA 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 PSA

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

Submit application

An application containing documentation as detailed in Chapter 3.8 should be submitted to the PSA. 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

The PSA 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

The PSA 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 corrected before the AoC is granted. 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. See Chapter 3.4 Handle nonconformities.

Update Application

The Applicant should update the application documentation if required (i.e. if Applicant received comments from the PSA 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 which continental shelf it is operating on. The AoC can however not be transferred to a new owner.

"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 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 the PSA if the conditions for the AoC have changed.

It should be noted that the PSA 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 PSA 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 PSA to DNV GL, October 2019.

Communication between Operator-AoC Holder-PSA

The Operator

The Operator shall, well before the scheduled start of activities, submit an Application for Consent (AfC) to the PSA. 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 PSA 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 PSA.

The AoC Holder

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

The PSA

Furthermore, PSA 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 B.

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, the PSA issued a circular to the industry regarding maintenance of the AoC during lay-up and during operations in external waters (ref. /7/). 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, PSA 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 the PSA. When in layup in Norwegian waters, PSA may follow-up with audits/visits.

Returning the AoC

When disposing of a MOU, the Holder must return the AoC to the PSA. 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.ptil.no/en/supervision/acknowledgements-of-compliance/acknowledgements-of- compliance-aoc/ |
|-----|---|
| /2/ | https://www.ptil.no/en/about-us/role-and-area-of-responsibility/working-environmentour-role/ |
| /3/ | https://www.ptil.no/en/regulations/all-acts/the-framework-regulations3/III/19/ |
| /4/ | Ptil, Sikkerhet, status og signaler 2013-2014, 24.04.2014. |
| /5/ | HSE Case Guidelines for Mobile Offshore Drilling Units, IADC, 1 January 2015 |
| /6/ | Barrier management in operation for the rig industry – Good Practices, January 2015 |
| /7/ | Circular on maintenance of AoC for mobile facilities, PSA, December 2017 |

7 TERMS AND ABBREVIATIONS

The following terms are used in the Handbook and Enclosures:

| Applicant | Responsible body for operation of MOU who applies for an AoC | | |
|-----------|---|--|--|
| 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 | | |
| Operator | Anyone executing on behalf of the licensee the day to day management of the petroleum activities | | |
| 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 |
| 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 | Petroleum Safety Authority |
| UKCS | United Kingdom Continental Shelf |

8 ENCLOSURES

The following Enclosures support this Handbook:

| ENCLOSURE | CONTENT |
|-----------|---|
| Α | List of DNV GL and ABS Classification rules (only offshore class based standards) |
| В | Difference between an AoC and a Consent |
| С | Difference between an AoC and a Safety Case |
| D | Technical norms and standards for the different areas on a MOU |
| E | Applicability of Framework Regulations Section 3 – MOU variations |

Enclosure A - DNV GL and ABS Classification rules (only offshore class based standards)¹³

DNV GL

Offshore Classification Rules

- DNVGL-RU-OU-0101: Rules for Classification of Offshore Drilling and Support Units
- DNVGL-RU-OU-0102: Rules for Classification of Floating Production, Storage and Loading Units
- DNVGL-RU-OU-300: Rules for Classification of Offshore Units Fleet in Service

Offshore Standards

- DNVGL-OS-A101: Safety Principles and Arrangement
- DNVGL-OS-A201: Winterization for Cold Climate Operations
- DNVGL-OS-A301: Human Comfort
- DNVGL-OS-B101: Metallic Materials
- DNVGL-OS-C101: Design of Offshore Steel Structures, General
- DNVGL-OS-C102: Structural Design of Offshore Ship-Shaped Units
- DNVGL-OS-C103: Structural Design of Column-Stabilised Units
- DNVGL-OS-C104: Structural Design of Self-Elevating Units
- DNVGL-OS-C105: Structural Design of TLPs
- DNVGL-OS-C106: Structural Design of Deep Draught Floating Units
- DNVGL-OS-C201: Structural Design of Offshore Units -WSD method
- DNVGL-OS-C301: Stability and Watertight Integrity
- DNVGL-OS-C401: Fabrication & Testing of Offshore Structures
- DNVGL-OS-D101: Marine & Machinery Systems & Equipment
- DNVGL-OS-D201: Electrical Installations
- DNVGL-OS-D202: Automation, Safety & Telecommunication Systems
- DNVGL-OS-D301: Fire Protection
- DNVGL-OS-E101: Drilling Facilities
- DNVGL-OS-E201: Oil and Gas Processing Systems
- DNVGL-OS-E301: Position Mooring
- DNVGL-OS-E302: Offshore Mooring Chain
- DNVGL-OS-E303: Offshore Fibre Ropes
- DNVGL-OS-E304: Offshore Mooring Steel Wire Ropes
- DNVGL-OS-E401: Helicopter Decks
- DNVGL-OS-E403: Offshore Loading Units

¹³ Lloyds register rules are not included as they do not have N-notation. Revision 06 – February 2020

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 B - 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 the PSA 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 the PSA, the Norwegian Environment Agency and the Norwegian Board of Health.

Enclosure C - 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.

| | 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 Petroleum Safety Authority (PSA) | The Offshore Safety Directive Regulator (OSDR) as competent authority (the competent authority comprises of the Health and Safety Executive (HSE and the Offshore Petroleum Regulator for Environment and Decommissioning (OPRED) working in partnership). |
| Regulatory basis | The Framework Regulations, Section 25 Application for Acknowledgement of Compliance for certain offshore mobile facilities. | Directive 2013/30/EU of the European Parliament and of the Council on safety of offshore oil and gas operations. |
| | | 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 | 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. |
| | assessments. | Demonstrate that all Major Accident Hazards and Major Environmental Incidents have been identified, their likelihood and consequences have been evaluated, and that |

Table 8-1 Comparison of AoC and Safety Case

| | AoC | SAFETY CASE |
|--|---|--|
| | | 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 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 |

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 |
|-----------|--|--|
| | | 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 the PSA 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. | |
| 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. | |

| UK LEGISLATION | DESCRIPTION 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. | |
|--|--|--|
| Offshore Installations (Safety Representatives and Safety Committees) Regulations 1989 (OSRSCR) | | |
| 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:* Directive 2013/30/EU of the European Parliament and of the Council of 12 June 2013 on safety of offshore oil and gas operations
 - Offshore health and safety law, HSE website

Enclosure D - 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.

| 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, Chapter II Management Regulations, Section 5 Management Regulations, Chapter V Framework Regulations, Section 11 Regulations 602/2009 on haxardous 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, Chapter 7.6 | 11 – Other; Arrangement Hazardous area 34B - Loadbearing Structure for Process Equipment | Yes | NMA Construction NMA Living Quarter NMA Fire NMA Production |

| 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: DNVGL-OS-A101 | | | |
| Section 6 | Design of simpler facilities without accommodation | | | |
| Section 7 | Main safety functions | | | |
| | | 11 - Other; | Yes | NMA Construction |
| | | Arrangement Escape ways | | NMA Living Quarter |
| | | | | NMA Fire |
| | | 51 - Insulation, panels, bulkheads, doors, side | Yes | NMA Construction, Sec. 6 |
| | | scuttles, windows, skylight | | NMA Living Quarter, Sec. 6 |
| | | | | NMA Fire, Sec. 19-21 |
| Section 8 | Safety functions | | | |
| Internal ref.: | Management Regulations, Sections 4 | 331B - Process Shut Down (PSD) | No | |
| Sec. 5 | & 5 | 332B - Emergency Shut Down (ESD) | No | |
| | Activities Regulation, Section 26 | 333B - De-pressurisation, Safety Valves, Corresponding Flare System | No | |
| | NORSOK I-002, Chapter 4 | 334B - Open Drain for Process Facility | No | |
| | NORSOK S-001 | 79 - Automation systems for machinery | Yes, regarding | NMA Ballast |
| | IEC 61508 | | technical requirements | NMA Stability |
| | ISO 13849 | | | NMA Fire |
| | NS-EN ISO 13702 Norwegian Oil and Gas Guideline | | No, regarding ergonomic | NMA Risk analysis, Sec. 22 |
| | No.070 | | (human factor) requirements | DNVGL-OS-D202 Instrumentation and Telecommunication Systems DNVGL-OS-D101 Marine and |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|--|-----------------------|---|
| | | | | Machinery Systems and Equipment 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.: | Working Environment Act | 26 - Turret | Yes | NMA Production, Sec. 15 |
| Sect. 5 | Norwegian Labour Inspection | 30A - Derrick with components | No | |
| | Authority, Law mirror | 31A - Drill floor equipment and systems | No | |
| | Regulations 1357/2011 Conduct of | 32A - Bulk and mud systems | No | |
| | work regulations | 33A - Well control equipment and systems | No | |
| | NORSOK D-001 | 34A - Pipe handling equipment and systems | No | |
| | NORSOK D-002 | 35A - Drill string and downhole equipment and systems | No | |
| | NORSOK L-002 NORSOK L-004 | 36A - Material handling equipment and systems | No | |
| | NORSOK P-002 NORSOK R-001 | 37A - Service equipment and systems | No | |
| | NORSOK R-002 NORSOK S-002, chap 5. and A12 I | 38A - Miscellaneous equipment, systems and services | No | |
| | Annex A | 39A - Marine riser, Riser Compensator and Drillstring | 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-001 NORSOK U-100 NORSOK U-101 | 31B - Auxiliary Equipment, Dedicated Process | No | |
| | | Equipment | | |
| | | 32B - Chemicals Equipment | No | |
| | NORSOK Z-015 NORSOK Z-DP-002 | 36B - Offloading equipment | No | |
| | ISO 13628 | 37B - Metering for oil & gas export/-injection, combustion gas, flaring of gas etc. | No | |
| | IMCA/AODC 035 | 301B - Inlet from risers, manifolds, swivel etc. (field specific conditions) | No | |
| | NS-EN ISO 11064 NS-EN ISO 20815 IEC 61892 | 302B - Separation Equipment (including water treatment) | No | |
| | | 303B - Compression Equipment | No | |
| | Alternatively: | 304B - Water Injection equipment | No | |
| | DNVGL-OS-D101 DNVGL-OS-D201 | 334B - Open Drain for Process Facility | No | |
| | DNVGL-OS-D202 | 30C - Drilling Derrick w/components | No | |
| | DNVGL-OS-E101 | 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 |
| | | 441 - Machine tools, cutting & welding equipment | Yes | NMA Welding equipment |
| | | 442 - Tools/equip. for engineers, electr., boatswains, carpenters | Yes | NMA Welding equipment |
| | | 443 - Painting equipment, scaffolding, paint rafts/boats (gigs) | Yes | NMA Welding equipment |
| | | 444 - Cleaning equipment, garbage chutes | 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 |
|---------------------------|---|--|---|--|
| | | 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 | DNVGL-OS-D201 Electrical Systems and Equipment DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | | 70 - Fuel systems | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | | 71 - Lube oil systems | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | | 72 - Cooling systems | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | | 73 - Compressed air systems | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| Section 10a | Ignition source control | | | |
| | NORSOK S-001, Ch. 15 | 65 - Motor aggregates for main electric power production | Yes | DNVGL-OS-D201 Electrical Systems and Equipment |
| | ISO 13702, Ch. 8 EN 1127-1 | | No, for production plant | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | Regulations 1242/1996 relating to equipment and safety systems for use in areas with explosion hazard (in | 66 - Other aggr. & gen. for main & emergency el. power production | Yes, regarding emergency power | NMA Construction, Sec. 11-12 NMA Production |
| | Norwegian only) | | No, regarding | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | As regards mobile facilities: MODU Code, Ch. 6.6 and 6.7.2 | | quantity and quality of emergency | Note: |
| | | | lighting | For accommodation units, ref. is made |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|---|--------------------------------|---|
| | | | No, for production plant | to DNVGL-RU-OU-0101, Ch.2 Sec. |
| | | 74 - Exhaust systems and air intakes | Yes | NMA Fire, Sec. 24-25 |
| | | | No, for production plant | DNVGL-OS-A101 Safety principles and Arrangement* Ch. 2 Sec. 2 §3.2, Sec. 3 DNVGL-OS-D101 Marine and Machinery Systems and Equipment*, Ch.2 Sec. 4 §11 |
| | | | | DNVGL-OS-E101 Drilling plant, Ch. 2 Sec. 1 §4.3 * |
| | | | | *only relevant for ventilation in hazardous areas |
| | | 85 - Electrical systems general part | Yes | NMA Construction (referring to 89/336/EEC and 92/31/EEC) |
| | | | No, for production plant | DSB Regulations 1450/2001 relating to maritime electrical systems |
| | | 86 - Electrical power supply | Yes | DSB Regulations 1450/2001 relating to maritime electrical systems |
| | | | No, for production plant | |
| | | 87 - Electrical distribution common systems | Yes No, for | DSB Regulations 1450/2001 relating to maritime electrical systems |
| | | | production plant | <i>Note</i> : Refer to 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 |
|--|---|---|---------------------------------------|--|
| | | 88 - Electrical cable installation | Yes No, for production plant | DSB Regulations 1450/2001 relating to maritime electrical systems <i>Note</i> : 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 |
| Section 11 | Loads/actions, load/action effects and resistance | | plant | |
| 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: DNVGL-OS-A101, Ch. 2 DNVGL-ST-F101, Sec. 3, 4, 5 DNVGL-ST-F201, Sec. 3, 4, 5 | 2 - Hull and Structure | Yes | NMA Construction, Sec. 6, Sec. 7 and Sec. 10, implications ofNMA Stability, Sec. 22 and Sec. 30 and the following standards:DNVGL-OS-C101 Design of Offshore Steel Structures General (LFRD method)DNVGL-OS-C102 Structural Design of Offshore Ship-shaped unitsDNVGL-OS-C103 Structural Design of Column Stabilised Units (LRFD method)DNVGL-OS-C104 Structural Design of Self-elevating Units (LRFD method)DNVGL-OS-C201 Structural Design of Self-elevating Units (LRFD method) |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|---|-----------------------|--|
| | | | | DNVGL-OS-A101 Safety Principles and Arrangement |
| | | | | The DNVGL-OS that will be applied when using Sec. 3 in FR are the same as those referred to in FacR, apart from DNVGL-OS-C201. |
| | | 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 |
| | | 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 | |
| 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 | 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. |
| | NORSOK N-001 DNVGL-ST-F101, Sec. 6, 7 DNVGL-ST-F201, Sec. 7 | 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 |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|--|---|--------------------------------------|--|
| | API 17J, Ch. 6 | | | hence be whether or not NORSOK shall be applied. |
| | ISO 13623, Ch. 8 ISO 1182 ISO 1716 ISO 5657 ISO 5660-1 ISO 9705 | 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. |
| | NT Fire 036 for testing of pipeline | 31B - Auxiliary Equipment, Dedicated Process Equipment | No | |
| | insulation | 32B - Chemicals Equipment | No | |
| | IMO Resolution A.471 (XII) | 34B - Loadbearing Structure for Process Equipment | Yes | NMA Production |
| | IMO Resolution A.653 (16) | 301B - Inlet from risers, manifolds, swivel etc. (field specific conditions) | No | |
| | IEC 60331 IEC 60332 | 302B - Separation Equipment (including water treatment) | No | |
| | Alternatively: | 303B - Compression Equipment | No | |
| | DNVGL-OS-B101 | 304B - Water Injection equipment | No | |
| | DNVGL-OS-C102, Ch. 2 | | | |
| | DNVGL-OS-C103, Ch. 2 | | | |
| Section 13 | DNVGL-OS-C104, Ch. 2 Materials handling and transport | | | |
| Section 15 | routes, access and evacuation routes | | | |
| Internal ref.: | Regulations concerning organisation, | 11 - Other; | Yes ¹ , regarding | NMA Construction |
| Sec. 20 Sec. 70 | management and employee participation, section 10-1 | Arrangement Escape ways | access, transport routes | NMA Living Quarter |
| | The Workplace Regulations, sections 2- 5, 2-18, 2-25 | | and escape ways (incl. stairs) | NMA Fire |

¹ Maritime regulations can be used as an alternative norm to the Facilities Regulations. Revision 06 – February 2020

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|---|--|--|
| | Regulations concerning the performance of work, section 17 Regulations concerning construction, design and production of work equipment and chemicals (Norwegian only), Chap. 4 NMA Construction, Section 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-001, Ch. 6, 7, 22 NORSOK S-002, Ch. 6.1, 6.2, 6.2.1, 6.3 and 8.1 DNVGL-ST-0358 Alternatively: DNVGL-OS-A101 NSA Norm for physical-chemical working environment, Ch. 5.2.6.3 | 36C - Material Handling, Equipment and Systems | No, regarding thresholds and ladders No | |
| Section 14 | Ventilation and indoor climate | | | |
| Internal ref.: Sec. 22 | NLIA 444 Guidelines on climate and air quality | 11 - Other; Working environment | No | |
| | NIPH Recommended technical standards for indoor climate | 57 - Ventilation, air-conditioning and heating system | Yes, regarding fire protection | NMA Fire NMA Construction |
| | 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 | | No, regarding working environment No, for | DSB Regulations 1450/2001 relating to maritime electrical systems DNVGL-OS-A101 Safety principles and Arrangement |

| 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 15138 | | production plant | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | Alternatively: DNVGL-OS-D101, Ch. 2 Sec. 4 NSA Norm for physical-chemical working environment | | | |
| Section 15 | Chemicals and chemical exposure | | | |
| Internal ref.: Sec. 5 | Activities Regulation, Chapter XI | 11 - Other; Working environment | No | |
| Sec. 36 | 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 | 32B - Chemicals Equipment | No | |
| | 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 | | | |
| | 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 | | | |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|--|---|--|--|
| | 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, Chapter X Management Regulations, Section 19 | 37B - Metering for oil & gas export/-injection, combustion gas, flaring of gas etc. | No | |
| Section 18 | CAA Regulations 81/2008 relating to flight weather service (in Norwegian only) CAA Regulations 1181/2007 relating to flight over the continental shelf (in Norwegian only) NS_EN ISO 19901-1:2015, part 1 Systems for internal and external | 417 - Miscellaneous nautical equipment | No | |
| Section 18 | communication | | | |
| | Activities Regulations, Section 77 NORSOK S-001, Ch. 18 NORSOK T-003 NORSOK T-101 NORSOK U-100, Ch. 7.14 | 425 - Calling systems, command telephone, telephone plants, walkie-talkies, etc. | Yes | NMA Fire, Sec. 22, 23, 25 NMA Cranes and lifting operations NMA Radio equipment 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 | NMA Fire, Sec. 22-25 NMA Production, Sec. 21-22 |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|--|-----------------------|---|
| | | | light alarms | |
| Section 19 | Communications equipment | | | |
| | Management Regulations, Section 17 | 421 - Radio plant | Yes | NMA Radio equipment |
| | NORSOK U-100, Ch. 7.14 | 422 - Lifeboat radio transmitters, emergency radio, direction finder | Yes | NMA Life-saving appliances, Sec. 10 |
| CHAPTER IV | DESIGN OF WORK AND COMMON AREAS | | | |
| Section 20 | Ergonomic design | | | |
| Internal ref.: Sec. 21 | Activities Regulations, Section 34 | 11 - Other; Working environment | No | |
| | 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 | | | |
| Section 21 | working environment, Sec. 5.2.6 Human-machine interface and | | | |
| 000000122 | information presentation | | | |
| Internal ref.: | NORSOK S-002, Ch. 7.8.3, A.9 in Annex | 11 - Other; | No | |
| Sec. 34a | A | Arrangement | | |
| | NS EN 614 Dort 1 | Escape ways Hazardous area | | |
| | NS-EN 614, Part 1 EN 894, Parts 1-3 | Hazardous area Winterization | | |
| | | Working environment | | |
| | Alternatively: | 331B - Process Shut Down (PSD) | No | |
| | NSA Norm for physical-chemical | 332B - Emergency Shut Down (ESD) | 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 |
|---------------------------|---|--|--|---|
| | working environment, Sec. 5.2.6.2 | 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 |
| | | | | NMA Risk analysis, Sec. 22 |
| | | | | DNVGL-OS-D202 Automation, safety and Telecommunication Systems DNVGL-OS-D101 Marine and Machinery Systems and Equipment 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 | | | |
| | 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 | NMA Fire DNVGL-OS-A101 Safety principles and Arrangement |

Handbook for Acknowledgement of Compliance (AoC)

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|---------------------------------|------------------------|---|
| | | | working environment | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| Section 23 | Noise and acoustics | | | |
| Internal ref.: Sec. 38 | Activities Regulations, Section 38 | 11 - Other; Working environment | No | |
| | 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 | | | |
| Section 24 | Vibrations | | | |
| | Regulations 1357/2011 concerning the performance of work, Sec. 14-8, 14-9, | 11 - Other; Working environment | No | |
| | 14-12, 14-13, 14-14 | 303B - Compression Equipment | No | |
| | 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 | | | |
| | 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 | | | |

| 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 25 | Lighting | | | |
| | NORSOK S-002, Ch. 7.6, 8.2 Alternatively: NSA Norm for physical-chemical | 11 - Other; Working environment | No | |
| | working environment, Sec. 5.2.4 | | | |
| Section 26 | Radiation | | | |
| | Activities Regulations, Section 37 | 11 - Other; Working environment | No | |
| | NORSOK S-002, Ch. 6.2.10 | | | |
| Section 27 | Equipment for personnel transport | | | |
| | Activities Regulations, Section 92 | 37A - Service equipment and systems | No | |
| | NORSOK R-002, Annex G | 38A - Miscellaneous equipment, systems and services | No | |
| | | 561 - Personnel lifts, escalators | No, for lifting equipment on drill floor | Equipment for lifting personnel other than on drill floor: NMA Protective, environmental |
| | | | Yes, for other equipment | Lifts: NMA Construction Sec. 23 alternatively: DNV's Rules for certification of lifts onboard ships, MOUs and offshore installations |
| Section 28 | Safety signs | | | |
| | Regulations 1355/2011 relating to organization, management and participation, Sec. 10-5 | 448 - Name plates (markings) on machinery, equipment, pipes cables | Yes | NMA Protective, environmental |
| | Regulations 1356/2011 relating to | | | |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---|--|--|---------------------------------------|--|
| | workplace, Sec. 4-2, 5 Alternative for signs to response, rescue and evacuation equipment: NORSOK C-002 | | | |
| CHAPTER V | NS 6033 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: DNVGL-OS-A101, Ch. 2 Sec. 2 DNVGL-OS-D301 | 51 - Insulation, panels, bulkheads, doors, side scuttles, windows, skylight | Yes No, for production plant | NMA Construction, Sec. 6 NMA Living Quarter, Sec. 6 NMA Fire, Sec. 19-21 |
| Section 30 | Fire divisions | | | |
| Internal ref.: Sec. 7 Sec. 11 Sec. 12 Sec. 31 | DNVGL-OS-A101, Ch. 2 Sec. 1 §3.6 ISO 3008 or NS 3907 ISO 3009 or NS 3908 IMO Resolution A.754 (18) Alternatively: DNVGL-OS-D301, Ch.2 Sec. 1 | 51 - Insulation, panels, bulkheads, doors, side scuttles, windows, skylight | Yes No, for production plant | NMA Construction, Sec. 6 NMA Living Quarter, Sec. 6 NMA Fire, Sec. 19-21 |

| 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 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 Quarter, Sec. 6 NMA Fire, Sec. 19-21 |
| 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: DNVGL-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. 17) No, for production plant | NMA Fire, Sec. 22-25 NMA Production, Sec. 21-22 |
| Section 33 | Emergency shutdown system | | | |
| Internal ref.: Sec. 5 Sec. 7 | NORSOK S-001, NS-EN ISO 13702 | 332B - Emergency Shut Down (ESD) | No | |
| | Alternatively: | 333B - De-pressurisation, Safety Valves, Corresponding Flare System | No | |
| | DNVGL-OS-A101, Ch. 2 Sec. 4 | 812 - Emergency shutdown system | Yes, for the drilling unit part No, for process | NMA Fire, Sec. 26 NMA Production, Sec. 30-31 |
| | | | plant (well testing facilities shall be | |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|---------------------------------------|---|--|
| | | | considered as a process for a drilling unit) | |
| Section 34 | Process safety system | | | |
| | NORSOK P-002 | 331B - Process Shut Down (PSD) | No | |
| | API RP 520/NS-EN ISO 4126 API 521 | 812 - Emergency shutdown system | Yes, for the drilling unit part | NMA Fire, Sec. 26 NMA Production, Sec. 30-31 |
| | ISO 10418 | | No, for process plant (well testing facilities shall be considered as a process for a drilling unit) | |
| Section 34a | Control and monitoring system | | | |
| | Norwegian Oil and Gas 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 NMA Risk analysis, Sec. 22 DNVGL-OS-D202 Automation, safety and Telecommunication Systems DNVGL-OS-D101 Marine and Machinery Systems and Equipment 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, Sec. 22, 23, 25 NMA Production |
| Section 35 | Gas release system | | | |
| Internal ref.: | NORSOK S-001, Ch. 12 | 331B - Process Shut Down (PSD) | No | |
| Sec. 11 | NORSOK P-002, Ch. 21 NS-EN ISO 13702, Ch. 7, App. B.2 API 521 | 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, Sec. 26 NMA Production,, Sec. 30-31 |
| | Firewater supply | | | |
| Internal ref.: Sec. 37 | Activities Regulations, Section 62 NORSOK S-001, Ch. 21 | 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 | Yes, for drilling units No, for | NMA Fire, Sec. 6-9 NMA Production, Sec. 23-24 NMA Helicopter decks, Sec. 37 |
| | Alternatively: | 817 - Firefighting systems w/steam 818 - Firefighting systems w/powder 819 - Firefighting systems w/other agents | production units | DNVGL-OS-D101 Marine and Machinery Systems and 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 |
|---------------------------|--|--|--|--|
| | DNVGL-OS-A301, Ch. 2 Sec. 3, 6, 7 | | | (Ch. 2 Sec. 1, 2 & 6) |
| 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: | 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, Sec. 6-15 NMA Helicopter decks, Sec. 37-38 DNVGL-OS-D101 Marine and Machinery Systems and Equipment (Ch. 2 Sec. 1, 2 & 6) |
| | DNVGL-OS-D301, Ch. 2 Sec. 3, 4, 7, 8 | | | |
| 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 DNVGL-OS-D101 Marine and Machinery Systems and Equipment <i>Note</i> : For accommodation units, ref. is made to DNVGL-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 | 80 - Ballast and bilge systems, gutter pipes outside accommodation | Yes, regarding system design | NMA Ballast NMA 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 |
|--|--|---|---|---|
| | DNVGL-OS-D101, Ch.2 Sec.3 | | No, regarding environmental requirements (Act. Reg. Sec. 60) | DNVGL-OS-D101 Marine and Machinery Systems and Equipment (Ch. 2 Sec. 1, 2, 3 & 6) For self-elevating Units; DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| Section 40 | Open drainage systems | | | |
| | Activities Regulations, Ch. XI | 334B - Open Drain for Process Facility | No | |
| | NORSOK S-001, Ch. 9, 24 NORSOK P-002, Ch. 28 NS-EN ISO 13702, Ch. 9, App. B.4 | 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 DNVGL-OS-D101 Marine and Machinery Systems and Equipment (Ch. 2 Sec. 1, 2, 3 & 6) For self-elevating Units: DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| CHAPTER VI | EMERGENCY PREPAREDNESS | | | |
| Section 41 | Equipment for rescue of personnel | | | |
| Internal ref.: Sec. 5 lit. c Sec. 69 | Activities Regulations, Section 77 | 501 - Lifeboats with equipment | Yes | NMA Life-saving appliances |
| Section 41a | Evacuation and rescue means for manned underwater operations | | | |
| Internal ref.: Sec. 9 | Activities Regulations, Section 77, literas c and d Framework Regulations, Section 19 IMCA D 051 Hyperbaric Evacuation Systems (HES) Interface | 483 - Diving 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 |
|---------------------------|---|--|-----------------------|---|
| | Recommendations | | | |
| | NORSOK U-100N | | | |
| Section 42 | Materials for action against acute pollution | | | |
| | Framework Regulations, Chapter II | 489 - Environmental protection equipment | No | |
| | Management Regulations, Section 17 | | | |
| Section 43 | Emergency preparedness vessels | | | |
| Section 44 | Means of evacuation | | | |
| | Activities Regulations, Section 73 | 501 - Lifeboats with equipment | Yes | NMA Life-saving appliances |
| | Activities Regulations, Section 77, lit. d | | | |
| | DNVGL-OS-C101 DNVGL-ST-E406 NORSOK N-001 NORSOK S-001, Ch. 22 ISO 19900 | 502 - Life rafts with equipment | Yes | NMA Life-saving appliances |
| Section 45 | Survival suits and life jackets, etc. | | | |
| | Management Regulations, Section 17 | 503 - Lifesaving, safety and emergency equipment | Yes | NMA Life-saving appliances |
| Section 46 | Manual fire-fighting and firefighter's equipment | | | |
| | NORSOK S-001, Ch. 21.4.7, 23.4.6 | 505 - Loose firefighting apparatuses and equipment, firemen's suit | Yes | NMA Fire, Sec. 12-15 |
| | NS-EN ISO 13702, App. B.8.12 | | | |
| CHAPTER VII | ELECTRICAL INSTALLATIONS | | | |

| 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 47 | Electrical installations | | | |
| Internal ref.: Sec. 5 Sec. 10 Sec. 38 Sec. 77 | Regulations relating to electrical power installations 1626/2005 (in Norwegian only) Radiation Protection Regulations | 65 - Motor aggregates for main electric power production | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment, Ch. 2 Sec. 5 DNVGL-OS-D201 Electrical Systems |
| Sec. 78 | 1659/2016 (in Norwegian only) Section 26 | 85 - Electrical systems general part | Yes | and Equipment NMA Construction |
| | IEC 61892 IEC 61892-2 (2012) Corr. 1 IEC 60092 | | | (referring to 89/336/EEC and 92/31/EEC) DSB Regulations 1450/2001 relating to maritime electrical systems |
| | Alternatively: DNVGL-OS-D201 | 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 <i>Note</i> : Refer to Sec. 63 (SFI 408) for dynamically positioned facilities |
| | | 88 - Electrical cable installation | Yes | DSB Regulations 1450/2001 relating to maritime electrical systems <i>Note</i> : 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 | | | |

| 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 48 | Well barriers | | | |
| Internal ref.: | Management Regulations, Section 5 | 33A - Well control equipment and systems | No | |
| Sec. 8 Sec. 11 | | 33C - Well control, equipment and systems | No | |
| | NORSOK D-010, Ch. 4, 5, 9, 15 | | | |
| Section 49 | Well control equipment | | | |
| | NORSOK D-001, Ch. 5, 6, Annex A, B, C | 33A - Well control equipment and systems | No | |
| | NORSOK D-002 NORSOK D-010, Ch. 5.7.2 | 33C - Well control, equipment and systems | No | |
| | Alternatively: DNVGL-OS-E101, Ch. 2 Sec. 5 §3 | | | |
| Section 50 | Compensator and disconnection systems | | | |
| Internal ref.: | Management Regulations, Section 17 | 33A - Well control equipment and systems | No | |
| Sec. 5 lit. c Sec. 11 | | 33C - Well control, Equipment and Systems | No | |
| Sec. 11 | NORSOK D-001, Ch. 5, 6 | 38A - Miscellaneous equipment, systems and services | No | |
| | alternatively: DNVGL-OS-E101, Ch. 2 Sec. 5 §4 | 39A - Marine riser, Riser Compensator and Drillstring | No | |
| Section 51 | Drilling fluid system | | | |
| Internal ref.: | Management Regulations, Section 5 | 32A - Bulk and mud systems | No | |
| Sec. 8 | | 32C - Bulk- and Drill Fluid Systems | No | |
| Sec. 15 Sec. 17 | NORSOK D-001, Ch. 5, 6 | 74 - Exhaust systems and air intakes | Yes | NMA Fire, Sec. 24-25 |
| | Alternatively: DNVGL-OS-E101, Ch. 2 Sec. 5 §7 | | | DNVGL-OS-A101 Safety principles and Arrangement* Ch. 2 Sec. 2 §3.2, Sec. 3 DNVGL-OS-D101 Marine and Machinery Systems and Equipment*, Ch.2 Sec. 4 §11 |

Handbook for Acknowledgement of Compliance (AoC)

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|--|-----------------------|---|
| | | | | DNVGL-OS-E101 Drilling facilities, Ch. 2 Sec. 1 §4.3 * *only relevant for ventilation in hazardous areas |
| Section 52 | Cementing unit | | | |
| Internal ref.: Sec. 15 | Pollution Control Act (in Norwegian only) | 32A - Bulk and mud systems | No | |
| | NORSOK D-001, Ch. 5, 6, Annex A, B, C | | | |
| | Alternatively: DNVGL-OS-E101,, Ch. 2 Sec. 5 §7.4 | | | |
| Section 53 | Equipment for completion and well flow | | | |
| Internal ref.: Sec. 12 | Resource Management Regulations | 31A - Drill floor equipment and systems | No | |
| | NORSOK D-007 NORSOK D-010, Ch. 6-8, 14-15 | 35A - Drill string and downhole equipment and systems | No | |
| | | 37A - Service equipment and systems | No | |
| | Alternatively: DNVGL-OS-E101, Ch. 2 Sec. 5 §9 | 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, Section 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, Section 5 | 376C - Wellhead and tubular equipment | No | |
| | NORSOK D-010, Ch. 7.7.2, 8, 15 NORSOK U-001 | | | |
| | ISO 10423 ISO 13628 | | | |
| | | | | |
| | | 38C – Miscellaneous, systems and service | No | |
| CHAPTER IX | PRODUCTION PLANTS | | | |
| Section 55 | Production plants | | | |
| Internal ref.: Sec. 5 | Activities Regulations, Section 60 Activities Regulations, Section 61a, | 31B - Auxiliary Equipment, Dedicated Process Equipment | No | |
| Sec. 10 Sec. 15 | 61b | 32B - Chemicals Equipment | No | |
| Sec. 15 | Framework Regulations, Chapter II | 301B - Inlet from risers, manifolds, swivel etc. (field specific conditions) | No | |
| | Framework Regulations, Section 45 | 302B - Separation Equipment (including water treatment) | No | |
| | NORSOK L-001 | 303B - Compression Equipment | No | |
| | NORSOK L-002 | 304B - Water Injection equipment | No | |
| | NORSOK P-002 NORSOK U-001 | 46 - VOC/blanket gas system | Yes | NMA Production |
| | ISO 13628 | | | |
| CHAPTER X | LOAD-BEARING STRUCTURES AND PIPELINE SYSTEMS | | | |
| Section 56 | Load-bearing structures and maritime systems | | | |
| Internal ref.: | NORSOK N-001 | 2 - Hull and structure | Yes | NMA Construction, Sec. 6, Sec. 7 and |

| 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. 5 | NORSOK N-004 | | | Sec. 10, implications of |
| Sec. 7 Sec. 11 Sec. 39 | NMA Construction NMA's Circular RSV 17-2016, point 6 | | | NMA Stability, Sec. 22 and Sec. 30 and the following standards: |
| Sec. 62 | DNVGL-OS-C104 | | | DNVGL-OS-C101 Design of Offshore Steel Structures General (LFRD method) |
| | | | | DNVGL-OS-C102 Structural Design of Offshore Ship-shaped units |
| | | | | DNVGL-OS-C103 Structural Design of Column Stabilised Units (LRFD method) |
| | | | | DNVGL-OS-C104 Structural Design of Self-elevating Units (LRFD method) |
| | | | | DNVGL-OS-C201 Structural Design of Offshore Units (WSD method) |
| | | | | DNVGL-OS-A101 Safety Principles and Arrangement |
| | | | | The DNVGL-OS that will be applied when using Sec. 3 in FR are the same as those referred to in FacR, apart from DNVGL-OS-C201. |
| | | 34B - Loadbearing Structure for Process Equipment | Yes | NMA Production |
| Section 57 | Pipeline 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 |
|--------------------------------------|--|--|---|---|
| CHAPTER XI | LIVING QUARTERS | | | |
| Section 58 | Living quarters | | | |
| Internal ref.: Sec. 20 Sec. 61 | Activities Regulations, Section 14 Activities Regulations, Section 19 | 11 - Other; Arrangement | Yes ² | NMA Construction, Sec. 6, 6a, 7, 8, 12, 13, 14, 15, 17, 18 NMA Living Quarter, Sec. 6-15, 17-18 |
| | NORSOK C-001 NORSOK C-002 NORSOK S-001 NORSOK S-002 alternatively: | 52 - Internal deck covering, ladders, steps, railings etc. | Yes, regarding deck covering and railings | NMA Fire Sec. 19 NMA Construction NMA Living Quarter |
| | NMA Living Quarter, Sections 6, 7, 8, 12, 13, 14, 15, 17 and 18 | | No, regarding ladders and thresholds | |
| | | 54 - Furniture, inventory and entertainment equipment | Yes No, regarding bunk beds | NMA Living Quarter |
| | | 55 - Galley & pantry equipment, arrangement for provisions, ironing/drying equipment | Yes, regarding shape/ construction | NMA Living Quarter |
| | | | No, regarding working environment, lighting, ventilation etc. (NORSOK S-002) | |
| Section 59 | Health department | | | |
| Internal ref.: | Management Regulations, Section 17 | 504 - Medical and dental equipment, | Yes, regarding | NMA Living Quarter |

² Maritime regulations can be used as an alternative norm to the Facilities Regulations.

| 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. 38 | NORSOK C-001, Ch. 7.21 | medicines and first aid equipment | health department | |
| | Alternatively: NMA Living Quarter, Section 16 | | No, regarding emergency sickbay | |
| Section 60 | Emergency sickbay | | | |
| | Management Regulations, Section 17 NORSOK C-001, Ch. 7.21 | 504 - Medical and dental equipment, medicines and first aid equipment | Yes, regarding health department | NMA Living Quarter |
| | | | No, regarding emergency sickbay | |
| Section 61 | Supply of food and drinking water | | | |
| | Activities Regulations, Section 13 | 76 - Distilled and make-up water systems | Yes | NMA Potable water |
| | Drinking water Regulations 1868/2016 (in Norwegian only) | | | |
| | 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, Sections 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; DNVGL-OS-C301 Stability and Watertight Integrity |
| | | | | NMA Production, Sec. 17, §2-3 |

| 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 63 | Anchoring, mooring and positioning | | | |
| Internal ref.: | Activities Regulations, Section 90 | 26 - Turret | Yes | NMA Production, Sec. 15 |
| Sec. 11 Sec. 50 | NMA Anchoring, Sections 6-17 | 43 - Anchoring, mooring and towing | Yes | NMA Anchoring |
| Sec. 56 | | equipment | | NMA Production |
| | NORSOK N-001, Ch. 7.11, 7.12 | | | Note: not applicable for Jack-ups |
| | IMO MSC/Circular 645 | 408 - Dynamic positioning plant | Yes | NMA Anchoring |
| | | | | (MSC/Circular 645) |
| Section 64 | Turret | | | |
| | NMA Production, Section 15 §1-4 | 26 - Turret | Yes | NMA Production, Sec. 15 |
| | NORSOK S-001, Ch. 6.4.9 | | | |
| CHAPTER XIII | DIVING FACILITIES | | | |
| Section 65 | Installations and equipment for manned underwater operations | | | |
| CHAPTER XIV | ADDITIONAL PROVISIONS | | | |
| Section 66 | Loading and offloading systems | | | |
| | Management Regulations, Section 9 | 36B - Offloading equipment | No | |
| | For FPSOs and FSUs: NMA Production, Section 35 DNVGL-OS-E201, Ch. 2 Sec. 12 NORSOK N-001 | | | |
| Section 67 | Waste | | | |
| l | Activities Regulations, Section 72 | 11 - Other; Arrangement | Yes | NMA Protective, environmental, Sec. |

| Facilities Regulations | Referred regulations, standards, and guidelines in the Facilities Regulations | Relevant SFI system groups | FR Sec. 3 applicable? | Alternatives to the Facilities Regulations |
|---------------------------|---|--|-----------------------|--|
| | | | | 12 |
| Section 68 | Exhaust ducts | | | |
| Internal ref.: Sec. 51 | NORSOK S-001 | 74 - Exhaust systems and air intakes | Yes | NMA Fire, Sec. 24-25 DNVGL-OS-A101 Safety principles and Arrangement* Ch. 2 Sec. 2 §3.2, Sec. 3 DNVGL-OS-D101 Marine and Machinery Systems and Equipment*, Ch.2 Sec. 4 §11 DNVGL-OS-E101 Drilling facilities, Ch. 2 Sec. 1 §4.3 * *only relevant for ventilation in hazardous areas |
| Section 69 | Lifting appliances and lifting gear | | | |
| Internal ref.: | NORSOK D-001, Ch. 5, 6 | 31A - Drill floor equipment and systems ³ | No | |
| Sec. 13 Sec. 80 | NORSOK R-002 ³ | 34A - Pipe handling equipment and systems ³ | No | |
| | Norwegian Oil and Gas Guideline No. 081 Remote Pipe Handling Operations | 36A - Material handling equipment and systems ³ | No | |
| | NSA Guidelines for implementation of | 31C - Work floor, Equipment and Systems ³ | No | |
| | EN 13852-1 on existing offshore cranes on mobile offshore units (built before | 36C - Material Handling, Equipment and Systems ³ | No | |
| | 2007) | 45 - Lifting and transport equipment for machinery components | Yes | NMA Protective, environmental, Sec. 9 |
| | | 501 – Lifeboats with equipment (launching and recovery appliances for rescue and evacuation means) | Yes | NMA Life-saving appliances |
| | | 561 - Personnel lifts, escalators ³ | No, for lifting | Equipment for lifting personnel other |

³ 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 mobile drilling 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 |
|---------------------------|---|---|--|---|
| | | | equipment/pers onnel on drill floor Yes, for other equipment/ areas | than on drill floor: NMA Protective, environmental, Sec. 9 Lifts: NMA Construction, Sec. 23 Alternatively: DNV's Rules for certification of lifts on- board ships, MOUs and offshore installations |
| | | 563 - Deck cranes | Yes | NMA Cranes and lifting operations DNV 2.22 Rules for certification of Lifting appliances NORSOK S-002 Working Environment (for working environment in crane cabin) See also NPD/PSA's letter of 22.12.2003 |
| Section 70 | Helicopter deckCAA 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, Section 1 | 41 - Navigation and searching equipment | Yes | NMA Construction, Sec. 13 |
| | Norwegian Coastal Administration - Provisions on the marking of | 427 - Light and signal equipment (lanterns, whistles, etc.) | Yes | NMA Construction, Sec. 13 NMA Helicopter decks, Sec. 27 |

| Facilities | Referred regulations, standards, and | Relevant SFI system groups | FR Sec. 3 | Alternatives to the Facilities |
|---------------------------|--|--------------------------------------|---------------------------------|---|
| Regulations | guidelines in the Facilities Regulations | | applicable? | Regulations |
| | permanently located offshore units in | | | |
| a | the petroleum industry | | | |
| Section 72 | Marking of equipment and cargo | | | |
| Section 73 | Lifts | | | |
| Internal ref.: Sec. 13 | NORSOK R-002, Annex E | 561 - Personnel lifts, escalators | No, for lifting equipment on | Equipment for lifting personnel other than on drill floor: |
| Sec. 15 | | | drill floor | NMA Protective, environmental |
| | | | | Lifts: |
| | | | Yes, for other equipment | NMA Construction, Sec. 23 |
| | | | | alternatively: |
| | | | | DNV's Rules for certification of lifts onboard ships, MOUs and offshore installations |
| CHAPTER XV | IMPLEMENTATION OF EEA REGULATION | IS | | |
| Section 74 | (Repealed by regulations 26 April 2019) | | | |
| Section 75 | Personal protective equipment | | | |
| Section 76 | Aerosol containers | | | |
| Section 77 | EMC | | | |
| | Regulations relating to electrical | 85 - Electrical systems general part | Yes | NMA Construction, Sec. 6a |
| | equipment 1598/2017 (in Norwegian only) (the EE Regulations) | | | (referring to 89/336/EEC and 92/31/EEC) |
| | Regulations relating to electromagnetic compatibility (EMC) for electronic communication 378/2016 (in Norwegian only) | | | DSB Regulations 1450/2001 relating to maritime electrical systems |
| | Council Directive 89/336/EEC Council Directive 92/31/EEC | | | |

| 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 78 | (Repealed by regulations 26 April 2019) | | | |
| Section 79 | (Repealed by regulations 26 April 2019) | | | |
| Section 80 | Products not covered by the Facilities Regulations | | | |
| Internal ref.: Sec. 1 | Regulations related to machinery 544/2009 (in Norwegian only) | 488 - Jacking system, spud tank jetting system for Jack-ups | Yes | NMA Construction DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | Marine Equipment Directive 96/98/EC18 | 564 - Walkway between units | Yes | DNVGL-RU-OU-101 Rules for the Classification of Offshore Drilling and Support Units, Ch.2 Sec.4 <i>Note</i> : Only applicable for accommodation units |
| | | 60 - Diesel engines for propulsion | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | | 62 - Other types of propulsion machinery | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment DNVGL-OS-D201 Electrical Systems and Equipment |
| | | 63 - Transmission and foils (propellers, reduction gears etc.) | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment <i>Note</i> : Only applicable to units with dynamic positioning and thruster assisted anchoring |
| | | 64 - Boilers, steam and gas generators | Yes | DNVGL-OS-D101Marine and Machinery Systems and 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 |
|---------------------------|---|---|--------------------------|--|
| | | 82 - Air and sounding systems from tank to deck | Yes | NMA Ballast DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| | | 83 - Special common hydraulic systems | Yes | DNVGL-OS-D101 Marine and Machinery Systems and Equipment |
| CHAPTER XVI | CONCLUDING PROVISIONS | | | |
| Section 81 | Supervision, decisions, enforcement, etc. | | | |
| Section 82 | Entry into force | | | |

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

Enclosure D 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 handling and transport | 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. Revision 06 – February 2020

| Facilities Regulations | Drilling Unit and Well Intervention Unit | Accommodation Unit | Production (and storage) Unit | Storage Unit |
|---|--|-----------------------|-------------------------------------|-----------------------|
| 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 Regula | tions 23 December 2 | 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 |
| Section 25 Lighting | FacR | FacR | FacR | FacR |

² Maritime can be used for physical systems, FacR shall be used for indoor climate.

Revision 06 – February 2020

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 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 system | 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 |
| Section 52 Cementing | 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.

Revision 06 – February 2020

| Facilities Regulations | Drilling Unit and Well Intervention Unit | Accommodation Unit | Production (and storage) Unit | Storage Unit |
|--|--|-----------------------|-------------------------------------|------------------------|
| unit | | | | |
| 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 operations | 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 | |
|--|--|-----------------------|-------------------------------------|------------------------|--|
| 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 Regula | ations 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 | | | | |
| Section 80 Products not covered by the Facilities Regulations | Maritime | Maritime | FacR | FacR | |

¹¹ The design of the stern on FPSOs and FSUs should conform to the NORSOK N-001 standard.

Revision 06 – February 2020

 $^{^{12}}$ FacR 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 81 Supervision, decisions, enforcement, etc. | NA | NA | NA | NA |
| Section 82 Entry into force | NA | NA | NA | NA |

