

(4) Reprocessing Facilities (Radioactive Gaseous Waste)

Japan Atomic Energy Agency, Tokai Research and Development Center, Nuclear Fuel Cycle Engineering Laboratories Reprocessing Facility *1	Item		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)	Item	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

Japan Atomic Energy Agency, Reprocessing Facility	Item	Total Radioactive Particulate Matter		
		Total Alpha (Bq)		Total Beta Gamma (Bq)
	Reprocessing Facilities Total	N.D.		N.D.
Annual Release Control Target	*13 2.2E-08		*13 1.1E-04	
Japan Nuclear Fuel Ltd., Reprocessing Plant (Reprocessing Facility)	Item	Other Radionuclides [nuclides that emit alpha rays] (Bq)	Plutonium [Pu(α)] (Bq)	Other Radionuclides [nuclides that do not emit alpha rays] (Bq)
		Reprocessing Facilities Total	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.

Japan Atomic Energy Agency, Reprocessing Facility

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

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

Radioactive Argon	: 1E-04 or less
⁸⁵ Kr	: 2E-02 or less
¹²⁹ I	: 4E-08 or less
¹³¹ I	: 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))
¹⁰⁶ Ru- ¹⁰⁶ Rh	: 4E-09 or less (Values for particulate ¹⁰⁶ Ru and volatile ¹⁰⁶ Ru are indicated.)
¹³⁷ Cs- ^{137m} Ba	: 4E-09 or less
⁹⁰ Sr- ⁹⁰ Y	: 4E-10 or less

*1: 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.	3.8E+11	N.D.
1.6E+10	5.6E+14	5.1E+12
Iodine [¹³¹ I] (Bq)	Tritium [³ H] (Bq)	Carbon [¹⁴ C] (Bq)
N.D.	1.4E+11	2.3E+10
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.
-		