

(4) Reprocessing Facility (gaseous waste)

Japan Atomic Energy Agency, Reprocessing Facility		—	Krypton [⁸⁵ Kr] (Bq)	Iodine [¹²⁹ I] (Bq)
	Reprocessing facility total	—	¹⁰ 1.9×10	N.D.
	Annual release control target value	—	¹⁶ 8.9×10	⁹ 1.7×10
Japan Nuclear Fuel Ltd. Reprocessing Plant (reprocessing facility)		Radioactive Argon (Bq)	Krypton [⁸⁵ Kr] (Bq)	Iodine [¹²⁹ I] (Bq)
	Reprocessing facility total	N.D.	¹⁶ 1.8×10	⁸ 2.0×10
	Annual release control target value	-	¹⁷ 3.3×10	¹⁰ 1.1×10

Japan Atomic Energy Agency, Reprocessing Facility		Total particulate materials		
		[total alpha] (Bq)	-	[total beta and gamma] (Bq)
	Reprocessing Facilities Total	N.D.	-	N.D.
	Annual release control target value	*11 ⁻⁸ 2.2×10	-	*11 ⁻⁴ 1.1×10
Japan Nuclear Fuel Ltd. Reprocessing Plant (reprocessing facility)		Other nuclides (nuclides that emit alpha rays) (Bq)	Breakdown of the left column (by nuclide) Plutonium [Pu (alpha)] (Bq)	Other nuclides (nuclides that do not emit alpha rays) (Bq)
	Reprocessing facility total	N.D.	N.D.	⁵ 2.6×10
	Annual release control target value	⁸ 3.3×10	-	¹⁰ 9.4×10

Notes: The radioactivity (Bq) of gaseous waste is obtained by multiplying the concentration of the radioactive material (Bq/cm³) in the released gas by the amount of released gas.

Values lower than the detection limit of radioactivity are indicated as N.D.

- The detection limits are as follows. (Bq/cm³)

Japan Atomic Energy Agency, Reprocessing Facility

¹²⁹I : 3.7 x 10⁻⁸ or less

¹³¹I : 3.7 x 10⁻⁸ or less

¹⁴C : 4.0 x 10⁻⁵ or less

Total particulate materials

(Total alpha rays) : 1.5 x 10⁻¹⁰ or less

Total particulate materials

(Total beta and gamma rays) : 1.5 x 10⁻⁹ or less

Japan Nuclear Fuel Ltd., Reprocessing Plant (reprocessing facility)

Radioactive argon : 1 x 10⁻⁴ or less

Other nuclides (nuclides that emit alpha rays) : 4 x 10⁻¹⁰ or less

(The value for all alpha values was used.)

Pu (alpha) : 4 x 10⁻¹⁰ or less

¹⁰⁶Ru-¹⁰⁶Rh : 4 x 10⁻⁹ or less

(The values for particulate ¹⁰⁶Ru and volatile ¹⁰⁶Ru are indicated.)

¹³⁷Cs-^{137m}Ba : 4 x 10⁻⁹ or less

*11 Mean concentration control target values (Bq/cm³) for three months

(4) Reprocessing Facility (gaseous waste) (cont.)

Iodine [¹³¹ I] (Bq)	Tritium [³ H] (Bq)	Carbon [¹⁴ C] (Bq)
N.D.	9.9×10 ¹¹	N.D.
1.6×10 ¹⁰	5.6×10 ¹⁴	5.1×10 ¹²
Iodine [¹³¹ I] (Bq)	Tritium [³ H] (Bq)	Carbon [¹⁴ C] (Bq)
5.8×10 ⁶	3.7×10 ¹²	1.4×10 ¹²
1.7×10 ¹⁰	1.9×10 ¹⁵	5.2×10 ¹³

-	-	-
-	-	-
-	-	-
-	-	-
Breakdown of the left column (by nuclide)		
Strontium - Yttrium [⁹⁰ Sr- ⁹⁰ Y] (Bq)	Ruthenium - Rhodium [¹⁰⁶ Ru- ¹⁰⁶ Rh] (Bq)	Cesium - Barium [¹³⁷ Cs- ^{137m} Ba] (Bq)
2.6×10 ⁵	N.D.	N.D.
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