(4) Reprocessing facility (liquid waste)

Japan Atomic Energy Agency Reprocessing facility	Annual release	Tritium [³ H] (Bq) 12 7.3×10	lodine [¹²⁹ l] (Bq) 7 1.2×10	lodine [¹³¹ l] (Bq) N.D.
	Annual release control target value	15 1.9×10	1.2×10 10 2.7×10	11 1.2×10
Japan Nuclear Fuel Ltd. Reprocessing Plant (reprocessing facility)	Annual release Annual release control target value	Tritium [³ H] (Bq) 15 1.3×10 16 1.8×10	lodine [129	lodine [131] [Bq) 6 4.6×10 11 1.7×10
	T			
Japan Atomic Energy Agency Reprocessing facility		-	Strontium [⁸⁹ Sr] (Bq)	Strontium [⁸⁹ Sr] (Bq)
	Annual release	_	N.D.	N.D.
	Annual release control target value	-	10 1.6×10	10 3.2×10
		Other nuclides (nuclides	that do not emit alpha ray	s) breakdown (by nuclide)
Japan Nuclear Fuel Ltd. Reprocessing Plant (reprocessing facility)		Cobalt [⁶⁰ Co] (Bq)	-	Strontium - yttrium [⁹⁰ Sr - ⁹⁰ Y] (Bq)
	Annual release	N.D.	_	N.D.
	Annual release control target value	-		
	1	Cerium		
Japan Atomic Energy Agency Reprocessing facility		-praseodymium [¹⁴⁴ Ce - ¹⁴⁴ Pr] (Bq)	_	-
	Annual release	N.D.	-	-
	Annual release control target value	11 1.2×10	-	-
		Other nuclides (nuclides	that do not emit alpha ray	s) breakdown (by nuclide)
Japan Nuclear Fuel Ltd. Reprocessing Plant (reprocessing facility)		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 value		-	

(4) Reprocessing facility (liquid waste) (cont.)

Total alpha radioactivity (Bq)	Plutonium [Pu(α)] (Bq)	-	-	Total beta radioactivity (excluding ³ H) (Bq)
N.D.	6 1.3×10	_	-	N.D.
9 4.1×10	9 2.3×10	_	-	9.6×10
	Breakdown of the left column (by nuclide)			
Other nuclides	Plutonium	Americium	Curium	Other nuclides
(nuclides that emit alpha rays)	[Pu(α)]	[Am(a)]	[Cm(α)]	(nuclides that do not emit alpha rays)
(Bq)	(Bq)	(Bq)	(Bq)	(Bq)
N.D.	N.D.	N.D.	N.D.	N.D.
9 3.8×10				11 2.1×10

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.
10 4.1×10	10 6.4×10	11 5.1×10	10 6.0×10	10 5.5×10	9 5.9×10
	Other nuclides (nuclides that do not er	nit alpha rays) breakd	own (by nuclide)	
-	-	Ruthenium - rhodium [¹⁰⁶ Ru - ¹⁰⁶ Rh] (Bq)	Cesium [¹³⁴ Cs] (Bq)	Cesium - barium [¹³⁷ Cs - ^{137m} Ba] (Bq)	-
-	_	N.D.	N.D.	N.D.	-
		=	=		

Note: The released radioactivity (Bq) of liquid waste is obtained by multiplying the concentration of radioactive material (Bq/cm³) in discharge water by Released radioactivity concentration lower than the detection limit concentration is represented as N.D.

Japan Atomic Energy Agency, Reprocessing Facilitylapan Nuclear Fuel Ltd., Reprocessing Plant (reprocessing facility)

¹³¹ [: 1.8×10 ⁻³ or lower	Other nuclides (nuclides that emit alpha rays)	: 4×10 ⁻³ or lower	
Total alpha radioa	ctivity: 1.1×10 ⁻³ or lower	(with value of total alpha as representative)		
Total beta radioac	tivity (excluding ³ H)	Pu(α)	: 1×10 ⁻³ or lower	
	: 2.2×10 ⁻² or lower	Am(α)	: 6×10 ⁻⁵ or lower	
⁸⁹ Sr	: 2.2×10 ⁻³ or lower	Cm(a)	: 6×10 ⁻⁵ or lower	
⁹⁰ Sr	: 1.1×10 ⁻³ or lower	Other nuclides (nuclides that do not emit alpha rays)	: 4×10 ⁻² or lower	
⁹⁵ Zr - ⁹⁵ Nb	: 4.3×10 ⁻³ or lower	(with value of total beta(gamma) as representative)		
¹⁰³ Ru	: 1.1×10 ⁻³ or lower	⁶⁰ Co	: 2×10 ⁻² or lower	
^{10Ru} - ¹⁰⁶ Rh	: 3.2×10 ⁻² or lower	⁹⁰ Sr - ⁹⁰ Y	: 7×10 ⁻⁴ or lower	
¹³⁴ Cs	: 1.1×10 ⁻³ or lower	¹⁰⁶ Ru - ¹⁰⁶ Rh	: 2×10 ⁻² or lower	
¹³⁷ Cs	: 1.8×10 ⁻³ or lower	¹³⁴ Cs	: 2×10 ⁻² or lower	
¹⁴¹ Ce	: 2.2×10 ⁻³ or lower	¹³⁷ Cs - ^{137m} Ba	: 2×10 ⁻² or lower	
¹⁴⁴ Ce - ¹⁴⁴ Pr	: 2.2×10 ⁻² or lower	¹⁴⁴ Ce - ^{144m} Pr, ¹⁴⁴ Pr	: 2×10 ⁻² or lower	
		¹⁵⁴ Eu	: 2×10 ⁻² or lower	
		²⁴¹ Pu	: 3×10 ⁻² or lower	

The detection limit concentration is as follows: (Bq/cm³)