④ Reprocessing Facilities

Facility		Radioactive gaseous waste		
		Krypton [^{85}Kr] (Bq)	Iodine [^{129}I] (Bq)	Iodine [^{131}I] (Bq)
*1 Japan Nuclear Cycle Tokai Works (Reprocessing facility)	Reprocessing Facilities Total	2.9×10^{15}	3.1×10^{7}	N.D.
	Annual release Target control level	8.9×10^{16}	1.7×10^{9}	1.6×10^{10}
*2 Japan Nuclear Fuel Ltd. Reprocessing Plant (Reprocessing facility)	Reprocessing Facilities Total	N.D.	N.D.	—
	Annual release Target control level	5.0×10^{13}	1.0×10^{8}	—

Facility		Radioactive liquid waste		
		Total α radioactivity (Bq)	Total β radioactivity (excluding ^{3}H) (Bq)	Strontium [^{89}Sr] (Bq)
*1 Japan Nuclear Cycle Tokai Works (Reprocessing facility)	Annual release	N.D.	N.D.	N.D.
	Annual release Target control level	4.1×10^{9}	9.6×10^{11}	1.6×10^{10}
*2 Japan Nuclear Fuel Ltd. Reprocessing Plant (Reprocessing facility)	Annual release	—	—	—
	Annual release Target control level	—	—	—

Facility		Radioactive liquid waste		
		Cesium [^{137}Cs] (Bq)	Cerium [^{141}Ce] (Bq)	Cerium -praseodymium [^{144}Ce-^{144}Pr] (Bq)
*1 Japan Nuclear Cycle Tokai Works (Reprocessing facility)	Annual release	N.D.	N.D.	N.D.
	Annual release Target control level	5.5×10^{10}	5.9×10^{9}	1.2×10^{11}
*2 Japan Nuclear Fuel Ltd. Reprocessing Plant (Reprocessing facility)	Annual release	—	—	—
	Annual release Target control level	—	—	—

Notes: The radioactivity (Bq) of gaseous (or liquid) waste is obtained by multiplying the concentration of the radioactive material (Bq/cm^3) in the released gas (or liquid).

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

The detection limits are as follows.

Radioactive gaseous waste

^{85}Kr : 2.4×10^{-3} (Bq/cm^3) or less (*1)
: 2.0×10^{-2} (Bq/cm^3) or less (*2)

^{129}I : 3.7×10^{-8} (Bq/cm^3) or less (*1)
: 4.0×10^{-8} (Bq/cm^3) or less (*2)

^{131}I : 3.7×10^{-8} (Bq/cm^3) or less

^{3}H : 3.7×10^{-5} (Bq/cm^3) or less (*1)

^{14}C : 4.0×10^{-5} (Bq/cm^3) or less

Total radioactive particulate matter (Total α rays) : 1.5×10^{-10} (Bq/cm^3) or less

Total radioactive particulate matter (Total β and γ rays) : 1.5×10^{-9} (Bq/cm^3) or less

Other radionuclides (nuclides that do not emit α rays) : 4.0×10^{-9} (Bq/cm^3) or less (^{60}Co value was used) (*2)

④ Reprocessing Facilities (cont.)

Radioactive gaseous waste				
Tritium [^{3}H] (Bq)	Carbon [^{14}C] (Bq)	Total radioactive particulate matter		Other radionuclides (nuclides that do not emit α rays) (Bq)
		[total α] (Bq/cm^3)	[total βγ] (Bq/cm^3)	
2.8×10^{12}	1.7×10^{11}	N.D.	N.D.	-
5.6×10^{14}	5.1×10^{12}	*3 2.2×10^{-8}	*3 1.1×10^{-4}	-
7.5×10^{9}	-	-	-	N.D.
1.0×10^{11}	-	-	-	1.0×10^{7}

Radioactive liquid waste				
Strontium [^{90}Sr] (Bq)	Zirconium -niobium [^{95}Zr-^{95}Nb] (Bq)	Ruthenium [^{103}Ru] (Bq)	Ruthenium -Rhodium [^{106}Ru-^{106}Rh] (Bq)	Cesium [^{134}Cs] (Bq)
N.D.	N.D.	N.D.	N.D.	N.D.
3.2×10^{10}	4.1×10^{10}	6.4×10^{10}	5.1×10^{11}	6.0×10^{10}
-	-	-	-	-
-	-	-	-	-

Radioactive liquid waste				
Tritium [^{3}H] (Bq)	Iodine [^{129}I] (Bq)	Iodine [^{131}I] (Bq)	Plutonium [Pu (α)] (Bq)	Other radionuclides (nuclides that do not emit α rays) (Bq)
1.3×10^{14}	1.9×10^{7}	N.D.	6.0×10^{6}	-
1.9×10^{15}	2.7×10^{10}	1.2×10^{11}	2.3×10^{9}	-
9.0×10^{9}	N.D.	-	-	N.D.
5.6×10^{10}	3.0×10^{7}	-	-	6.3×10^{9}

Radioactive liquid waste

Total α radioactivity : 1.1×10^{-3} or less

Total β radioactivity (excluding ^{3}H)
: 2.2×10^{-2} or less

^{89}Sr : 2.2×10^{-3} or less
^{90}Sr : 1.1×10^{-3} or less
^{95}Zr-^{95}Nb : 4.3×10^{-3} or less
^{103}Ru : 1.1×10^{-3} or less
^{106}Ru-^{106}Rh : 3.2×10^{-2} or less
^{134}Cs : 1.1×10^{-3} or less
^{137}Cs : 1.8×10^{-3} or less
^{141}Ce : 2.2×10^{-3} or less
^{144}Ce-^{144}Pr : 2.2×10^{-2} or less
^{3}H : 3.7×10^{0} or less (*1)
Unit: Bq/cm^3

^{129}I : 1.4×10^{-3} (Bq/cm^3) or less (*1)
: 2.0×10^{-3} (Bq/cm^3) or less (*2)
^{131}I : 1.8×10^{-3} (Bq/cm^3) or less
Pu (α) : 3.7×10^{-5} (Bq/cm^3) or less
Other radionuclides (nuclides that do not emit α rays)
: 2.0×10^{-2} (Bq/cm^3) or less
(the ^{60}Co value was used) (*2)

*3 Three-month average control concentration targets