

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)	October 2013			November 2013			December 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	47	47	0	32	32	0	11	11
5-10	8	343	351	5	303	308	0	158	158
1-5	146	1556	1702	119	1533	1652	99	1568	1667
1 or less	893	3459	4352	955	3700	4655	849	3896	4745
Total	1047	5405	6452	1079	5568	6647	948	5633	6581
Max. (mSv)	9.50	19.36	19.36	9.20	16.91	16.91	4.98	12.61	12.61
Ave. (mSv)	0.55	1.43	1.29	0.48	1.28	1.15	0.38	1.03	0.93

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

Table 2

Classification (mSv)	March 2011-November 2013			March 2011-December 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	255	108	363	255	112	367	0	4	4
50-75	321	826	1147	323	850	1173	2	24	26
20-50	608	4135	4743	607	4197	4804	-1	62	61
10-20	538	3800	4338	544	3875	4419	6	75	81
5-10	431	3633	4064	431	3687	4118	0	54	54
1-5	694	6705	7399	707	6835	7542	13	130	143
1 or less	1071	7610	8681	1070	7717	8787	-1	107	106
Total	4067	26841	30908	4086	27297	31383	19	456	475
Max. (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Ave. (mSv)	23.62	10.94	12.61	23.60	10.97	12.61	-	-	-

* 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-November 2013			April 2013-December 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	15	321	336	19	377	396	4	56	60
10-20	47	1147	1194	54	1370	1424	7	223	230
5-10	145	1509	1654	157	1592	1749	12	83	95
1-5	621	3102	3723	643	3284	3927	22	182	204
1 or less	754	4027	4781	735	4104	4839	-19	77	58
Total	1582	10106	11688	1608	10727	12335	26	621	647
Max. (mSv)	33.98	39.70	39.70	34.70	39.70	39.70	-	-	-
Ave. (mSv)	2.43	4.41	4.14	2.61	4.69	4.42	-	-	-

* 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)	October 2013	November 2013	December 2013	March 2011-December 2013
Over 100	0	0	0	1
75-100	0	0	0	148
50-75	0	0	0	212
20-50	0	0	0	233
10-20	0	0	0	122
5-10	8	5	0	89
1-5	138	115	89	125
1 or less	441	505	476	45
Total	587	625	565	975
Max. (mSv)	9.50	9.20	4.98	102.69
Ave. (mSv)	0.79	0.66	0.46	37.63

(80 workers did not enter the site in December)

*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.

End