

REPORT ON THE MEMBER STATES IMPLEMENTATION OF COUNCIL DIRECTIVE 2006/117 EURATOM ON THE SUPERVISION AND CONTROL OF SHIPMENTS OF RADIOACTIVE WASTE AND SPENT FUEL BETWEEN MEMBER STATES AND INTO AND OUT OF THE COMMUNITY

**Member State:
CROATIA**

Reporting Period: from 26/12/2017 to 25/12/2020 PART A¹

INFORMATION ON THE IMPLEMENTATION OF COUNCIL DIRECTIVE 2006/117/EURATOM

1) INFORMATION ON THE IMPLEMENTATION OF THE DIRECTIVE

Council Directive 2006/117/Euratom on the Supervision and Control of Shipments of Radioactive Waste and Spent Fuel between Member States and into and out the Community is fully implemented in Croatian legal and regulatory framework by Ordinance on the Supervision and Control of Transboundary Shipments of Radioactive Waste and Spent Fuel (Official Gazette 11/13).

The current radiological and nuclear safety legislation in Croatia is based on the 2013 Act on Radiological and Nuclear Safety (as amended in 2015, 2017 and in 2018), with regulations issued by the Government and ordinances issued by the regulatory body. The provisions of the Act are harmonized with the EU directives and regulations.

The Ministry of Interior is the regulatory body entrusted with the implementation of the legislative and regulatory framework and, as the state administration body, is the competent authority for all activities pertaining to radiological and nuclear safety, including supervision and control of transboundary shipments of radioactive waste and spent fuel.

2) INFORMATION ON SIGNIFICANT CONDITIONS REQUIRED BY THE MEMBER STATES – EXPORT CRITERIA IMPLEMENTATION

There are no any significant conditions required.

3) INFORMATION ON CASES OF REFUSAL TO GIVE AUTHORISATION /CONSENT

There were no cases of refusal to give authorization consent.

¹Part A of the form can be filled in by plain text whereas Part B requires also numerical data.

4) PROBLEMS EXPERIENCED WHEN USING THE STANDARD DOCUMENT

There was no use of standard document.

5) OTHER ISSUES, PROPOSALS AND RECOMMENDATIONS ON THE IMPLEMENTATION OF THE DIRECTIVE

No other issues.

PART B

INFORMATION ON THE SITUATION WITH REGARD TO SHIPMENTS OF RADIOACTIVE WASTE AND SPENT FUEL IN INDIVIDUAL MEMBER STATES

The information provided in this section should support the overview in Section A above. It is proposed to use the attached tables B-1 and B-2 for both authorisations and consents (all columns to be filled out).

Specific information on the number and scope of (i) authorisations and (ii) consents issued for import, export and transit through the Community in the reporting period for:

- a) Radioactive waste will be provided in Table B-1;
- b) Spent fuel will be provided in Table B-2.

Only those shipments are to be reported for which either an authorisation or a refusal have been issued during the reporting period.

All information requested in table B-1 and B-2 of the present reporting template is based on the **Standard Document**² and can be retrieved from it. Footnotes have been included in the reporting template referring to specific sections of the standard document, with the objective to facilitate correct reporting.

It is recommended to include in the first column of the tables B-1 and the B-2 the **Authorisation Registration Number**, indicated on each Section of the Standard Document, for the reporting of both authorisations and consents. In column 2 of these tables, the type of shipments should be clearly indicated (through the use of **shipment codes** – MM, ME, EM, TT – as appropriate).

² Commission Decision of 5 March 2008 establishing the standard document for the supervision and control of shipments of radioactive waste and spent fuel referred to in Council Directive 2006/117/Euratom (notified under document number C(2008) 793) (2008/312/Euratom).

In case of return shipments, for traceability purposes, reporting Member States may include in the column “Purpose of the shipment” a reference to the Authorisation Registration Number of the previous shipment, if available.

Table B-1: Information on shipments of radioactive waste within the scope of Council Directive 2006/117/Euratom

Reporting period: 26/12/20xx – 25/12/20yy

Member State authorising the shipment(s)¹ (recommended Authorisation Registration Number ²)	Type of shipment(s)³	Number of (planned) shipments per authorisation⁴	Nature of the waste⁵ and physico chemical characteristics of the waste⁶	Total activity of the authorisation⁷ (GBq) a) total alpha activity b) total beta/gamma activity	Main radionuclides⁸	Maximum activity per package⁹ (GBq) a) maximum alpha activity b) maximum beta/gamma activity	Type of activity giving raise to the waste¹⁰	Purpose of the shipment¹¹	Mode(s) of transport¹²	Ordered list of countries involved¹³
No	No	No	No	No	No	No	No	No	No	No

Table B-2: Information on shipments of spent fuel within the scope of Council Directive 2006/117/Euratom

Reporting period: 26/12/20xx – 25/12/20yy

Member State authorising the shipment(s) ¹⁴ (recommended Authorisation Registration Number ²)	Type of shipment(s) ¹⁵	Number of (planned) shipments per authorization ¹⁶	Type of spent fuel ¹⁷	Maximum enrichment ¹⁸ : a) of U-235 (%) b) maximum plutonium content (%)	Fuel burn up (average or typical range) ¹⁹ (MWd/tHM)	Total net mass ²⁰ (kg)	Type of activity giving rise to the spent fuel ²¹	Purpose of the shipment ²²	Proposed mode(s) of transport ²³	Sequential list of countries concerned ²⁴
No	No	No	No	No	No	No	No	No	No	No

Explanatory notes for Tables B1 and B2 (including the location of the required information in the Standard Document forms)

¹ Section A-4a number 21 (in case the authorisation has been granted), or Section A-4b number 24 (in case the authorisation has been refused). The Member State authorising the shipment(s) is the country: - *of origin* in case of a shipment type MM or ME; - *of destination* in case of a shipment type IM; - *where the shipment first enters the Community* in case of a shipment type TT. In case the authorisation has been refused, state "refused".

² In column 1 of these tables, the Authorisation Registration Number should be included. It is the unique reference number for one single authorisation process (i.e. from application until the granting of the authorisation), issued by the authorising Member State and shown on the top right of every page of the Standard Document.

³ Section A-1 number 1 (possible types: Type MM: Shipment between Member States (via one or more Member States or third countries); Type IM: Import into the Community (originating from a third country); Type ME: Export out of the Community (having a third country as final destination); Type TT: Transit through the Community (*originating from a third country and having a third country as final destination, it goes through the territory of one or more Member States*)).

⁴ Section A-1 number 2.

⁵ Section A-1 number 8.

⁶ Section A-1 number 8 (possible characteristics: solid; liquid; gaseous; other (e.g. fissile, low dispersible...; to be specified)).

⁷ Section A-1 number 8. These values are estimates if the application relates to several shipments. Activities are expressed in gigabequerel, unless otherwise indicated. The multiples of the bequerel, their prefixes and symbols utilised in the table are the following: kilobequerel, kBq = 10^3 Bq; megabequerel, MBq = 10^6 Bq; gigabequerel, GBq = 10^9 Bq; terabequerel, TBq = 10^{12} Bq; petabequerel, PBq = 10^{15} Bq.

⁸ Section A-1 number 8.

⁹ Section A-1 number 8. A package consists of radioactive waste or spent fuel in a certain consignment (e.g. in plastic bags, metal drums, other). A shipment may involve the movement of one or more packages.

¹⁰ Section A-1 number 10 (possible activities: medicine; research: (non-nuclear) industry, nuclear industry; other activity (to be specified)).

¹¹ Section A-1 number 11 (possible purposes: return of radioactive waste after (re)treatment or reprocessing of spent fuel; return of radioactive waste after treatment of radioactive waste; treatment, e.g. (re)packaging, conditioning, volume reduction; interim storage; return after interim storage; final disposal; other purpose (to be specified)). When referring to a return, this column should also include the original Authorisation Registration Number.

¹² Section A-1 number 14 (possible modes: road, rail, sea, air, inland waterway).

¹³ Section A-1 number 13.

¹⁴ Section B-4a number 21 (in case the authorisation has been granted) or Section B-4b number 24 (in case the authorisation has been refused). The Member State authorising the shipment(s) is the country: - *of origin* in case of a shipment type MM or ME; - *of destination* in case of a shipment type IM; - *where the shipment first*

enters the Community in case of a shipment type TT. In case the authorisation has been refused, state "refused".

¹⁵ Section B-1 number 1 (possible types: see footnote 3).

¹⁶ Section B-1 number 2.

¹⁷ Section B-1 number 8 (possible types: uranium metal; uranium dioxide; mixed oxide (MOX); other (please specify)).

¹⁸ Section B-1 number 8.

¹⁹ Section B-1 number 8.

²⁰ Section B-1 number 9.

²¹ Section B-1 number 10 (possible types: research; commercial nuclear power; other activity (to be specified)).

²² Section B-1 number 11 (possible purposes: (re)treatment or reprocessing; interim storage; return after interim storage; final disposal; other purposes (to be specified)). When referring to a return, this column should also include the original Authorisation Registration Number.

²³ Section B-1 number 12 (possible modes: see footnote 14).

²⁴ Section B-1 number 13.