

CEMP Appendix O1: Discharges, spills and emissions associated with the offshore oil and gas industry (Revised 2017)

Title: Discharges, spills and emissions associated with the offshore oil and gas industry			
Monitoring Purpose	Data trending to monitor effectiveness of OSPAR measures	Applicable MSFD GES Criteria	Not applicable not included in Commission Decision 2010/477/EU
Monitoring Guidelines / Monitoring Method in place	<p>Produced Water Discharges (Theme O1, O2, O3)</p> <p>OSPAR Recommendation 2001/1 for the Management of Produced Water from Offshore Installations (as amended by OSPAR Recommendation 2006/4 and OSPAR Recommendation 2011/8).</p> <p>Data to be reported to OSPAR for:</p> <ul style="list-style-type: none"> • Total quantity of produced and displacement water discharged; • Total quantity of dispersed oil (aliphatic oil) discharged in produced and displacement water; • Total quantity of dissolved oil (as represented by BTEX components) discharged in produced and displacement water <p>Quantification, sampling and analysis carried out as per national standards but analysis should be to the OSPAR Reference method (OSPAR Agreement number: 2005-15) or a method that can be correlated to it.</p>	Assessment Guidelines	<p>National authorities review and assess data and trends, with consolidated Contracting Parties data assessed and reviewed by the OIC Expert Assessment Panel (EAP).</p> <p>The exception is the data on discharges of radioactive substances in produced water which is assessed by RSC.</p>

	<p>Offshore Chemicals (Theme O4)</p> <p>OSPAR Decision 2000/2 on a Harmonised Mandatory Control System for the Use and Reduction of the Discharge of Offshore Chemicals.</p> <p>OSPAR Recommendation 2006/3 on Environmental Goals for the Discharge by the Offshore Industry of Chemicals that Are, or Which Contain Substances Identified as Candidates for Substitution</p> <p>OSPAR Recommendation 2005/2 on Environmental Goals for the Discharge by the Offshore Industry of Chemicals that Are, or Contain Added Substances, Listed in the OSPAR 2004 List of Chemicals for Priority Action</p> <p>Data to be reported to OSPAR for total quantity of offshore chemicals used and discharged and reported using the categories detailed in Decision 2000/2.</p> <p>Organic Phase Fluids (Theme O5)</p> <p>OSPAR Decision 2000/3 on the Use of Organic-phase Drilling Fluids (OPF) and the Discharge of OPF-contaminated Cuttings.</p> <p>Data to be reported to OSPAR for:</p> <ul style="list-style-type: none"> • total quantity of OPF used; • total quantity of OPF discharged on cuttings, injected and transported to shore; • average concentration of OPF on cuttings 		
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	<p>Radioactive Substances (Theme O6)</p> <p>OSPAR Agreement on a monitoring programme for concentrations of radioactive substances in the Marine Environment (2005-8, 2011 Revision)</p> <p>Data to be reported to OSPAR for Pb-210, Ra-226, Ra-228 in produced water.</p> <p>Sampling and analysis carried out as per national monitoring programmes and requirements.</p>		
Quality Assurance Procedures in place	<p>National QA procedures for measurement and analysis are in place for reporting of national data.</p> <p>The OIC EAP reviews national data in accordance with OSPAR Agreement 2004-1, Appendix 2 (Guidance for the Collection and Assessment of Data and Information) setting out the EAP procedures for OIC and the Quality Assurance Handbook, 2009 update (OSPAR Publication Number 343/2007)</p> <p>http://www.ospar.org/documents?v=7274</p>	Assessment tools available	N/A
Quality Control	National QC through national procedures	Data Custodian	OSPAR
Element Monitored	<p>Produced and displacement water</p> <p>Dispersed oil and BTEX</p> <p>Offshore chemicals</p> <p>OBF/OPF</p> <p>Pb-210, Ra-226, Ra-228</p>	Data Depository	OSPAR ODIMS

Parameter Measured	Quantity of produced and displacement water discharged Concentration of dispersed oil and BTEX components in produced and displacement water discharged. Quantity of chemicals used and discharged categorised according to OSPAR Recommendation 2016/4 on a Harmonised Pre-screening Scheme for Offshore Chemicals: PLONOR; LCPA; LC50 or EC50 < 1 mg/l; Biodegradation < 20 %; Substances which meet two of three criteria (biodegradation less than 60 %, BCF larger than 100 or Log Pow ≥ 3, or LC50/EC50 less than 10 mg/L); Inorganic, LC50 or EC50 > 1 mg/l; and Ranking. Quantity of OPF used and discharged, quantity of OPF discharged on cutting, transported to shore and reinjected. Concentration of Pb-210, Ra-226, Ra-228 in produced water		Indicator Metric	Dispersed oil – mg/l Quantity oil discharged or spilled – tonnes Quantity of chemicals used, discharged and spilled – kg (except Norway which reports in m ³) Atmospheric emissions - tonnes	
Temporal scope	Start date: 2001 End date: 9999 (9999 if ongoing)		Data submission Frequency/ deadline and link to reporting format	1 November annually Reporting format: http://www.ospar.org/data	
Spatial Scope	<i>Variable</i>	<i>Data reported from offshore installations</i>			
Nature of Data	<i>Unprocessed data</i>		Aggregation of Data	<i>By CP region with the exception of discharges of radioactive substances which is reported by OSPAR subregion</i>	
OSPAR Region	Arctic Waters²⁴	Greater North Sea	Celtic Seas	Bay of Biscay & Iberian Coast	Wider Atlantic
OIC Subregion	n/a	n/a	n/a	n/a	n/a
Contracting Parties monitoring	NO, D, ISK	NO, GE, NL, DK, UK	IE, UK	ES	IE, UK

²⁴ OIC previously agreed that data requirements and special measures should only relate to waters potentially affected by sea ice

Contracting parties supplying data	NO, DK, IS	NO, GE, NL, DK, UK	IE, UK	ES	IE, UK
Spatial Resolution (proportion)	100% for OIC regions where data is reported	100% for OIC regions where data is reported	100% for OIC regions where data is reported	100% for OIC regions where data is reported	100% for OIC regions where data is reported
Spatial Resolution (Density)	??	??	??	??	??
Contracting Parties with an “opt out”	N/A	N/A	N/A	N/A	N/A