

CEMP Appendix R3: Liquid Discharges from Nuclear Installations (nuclear sector) (Revised 2017)

Title: Liquid Discharges from Nuclear Installations (nuclear sector)			
Monitoring Purpose	<i>Pressure</i>	Applicable MSFD GES Criteria	Not applicable (NA); not included in Commission Decision 2010/477/EU. However, the “introduction of radioactive substances” is included as a pressure in Annex III, Table 2 of the MSFD.
Monitoring Guidelines / Monitoring Method in place	<p>OSPAR AGREEMENT ON REPORTING OF LIQUID DISCHARGES FROM NUCLEAR INSTALLATIONS (2013-10, revised 2014)</p> <p>[Link to reporting format will be added following OSPAR data strategy]</p> <p>Liquid discharges are reported as total-alpha, total-beta (excluding tritium), tritium and for a suite of other individual radionuclides for the following sub-sectors:</p> <ul style="list-style-type: none"> • Nuclear Power Stations; • Nuclear Fuel Reprocessing Plants; • Nuclear Fuel Fabrication and Enrichment Plants; • Research and Development Facilities; • Discharges from decommissioning and treatment/recovery of old radioactive waste <p>Sampling and analysis carried out as per national requirements.</p>	Assessment Guidelines	<p>The 2003 Progress Report on the More Detailed Implementation of the OSPAR Strategy with regard to Radioactive Substances sets out the principles on which the baseline for the evaluation of liquid discharges from Nuclear Installations have been derived; most recent application in:</p> <p>^{4th} Periodic Evaluation towards the Radioactive Substances Strategy objectives</p> <p>http://www.ospar.org/documents?d=35337</p> <p>Assessments carried out for total-alpha, total-beta (excluding tritium) and the individual radionuclides Tc-99, Cs-137 and Pu-239,240.</p>
Quality Assurance Procedures in place	National QA procedures for analysis.	Assessment tools available	an assessment period. Comparison of the baseline bracket with annual means of the assessment period.

Quality Control	Other QC - National QC through national and international validation exercises. National QC in reporting of data through use of defined reporting format and QC before submission to RSC database by the EAP		Data Custodian	OSPAR	
Element Monitored	<i>total-alpha, total-beta (excluding tritium), tritium and a suite of other individual radionuclides</i>		Data Depository	ODIMS OSPAR nuclear sector discharge database	
Parameter Measured	Liquid discharges		Indicator Metric	Bq/yr	
Temporal scope	Start date: 1995 End date: 9999 (9999 if ongoing) Monitoring frequency: Other - Discharge data is reported by Contracting Parties as cumulative discharges per year for each sub-sector as relevant.		Data submission Frequency/ deadline and link to reporting format	30 September Annually Reporting format: [Link to reporting format will be added following OSPAR data strategy]	
Spatial Scope	<i>Variable</i>	<i>(explanation of spatial scope) Discharges occurring in coastal waters or rivers</i>			
Nature of Data	<i>Unprocessed data</i>		Aggregation of Data	<i>By Contracting Party for each sub-sector. Discharges are not assigned to particular OSPAR regions. Discharges reported by BE, CH, DK, ES, FR, DE, NL, NO, PT, SE and UK.</i>	
OSPAR Region	Arctic Waters	Greater North Sea	Celtic Seas	Bay of Biscay & Iberian Coast	Wider Atlantic
Contracting Parties monitoring	NA	NA	NA	NA	NA
Contracting parties supplying data	NA	NA	NA	NA	NA
Spatial Resolution (proportion)	NA	NA	NA	NA	NA
Spatial Resolution (Density)	NA	NA	NA	NA	NA
Contracting Parties with an “opt out”	NA	NA	NA	NA	NA



Figure 1.1: Nuclear sites (within Contracting Parties) impacting upon the North-East Atlantic maritime area.