DIN EN ISO 19905-3:2022-08 (E)

Petroleum and natural gas industries - Site-specific assessment of mobile offshore units - Part 3: Floating units (ISO 19905-3:2021); English version EN ISO 19905-3:2022

Contents

Page

Foreword ... **v**

Introduction ... **vi**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **2**

4 Abbreviated terms ... **4**

5 Overall considerations ... **5**
5.1 General ... 5
5.1.1 Competency ... 5
5.1.2 Planning ... 5
5.1.3 Reporting ... 5
5.1.4 Regulations ... 5
5.1.5 Classification of unit ... 5
5.2 Assessment ... 6
5.3 Exposure levels ... 6
5.4 Selection of limit states ... 6
5.5 Determination of assessment situations ... 7
5.5.1 General ... 7
5.5.2 Arctic operations and ice ... 8
5.5.3 Earthquake ... 8
5.6 Models and analytical tools ... 8

6 Data to be assembled for each site ... **8**
6.1 Applicability ... 8
6.2 Mobile floating unit data ... 8
6.3 Stationkeeping data ... 9
6.3.1 General ... 9
6.3.2 Moored units ... 9
6.3.3 Moored units with thruster assist ... 9
6.3.4 Dynamically positioned units ... 9
6.4 Site data ... 10
6.5 Data on activity/use limitations ... 10
6.5.1 General ... 10
6.5.2 Reassessment or modification of activity/use limitations ... 11
6.5.3 Sources of data and types of activity/use limitations ... 11
6.6 Post installation data ... 11

7 Actions ... **11**

8 Hull of unit ... **12**
8.1 Strength ... 12
8.1.1 General ... 12
8.1.2 Monohull ... 12
8.1.3 Semi-submersible ... 12
8.1.4 Other hull forms ... 12

8.2 Air gap and freeboard 12
8.2.1 General 12
8.2.2 Monohull 13
8.2.3 Semi-submersible 13
8.2.4 Other hull forms 13
8.3 Temperature 13
8.4 Stability 14
9 Stationkeeping system 14
9.1 General 14
9.2 Moored 14
9.3 Thruster assisted mooring 14
9.4 Dynamic positioning systems 14
10 Activity specific assessments 14
10.1 General 14
10.2 Assessment of site-specific activities and equipment 15
10.2.1 General 15
10.2.2 Marine drilling riser assessment 15
10.3 Risk assessment 15
10.4 Activity specific operating guidelines 15
11 Confirmation of compatibility between analysis and as-installed condition 16
Annex A (informative) **Outline of an activity specific operating guideline document for a dynamically positioned unit and a moored unit 17**
Annex B (informative) **Suggested process for completing a site-specific assessment of a mobile floating unit 20**
Bibliography 22