Table 3 Status of Radioactive Gaseous Waste Release Management in FY2014
(Nuclear Fuel Material Use Facilities)

[Unit: Bq]

Site Name		Facility (measurement location)		Item	Annual Release Control Target	Annual Release#2
Japan Atomic Energy Agency	Nuclear Science Research Institute	JRR-3 *1		Radioactive Noble Gases	#1	N.D. (N.D.)
				Iodine 131	#1	N.D. (N.D.)
				Dust	#1	N.D. (N.D.)
				Tritium	#1	N.D. (N.D.)
		JRR-4 *1		Radioactive Noble Gases	#1	N.D. (N.D.)
				Iodine 131	#1	N.D. (N.D.)
				Dust	#1	N.D. (N.D.)
		NSRR *1		Radioactive Noble Gases	#1	1.2E+8 (N.D.)
				Iodine 131	#1	N.D. (N.D.)
				Dust	#1	N.D. (N.D.)
		FCA *1		Iodine 131	#1	N.D. (N.D.)
				Dust	#1	N.D. (N.D.)
		Laboratory building No. 1 for the plutonium research program		Dust	#1	N.D. (N.D.)
		Research Hot laboratory		Radioactive Noble Gases	#1	N.D. (N.D.)
				Dust	#1	N.D. (N.D.)
		Reactor Fuel Examination Facility (RFEF)		Radioactive Noble Gases	#1	4.1E+10 (2.6E+10)
				Iodine 131	#1	N.D. (N.D.)
				Dust	#1	N.D. (N.D.)
		Waste Safety Testing Facility (WASTEF)		Dust	#1	N.D. (N.D.)
		Back-End Fuel Cycle Key Elements Research Facility (BECKY) *1		Radioactive Noble Gases	#1	N.D. (N.D.)
				Iodine 131	#1	N.D. (N.D.)
				Dust	#1	N.D. (N.D.)
		Waste Treatment Facilities*1	Waste Treatment Facility No. 1	Dust	#1	N.D. (N.D.)
				Tritium	#1	1.3E+9 (N.D.)
			Waste Treatment Facility No. 2	Dust	#1	N.D. (N.D.)
			Waste Treatment Facility No. 3	Dust	#1	N.D. (N.D.)
			Waste Size Reduction and Storage Facility (WSRSF)	Dust	#1	N.D. (N.D.)
			Liquid Waste Treatment Facility	Dust	#1	N.D. (N.D.)
			Waste Volume Reduction Facility (WVRF)	Dust	#1	N.D. (N.D.)
				Tritium	#1	N.D. (N.D.)
	Nuclear Fuel Cycle Engineering Laboratories	Chemical Processing Facility (CPF)		Radioactive Noble Gases	#1	5.1E+10 *2 (N.D.)
				Dust, Total Alpha	#1	N.D. (N.D.)
				Dust, Total Beta	#1	7.4E+4 *3 (3.7E+4 *3)
				Tritium	#1	N.D. (N.D.)
				Iodine 131	#1	N.D. (N.D.)
				Iodine 129	#1	N.D. (N.D.)
		Plutonium Handling Facility (Plutonium Fuel First Development Section, etc.)		Dust, Total Alpha	#1	N.D. (N.D.)
		Uranium Handling Facility (Uranium Storage, etc.)		Dust, Total Alpha	#1	N.D. (N.D.)

[Unit: Bq]

Site Name		Facility (Measurement Location)	Item	Annual Release Control Target	Annual Release#2	
Japan Atomic Energy Agency	Oarai Research and Development Center (North Area)	JMTR *1	Radioactive Noble Gases	#1	N.D. (N.D.)	
			Iodine 131	#1	N.D. (N.D.)	
			Dust	#1	N.D. (N.D.)	
			Tritium	#1	N.D. (N.D.)	
		HTTR *1	Radioactive Noble Gases	#1	N.D. (N.D.)	
			Iodine 131	#1	N.D. (N.D.)	
			Dust	#1	N.D. (N.D.)	
			Tritium	#1	N.D. (N.D.)	
		Hot Laboratory	Radioactive Noble Gases	#1	N.D. (N.D.)	
			Iodine 131	#1	N.D. (N.D.)	
			Dust	#1	N.D. (N.D.)	
			Tritium	#1	N.D. (N.D.)	
		Plutonium Fuel Research Facility (PFRF)	Dust	#1	N.D. (N.D.)	
	Oarai Research and Development Center (South Area)	Alpha-Gamma Facility (AGF)	Radioactive Materials (mainly noble gases)	3.06E+12	N.D. (2.9E+7)	
			Iodine 131	5.20E+07	N.D. (N.D.)	
		Materials Monitoring Facility (MMF)	Radioactive Materials (mainly noble gases)	3.03E+10	N.D. (N.D.)	
			Iodine 131	5.79E+06	N.D. (N.D.)	
		Materials Monitoring Facility (MMF-2)	Radioactive Materials (mainly noble gases)	3.03E+12	N.D. (N.D.)	
			Iodine 131	5.78E+07	N.D. (N.D.)	
		Fuels Monitoring Facility (FMF)	Radioactive Materials (mainly noble gases)	2.04E+13	N.D. (N.D.)	
			Iodine 131	6.92E+07	N.D. (N.D.)	
		Waste Dismantling Facility (WDF)	Dust, Total Alpha	#1	N.D. (N.D.)	
			Dust, Total Beta	#1	N.D. (N.D.)	
		Joyo Waste Treatment Facility (JWTF)*1	Dust, Total Beta	#1	N.D. (N.D.)	
		Irradiation Rig Assembling Facility (IRAF)	Dust, Total Beta	#1	N.D. (N.D.)	
	Ningyo-toge Environmental Engineering Center		Uranium 238	#1	N.D. (N.D.)	
Kyoto University, Research Reactor Institute		KUR	Radioactive Noble Gases	4.0E+13	8.6E+10 (1.0E+11)	*1
		KUCA	Radioactive Noble Gases	#1	N.D. (N.D.)	
National Institute of Radiological Sciences			Total Alpha	#1	N.D. (N.D.)	
			Total Alpha	#1	N.D. (N.D.)	
Nuclear Material Control Center	Tokai Safeguards Center	Development & Testing Building	Total Alpha	7.4E+05		*4
		New Analysis Building	Total Alpha	4.7E+05	N.D. (N.D.)	
	Rokkasho Safeguards Center		Total Alpha	#1	N.D. (N.D.)	
			Total Alpha	#1	N.D. (N.D.)	
Nuclear Fuel Industries, Ltd., Tokai Works			Uranium	9.2E+04	3.6E+4 (3.8E+4)	
Nippon Nuclear Fuel Development Co., Ltd.			Radioactive Noble Gases	3.3E+12	8.2E+10 (5.2E+10)	
			Radioactive Iodine (Iodine 131 equivalent)	7.4E+08	0 (0)	
Nuclear Development Corporation			Radioactive Noble Gases (Kr-85, etc.)	3.0E+12	4.4E+7 (1.2E+10)	
			Iodine 131	2.7E+07	N.D. (N.D.)	

*1: For the Nuclear Science Research Institute, Japan Atomic Energy Agency (JAEA), the JAEA Oarai Research and Development Center (North Area), the JAEA Oarai Research and Development Center (South Area), and the Research Reactor Institute, Kyoto University, radioactive gaseous waste from reactor facilities for test and research, etc. is included.
*2: As determined with a wet reprocessing test.
*3: Due to the effects of release of radioactive materials caused by the accident at TEPCO's Fukushima Daiichi NPS.
*4: There was no release at the Development and Testing Building, Tokai Safeguards Center, Nuclear Material Control Center, because the equipment was dismantled and removed in FY2012.

(Note) This table has been prepared as follows.
(1) #1: Nuclear fuel material use facility for which no annual release control target has been stipulated.
(2) #2: Values in parentheses ( ) indicate actual values from the previous fiscal year.
(3) N.D.: Not Detected - values under the detection limit

(Table expression example) "E-3" indicates "$\times 10^{-3}$."

Table 4 Status of Radioactive Liquid Waste Release Management in FY2014
(Nuclear Fuel Material Use Facilities)

[Unit: Bq]

Site Name		Item		Annual Release Control Target	Annual Release#2	
Japan Atomic Energy Agency	Nuclear Science Research Institute	Other than Tritium and Carbon 14		1.8E+10	1.7E+8 (9.1E+7) * 7	*1
			Cobalt 60	3.7E+09	0 (2.7E+5)	
			Cesium 137	3.7E+09	7.2E+6 (1.5E+7) * 7	
		Tritium		2.5E+13	1.6E+11 (2.7E+11)	
	Nuclear Fuel Cycle Engineering Laboratories	Other than Tritium		2.1E+09	3.3E+5 (1.9E+5)	
		Tritium		1.9E+09	N.D. (N.D.)	
		Plutonium		2.7E+08	N.D. (N.D.)	
		Uranium		2.7E+08	N.D. (N.D.)	
	Oarai Research and Development Center (North Area)	Other than Tritium		2.2E+09	N.D. (N.D.)	*2
			Cobalt 60	2.2E+08	N.D. (N.D.)	
			Cesium 137	1.8E+09	N.D. (N.D.)	
		Tritium		3.7E+12	1.1E+9 (6.5E+9)	
	Oarai Research and Development Center (South Area)	All Nuclides		3.7E+08	N.D. (N.D.)	*3
	Ningyo-toge Environmental Engineering Center	Uranium 238		#1	N.D. (N.D.)	
National Institute of Radiological Sciences		Total Alpha, Total Beta		#1	N.D. (N.D.)	
Nuclear Material Control Center	Tokai Safeguards Center	Total Alpha		3.00E+06	N.D. (N.D.)	
	Rokkasho Safeguards Center	Total Alpha		#1	N.D. (N.D.)	
		Total Alpha		#1	N.D. (N.D.)	
Nuclear Fuel Industries, Ltd., Tokai Works		Uranium		8.50E+07	1.3E+6 (1.4E+6)	*4
Nippon Nuclear Fuel Development Co., Ltd.		Cobalt 60 Cesium 137		#1	1.14E+6 (7.53E+5)	*5
Nuclear Development Corporation		Cobalt 60		3.40E+06	7.4E+3 (2.3E+4)	*6
		Cesium 137			9.0E+4 (9.4E+4)	

*1: For the Nuclear Science Research Institute, Tokai Research and Development Center, Japan Atomic Energy Agency (JAEA), when the nuclear fuel material use facility is used in common with other facilities, released amounts for all common facilities are included.
*2: For the JAEA Oarai Research and Development Center (North Area), released amounts of facilities other than the nuclear fuel material use facility (amounts released through the radioactive waste storage facility) are included.
*3: The liquid radioactive waste from the JAEA Oarai Research and Development Center (South Area) is not included in this table because such waste is transferred to the radioactive waste storage facility of the JAEA Oarai Research and Development Center.
*4: The annual release amount for Tokai Works, Nuclear Fuel Industries, Ltd. is a combined amount including the amount from the fuel manufacturing facility,since the facility is also categorized as a fuel manufacturing facility.
*5: At Nippon Nuclear Fuel Development Co., Ltd., there is no radioactive liquid waste release, and all waste is consigned for processing to the JAEA Oarai Research and Development Center. Thus, the released amount in this table is the amount carried to the JAEA Oarai Research and Development Center for the consignment of processing.
*6: The released amount for the Nuclear Development Corporation includes the release amounts from facilities other than the nuclear fuel material use facility (radioisotope facilities are not subject to Article 41 of the Cabinet Order for the Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Nuclear Reactors).
*7: Due to the effects of release of radioactive materials caused by the accident at TEPCO's Fukushima Daiichi NPS.

(Note) This table has been prepared as follows.
(1) #1: Nuclear fuel material use facility for which no annual release control target has been stipulated.
(2) #2: Values in parentheses ( ) indicate actual values from the previous fiscal year.
(3) N.D.: Not Detected - values under the detection limit

(Table expression example) "E-3" indicates "$\times 10^{-3}$."