

SECTION 1

PROFILE

Information on Member State and Reporting Authority

- (a) Member State: NETHERLANDS (NL)
- (b) Reporting period: (Calendar Year) 2020
- (c) Competent Authority: Staatstoezicht op de Mijnen (SodM)
- (d) Designated Reporting Authority: Staatstoezicht op de Mijnen (SodM)
- (e) Contact details

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SECTION 2

INSTALLATIONS

2.1. **Fixed installations** Please provide detailed list of installations for offshore oil and gas operations in your country (on first of January of the reporting year), including their type (i.e. fixed manned, fixed normally unmanned, floating production, fixed non-production), year of installation and location:

Table 2.1.

Installations within jurisdiction on 1 January of the reporting period

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
A12-CP (A12-CP)	FMI	2007	Gas	26	(3.4836, 55.2356)
A18-A (A18-A)	NUI	2015	Gas		(3.495736, 55.061752)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
AME-2 (AME-2)	NUI	1991	Gas		(5.52056, 53.29031)
AWG-1C (AWG-1C)	NUI	1985	Gas		(5.56302, 53.29338)
AWG-1P (AWG-1P)	FMI	1985	Gas	24	(5.56254, 53.29312)
AWG-1W (AWG-1W)	NUI	1985	Gas		(55.63, 53.29338)
B13-A (B13-A)	NUI	2011	Gas		(4.0548, 55.1705)
D12-A (D12-A)	NUI	2004	Gas		(2.5157, 54.2035)
D12-B	NUI	2019	Gas		(54.242124, 2.490026)
D15-A (D15-A)	FMI	1999	Gas	24	(2.56087, 54.19324)
D18A-A (D18A-A)	FMI	2013	Gas	14	(2.4925, 54.0859)
E17A-A (E17A-A)	FMI	2009	Gas	14	(3.2136, 54.05533)
F 2-A (F 2-A)	FMI	2000	Oil	25	(4.5735137, 54.94547686)
F 3-FB-AP (F 3-FB-AP)	FMI	1993	Oil/Gas	36	(4.41466, 54.51138)
F 3-OLT (F 3-OLT)	NUI	1993	Oil		(4.4338, 54.51138)
F15-A (F15-A)	FMI	1991	Gas	10	(4.4936, 54.1257)
F16-A (F16-A)	FMI	2005	Gas	24	(4.0044, 54.07)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
F3-FB-PP (F3-FB-PP)	NUI	1993	Oil		(4.414668, 54.51138)
G14-A (G14-A)	NUI	2005	Gas		(5.29923, 54.13436)
G14-B (G14-B)	NUI	2007	Gas		(5.26099, 54.10127)
G16-A (G16-A)	NUI	2005	Gas		(5.12129, 54.07342)
G16a-B (G16a-B)	NUI	2011	Gas		(5.15514, 54.07117)
G17d-A (G17d-A)	NUI	2002	Gas		(5.26215, 54.03087)
G17D-AP (G17D-AP)	NUI	2005	Gas		(5.2623, 54.0259)
HORIZON P9 (HORIZON P9)	FMI	1993	Oil	16	(3.4427, 52.3322)
K 1-A (K 1-A)	NUI	2001	Gas		(3.0441, 53.5036)
K 2B-A (K 2B-A)	FMI	2005	Gas	14	(3.39741, 53.56918)
K 4-A (K 4-A)	NUI	1998	Gas		(3.1834, 53.4501)
K 4-BE (K 4-BE)	NUI	2000	Gas		(3.1143, 53.4554)
K 5-A (K 5-A)	NUI	1993	Gas		(3.20252, 53.4147)
K 5-B (K 5-B)	NUI	1995	Gas		(3.2538, 53.425)
K 5-CU (K 5-CU)	NUI	2010	Gas		(3.2658, 53.4854)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
K 5-D (K 5-D)	NUI	1993	Gas		(3.2914, 53.4127)
K 5-EN/C (K 5-EN/C)	NUI	1997	Gas		(3.304, 53.4238)
K 5-P (K 5-P)	FMI	1993	Gas	12	(3.202, 53.4144)
K 5-PK (K 5-PK)	NUI	2002	Gas		(3.30252, 53.4147)
K 6-D (K 6-D)	NUI	1991	Gas		(3.4942, 53.4033)
K 6-DN (K 6-DN)	NUI	1992	Gas		(3.4816, 53.4332)
K 6-GT (K 6-GT)	NUI	1998	Gas		(3.5453, 53.4509)
K 6-N (K 6-N)	NUI	1993	Gas		(3.4452, 53.4155)
K 6-PC (K 6-PC)	NUI	1992	Gas		(3.5208, 53.415)
K 6-PP (K 6-PP)	FMI	1991	Gas	6	(3.5208, 53.4154)
K 7-FA-1P (K 7-FA-1P)	FMI	1982	Gas	6	(3.18127, 53.34191)
K 7-FA-1W (K 7-FA-1W)	NUI	1980	Gas		(3.18176, 53.34221)
K 7-FB-1 (K 7-FB-1)	NUI	2003	Gas		(3.00039, 53.37453)
K 7-FD-1 (K 7-FD-1)	NUI	1998	Gas		(3.1557, 53.32579)
K 8-FA-1 (K 8-FA-1)	FMI	1976	Gas	36	(3.2208, 53.2958)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
K 8-FA-1P (K 8-FA-1P)	NUI	2001	Gas		(3.2213, 53.3)
K 8-FA-2 (K 8-FA-2)	NUI	1977	Gas		(3.2503, 53.3052)
K 8-FA-3 (K 8-FA-3)	FMI	1984	Gas	15	(3.25194, 53.32294)
K 9-AB-A (K 9-AB-A)	FMI	1987	Gas	14	(3.59543, 53.31203)
K 9-AB-B (K 9-AB-B)	FMI	1999	Gas	12	(3.46516, 53.33065)
K 9C-A (K 9C-A)	FMI	1987	Gas	12	(3.52368, 53.39151)
K12-BD (K12-BD)	NUI	1987	Gas		(3.535, 53.20285)
K12-BP (K12-BP)	FMI	1987	Gas	72	(3.535, 53.20285)
K12-G (K12-G)	NUI	2001	Gas		(3.59012, 53.21216)
K12-K (K12-K)	NUI	2007	Gas		(3.5742, 53.25248)
K12-PC (K12-PC)	NUI	1984	Gas		(3.54206, 53.2733)
K12-PCC (K12-PCC)	NUI	1988	Gas		(3.5421, 53.2733)
K12-PD (K12-PD)	NUI	1985	Gas		(3.53112, 53.25207)
K13-AP (K13-AP)	NUI	1974	Gas		(3.13133, 53.13048)
K13-AW (K13-AW)	NUI	1974	Gas		(3.13133, 53.13048)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
K14-FA-1C (K14-FA-1C)	FMI	1985	Gas	93	(3.37305, 53.16083)
K14-FA-1P (K14-FA-1P)	NUI	1975	Gas		(3.37305, 53.16083)
K14-FB-1 (K14-FB-1)	NUI	1997	Gas		(3.34427, 53.11266)
K15-FA-1 (K15-FA-1)	FMI	1977	Gas	20	(3.591, 53.145)
K15-FB-1 (K15-FB-1)	FMI	1978	Gas	20	(3.5218, 53.1632)
K15-FC-1 (K15-FC-1)	NUI	1989	Gas		(3.454, 53.1507)
K15-FG-1 (K15-FG-1)	FMI	1990	Gas	6	(3.5648, 53.1819)
K15-FK-1 (K15-FK-1)	NUI	2002	Gas		(3.5514, 53.13035)
K17-FA-1 (K17-FA-1)	NUI	2005	Gas		(3.32146, 53.03465)
L 2-FA-1 (L 2-FA-1)	FMI	1991	Gas	14	(4.2949, 53.57414)
L 4-PA (L 4-PA)	FMI	1981	Gas	18	(4.0551, 53.4328)
L 4-PB (L 4-PB)	NUI	1984	Gas		(4.0004, 53.4034)
L 4-PN (L 4-PN)	FMI	1999	Gas	13	(4.0259, 53.4924)
L 5 A-D (L 5 A-D)	NUI	2013	Gas		(4.30514, 53.49071)
L 5-B (L 5-B)	NUI	2003	Gas		(4.3613, 53.4218)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
L 5-C (L 5-C)	NUI	2006	Gas		(4.3849, 53.4149)
L 6-B (L 6-B)	NUI	2014	Gas		(4.498924, 53.423323)
L 7-A (L 7-A)	NUI	1984	Gas		(4.0456, 53.3538)
L 7-B (L 7-B)	NUI	1975	Gas		(4.1219, 53.363)
L 7-BB (L 7-BB)	NUI	1978	Gas		(4.1219, 53.363)
L 7-C (L 7-C)	NUI	1977	Gas		(4.1208, 53.3214)
L 7-H (L 7-H)	NUI	1989	Gas		(4.0837, 53.3728)
L 7-N (L 7-N)	NUI	1988	Gas		(4.1031, 53.3419)
L 7-P (L 7-P)	NUI	1977	Gas		(4.1208, 53.3215)
L 7-PK (L 7-PK)	NUI	1983	Gas		(4.1208, 53.3214)
L 7-Q (L 7-Q)	FMI	1977	Gas	70	(4.1208, 53.3214)
L 8-A (L 8-A)	NUI	1988	Gas		(4.28202, 53.35038)
L 8-G (L 8-G)	FMI	1988	Gas	28	(4.36192, 53.34551)
L 8-H (L 8-H)	NUI	1988	Gas		(4.34049, 53.33528)
L 8-P (L 8-P)	NUI	1994	Gas		(4.33503, 53.38271)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
L 8-P4 (L 8-P4)	NUI	2000	Gas		(4.322, 53.3941)
L 9-FA-1 (L 9-FA-1)	NUI	2007	Gas		(4.43464, 53.33)
L 9-FB-1 (L 9-FB-1)	NUI	2007	Gas		(4.52131, 53.3359)
L 9-FF-1P (L 9-FF-1)	FMI	1997	Gas	22	(4.57372, 53.36529)
L 9-FF-1W (L 9-FF-1W)	NUI	1997	Gas		(4.57421, 53.36556)
L10-AC (L10-AC)	NUI	1987	Gas		(4.12046, 53.24211)
L10-AP (L10-AP)	NUI	1974	Gas		(4.12046, 53.24211)
L10-AR (L10-AR)	NUI	1974	Gas		(4.12046, 53.24211)
L10-AW (L10-AD)	FMI	1974	Gas	64	(4.12046, 53.24211)
L10-PB (L10-PB)	NUI	1974	Gas		(4.14, 53.27267)
L10-PBB (L10-PBB)	NUI	1980	Gas		(4.14, 53.27269)
L10-PC (P) (L10-PC)	NUI	1974	Gas		(4.12084, 53.2338)
L10-PD (P) (L10-PD)	NUI	1977	Gas		(4.1254, 53.2433)
L10-PE (L10-PE)	NUI	1977	Gas		(4.14132, 53.2557)
L10-PEE (L10-PEE)	NUI	1984	Gas		(4.14132, 53.2557)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
L10-PF (L10-PF)	NUI	1980	Gas		(4.15387, 53.23137)
L10-PG (P) (L10-PG)	FMI	1984	Gas	12	(4.1148, 53.2928)
L10-PL (L10-PL)	NUI	1988	Gas		(4.11056, 53.25093)
L10-PM (L10-PM)	NUI	2000	Gas		(4.0126, 53.2421)
L11-B (L11-B)	FMI	1986	Gas	14	(4.2904, 53.2804)
L13-FC-1P (L13-FC-1P)	FMI	1986	Gas	18	(4.12298, 53.17)
L13-FC-1W (L13-FC-1W)	NUI	1986	Gas		(4.12349, 53.17029)
L13-FD-1 (L13-FD-1)	FMI	1988	Gas	6	(4.1447, 53.1543)
L13-FE-1 (L13-FE-1)	FMI	1989	Gas	6	(4.14531, 53.18501)
L13-FI-1 (L13-FI-1)	NUI	2017	Gas		(4.04572, 53.143003)
L15-FA-1 (L15-FA-1)	FMI	1992	Gas	16	(4.21103, 53.19487)
L5-FA-1 (L5-FA-1)	FMI	1992	Gas	16	(4.21103, 53.48413)
M 7-A (M 7-A)	NUI	2009	Gas		(5.0839, 53.3745)
Markham J 6 (Markham J 6)	FMI	1992	Gas	32	(2.5643, 53.4927)
MARKHAM J 6-CT (MARKHAM J 6-CT)	NUI	2006	Gas		(2.5643, 53.4927)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
N 7-FA-1 (N 7-FA-1)	NUI	1997	Gas		(6.017075, 53.3033)
P 6-A (P 6-A)	FMI	1982	Gas	29	(3.4527, 52.45218)
P 6-B (P 6-B)	NUI	1985	Gas		(3.48182, 52.44174)
P 6-D (P 6-D)	NUI	2001	Gas		(3.4336, 52.42046)
P11-B-De-Ruyter (P11-B-De-Ruyter)	FMI	2006	Oil	39	(3.2031, 52.21135)
P11-E (P11-E)	NUI	2016	Gas		(52.2116, 3.3511)
P12-SW (P12-SW)	NUI	1990	Gas		(3.45357, 52.2426)
P15-D (P15-D)	NUI	1993	Gas		(3.49017, 52.17236)
P15-E (P15-E)	NUI	1993	Gas		(3.52092, 52.10212)
P15-F (P15-F)	NUI	1993	Gas		(3.4111, 52.18238)
P15-G (P15-G)	NUI	1993	Gas		(3.4427, 52.13241)
P15A-DP (RIJN A) (P15A-DP (RIJN A))	NUI	1985	Oil		(3.4903, 52.1728)
P15C-PP (RIJN C) (P15C-PP (RIJN C))	FMI	1985	Oil	56	(3.4906, 52.17251)
P18-A (P18-A)	NUI	1993	Gas		(3.5622, 52.074)
Q 1 HALFWEG (Q 1 HALFWEG)	NUI	1983	Gas		(4.1902, 52.5209)

Name or ID	Type of installation, i.e. Fixed manned installation (FMI); (Fixed) normally unmanned (NUI); Floating production install. (FPI); Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
Q 1 HAVEN-A (Q 1 HAVEN-A)	NUI	1989	Oil		(4.0605, 52.5804)
Q 1 HELDER-AP (Q 1 HELDER-AP)	FMI	1982	Oil	36	(4.0553, 52.5513)
Q 1 HELDER-AW (Q 1 HELDER-AW)	FMI	1982	Oil		(4.0553, 52.5513)
Q 1 HELM-AP (Q 1 HELM-AP)	FMI	1981	Oil	36	(4.083, 52.5213)
Q 1 HELM-AW (Q 1 HELM-AW)	NUI	1981	Oil		(4.083, 52.5213)
Q 1 HOORN-AP (Q 1 HOORN-AP)	NUI	1983	Oil		(4.0912, 52.553)
Q 1 HOORN-AW (Q 1 HOORN-AW)	NUI	1983	Oil		(4.09013, 52.55312)
Q 1-D (Q 1-D)	NUI	2013	Gas		(4.10119, 52.52174)
Q 4-A (Q 4-A)	NUI	2000	Gas		(4.16056, 52.46468)
Q 4-B (Q 4-B)	NUI	2002	Gas		(4.1803, 52.4303)
Q 4-C (Q 4-C)	NUI	2003	Gas		(4.1705, 52.4935)
Q10-A (Q10-A)	NUI	2018	Gas		(4.2147, 52.957)
Q13A-A (Q13A-A)	FMI	2013	Oil/Gas	14	(4.08146, 52.11309)
ZUIDWAL (ZUIDWAL)	NUI	1987	Gas		(5.1001, 53.1114)

2.2. **Changes since the previous reporting year :**

- (a) **Fixed installations:** Please report new fixed installations, entered in operation during the reporting period:

Table 2.2.a.

New fixed installations entered in operation during the reporting period

Name or ID	Type of installation, i.e. Fixed manned installation (FMI) (Fixed) normally unmanned (NUI) Floating production install. (FPI) Fixed non-production install. (FNP)	Year of installation	Type of fluid, i.e. Oil; Gas; Condensate; Oil/Gas; Oil/Condensate	Number of beds	Coordinates (longitude - latitude)
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no installation to report

- (b) **Fixed installations out of operation:** Please report the installations that went out of offshore oil and gas operations during the reporting period:

Table 2.2.b.

Installations that were decommissioned during the reporting period

Name or ID	Type of installation, i.e. Fixed manned installation (FMI) (Fixed) normally unmanned (NUI) Floating production install. (FPI) Fixed non-production install. (FNP)	Year of installation	Coordinates (longitude - latitude)	Temporary / Permanent
L10-PC (L10-PC)	NUI	1974	(4.12084, 53.2338)	Permanent
L10-PD (L10-PD)	NUI	1977	(4.1254, 53.2433)	Permanent
L10-PG (L10-PG)	FMI	1984	(4.1148, 53.2928)	Permanent

- 2.3. **Mobile installations** Please report the mobile installations carrying out operations during the reporting period (MODUs and other non-production installations):

Table 2.3.

Mobile installations

Name or ID	Type of installation, i.e Mobile offshore drilling; Other mobile non-production;	Year of construction	Number of beds	Geographical area of operations; and Duration	
				Area	Duration (months)
Maersk Resilient	MODU	2008	120	North Sea South	2
Maersk Resolve (8768244)	MODU	2009	120	North Sea South	9
Prospector 1	MODU	2013	140	North Sea South	7
Prospector 5	MODU	2014	140	North Sea South	3
Seafox 4	MOA	1976	150	North Sea South	1
Valaris-121	MODU	2014	150	North Sea South	3

2.4. **Information for data normalization purposes** Please provide the total number of actual offshore working hours and the total production in the reporting period:

(a) Total number of actual working hours for all installations: 3738206

(b) Total production, in ktoe: 9826

Oil production (*specify units*): 451 (ktoe)

Gas production (*specify units*): 9375 (ktoe)

SECTION 3

REGULATORY FUNCTIONS AND FRAMEWORK

3.1. Inspections

Number of offshore inspections performed over the reporting period.

Number of offshore inspections	Man-days spent on installation (travel time not included)	Number of inspected installations
46	21	36

3.2. Investigations

Number and type of investigations performed over the reporting period.

(a) Major accidents: 0

(pursuant to Article 26 of Directive 2013/30/EU)

(b) Safety and environmental concerns: 0

(pursuant to Article 22 of Directive 2013/30/EU)

3.3. Enforcement actions

Main enforcement actions or convictions performed in the reporting period pursuant to Article 18 of Directive 2013/30/EU.

Narrative

none

3.4. Major changes in the offshore regulatory framework

Please describe any major changes in the offshore regulatory framework during the reporting period.

(include e.g. rationale, description, expected outcome, references)

Rationale

none

Description

none

Expected outcome

none

SECTION 4

INCIDENT DATA AND PERFORMANCE OF OFFSHORE OPERATIONS

4.1. Incident data

Number of reportable events pursuant to Annex IX: 4

of which identified as being major accidents: 0

4.2. Annex IX Incident Categories

Annex IX categories	Number of events	Normalized number of events	
	(reported number)	(events/hours worked)	(events/ktoe)
(a) Unintended releases	4	1.070e-6	4.071e-4
Ignited oil/gas releases - Fires	1	2.675e-7	1.018e-4
Ignited oil/gas releases - Explosions	0	0.000e+0	0.000e+0
Not ignited gas releases	1	2.675e-7	1.018e-4
Not ignited oil releases	2	5.350e-7	2.035e-4
Hazardous substances released	0	0.000e+0	0.000e+0
(b) Loss of well control	0	0.000e+0	0.000e+0
Blowouts	0	0.000e+0	0.000e+0
Activation of BOP / diverter system	0	0.000e+0	0.000e+0
Failure of a well barrier	0	0.000e+0	0.000e+0
(c) Failures of SECE	0	0.000e+0	0.000e+0
(d) Loss of structural integrity	0	0.000e+0	0.000e+0
Loss of structural integrity	0	0.000e+0	0.000e+0
Loss of stability/buoyancy	0	0.000e+0	0.000e+0
Loss of station keeping	0	0.000e+0	0.000e+0
(e) Vessel collisions	0	0.000e+0	0.000e+0
(f) Helicopter accidents	0	0.000e+0	0.000e+0
(g) Fatal accidents	0	0.000e+0	0.000e+0
(h) Serious injuries of 5 or more persons in the same accident	0	0.000e+0	0.000e+0

Annex IX categories	Number of events	Normalized number of events	
	(reported number)	(events/hours worked)	(events/ktoe)
(i) Evacuation of personnel	0	0.000e+0	0.000e+0
(j) Environmental accidents	0	0.000e+0	0.000e+0
Values used for normalization: Provided in Section 2.4 of this document	Total number of actual offshore working hours for all installations: 3738206		
	Total production, in ktoe: 9826		

4.3. Total number of fatalities and injuries (**)

	Number	Normalized value
Number of fatalities	0	0.000e+0
Total number of injuries	9	2.250e+0
Total number of serious injuries	2	5.000e-1

(**) A total number as reported pursuant to 92/91/EEC

Value used for normalization: Number of reportable events pursuant to Annex IX: 4
Provided in Section 4.1. of this document

4.4. Failures of Safety and Environmental Critical Elements (SECEs)

SECE	Number related to major accidents
(a) Structural integrity systems	0
(b) Process containment systems	0
(c) Ignition control systems	0
(d) Detection control systems	0
(e) Process containment relief systems	0
(f) Protection systems	0
(g) Shutdown systems	0
(h) Navigational aids	0
(i) Rotating equipment	0
(j) Escape, evacuation and rescue equipment	0
(k) Communication systems	0
(l) other	0

4.5. Direct and Underlying causes of major incidents

Causes	Number of incidents	Causes	Number of incidents
(a) Equipment failures - Total	0	(c) Procedural / Organizational error - Total	0
<i>Design failures</i>	0	<i>Inadequate risk assessment/perception</i>	0
<i>Internal corrosion</i>	0	<i>Inadequate instruction/procedure</i>	0
<i>External corrosion</i>	0	<i>Non-compliance with procedure</i>	0
<i>Mechanical failures due to fatigue</i>	0	<i>Non-compliance with permit-to-work</i>	0
<i>Mechanical failures due to wear-out</i>	0	<i>Inadequate communication</i>	0
<i>Mechanical failures due to defected material</i>	0	<i>Inadequate personnel competence</i>	0
<i>Mechanical failures (vessel/helicopter)</i>	0	<i>Inadequate supervision</i>	0
<i>Instrument failures</i>	0	<i>Inadequate safety leadership</i>	0
<i>Control system failures</i>	0	<i>other</i>	0
<i>other</i>	0		
(b) Human error-operational causes - Total	0	(d) Weather-related causes - Total	0
<i>Operation error</i>	0	<i>Wind in excess of limits of design</i>	0
<i>Maintenance error</i>	0	<i>Waves in excess of limits of design</i>	0
<i>Testing error</i>	0	<i>Extremely low visibility in excess of limits of design</i>	0
<i>Inspection error</i>	0	<i>Presence of ice or icebergs</i>	0
<i>Design error</i>	0	<i>other</i>	0
<i>other</i>	0		

4.6. Which are the most important lessons learned from the incidents that deserve to be shared?

Narative

None, in 2020 no incidents that deserve to be shared.

ANNEX
REMARKS