

E DIN EN ISO 19905-3:2019-06 (E)

Erscheinungsdatum: 2019-05-10

Petroleum and natural gas industries - Site-specific assessment of mobile offshore units - Part 3: Floating unit (ISO 19905-3:2017); English version prEN ISO 19905-3:2019

Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	2
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	5
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	7
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	9
6.5 Data on activity use limitations	10
6.5.1 General	10
6.5.2 Reassessment or modification of activity use limitations	10
6.5.3 Sources of data and types of activity use limitations	10
6.6 Post installation data	11
7 Actions	11

8	Hull of unit	11
8.1	Strength.....	11
8.1.1	General.....	11
8.1.2	Monohull.....	11
8.1.3	Semi-submersible.....	12
8.1.4	Other hull forms.....	12
8.2	Airgap and freeboard.....	12
8.2.1	General.....	12
8.2.2	Monohull.....	12
8.2.3	Semi-submersible.....	12
8.2.4	Other hull forms.....	13
8.3	Temperature.....	13
8.4	Stability.....	13
9	Stationkeeping system	13
9.1	General.....	13
9.2	Moored.....	13
9.3	Thruster assisted mooring.....	13
9.4	Dynamic positioning systems	13
10	Activity specific assessments.....	14
10.1	General.....	14
10.2	Assessment of site-specific activities and equipment.....	14
10.2.1	General.....	14
10.2.2	Marine drilling riser assessment.....	14
10.3	Risk assessment.....	14
10.4	Activity specific operating guidelines	14
11	Confirmation of compatibility between analysis and as-installed condition	15
Annex A (informative) Outline of an activity specific operating guideline document for a dynamically positioned unit and a moored unit		16
Annex B (informative) Suggested process for completing a site-specific assessment of a mobile floating unit		19
Bibliography		21