

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)	September 2013			October 2013			November 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	1	1	0	0	0	0	0	0
10-20	0	61	61	0	47	47	0	27	27
5-10	3	247	250	8	343	351	4	226	230
1-5	102	1418	1520	146	1556	1702	88	1506	1594
1 or less	933	3525	4458	893	3459	4352	849	3737	4586
Total	1038	5252	6290	1047	5405	6452	941	5496	6437
Max. (mSv)	5.60	20.58	20.58	9.50	19.36	19.36	8.03	14.71	14.71
Ave. (mSv)	0.43	1.28	1.14	0.55	1.43	1.29	0.42	1.16	1.05

* 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 October (March 11, 2011 to October 31, 2013) and at the end of November (March 11, 2011 to November 30, 2013) is shown in Table 2. The exposure dose distributions at the end of October (April 2013 to October 2013) and at the end of November (April 2013 to November 2013) are shown in Table 3.

Table 2

Classification (mSv)	March 2011-October 2013			March 2011-November 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	254	103	357	255	106	361	1	3	4
50-75	316	772	1088	321	824	1145	5	52	57
20-50	608	4068	4676	607	4124	4731	-1	56	55
10-20	536	3730	4266	537	3794	4331	1	64	65
5-10	428	3588	4016	432	3635	4067	4	47	51
1-5	671	6633	7304	689	6721	7410	18	88	106
1 or less	1075	7422	8497	1075	7611	8686	0	189	189
Total	4037	26340	30377	4065	26839	30904	28	499	527
Max. (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Ave. (mSv)	23.66	10.88	12.58	23.60	10.91	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.

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

Table 3

Classification (mSv)	April 2013-October 2013			April 2013-November 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	9	219	228	14	306	320	5	87	92
10-20	44	922	966	47	1132	1179	3	210	213
5-10	128	1415	1543	141	1502	1643	13	87	100
1-5	577	3010	3587	609	3125	3734	32	115	147
1 or less	771	3860	4631	769	4039	4808	-2	179	177
Total	1529	9426	10955	1580	10104	11684	51	678	729
Max. (mSv)	31.38	39.70	39.70	33.63	39.70	39.70	-	-	-
Ave. (mSv)	2.17	3.97	3.72	2.36	4.34	4.07	-	-	-

* 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)	September 2013	October 2013	November 2013	March 2011- November 2013
Over 100	0	0	0	1
75-100	0	0	0	148
50-75	0	0	0	210
20-50	0	0	0	232
10-20	0	0	0	114
5-10	3	8	4	91
1-5	99	138	84	115
1 or less	470	441	479	53
Total	572	587	567	964
Max. (mSv)	5.60	9.50	8.03	102.69
Ave. (mSv)	0.60	0.79	0.52	37.59

(80 workers did not enter the site in November)

*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 November 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 November 2013 has emerged due to the reexamination of internal radiation exposure in March 2011.

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