

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)	November 2013			December 2013			January 2014		
	TEPCO	Contactor	Total	TEPCO	Contactor	Total	TEPCO	Contactor	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	32	32	0	22	22	0	29	29
5-10	5	303	308	2	197	199	0	218	218
1-5	120	1533	1653	115	1606	1721	69	1446	1515
1 or less	954	3700	4654	969	3867	4836	855	4120	4975
Total	1079	5568	6647	1086	5692	6778	924	5813	6737
Max. (mSv)	9.20	16.91	16.91	5.40	16.81	16.81	4.15	15.12	15.12
Ave. (mSv)	0.48	1.28	1.15	0.44	1.11	1.00	0.32	1.08	0.97

*Numbers dose and workers are 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 December (March 11, 2011 to December 31, 2013) and at the end of January (March 11, 2011 to January 31, 2014) is shown in Table 2. The exposure dose distributions at the end of December (April 2013 to December 2013) and at the end of January (April 2013 to January 2014) are shown in Table 3.

Table 2

Classification (mSv)	March 2011 – December 2013			March 2011 – January 2014			Fluctuation		
	TEPCO	Contactor	Total	TEPCO	Contactor	Total	TEPCO	Contactor	Total
Over 250	6	0	6	6	0	6	0	0	0
200-250	1	2	3	1	2	3	0	0	0
15-200	24	2	26	24	2	26	0	0	0
100-150	118	20	138	118	20	138	0	0	0
75-100	256	112	368	258	117	375	2	5	7
50-75	323	854	1177	325	878	1203	2	24	26
20-50	609	4204	4813	610	4291	4901	1	87	88
10-20	543	3887	4430	544	3952	4496	1	65	66
5-10	431	3683	4114	432	3783	4215	1	100	101
1-5	707	6829	7536	722	6970	7692	15	141	156
1 or less	1068	7704	8772	1062	7917	8979	-6	213	207
Total	4086	27297	31383	4102	27932	32034	16	635	651
Max. (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Ave. (mSv)	23.63	10.99	12.63	23.61	10.96	12.58	-	-	-

* Numbers dose and workers are 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.

Table 3

Classification (mSv)	April 2013 – December 2013			April 2013 – January 2014			Fluctuation		
	TEPCO	Contacto	Total	TEPCO	Contacto	Total	TEPCO	Contacto	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	21	386	407	24	465	489	3	79	82
10-20	55	1386	1441	64	1593	1657	9	207	216
5-10	159	1589	1748	169	1714	1883	10	125	135
1-5	654	3278	3932	667	3426	4093	13	148	161
1 or less	720	4088	4808	716	4316	5032	-4	228	224
Total	1609	10727	12336	1640	11514	13514	31	787	818
Max. (mSv)	34.88	39.70	39.70	36.61	39.96	39.96	-	-	-
Ave. (mSv)	2.69	4.74	4.47	2.82	4.96	4.69	-	-	-

* Numbers dose and workers are 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)	November 2013	December 2013	January 2014	March 2011 – January 2014
Over 100	0	0	0	1
75-100	0	0	0	151
50-75	0	0	0	213
20-50	0	0	0	235
10-20	0	0	0	125
5-10	5	2	0	91
1-5	116	105	62	130
1 or less	504	521	512	43
Total	625	628	574	989
Max. (mSv)	9.20	5.40	4.15	102.69
Ave. (mSv)	0.66	0.60	0.39	37.49

(72 workers out of 646 did not enter the site in January)

*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 December 2013.

*3 Numbers dose and workers are 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 December 2013 has emerged due to the reexamination of internal radiation exposure in March 2011.

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