4) Reprocessing Facilities (Liquid Waste)

*1 Japan Atomic Energy Agency Tokai Research and Development Center Nuclear Fuel Cycle Engineering Laboratories (Reprocessing Facilities)		Tritium [^{3}H] (Bq)	Iodine [^{129}I] (Bq)	Iodine [^{131}I] (Bq)
	Annual release	9.7×10^{13}	6.6×10^{6}	N.D.
	Annual release Target control level	1.9×10^{15}	2.7×10^{10}	1.2×10^{11}
*2 Japan Nuclear Fuel Limited Reprocessing Plant (Reprocessing Facilities)		Tritium [^{3}H] (Bq)	Iodine [^{129}I] (Bq)	Iodine [^{131}I] (Bq) *4
	Annual release	1.4×10^{9}	N.D.	-
	Annual release Target control level*3	1.8×10^{16} (5.6×10^{10})	4.3×10^{10} (3×10^{7})	1.7×10^{11} (-)

*1 Japan Atomic Energy Agency Tokai Research and Development Center Nuclear Fuel Cycle Engineering Laboratories (Reprocessing Facilities)			Strontium [^{89}Sr] (Bq)	Strontium [^{90}Sr] (Bq)
	Annual release		N.D.	N.D.
	Annual release Target control level		1.6×10^{10}	3.2×10^{10}
*2 Japan Nuclear Fuel Limited Reprocessing Plant (Reprocessing Facilities)		Other radionuclides (nuclides that do not emit α rays)		
		Cobalt [^{60}Co] (Bq) *4		Strontium -Yttrium [^{90}Sr -^{90}Y] (Bq) *4
	Annual release	-		-
	Annual release Target control level *3	-		

*1 Japan Atomic Energy Agency Tokai Research and Development Center Nuclear Fuel Cycle Engineering Laboratories (Reprocessing Facilities)		Cerium -praseodymium [^{144}Ce -^{144}Pr] (Bq)		
	Annual release	N.D.		
	Annual release Target control level	1.2×10^{11}		
*2 Japan Nuclear Fuel Limited Reprocessing Plant (Reprocessing Facilities)		Other radionuclides (nuclides that do not emit α rays)		
		Cerium -praseodymium [^{144}Ce -^{144m}Pr,^{144}Pr] (Bq) *4	Europium [^{154}Eu] (Bq) *4	Plutonium [^{241}Pu] (Bq) *4
	Annual release	-	-	-
	Annual release Target control level *3	-		

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

Total α radioactivity (Bq)	Plutonium [Pu (α)] (Bq)			Total β radioactivity (excluding ^{3}H) (Bq)
N.D.	6.3×10^{6}			N.D.
4.1×10^{9}	2.3×10^{9}			9.6×10^{11}
Other radionuclides (nuclides that emit α rays) (Bq)	Radionuclide(s) categorized into the left group			Other radionuclides (nuclides that do not emit α rays) (Bq)
	Plutonium [Pu (α)] (Bq) *4	Americium [Am (α)] (Bq) *4	Curium [Cm (α)] (Bq) *4	
N.D.	-	-	-	N.D.
3.8×10^{9} (1.3×10^{8})	-			2.1×10^{11} (6.3×10^{9})

Zirconium -niobium [^{95}Zr -^{95}Mb] (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.
4.1×10^{10}	6.4×10^{10}	5.1×10^{11}	6.0×10^{10}	5.5×10^{10}	5.9×10^{9}
Other radionuclides (nuclides that do not emit α rays)					
		Ruthenium -Rhodium [^{106}Ru -^{106}Rh] (Bq) *4	Cesium [^{134}Cs] (Bq) *4	Cesium - Barium [^{137}Cs -^{137m}Ba] (Bq) *4	
		-	-	-	
-					

Note: The radioactivity (Bq) of radioactive liquid waste is obtained by multiplying the concentration of the radioactive material (Bq/cm^3) in the released liquid by the amount of released liquid (m^3).

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

The detection limits are as follows.

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

^{129}I : 1.4×10^{-3} (Bq/cm^3) or lower (*1)
: 2×10^{-3} (Bq／cm^3) or lower (*2)
^{131}I : 1.8×10^{-3} (Bq／cm^3) or lower (*1)
Pu (α) : 3.7×10^{-5} (Bq/cm^3) or lower (*1)
Other radionuclides (nuclides that emit α rays)
: 4×10^{-3} (Bq／cm^3) or lower (*2)
(Represented by a value relative to total α)
Other radionuclides (nuclides that do not emit α rays)
: 2×10^{-2} (Bq／cm^3) or lower (*2)
(Represented by a value relative to ^{60}Co)

*3 The figures in parentheses in the annual release target control level row indicate control targets set to be achieved by March 30, 2006.

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