

(4) Reprocessing Facilities (Radioactive liquid waste)

Japan Atomic Energy Agency, Reprocessing Facility		Tritium [³ H] (Bq)	Iodine [¹²⁹ I] (Bq)	Iodine [¹³¹ I] (Bq)
	Annual release	2.5E+11	N.D.	N.D.
	Annual release control target	1.9E+15	2.7E+10	1.2E+11
Japan Nuclear Fuel Ltd., Reprocessing Plant (Reprocessing Facility)		Tritium [³ H] (Bq)	Iodine [¹²⁹ I] (Bq)	Iodine [¹³¹ I] (Bq)
	Annual release	9.7E+10	7.7E+06	N.D.
	Annual release control target	1.8E+16	4.3E+10	1.7E+11
Japan Atomic Energy Agency, Reprocessing Facility		/	Strontium [⁸⁹ Sr] (Bq)	Strontium [⁹⁰ Sr] (Bq)
	Annual release	/	N.D.	N.D.
	Annual release control target	/	1.6E+10	3.2E+10
Japan Nuclear Fuel Ltd., Reprocessing Plant (Reprocessing Facility)		Other radionuclides[nuclides that do not emit alpha rays] breakdown [by nuclide]		
		Cobalt [⁶⁰ Co] (Bq)	/	Strontium — Yttrium [⁹⁰ Sr- ⁹⁰ Y] (Bq)
	Annual release	N.D.	/	N.D.
	Annual release control target	—		
Japan Atomic Energy Agency, Reprocessing Facility		Cerium — Praseodymium [¹⁴⁴ Ce- ¹⁴⁴ Pr] (Bq)	/	/
	Annual release	N.D.	/	/
	Annual release control target	1.2E+11	/	/
Japan Nuclear Fuel Ltd., Reprocessing Plant (Reprocessing Facility)		Other radionuclides[nuclides that do not emit alpha rays] Breakdown [by nuclide]		
		Cerium — Praseodymium [¹⁴⁴ Ce - ^{144m} Pr, ¹⁴⁴ Pr] (Bq)	Europium [¹⁵⁴ Eu] (Bq)	Plutonium [²⁴¹ Pu] (Bq)
	Annual release	N.D.	N.D.	N.D.
	Annual release control target	—		

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

Total alpha radioactivity (Bq)	Plutonium [Pu(α)] (Bq)			Total beta radioactivity (excluding ^3H) (Bq)
N.D.	N.D.			N.D.
4.1E+09	2.3E+09			9.6E+11
Other radionuclides [nuclides that emit alpha rays] (Bq)	Left column breakdown (by nuclide)			Other radionuclides [nuclides that do not emit alpha rays] (Bq)
	Plutonium [Pu(α)] (Bq)	Americium [Am(α)] (Bq)	Curium [Cm(α)] (Bq)	
N.D.	N.D.	N.D.	N.D.	N.D.
3.8E+09	-			2.1E+11

Zirconium – Niobium [^{95}Zr - ^{95}Nb] (Bq)	Ruthenium [^{103}Ru] (Bq)	Ruthenium – Rhodium [^{106}Ru - ^{106}Rh] (Bq)	Cesium [^{134}Cs] (Bq)	Cesium [^{137}Cs] (Bq)	Cerium [^{141}Ce] (Bq)
N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4.1E+10	6.4E+10	5.1E+11	6.0E+10	5.5E+10	5.9E+09
Other radionuclides [nuclides that do not emit alpha rays] breakdown [by nuclide]					
		Ruthenium – Rhodium [^{106}Ru - ^{106}Rh] (Bq)	Cesium [^{134}Cs] (Bq)	Cesium – Barium [^{137}Cs - ^{137}mBa] (Bq)	
		N.D.	N.D.	N.D.	
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Note: The radioactivity (Bq) of released liquid waste was obtained by multiplying the concentration of radioactive material (Bq/cm³) in the released liquids by the amount of released liquids. "-" indicates that no annual release control target has been specified. N.D. is used to indicate values lower than the detection limit concentration. Detection limit concentrations (Bq/cm³) are as follows.

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^{129}I	: 1.4E-03 or less
^{131}I	: 1.8E-03 or less
Total alpha radioactivity	: 1.1E-03 or less
Pu(α)	: 3.7E-05 or less
Total beta radioactivity (excluding ^3H)	: 2.2E-02 or less
^{89}Sr	: 2.2E-03 or less
^{90}Sr	: 1.1E-03 or less
^{95}Zr - ^{95}Nb	: 4.3E-03 or less
^{103}Ru	: 1.1E-03 or less
^{106}Ru - ^{106}Rh	: 3.2E-02 or less
^{134}Cs	: 1.1E-03 or less
^{137}Cs	: 1.8E-03 or less
^{141}Ce	: 2.2E-03 or less
^{144}Ce - ^{144}Pr	: 2.2E-02 or less

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^{131}I	: 2E-02 or less
Other radionuclides (nuclides that emit alpha rays) (represented by the value for total alpha)	: 4E-03 or less
Pu(α)	: 1E-03 or less
Am(α)	: 6E-05 or less
Cm(α)	: 6E-05 or less
Other radionuclides (nuclides that do not emit alpha rays) (represented by the value for total beta (gamma))	: 4E-02 or less
^{60}Co	: 2E-02 or less
^{90}Sr - ^{90}Y	: 7E-04 or less
^{106}Ru - ^{106}Rh	: 2E-02 or less
^{134}Cs	: 2E-02 or less
^{137}Cs - ^{137}mBa	: 2E-02 or less
^{144}Ce - ^{144}mPr , ^{144}Pr	: 2E-02 or less
^{154}Eu	: 2E-02 or less
^{241}Pu	: 3E-02 or less