

Information Circular

INFCIRC/549/Add.5/23

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Communication Received from France Concerning Its Policies Regarding the Management of Plutonium

Statements on the Management of Plutonium and of High Enriched Uranium

1. The Secretariat has received a note verbale dated 10 July 2019 from the Permanent Mission of France to the IAEA in the enclosures of which the Government of France, in keeping with its commitment under the Guidelines for the Management of Plutonium (contained in INFCIRC/549¹ of 16 March 1998 and hereinafter referred to as the “Guidelines”), and in accordance with Annexes B and C of the Guidelines, has made available annual figures for holdings of civil unirradiated plutonium and the estimated amounts of plutonium contained in spent civil reactor fuel as of 31 December 2018.
2. The Government of France has also made available a statement of its annual figures for holdings of civil high enriched uranium as of 31 December 2018.
3. In light of the request expressed by the Government of France in its note verbale of 28 November 1997 concerning its policies regarding the management of plutonium (INFCIRC/549 of 16 March 1998) and in its note verbale of 10 July 2019, the note verbale and the enclosures herewith are attached for the information of all Member States.

¹ A modification to this document was issued on 17 August 2009 (INFCIRC/549/Mod.1).

ANNEX B :

ANNUAL FIGURES FOR HOLDINGS OF CIVIL UNIRRADIATED PLUTONIUM

| | <u>As of 31 December 2018</u> | |
|--|--|---------------|
| | (2017 figures in brackets) Rounded to 100 kg plutonium with quantities less than 50 kg reported as such | |
| | <u>National total in tonnes</u> | |
| 1. Unirradiated separated plutonium in product stores at reprocessing plants. | 47,1 | (45,1) |
| 2. Unirradiated separated plutonium in the course of manufacture or fabrication and plutonium contained in unirradiated semi-fabricated or unfinished products at fuel or other fabricating plants or elsewhere. | 8,2 | (9,0) |
| 3. Plutonium contained in unirradiated MOX fuel or other fabricated products at reactor sites or elsewhere. | 26,9 | (26,5) |
| 4. Unirradiated separated plutonium held at facilities other than those stated in lines 1 and 2 *. | 0,9 | (0,2) |
| Total (lines 1+2+3+4) | 83,2 | (80,9) |

* Line 4 : covers estimated amounts of plutonium in process at reprocessing plants and estimated amounts of separated plutonium held at research facilities (CEA ou universités).

| | | |
|--|------------------|------------|
| (i) Plutonium included in lines 1-4 above belonging to foreign bodies. | 15,5 | (15,5) |
| (ii) Plutonium in any of the forms in lines 1-4 above held in locations in other countries and therefore not included above. | <50 kg | (<50 kg) |
| (iii) Plutonium included in lines 1-4 above which is in international shipment prior to its arrival in the recipient State. | 0 | (0) |

ANNEX C :***ESTIMATED AMOUNTS OF PLUTONIUM CONTAINED IN SPENT CIVIL REACTOR FUEL***

| | <u>As of 31 december 2018</u> | |
|--|--|---------|
| | (2017 figures in brackets) | |
| | Rounded to 1000 kg plutonium with quantities less than 500 kg reported as such | |
| | <u>National total in tonnes</u> | |
| 1. Plutonium contained in spent fuel at civil reactor sites. | 129,1 | (128,5) |
| 2. Plutonium contained in spent fuel at reprocessing plants. | 164,1 | (160,1) |
| 3. Plutonium contained in spent fuel held at facilities other than those stated in lines 1 and 2 | 6,4 | (6,4) |
| Total (lines 1+2+3) | 299,6 | (295,0) |

Definitions :

- Line 1 : covers estimated amounts of plutonium contained in fuel discharged from civil reactors;
- Line 2 : covers estimated amounts of plutonium contained in fuel received at reprocessing plants but not yet reprocessed;
- Ligne 3 : covers 1) estimated amounts of plutonium located at research centres and 2) discards.

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ANNUAL FIGURES FOR HOLDINGS OF CIVIL HIGH ENRICHED URANIUM

| <u>National total in kilograms</u> | <u>As of 31 December 2018</u> | |
|--|-------------------------------|--------|
| | (2017 figures in brackets) | |
| | Figures rounded to nearest kg | |
| 1. High enriched uranium stored at enrichment plants | | |
| 2. High enriched uranium in the course of fabrication at enrichment plants | | |
| 3. Unirradiated high enriched uranium at fuel fabrication or processing plants | 996 | (1031) |
| 4. Unirradiated high enriched uranium at civil reactor sites | 101 | (113) |
| 5. Unirradiated high enriched uranium not located at enrichment plants, fuel fabrication or processing plants, or civil reactors (for example: laboratories, research centres) | 2517 | (2510) |
| 6. Irradiated high enriched uranium at civil reactor sites | 91 | (134) |
| 7. Irradiated high enriched uranium not located at civil reactor sites | 1439 | (1402) |
| Total (lines 1 to 7) | 5144 | (5190) |