

(4) Reprocessing Facilities (Radioactive gaseous waste)

Japan Atomic Energy Agency, Nuclear Fuel Cycle Engineering Laboratories, Reprocessing Facility			Krypton [⁸⁵ Kr] (Bq)	Iodine [¹²⁹ I] (Bq)
	Reprocessing facilities total		N.D.	N.D.
	Annual release control target		8.9E+16	1.7E+09
Japan Nuclear Fuel Ltd., Reprocessing Plant (Reprocessing Facility)		Radioactive Argon (Bq)	Krypton [⁸⁵ Kr] (Bq)	Iodine [¹²⁹ I] (Bq)
	Reprocessing facilities total	N.D.	N.D.	N.D.
	Annual release control target	—	3.3E+17	1.1E+10

*15

Japan Atomic Energy Agency, Reprocessing Facility		Total radioactive particulate matter		
		Total alpha (Bq)		Total beta gamma (Bq)
	Reprocessing facilities total	N.D.		N.D.
	Annual release control target	*14 2.2E-08		*14 1.1E-04
Japan Nuclear Fuel Ltd., Reprocessing Plant (Reprocessing Facility)		Other radionuclides [nuclides that emit alpha rays] (Bq)	Left column breakdown (by nuclide) Plutonium [Pu(α)] (Bq)	Other radionuclides [nuclides that do not emit alpha rays] (Bq)
	Reprocessing facilities total	N.D.	N.D.	N.D.
	Annual release control target	3.3E+08	—	9.4E+10

Note: The radioactivity (Bq) of released gaseous waste was obtained by multiplying the concentration of radioactive material (Bq/cm³) in the released gases by the amount of released gases.

N.D. is used to indicate values lower than the detection limit concentration. "-" indicates that no annual release control target has been specified. Detection limit concentrations (Bq/cm³) are as follows.

Japan Atomic Energy Agency, Reprocessing Facility

¹⁴C : 4.0E-05 or less
¹²⁹I : 3.7E-08 or less
 Total radioactive particulate matter (total alpha) : 1.5E-10 or less
⁸⁵Kr : 2.4E-03 or less
¹³¹I : 3.7E-08 or less
 Total radioactive particulate matter (total beta gamma) : 1.5E-09 or less

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

Radioactive Argon : 1E-04 or less
⁸⁵Kr : 2E-02 or less
¹²⁹I : 4E-08 or less
¹³¹I : 7E-09 or less
 Other radionuclides (nuclides that emit alpha rays) : 4E-10 or less
 (represented by the value for total alpha)
 Pu(α) : 4E-10 or less
 Other radionuclides (nuclides that do not emit alpha rays) : 4E-09 or less
 (represented by the value for total beta (gamma))
¹⁰⁶Ru-¹⁰⁶Rh : 4E-09 or less
 (Values for particulate ¹⁰⁶Ru and volatile ¹⁰⁶Ru are indicated.)
¹³⁷Cs-¹³⁷mBa : 4E-09 or less
⁹⁰Sr-⁹⁰Y : 4E-10 or less
¹⁴C : 4E-05 or less

*15: Hereafter, "Japan Atomic Energy Agency, Reprocessing Facility"

(4) Reprocessing Facilities (Radioactive gaseous waste) (cont.)

Iodine [¹³¹ I] (Bq)	Tritium [³ H] (Bq)	Carbon [¹⁴ C] (Bq)
N.D.	2.0E+11	7.5E+09
1.6E+10	5.6E+14	5.1E+12
Iodine [¹³¹ I] (Bq)	Tritium [³ H] (Bq)	Carbon [¹⁴ C] (Bq)
N.D.	1.3E+11	N.D.
1.7E+10	1.9E+15	5.2E+13

Left column breakdown (by nuclide)		
Strontium – Yttrium [⁹⁰ Sr- ⁹⁰ Y] (Bq)	Ruthenium – Rhodium [¹⁰⁶ Ru- ¹⁰⁶ Rh] (Bq)	Cesium – Barium [¹³⁷ Cs- ^{137m} Ba] (Bq)
N.D.	N.D.	N.D.
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