

Exposure Dose Distribution

1. Exposure Dose

The distribution of external exposure dose of the workers who engaged in the emergency works during the past 3 months (numbers of workers who entered each area every month) is shown in Table 1.

Table 1

Classification (mSv)	July 2013			August 2013			September 2013		
	TEPCO	Contractor	Total	TEPCO	Contractor	Total	TEPCO	Contractor	Total
Over 100	0	0	0	0	0	0	0	0	0
75-100	0	0	0	0	0	0	0	0	0
50-75	0	0	0	0	0	0	0	0	0
20-50	0	0	0	0	0	0	0	0	0
10-20	0	9	9	0	40	40	0	33	33
5-10	1	107	108	4	142	146	1	233	234
1-5	96	1128	1224	117	1209	1326	81	1344	1425
1 or less	892	3750	4642	835	3666	4501	861	3571	4432
Total	989	4994	5938	956	5057	6013	943	5181	6124
Max. (mSv)	5.50	14.80	14.80	6.10	19.89	19.89	5.10	17.95	17.95
Ave. (mSv)	0.43	0.89	0.81	0.49	1.03	0.94	0.36	1.13	1.01

* Number of dose and workers is subject to change, due to replacement of APD data to monthly dose data measured by integral dosimeter and reflection of workers who wear integral dosimeter (example: workers who entered only the Main Anti-earthquake Building).

2. Total of external exposure and internal exposure doses combined

The accumulative exposure doses of the workers who engaged in the emergency works at the end of August (March 11, 2011 to August 31, 2013) and at the end of September (March 11, 2011 to September 30, 2013) is shown in Table 2. The exposure dose distributions at the end of August (April 2013 to August 2013) and at the end of September (April 2013 to September 2013) are shown in Table 3.

Table 2

Classification (mSv)	March 2011-August 2013			March 2011-September 2013			Fluctuation		
	TEPCO	Contractor	Total	TEPCO	Contractor	Total	TEPCO	Contractor	Total
Over 250	6	0	6	6	0	6	0	0	0
200-250	1	2	3	1	2	3	0	0	0
150-200	24	2	26	24	2	26	0	0	0
100-150	118	20	138	118	20	138	0	0	0
75-100	246	96	342	248	97	345	2	1	3
50-75	312	700	1012	314	731	1045	2	31	33
20-50	609	3901	4510	607	3962	4569	-2	61	59
10-20	531	3592	4123	534	3633	4167	3	41	44
5-10	419	3429	3848	421	3540	3961	2	111	113
1-5	649	6506	7155	653	6531	7184	4	25	29
1 or less	965	7207	8172	1042	7327	8369	77	120	197
Total	3880	25455	29335	3968	25845	29813	88	390	478
Max. (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Ave. (mSv)	24.36	10.69	12.50	23.90	10.75	12.50	-	-	-

* Number of dose and workers is subject to change, due to replacement of APD data to monthly dose data measured by integral dosimeter and reflection of workers who wear integral dosimeter (example: workers who entered only the Main Anti-earthquake Building).

* There has been no significant internal radiation exposure reported since October 2011.

* The accumulative exposure doses are fluctuated due to the reexamination of internal radiation exposure.

Table 3

Classification (mSv)	April 2013-August 2013			April 2013-September 2013			Fluctuation		
	TEPCO	Contractor	Total	TEPCO	Contractor	Total	TEPCO	Contractor	Total
Over 100	0	0	0	0	0	0	0	0	0
75-100	0	0	0	0	0	0	0	0	0
50-75	0	0	0	0	0	0	0	0	0
20-50	3	64	67	3	117	120	0	53	53
10-20	27	485	512	34	665	699	7	180	187
5-10	72	991	1063	94	1193	1287	22	202	224
1-5	501	2797	3298	531	2907	3438	30	110	140
1 or less	721	3711	4432	776	3845	4621	55	134	189
Total	1324	8048	9372	1438	8727	10165	114	679	793
Max. (mSv)	22.70	38.24	38.24	25.88	39.49	39.49	-	-	-
Ave. (mSv)	1.73	2.86	2.70	1.83	3.31	3.10	-	-	-

* Number of dose and workers is subject to change, due to replacement of APD data to monthly dose data measured by integral dosimeter and reflection of workers who wear integral dosimeter (example: workers who entered only the Main Anti-earthquake Building).

3. Total of external exposure and internal exposure doses of specific workers under high radiation dose

Distribution of the accumulative exposure dose of the Specific workers under high radiation dose*¹ is shown in Table 4.

Table 4

Classification (mSv)	July 2013	August 2013	September 2013	March 2011-September 2013
Over 100	0	0	0	1
75-100	0	0	0	140
50-75	0	0	0	202
20-50	0	0	0	228
10-20	0	0	0	105
5-10	1	4	1	79
1-5	93	107	80	88
1 or less	476	444	450	44
Total	570	555	531	887
Max. (mSv)	5.50	6.10	5.10	102.69
Ave. (mSv)	0.60	0.68	0.47	39.36

(54 workers did not enter the site in September)

*¹ Specific workers under high radiation dose

The workers who applied Emergency dose limit (100mSv) shown in "Ordinance on Prevention of Ionizing Radiation Hazards, chapter 7." Specifically, it means the workers who engaged in the work to maintain the function that cooling reactor facility or spent fuel tank at the area where the radiation dose exceed 0.1 mSv/h and reactor facility, steam turbine and related facilities and surrounding area in the power plant or the work to maintain the function to control or prevent release of huge amount radioactive material due to trouble or break of reactor facility. Until now, all specific workers under high radiation dose are TEPCO Employees.

*² Definition of the specific workers under high radiation dose is changed to the workers who were applied as the specific workers under high radiation dose for each month. However, workers who are no longer are the specific workers under high radiation dose are included in the figures from March 2011 to September 2013.

*³ Number of dose and workers is subject to change, due to replacement of APD data to monthly dose data measured by integral dosimeter and reflection of workers who wear integral dosimeter (example: workers who entered only the Main Anti-earthquake Building).

*⁴ A person who exposed the maximum dose rate (over 100mSv) in the figures from March 2011 to September 2013 has emerged due to the reexamination of internal radiation exposure in March 2011.

Ends