

**Table 3 Status of Radioactive Gaseous Waste Release Management in FY2015
(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	N.D. (1.2E+08)	
			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	2.8E+10 (4.1E+10)	
			Iodine 131	#1	N.D. (N.D.)	
			Dust	#1	N.D. (N.D.)	
		Waste Safety Testing Facility (WASTE F)	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	5.4E+09 (1.3E+09)
			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	4.2E+9 *2 (5.1E+10 *2)		
		Dust, total alpha	#1	N.D. (N.D.)		
		Dust, total beta	#1	N.D. (7.4E+04 *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. (N.D.)
			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 *1	Radioactive noble gases	4.0E+13	N.D. (8.6E+10)	
	KUCA *1	Radioactive noble gases	#1	N.D. (N.D.)	
National Institute of Radiological Sciences	Total alpha	#1	N.D. (N.D.)	*4	
	Total beta	#1	N.D. (N.D.)		
Nuclear Material Control Center	Tokai Safeguards Center	Total alpha	4.7E+05	N.D. (N.D.)	*5
		Total beta	#1	9.4E+01(N.D.)	
	Rokkasho Safeguards Center	Total alpha	#1	1.7E+01(N.D.)	
		Total beta	#1	9.4E+01(N.D.)	
Nuclear Fuel Industries, Ltd., Tokai Works	Uranium	9.2E+04	3.8E+04 (3.6E+04)		
Nippon Nuclear Fuel Development Co., Ltd.	Radioactive noble gases	3.3E+12	1.3E+11 (8.2E+10)		
	Radioactive iodine (Iodine 131 equivalent)	7.4E+08	N.D. (N.D.)		
Nuclear Development Corporation	Radioactive noble gases (Kr-85, etc.)	3.0E+12	N.D. (4.4E+07)		
	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: The National Institute of Radiological Sciences has not been subject to Article 41 of the Cabinet Order for the Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Nuclear Reactors since June 24, 2015; therefore, the value aggregated at the end of June 2015 is used.

*5: The Development and Testing Building of Tokai Safeguards Center of the Nuclear Material Control Center was dismantled in FY2012; therefore, only the release from the New Analysis Building was counted.

(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 4 Status of Radioactive Liquid Waste Release Management in FY2015
(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	Cobalt 60	1.8E+10	2.0E+08 *8(1.7E+08 *9)	*1
			Cesium 137	3.7E+09	4.5E+05 (0)	
		Tritium		3.7E+09	6.9E+06 *8(7.2E+06 *9)	
		Tritium		2.5E+13	2.0E+11 (1.6E+11)	
	Nuclear Fuel Cycle Engineering Laboratories	Other than tritium		2.1E+09	1.3E+05 (3.3E+05)	
		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	Cobalt 60	2.2E+09	N.D. (N.D.)	*2
			Cesium 137	2.2E+08	N.D. (N.D.)	
		Tritium		1.8E+09	N.D. (N.D.)	
	Tritium		3.7E+12	5.7E+09 (1.1E+09)		
	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.)	*4	
Nuclear Material Control Center	Tokai Safeguards Center	Total alpha		3.00E+06	N.D. (N.D.)	
		Total alpha		#1	N.D. (N.D.)	
	Rokkasho Safeguards Center	Total beta		#1	N.D. (N.D.)	
Nuclear Fuel Industries, Ltd., Tokai Works	Uranium		8.50E+07	8.5E+05 (1.3E+06)	*5	
Nippon Nuclear Fuel Development Co., Ltd.	Cobalt 60 Cesium 137		#1	1.13E+06 (1.14E+06)	*6	
Nuclear Development Corporation	Cobalt 60		3.40E+06	8.3E+03 (7.4E+03)	*7	
	Cesium 137			4.8E+04 (9.0E+04)		

*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 National Institute of Radiological Sciences has not been subject to Article 41 of the Cabinet Order for the Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Nuclear Reactors since June 24, 2015; therefore, the value aggregated at the end of June 2015 is used.

*5: 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.

*6: 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.

*7: 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).

*8: Includes the effects of the release of radioactive materials caused by the accident at TEPCO's Fukushima Daiichi NPS.

*9: 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