

## (2) Nuclear Power Reactor Facilities in the Research and Development Stage

Facility	Category of Radiation Worker	No. of Radiation Workers (persons)					
		5 mSv or less	Greater than 5 mSv and no more than 10 mSv	Greater than 10 mSv and no more than 15 mSv	Greater than 15 mSv and no more than 20 mSv	Greater than 20 mSv and no more than 25 mSv	Greater than 25 mSv and no more than 30 mSv
Japan Atomic Energy Agency, Fugen Decommissioning Engineering Center	Employees	120	1	0	0	0	0
	Others	444	1	0	0	0	0
	Total	564	2	0	0	0	0
Japan Atomic Energy Agency, Fast Breeder Prototype Reactor Monju	Employees	411	0	0	0	0	0
	Others	915	0	0	0	0	0
	Total	1,326	0	0	0	0	0
Grand Total	Employees	531	1	0	0	0	0
	Others	1,359	1	0	0	0	0
	Total	1,890	2	0	0	0	0

## (3) Fuel Manufacturing Facilities

Facility	Category of Radiation Worker	No. of Radiation Workers (persons)					
		5 mSv or less	Greater than 5 mSv and no more than 10 mSv	Greater than 10 mSv and no more than 15 mSv	Greater than 15 mSv and no more than 20 mSv	Greater than 20 mSv and no more than 25 mSv	Greater than 25 mSv and no more than 30 mSv
Global Nuclear Fuel-Japan Co., Ltd.	Employees	312	0	0	0	0	0
	Others	197	0	0	0	0	0
	Total	509	0	0	0	0	0
Mitsubishi Nuclear Fuel Co., Ltd.	Employees	406	0	0	0	0	0
	Others	135	0	0	0	0	0
	Total	541	0	0	0	0	0
Nuclear Fuel Industries, Ltd., Tokai Works	Employees	230	0	0	0	0	0
	Others	158	0	0	0	0	0
	Total	388	0	0	0	0	0
Nuclear Fuel Industries, Ltd., Kumatori Works	Employees	245	0	0	0	0	0
	Others	121	0	0	0	0	0
	Total	366	0	0	0	0	0
Japan Atomic Energy Agency, Uranium Enrichment Demonstration Plant	Employees	62	0	0	0	0	0
	Others	123	0	0	0	0	0
	Total	185	0	0	0	0	0
Japan Nuclear Fuel Ltd., Enrichment and Disposal Office (Uranium Enrichment Plant)	Employees	192	0	0	0	0	0
	Others	480	0	0	0	0	0
	Total	672	0	0	0	0	0
Grand Total	Employees	1,447	0	0	0	0	0
	Others	1,214	0	0	0	0	0
	Total	2,661	0	0	0	0	0

No. of Radiation Workers (persons)						Collective Dose (person-Sv)	Average Individual Dose (mSv)	Maximum Individual Dose (mSv)
Greater than 30 mSv and no more than 35 mSv	Greater than 35 mSv and no more than 40 mSv	Greater than 40 mSv and no more than 45 mSv	Greater than 45 mSv and no more than 50 mSv	Greater than 50 mSv	Total			
0	0	0	0	0	121	0.04	0.3	5.8
0	0	0	0	0	445	0.10	0.2	5.6
0	0	0	0	0	566	0.13	0.2	5.8
0	0	0	0	0	411	0.00	0.0	0.0
0	0	0	0	0	915	0.00	0.0	0.0
0	0	0	0	0	1,326	0.00	0.0	0.0
0	0	0	0	0	532	0.04	0.1	5.8
0	0	0	0	0	1,360	0.10	0.1	5.6
0	0	0	0	0	1,892	0.13	0.1	5.8

No. of Radiation Workers (persons)						Collective Dose (person-Sv)	Average Individual Dose (mSv)	Maximum Individual Dose (mSv)
Greater than 30 mSv and no more than 35 mSv	Greater than 35 mSv and no more than 40 mSv	Greater than 40 mSv and no more than 45 mSv	Greater than 45 mSv and no more than 50 mSv	Greater than 50 mSv	Total			
0	0	0	0	0	312	0.03	0.1	2.1
0	0	0	0	0	197	0.00	0.0	0.4
0	0	0	0	0	509	0.03	0.1	2.1
0	0	0	0	0	406	0.03	0.1	2.5
0	0	0	0	0	135	0.00	0.0	0.1
0	0	0	0	0	541	0.03	0.1	2.5
0	0	0	0	0	230	0.03	0.2	1.4
0	0	0	0	0	158	0.00	0.0	0.3
0	0	0	0	0	388	0.04	0.1	1.4
0	0	0	0	0	245	0.02	0.1	1.0
0	0	0	0	0	121	0.00	0.0	0.2
0	0	0	0	0	366	0.02	0.1	1.0
0	0	0	0	0	62	0.00	0.0	0.1
0	0	0	0	0	123	0.00	0.0	0.2
0	0	0	0	0	185	0.00	0.0	0.2
0	0	0	0	0	192	0.00	0.0	0.2
0	0	0	0	0	480	0.00	0.0	0.1
0	0	0	0	0	672	0.00	0.0	0.2
0	0	0	0	0	1,447	0.11	0.1	2.5
0	0	0	0	0	1,214	0.00	0.0	0.4
0	0	0	0	0	2,661	0.12	0.0	2.5

## (iv) Reprocessing Facilities

Facility	Category of Radiation Worker	No. of Radiation Workers (persons)					
		5 mSv or less	Greater than 5 mSv and no more than 10 mSv	Greater than 10 mSv and no more than 15 mSv	Greater than 15 mSv and no more than 20 mSv	Greater than 20 mSv and no more than 25 mSv	Greater than 25 mSv and no more than 30 mSv
Japan Atomic Energy Agency, Reprocessing Facility	Employees	396	0	0	0	0	0
	Others	969	1	0	0	0	0
	Total	1,365	1	0	0	0	0
Japan Nuclear Fuel Ltd., Reprocessing Plant (Reprocessing Facility)	Employees	1,231	0	0	0	0	0
	Others	3,818	0	0	0	0	0
	Total	5,049	0	0	0	0	0
Grand Total	Employees	1,627	0	0	0	0	0
	Others	4,787	1	0	0	0	0
	Total	6,414	1	0	0	0	0

## (v) Waste Burial Facilities and Waste Management Facilities

Facility	Category of Radiation Worker	No. of Radiation Workers (persons)					
		5 mSv or less	Greater than 5 mSv and no more than 10 mSv	Greater than 10 mSv and no more than 15 mSv	Greater than 15 mSv and no more than 20 mSv	Greater than 20 mSv and no more than 25 mSv	Greater than 25 mSv and no more than 30 mSv
Japan Nuclear Fuel Ltd., Enrichment and Disposal Office (Low-Level Radioactive Waste Disposal Center)	Employees	82	0	0	0	0	0
	Others	235	0	0	0	0	0
	Total	317	0	0	0	0	0
Japan Nuclear Fuel Ltd., Reprocessing Plant (Waste Storage Facility)	Employees	193	0	0	0	0	0
	Others	788	0	0	0	0	0
	Total	981	0	0	0	0	0
Japan Atomic Energy Agency, Radioactive Waste Disposal Facility	Employees	/	/	/	/	/	/
	Others	/	/	/	/	/	/
	Total	/	/	/	/	/	/
Japan Atomic Energy Agency, Radioactive Waste Management Facility	Employees	31	0	0	0	0	0
	Others	182	0	0	0	0	0
	Total	213	0	0	0	0	0
Grand Total	Employees	306	0	0	0	0	0
	Others	1,205	0	0	0	0	0
	Total	1,511	0	0	0	0	0

No. of Radiation Workers (persons)						Collective Dose (person-Sv)	Average Individual Dose (mSv)	Maximum Individual Dose (mSv)
Greater than 30 mSv and no more than 35 mSv	Greater than 35 mSv and no more than 40 mSv	Greater than 40 mSv and no more than 45 mSv	Greater than 45 mSv and no more than 50 mSv	Greater than 50 mSv	Total			
0	0	0	0	0	396	0.04	0.1	2.3
0	0	0	0	0	970	0.09	0.1	5.8
0	0	0	0	0	1,366	0.13	0.1	5.8
0	0	0	0	0	1,231	0.01	0.0	0.6
0	0	0	0	0	3,818	0.13	0.0	3.1
0	0	0	0	0	5,049	0.14	0.0	3.1
0	0	0	0	0	1,627	0.05	0.0	2.3
0	0	0	0	0	4,788	0.22	0.0	5.8
0	0	0	0	0	6,415	0.27	0.0	5.8

No. of Radiation Workers (persons)						Collective Dose (person-Sv)	Average Individual Dose (mSv)	Maximum Individual Dose (mSv)
Greater than 30 mSv and no more than 35 mSv	Greater than 35 mSv and no more than 40 mSv	Greater than 40 mSv and no more than 45 mSv	Greater than 45 mSv and no more than 50 mSv	Greater than 50 mSv	Total			
0	0	0	0	0	82	0.00	0.0	0.1
0	0	0	0	0	235	0.00	0.0	0.0
0	0	0	0	0	317	0.00	0.0	0.1
0	0	0	0	0	193	0.00	0.0	0.0
0	0	0	0	0	788	0.00	0.0	0.0
0	0	0	0	0	981	0.00	0.0	0.0
/	/	/	/	/	/	/	/	/
0	0	0	0	0	31	0.00	0.0	0.2
0	0	0	0	0	182	0.00	0.0	0.5
0	0	0	0	0	213	0.00	0.0	0.5
0	0	0	0	0	306	0.00	0.0	0.2
0	0	0	0	0	1,205	0.00	0.0	0.5
0	0	0	0	0	1,511	0.00	0.0	0.5

**Table 9 Radiation Dose of Radiation Workers in FY2013  
(Nuclear Reactor Facilities for Test and Research, etc.)**

Site Name		Category	Dose Distribution for Radiation Workers (persons)						FY2013			FY2012		
			5 mSv or less	Greater than 5 mSv and no more than 15 mSv	Greater than 15 mSv and no more than 20 mSv	Greater than 20 mSv and no more than 25 mSv	Greater than 25 mSv and no more than 50 mSv	Greater than 50 mSv	No. of Radiation Workers (persons)	Collective Dose (person-mSv)	Average Dose (mSv)	No. of Radiation Workers (persons)	Collective Dose (person-mSv)	Average Dose (mSv)
Japan Atomic Energy Agency	Tokai Research and Development Center, Nuclear Science Research Institute *2	Employees	331	0	0	0	0	0	331	2	0.0	344	6	0.0
		Others	868	0	0	0	0	0	868	26	0.0	1,177	32	0.0
		Total	1,199	0	0	0	0	0	1,199	28	0.0	1,521	38	0.0
	Oarai Research and Development Center (North Area) *2	Employees	124	0	0	0	0	0	124	0	0.0	128	0	0.0
		Others	415	0	0	0	0	0	415	0	0.0	524	0	0.0
		Total	539	0	0	0	0	0	539	0	0.0	652	0	0.0
	Oarai Research and Development Center (South Area) *2	Employees	108	0	0	0	0	0	108	2	0.0	107	3	0.0
		Others	343	0	0	0	0	0	343	50	0.1	339	12	0.0
		Total	451	0	0	0	0	0	451	52	0.1	446	15	0.0
Aomori Research and Development Center, Mutsu Office	Employees	19	0	0	0	0	0	19	0	0.0	19	0	0.0	
	Others	44	0	0	0	0	0	44	0	0.0	41	0	0.0	
	Total	63	0	0	0	0	0	63	0	0.0	60	0	0.0	
The University of Tokyo, Graduate School of Engineering, Nuclear Professional School *3	Employees	53	0	0	0	0	0	53	4	0.1	53	1	0.0	
	Others	-	-	-	-	-	-	-	-	-	-	-	-	
	Total	53	0	0	0	0	0	53	4	0.1	53	1	0.0	
Kyoto University, Research Reactor Institute *3	Employees	180	0	0	0	0	0	180	11	0.1	190	15	0.1	
	Others	367	0	0	0	0	0	367	0	0.0	366	0	0.0	
	Total	547	0	0	0	0	0	547	11	0.0	556	16	0.0	
Rikkyo University, Institute for Atomic Energy	Employees	4	0	0	0	0	0	4	0	0.0	5	0	0.0	
	Others	28	0	0	0	0	0	28	0	0.0	29	0	0.0	
	Total	32	0	0	0	0	0	32	0	0.0	34	0	0.0	
Tokyo City University, Atomic Energy Research Institute	Employees	11	0	0	0	0	0	11	0	0.0	12	0	0.0	
	Others	-	-	-	-	-	-	-	-	-	-	-	-	
	Total	11	0	0	0	0	0	11	0	0.0	12	0	0.0	
Kinki University, Atomic Energy Research Institute *4	Employees	48 {28}	0	0	0	0	0	48 {28}	0	0.0	50 {32}	0	0.0	
	Others	3	0	0	0	0	0	3	0	0.0	3	0	0.0	
	Total	51 {28}	0	0	0	0	0	51 {28}	0	0.0	53 {32}	0	0.0	
Toshiba Corporation	Research Reactor Center	Employees	18	0	0	0	0	0	18	0	0.0	17	0	0.0
		Others	37	0	0	0	0	0	37	0	0.0	33	0	0.0
		Total	55	0	0	0	0	0	55	0	0.0	50	0	0.0
Nuclear Engineering Laboratory *3	Employees	21	0	0	0	0	0	21	0	0.0	21	1	0.0	
	Others	46	0	0	0	0	0	46	0	0.0	38	0	0.0	
	Total	67	0	0	0	0	0	67	0	0.0	59	1	0.0	
Hitachi, Ltd. Power & Industrial Systems, Nuclear System Division, Ozenji Hitachi Training Reactor Center	Employees	4	0	0	0	0	0	4	0	0.0	5	0	0.0	
	Others	8	0	0	0	0	0	8	0	0.0	-	-	-	
	Total	12	0	0	0	0	0	12	0	0.0	5	0	0.0	
Subtotal	Employees	921	0	0	0	0	0	921	19	0.0	951	26	0.0	
	Others	2,159	0	0	0	0	0	2,159	76	0.0	2,550	44	0.0	
	Total	3,068	0	0	0	0	0	3,080	95	0.0	3,501	70	0.0	

\*1: "-" in the "Dose Distribution for Radiation Workers" column indicates there were no applicable radiation workers.

\*2: Among radiation workers at the Nuclear Science Research Institute, Tokai Research and Development Center, Japan Atomic Energy Agency(JAEA), the JAEA Oarai Research and Development Center (North Area), and the JAEA Oarai Research and Development Center (South Area), those categorized as radiation workers for both reactor facilities in test and research, etc. and nuclear fuel material use facilities are counted as radiation workers in reactor facilities in test and research, etc.

\*3: Among radiation workers at the Nuclear Professional School, Graduate School of Engineering, the University of Tokyo, the Research Reactor Institute, Kyoto University, and the Nuclear Engineering Laboratory, Toshiba Corporation, those categorized as radiation workers for both reactor facilities in test and research, etc. and nuclear fuel material use facilities are counted as radiation workers for both reactor facilities in test and research, etc. and nuclear fuel material use facilities, respectively (doubly counted).

\*4: Figures in curly brackets { } for the Atomic Energy Research Institute, Kinki University indicate the number of students of Kinki University's Faculty of Science and Engineering who use the reactor facility for graduate research.

(Note) This table has been prepared as follows (the same applies to Tables 2 through 4).

(1) "Employees" indicates employees of the relevant facility; "others" indicates contractors, etc.

(2) "Collective Dose" was counted after rounding off each dose to the first decimal place. "0" indicates less than 0.5 person-mSv.

(3) "Average Dose" was counted after rounding each dose to the second decimal place. "0.0" indicates less than 0.05 mSv.

**Table 11 Radiation Dose of Radiation Workers in FY2013  
(Nuclear Fuel Material Use Facilities)**

Site Name		Category	Dose Distribution for Radiation Workers (persons)						FY2013			FY2012		
			5 mSv or less	Greater than 5 mSv and no more than 15 mSv	Greater than 15 mSv and no more than 20 mSv	Greater than 20 mSv and no more than 25 mSv	Greater than 25 mSv and no more than 50	Greater than 50 mSv	No. of Radiation Workers (persons)	Collective Dose (person-mSv)	Average Dose (mSv)	No. of Radiation Workers (persons)	Collective Dose (person-mSv)	Average Dose (mSv)
Japan Atomic Energy Agency	Tokai Research and Development Center, Nuclear Science Research Institute *2	Employees	149	0	0	0	0	0	149	3	0.0	141	10	0.1
		Others	333	0	0	0	0	0	333	22	0.1	393	46	0.1
		Total	482	0	0	0	0	0	482	25	0.1	534	56	0.1
	Tokai Research and Development Center, Nuclear Fuel Cycle Engineering Laboratories	Employees	391	0	0	0	0	0	391	21	0.1	393	12	0.0
		Others	1,106	1	0	0	0	0	1,107	222	0.2	1,089	203	0.2
		Total	1,497	1	0	0	0	0	1,498	243	0.2	1,482	215	0.1
	Oarai Research and Development Center (North Area) *2	Employees	89	0	0	0	0	0	89	0	0.0	81	5	0.1
		Others	224	0	0	0	0	0	224	1	0.0	256	0	0.0
		Total	313	0	0	0	0	0	313	1	0.0	337	5	0.0
	Oarai Research and Development Center (South Area) *2	Employees	71	0	0	0	0	0	71	17	0.2	74	8	0.1
		Others	243	0	0	0	0	0	243	60	0.2	270	9	0.0
		Total	314	0	0	0	0	0	314	77	0.2	344	17	0.0
Ningyo-toge Environmental Engineering Center	Employees	76	0	0	0	0	0	76	0	0.0	84	0	0.0	
	Others	201	0	0	0	0	0	201	1	0.0	209	2	0.0	
	Total	277	0	0	0	0	0	277	1	0.0	293	2	0.0	
The University of Tokyo, Graduate School of Engineering, Nuclear Professional School *3	Employees	(53)	(0)	(0)	(0)	(0)	(0)	(53)	(4)	(0.1)	(53)	(1)	(0.0)	
	Others	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
	Total	(53)	(0)	(0)	(0)	(0)	(0)	(53)	(4)	(0.1)	(53)	(1)	(0.0)	
Kyoto University, Research Reactor Institute *4	Employees	(24)	(0)	(0)	(0)	(0)	(0)	(24)	(1)	(0.0)	(23)	2	(0.1)	
	Others	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
	Total	(24)	(0)	(0)	(0)	(0)	(0)	(24)	(1)	(0.0)	(23)	2	(0.1)	
National Institute of Radiological Sciences	Employees	115	0	0	0	0	0	115	1	0.0	112	2	0.0	
	Others	218	0	0	0	0	0	218	0	0.0	152	2	0.0	
	Total	333	0	0	0	0	0	333	1	0.0	264	3	0.0	
National Institute of Advanced Industrial Science and Technology, Tsukuba Central 2	Employees	14	0	0	0	0	0	14	0	0.0	14	0	0.0	
	Others	-	-	-	-	-	-	-	-	-	-	-	-	
	Total	14	0	0	0	0	0	14	0	0.0	14	0	0.0	
Nuclear Material Control Center	Tokai Safeguard Center	Employees	52	0	0	0	0	0	52	7	0.1	59	7	0.1
		Others	57	0	0	0	0	0	57	0	0.0	87	0	0.0
		Total	109	0	0	0	0	0	109	7	0.1	146	7	0.1
	Rokkasho Safeguard Center	Employees	37	0	0	0	0	0	37	0	0.0	48	0	0.0
		Others	155	0	0	0	0	0	155	0	0.0	164	0	0.0
		Total	192	0	0	0	0	0	192	0	0.0	212	0	0.0
Nuclear Fuel Industries, Ltd., Tokai Works *5	Employees	230	0	0	0	0	0	230	35	0.2	238	53	0.2	
	Others	158	0	0	0	0	0	158	1	0.0	91	7	0.1	
	Total	388	0	0	0	0	0	388	35	0.1	329	59	0.2	
Nippon Nuclear Fuel Development Co., Ltd.	Employees	54	0	0	0	0	0	54	22	0.4	56	28	0.5	
	Others	139	0	0	0	0	0	139	57	0.4	142	60	0.4	
	Total	193	0	0	0	0	0	193	79	0.4	198	87	0.4	
Nuclear Development Corporation	Employees	48	0	0	0	0	0	48	17	0.4	51	16	0.3	
	Others	98	0	0	0	0	0	98	25	0.3	85	30	0.4	
	Total	146	0	0	0	0	0	146	42	0.3	136	46	0.3	
Toshiba Corporation, Nuclear Engineering Laboratory	Employees	16	0	0	0	0	0	16	0	0.0	14	0	0.0	
	Others	37	0	0	0	0	0	37	0	0.0	33	0	0.0	
	Total	53	0	0	0	0	0	53	0	0.0	47	0	0.0	
Subtotal		Employees	1,342	0	0	0	0	0	1,342	122	0.1	1,365	140	0.1
		Others	2,969	1	0	0	0	0	2,970	389	0.1	2,971	358	0.1
		Total	4,311	1	0	0	0	0	4,312	510	0.1	4,336	498	0.1

\*1: "-" in the "Dose Distribution for Radiation Workers" column indicates there were no applicable radiation workers.

\*2: Among radiation workers at the Nuclear Science Research Institute, Tokai Research and Development Center, Japan Atomic Energy Agency(JAEA), the JAEA Oarai Research and Development Center (North Area), and the JAEA Oarai Research and Development Center (South Area), those working in facilities that are also subject to regulation as reactor facilities in test and research, etc. from among nuclear fuel material use facilities categorized as specified in Article 41 of the Cabinet Order for the Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Nuclear Reactors are excluded.

\*3: All radiation workers in the Nuclear Professional School, Graduate School of Engineering, the University of Tokyo are excluded from the subtotal because they engage in radiation work both at the reactor facility in test and research, etc. and the nuclear fuel material use facility.

\*4: All radiation workers in nuclear fuel material use facility at the Research Reactor Institute, Kyoto University are excluded from the subtotal because they also engage in radiation work at the reactor facilities in test and research, etc.

\*5: Tokai Works, Nuclear Fuel Industries, Ltd. is also categorized as a fuel manufacturing facility, so all radiation workers there are deemed to be radiation workers both at the nuclear fuel material use facility and the fuel manufacturing facility.