(4) Reprocessing Facilities (Gaseous Waste)

*1 Japan Atomic Energy Agency Tokai Research and Development Center Nuclear Fuel Cycle Engineering Laboratories (Reprocessing Facilities)			Krypton [^{85}Kr] (Bq)	Iodine [^{129}I] (Bq)
	Reprocessing Facilities Total		1.4×10^{15}	6.8×10^{7}
	Annual release Target control level		8.9×10^{16}	1.7×10^{9}
*2 Japan Nuclear Fuel Limited Reprocessing Plant (Reprocessing Facilities)		Radioactive Argon (Bq) *4	Krypton [^{85}Kr] (Bq)	Iodine [^{129}I] (Bq)
	Reprocessing Facilities Total	N.D.	1.7×10^{16}	2.2×10^{8}
	Annual release Target control level	-	3.3×10^{17}	1.1×10^{10}

*1 Japan Atomic Energy Agency Tokai Research and Development Center Nuclear Fuel Cycle Engineering Laboratories (Reprocessing Facilities)		Total radioactive particulate matter		
		[total α] (Bq)		[total βγ] (Bq)
	Reprocessing Facilities Total	N.D.		N.D.
	Annual release Target control level	*3 2.2×10^{-8}		*3 1.1×10^{-4}
*2 Japan Nuclear Fuel Limited Reprocessing Plant (Reprocessing Facilities)		Other radionuclides (nuclides that emit α rays) (Bq)	Radionuclide(s) categorized into the left group Plutonium [Pu (α)] (Bq) *4	Other radionuclides (nuclides that do not emit α rays) (Bq)
	Reprocessing Facilities Total	N.D.	N.D.	N.D.
	Annual release Target control level	3.3×10^{8}	-	9.4×10^{10}

Note: The radioactivity (Bq) of gaseous waste is obtained by multiplying the concentration of the radioactive material (Bq/cm^3) in the released gas by the amount of released gas.
Values lower than the detection limit of radioactivity are indicated as N.D.
The detection limits are as follows.

Radioactive Argon	: 1×10^{-4}	(Bq/cm^3) or lower (*2)
^{85}Kr	: 2.4×10^{-3}	(Bq/cm^3) or lower (*1)
	: 2×10^{-2}	(Bq/cm^3) or lower (*2)
^{129}I	: 3.7×10^{-8}	(Bq/cm^3) or lower (*1)
	: 4×10^{-8}	(Bq/cm^3) or lower (*2)
^{131}I	: 3.7×10^{-8}	(Bq/cm^3) or lower (*1)
^{3}H	: 3.7×10^{-5}	(Bq/cm^3) or lower (*1)
^{14}C	: 4.0×10^{-5}	(Bq/cm^3) or lower (*1)
Total radioactive particulate matter (Total α rays)	: 1.5×10^{-10}	(Bq/cm^3) or lower
Total radioactive particulate matter (Total β and γ rays)	: 1.5×10^{-9}	(Bq/cm^3) or lower
Other radionuclides (nuclides that emit α rays)	: 4×10^{-10}	(Bq/cm^3) or lower (Represented by a value relative to total α)
Pu (α)	: 4×10^{-10}	(Bq/cm^3) or lower
Other radionuclides (nuclides that do not emit α rays)	: 4×10^{-9}	(Bq/cm^3) or lower (Represented by a value relative to total β(γ))
^{90}Sr-^{90}Y	: 4×10^{-10}	(Bq/cm^3) or lower
^{106}Ru-^{106}Rh	: 4×10^{-9}	(Bq/cm^3) or lower
^{137}Cs-^{137m}Ba	: 4×10^{-9}	(Bq/cm^3) or lower

(4) Reprocessing Facilities (Gaseous Waste) (cont.)

Iodine [^{31}I] (Bq)	Tritium [^{3}H] (Bq)	Carbon [^{14}C] (Bq)
N.D.	1.4×10^{12}	9.0×10^{10}
1.6×10^{10}	5.6×10^{14}	5.1×10^{12}
Iodine [^{131}I] (Bq) *4	Tritium [^{3}H] (Bq)	Carbon [^{14}C] (Bq) *4
3.2×10^{5}	6.0×10^{12}	9.1×10^{11}
1.7×10^{10}	1.9×10^{15}	5.2×10^{13}

Radionuclide(s) categorized into the left group		
Strontium -Yttrium [^{90}Sr-^{90}Y] (Bq) *4	Ruthenium -Rhodium [^{106}Ru-^{106}Rh] (Bq) *4	Cesium -Barium [^{137}Cs-^{137m}Ba] (Bq) *4
N.D.	N.D.	N.D.
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*3 Three-month average control concentration targets (Bq/cm^{3})

*4 Since active tests were introduced in March 31, 2006, these radionuclides were added as items to be measured.