

Methodological notes accompanying the

Report on the state and safety of the offshore activities in the hydrocarbon upstream sector Italy Year 2018

Table of notes on

Section 1 – Profile.....	1
Section 2 –Installations.....	1
2.1.Fixed installations.....	1
2.2. Changes since the previous reporting year.....	2
2.3.Mobile installations.....	3
2.4. Information for data normalization purposes.....	3
Section 3 – Regulatory functions and framework.....	3
3.1.Inspections.....	3
3.2.Investigations.....	4
3.3.Enforcements actions.....	4
3.4.Major changes in the offshore regulatory framework.....	4
Section 4 – Incidents data and performance of offshore operations.....	4
4.1.Incident data.....	4
4.2.Incident categories.....	4
4.3.Total number of fatalities and injuries.....	5
4.4.Failure of Safety and Enviromental Critical Element (SECEs).....	5
4.5.Direct and underlying causes of major incidents.....	5
4.6.Most important lessons learned from the incidents.....	5

Section 1 – Profile

No notes on this session.

Section 2 –Installations

2.1.Fixed installations

[✓a] Table 2.1 Installations within jurisdiction of the State on 1st January 2018

All fixed offshore installations, physically present on 1st January of the year 2018 are specified in table 2.1, even if they are not productive.

The list also includes FIRENZE FPSO which, in the course of 2018, was disconnected and temporarily removed.

[✓b] *Name and ID*

In this report (Year 2018) the names of some installations have been revised to be consistent with the relative acronyms. A scheme is shown below, which compares the names of the previous edition (Year 2017) and the current one (Year 2018).

Name Report Year 2017	Revised name Report Year 2018	Acronym
Porto Corsini MEC	Porto Corsini C	PC C
Porto Corsini MS1	Porto Corsini M S1	PCM S1
Porto Corsini MS2	Porto Corsini M S2	PCM S2
Porto Corsini MWA	Porto Corsini W A	PCW A
Porto Corsini MWB	Porto Corsini W B	PCW-B
Porto Corsini MWC	Porto Corsini W C	PCW-C
Porto Corsini MWT	Porto Corsini W T	PCW T

[✓c] *Type of installation*

1. In addition to the requirements of the Regulation(EU) n. 1112/2014, the table also shows the subsea wellheads, specifying the year of installation, the type of fluid produced and the coordinates; in order to be consistent with the classification system adopted by Regulation, the submarine wellheads are classified under the NUI label (fixed plant normally unmanned); the subsea wellheads are *AQUILA 2, AQUILA 3, ARGO 1, ARGO 2, BONACCIA EST 2, BONACCIA EST 3, CAMILLA 2, CASSIOPEA 1, ELENA 1, EMILIO 3, LUNA 27, LUNA 40 SAF, PANDA 1, PANDA W1;*

2. The floating units supporting the hydrocarbon production (FPI) can be further detailed in FSO (they are *ALBA MARINA* and *LEONIS*) and FPSO (it is *FIRENZE FPSO*), in order to specify the different typology;
3. The platforms supporting the hydrocarbon production (treatment/compression/gathering) are in detail: *AZALEA B PROD*, *BARBARA T*, *BARBARA T2*, *BRENDA PROD*, *CERVIA K*, *DARIA B*, *GARIBALDI K*, *GARIBALDI T*, *PORTO CORSINI W T*, *SAN GIORGIO MARE C*.

[✓d]

Year of installation

We have assumed that the year of installation refers to the year of offshore installation campaign.

[✓e]

Number of beds

1. The number of beds refers to the number of beds located in the installation and intended for personnel;
2. The number of beds became zero in 2018 on the platform *ANTARES A*.

[✓f]

Coordinates

The coordinates in the table refer to the World Geodetic System 1984 (WGS84).

2.2. Changes since the previous reporting year

[✓g]

Table 2.2.a *New fixed installations entered in operations during the reporting period*

No offshore installations entered in operations during the reporting period.

Regarding the fields *Year of installation*, *Number of beds* and *Coordinates*, respectively, the previous notes [✓d], [✓e.1] and [✓f] can be considered.

[✓h]

Table 2.2.b *Decommissioned Installations during the reporting period*

1. The table refers to the installations which were subject to temporary / permanent decommissioning during the reporting period [2018];
2. One (1) *Floating Production Storage and Offloading Unit (FIRENZE FPSO)* was disconnected in 2018 and temporarily removed.

Regarding the fields *Year of installation* and *Coordinates*, the previous notes [✓d] and [✓f] can be respectively considered

2.3.Mobile installations

[✓i] *Table 2.3 Mobile installations*

1. Mobile installations involved in well operations have been listed in the table.

2.4. Information for data normalization purposes

- [✓i]**
1. For the purpose of this Implementing Regulation, normalization means a transformation applied uniformly to each element in a set of data so that the set has some specific statistical property;
 2. The source for hydrocarbon production data is the database of the *Directorate General for Safety of mining and energy activities – UNMIG - National Mining Office for Hydrocarbons and Georesources of the Ministry of the Economic Development*;
 3. The calculation of the hydrocarbon production figure in kilo tonnes of oil equivalent (kTOE) was developed exclusively for the purposes of this report, which is the data normalization. It is based on the following assumptions:
 - a. The definition of TOE of the *International Energy Agency*, according to which the tonne of oil equivalent is equal to 10^7 kilocalories or 41.868 GJ (gigajoule);
 - b. The value of 8190 kcal/m³ is conventionally assigned to the lower calorific value of the natural gas, in continuity with what was done in previous edition;
 4. Information related to the offshore working hours are provided by the operators to the *Directorate General for Safety of mining and energy activities - National Mining Office for Hydrocarbons and Georesources of the Ministry of the Economic Development*.

Section 3 – Regulatory functions and framework

3.1.Inspections

[✓m] Inspection table

1. The figures show the information on the inspection activities carried out in 2018
Column 1. *Number of offshore inspections* means the number of site

inspections carried out on board of offshore installations during the reporting period.

Column 2. *Man-days spent on installations* means the total sum of days spent, during the year 2018, to carry out inspections on the installations by each inspector involved, not considering travel time. Site inspections might be carried out on different installations in the same day if they are nearby.

Column 3. *Number of inspected installations* means the number of different installations inspected during the year 2018.

3.2. Investigations

No notes on this paragraph.

3.3. Enforcements actions

No notes on this paragraph.

3.4. Major changes in the offshore regulatory framework

No notes on this paragraph.

Section 4 – Incidents data and performance of offshore operations

4.1. Incident data

No notes on this paragraph.

4.2. Incident categories

No notes on this paragraph.

4.3.Total number of fatalities and injuries

Table 4.3. Total number of fatalities and injuries

[√n] Total number of fatalities and injuries

1. Personal injury is classified as *serious* if the absence from work is more than 30 days.
- [√o]** 2. Two of the four serious injuries (with absences of 40 and 70 days) are not related to oil and gas activities but to tripping/falling events, which were occurred to personnel operating on the platforms during their stay on them, outside working hours.

4.4.Failure of Safety and Enviromental Critical Element (SECEs)

No notes on this paragraph.

4.5.Direct and underlying causes of major incidents

No notes on this paragraph.

4.6.Most important lessons learned from the incidents

No notes on this paragraph.