

Table 7 Status of Gaseous Radioactive Waste Release Management in FY 2012
(Nuclear Fuel Material Using Facilities)

[Unit: Bq]

Name of Office		Name of Facility (Measurement Point)	Item	Annual Release Control Target Value	Total Annual Release #2	
Japan Atomic Energy Agency	Tokai Research and Development Center, Nuclear Science Research Institute	JRR-3 *1	Gaseous radioactive waste	#1	N.D. (N.D.)	
			Iodine 131	#1	N.D. (3.6xE5)	
			Dust	#1	N.D. (N.D.)	
			Tritium	#1	6.1XE9 (1.2xE11)	
		JRR-4 *1	Gaseous radioactive waste	#1	N.D. (N.D.)	
			Iodine 131	#1	N.D. (1.8xE4)	
			Dust	#1	N.D. (N.D.)	
		NSRR *1	Gaseous radioactive waste	#1	N.D. (N.D.)	
			Iodine 131	#1	N.D. (N.D.)	
			Dust	#1	N.D. (N.D.)	
		FCA *1	Iodine 131	#1	N.D. (7.8xE5)	
			Dust	#1	N.D. (N.D.)	
		The laboratory building No. 1 for the plutonium research program	Dust	#1	N.D. (N.D.)	
		Hot laboratory	Gaseous radioactive waste	#1	N.D. (N.D.)	
			Dust	#1	N.D. (N.D.)	
		The Reactor Fuel Examination Facility (RFEF)	Gaseous radioactive waste	#1	3.7xE10 (N.D.)	
			Iodine 131	#1	N.D. (4.4xE5)	
			Dust	#1	N.D. (N.D.)	
		The Waste Safety Testing Facility (WASTE F)	Dust	#1	N.D. (N.D.)	
		The Back-end Fuel Cycle Key Elements Research Facility (BECKY) *1	Gaseous radioactive waste	#1	N.D. (N.D.)	
			Iodine 131	#1	N.D. (7.8xE6)	
			Dust	#1	N.D. (N.D.)	
		Radioactive waste processing plant *1	Waste Treatment Facility No. 1	Dust	#1	N.D. (N.D.)
				Tritium	#1	N.D. (N.D.)
			Waste Treatment Facility No. 2	Dust	#1	N.D. (N.D.)
			Waste Treatment Facility No. 3	Dust	#1	N.D. (N.D.)
			Dismantling, Separation and Storage Building	Dust	#1	N.D. (N.D.)
			Waste Size Reduction and Storage Facility(WRSRF)	Dust	#1	N.D. (N.D.)
	Waste Volume Reduction Facility(WVRF)		Dust	#1	N.D. (N.D.)	
		Tritium	#1	N.D. (N.D.)		
	Tokai Research and Development Center, Nuclear Fuel Cycle Engineering Laboratories	Chemical Processing Facility(CPF)	Gaseous radioactive waste	#1	N.D. (N.D.)	
			All dust alphas	#1	N.D. (N.D.)	
			All dust beta	#1	N.D. (1.6xE6)	
			Tritium	#1	N.D. (N.D.)	
			Iodine 131	#1	N.D. (2.7xE7)	
			Iodine 129	#1	N.D. (N.D.)	
		Plutonium handling facility (Plutonium fuel first development section, etc.)	All dust alphas	#1	N.D. (N.D.)	
		Uranium handling facility (Uranium system waste storage facility, etc.)	All dust alphas	#1	N.D. (N.D.)	

[Unit: Bq]

Name of Office		Name of Facility (Measurement Point)	Item	Annual Release Control Target Value	Total Annual Release #2
Japan Atomic Energy Agency	Oarai Research and Development Center (North Area)	JMTR *1	Gaseous radioactive waste	#1	N.D. (5.6xE11)
			Iodine 131	#1	N.D. (2.7xE3)
			Dust	#1	N.D. (N.D.)
			Tritium	#1	N.D. (9.5xE8)
		HTTR *1	Gaseous radioactive waste	#1	N.D. (N.D.)
			Iodine 131	#1	N.D. (2.4xE7)
			Dust	#1	N.D. (N.D.)
			Tritium	#1	N.D. (N.D.)
		Hot laboratory	Gaseous radioactive waste	#1	N.D. (N.D.)
			Iodine 131	#1	N.D. (1.0xE7)
			Dust	#1	N.D. (5.0xE3)
			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 material (Mainly noble gas)	3.06xE12	8.2xE7
			Iodine 131	5.20xE7	N.D.
		Materials Monitoring Facility(MMF)	Radioactive material (Mainly noble gas)	3.03xE10	N.D.
			Iodine 131	5.79xE6	N.D.
		Charge Test Installation of the 2nd Irradiated Material	Radioactive material (Mainly noble gas)	3.03xE12	N.D.
			Iodine 131	5.78xE7	N.D.
		Fuels Monitoring Facility(FMF)	Radioactive material (Mainly noble gas)	2.04xE13	N.D.
			Iodine 131	6.92xE7	N.D.
		Waste Facility(WDF)	All dust alphas	#1	N.D. (N.D.)
			All dust beta	#1	N.D. (5.4xE4)
		Waste Processing House *1	All dust beta	#1	N.D. (2.9xE3)
		Irradiation Equipment Assembly Inspection Facility	All dust beta	#1	N.D. (N.D.)
		Ningyo-toge Environmental Engineering Center		Uranium 238	#1
Kyoto University, Research Reactor Institute *1		KUR	Gaseous radioactive waste	4.0xE13	3.5xE11
	KUCA	Gaseous radioactive waste	#1	N.D. (N.D.)	
National Institute of Radiological Sciences		All alphas	#1	N.D. (N.D.)	
		All beta	#1	N.D. (5.7xE5)	
Nuclear Material Control Center	Tokai Safeguard Center	Development test building	All alphas	7.4xE5	N.D.
		New analysis building	All alphas	4.7xE5	N.D.
	Rokkasho Safeguard Center		All alphas	#1	1.4xE1 (N.D.)
			All beta	#1	9.8xE1 (N.D.)
Nuclear Fuel Industries, Ltd., Tokai Works		Uranium	9.2xE4	3.7xE4	
Nippon Nuclear Fuel Development Co., Ltd.		Gaseous radioactive waste	3.3xE12	8.6xE10	
		Radioactive iodine (Iodine 131 conversion)	7.4xE8	0	
Nuclear Development Corporation		Gaseous radioactive waste(Kr-85 grade)	3.0xE12	4.9xE9	
		Iodine 131	2.7xE7	N.D.	

*1: The gaseous radioactive waste originated from the Oarai Research & Development Center (North Area) and the Nuclear Science Research Institute, Tokai Research and Development Center, Japan Atomic Energy Agency, and the Research Reactor Institute, Kyoto University includes gaseous radioactive waste from their nuclear reactor facilities.

(Note) Remarks for this table;

(1) #1; Reactor facility for which the annual release control target value is not stipulated.

(2) #2; Values in the parenthesis () are the actual values in the last fiscal year.

(3) N.D.; Less than the detection limit.

(Example in the table) "x E-3" shows "x 10⁻³."

Table 8 Status of Liquid Radioactive Waste Release Management in FY 2012
(Nuclear Fuel Material Using Facilities)

[Unit: Bq]

Name of Office		Item	Annual Release Control Target Value	Total Annual Release #2	
Japan Atomic Energy Agency	Tokai Research and Development Center, Nuclear Science Research Institute *1	Tritium,	1.8xE10	1.1xE8 *5	
		Other than carbon 14	Cobalt 60	7.6xE6	
			Cesium 137	7.3xE6 *5	
		Tritium	2.5xE13	2.2xE11	
	Tokai Research and Development Center, Nuclear Fuel Cycle Engineering Laboratories	Other than tritium	2.1xE9	4.3xE5	
		Tritium	1.9xE9	N.D.	
		Plutonium	2.7xE8	8.9xE3	
		Uranium	2.7xE8	N.D.	
	Oarai Research and Development Center (North Area) *1	Other than tritium	Cobalt 60	2.2xE8	N.D.
			Cesium 137	1.8xE9	N.D.
		Tritium	3.7xE12	9.8xE9	
	Oarai Research and Development Center (South Area) *2	All nuclides	3.7xE8	N.D.	
Ningyo-toge Environmental Engineering Center	Uranium 238	#1	N.D. (N.D.)		
National Institute of Radiological Sciences		All alphas, all beta	#1	N.D. (4.9xE4)	
Nuclear Material Control Center	Tokai Safeguard Center	All alphas	3.0xE6	N.D.	
	Rokkasho Safeguard Center	All alphas	#1	N.D. (N.D.)	
		All beta	#1	N.D. (N.D.)	
Nuclear Fuel Industries, Ltd., Tokai-Works *3		Uranium	8.5xE7	1.7xE6	
Nippon Nuclear Fuel Development Co., Ltd. *2		Cobalt 60 Cesium 137	#1	4,18xE5 (1.34xE6)	
Nuclear Development Corporation *4	Cobalt 60	3.4xE6	3.1xE4		
	Cesium 137		1.3xE5 *5		

*1: The Nuclear Science Research Institute and Oarai Research & Development Center (North Area), Japan Atomic Energy Agency, include released amounts of all common facilities when the nuclear fuel using facility is common with other facilities.

*2: The liquid radioactive waste from the Oarai Research & Development Center(South Area), Japan Atomic Energy Agency, and Nippon Nuclear Fuel Development Co., Ltd. is not included in this table since the waste is transferred to the waste management facility of Oarai Research & Development Center (North) of the said Agency,

*3: The amount of year release of the Tokai Works, Nuclear Fuel Industries, Ltd. is the total with the amount from the fuel manufacturing facility since the works comes under also to fuel manufacturing facility.

*4: The released amount from the Nuclear Development Corporation includes the amount from facilities other than nuclear fuel using facility (not pertinent to the Article 41 of the Cabinet Order for the Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Nuclear Reactors, RI facility).

*5: Due to the consequence of radioactive material release by the accident of Tokyo Electric Power Co. Inc., Fukushima Daiichi NPS.

(Note) Remarks for this table;

(1) #1; nuclear fuel using facility for which the annual release control target value is not stipulated.

(2) #2; Values in the parenthesis () are the actual values in the last fiscal year.

(3) N.D.; Less than the detection limit.

(Example in the table) "x E-3 shows "x 10⁻³."