

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)	August 2013			September 2013			October 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	1	0	0	0	0
10-20	0	40	40	0	61	33	0	28	28
5-10	4	142	146	3	247	234	4	278	282
1-5	117	1209	1326	102	1416	1425	130	1516	1646
1 or less	835	3666	4501	933	3524	4457	813	3500	4313
Total	956	5057	6013	1038	5249	6287	947	5322	6269
Max. (mSv)	6.10	19.89	19.89	5.60	20.58	20.58	8.19	15.22	15.22
Ave. (mSv)	0.49	1.03	0.94	0.43	1.28	1.14	0.48	1.27	1.15

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

Table 2

Classification (mSv)	March 2011-September 2013			March 2011-October 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	249	97	345	254	102	138	2	1	3
50-75	316	731	1045	315	767	1082	2	31	33
20-50	604	3962	4569	608	4058	4666	-2	61	59
10-20	534	3633	4167	531	3721	4252	3	41	44
5-10	426	3540	3961	432	3581	4013	2	111	113
1-5	655	6531	7184	671	6645	7316	4	25	29
1 or less	1035	7327	8369	1073	7443	8516	77	120	197
Total	3968	25845	29813	4033	26341	30374	88	390	478
Max. (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Ave. (mSv)	23.93	10.75	12.50	23.66	10.84	12.54	-	-	-

* 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-September 2013			April 2013- October 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	117	120	9	207	216	0	53	53
10-20	34	665	699	37	898	935	7	180	187
5-10	94	1193	1287	130	1403	1533	22	202	224
1-5	531	2907	3438	567	3022	3589	30	110	140
1 or less	776	3845	4621	782	3895	4677	55	134	189
Total	1438	8727	10165	1525	9425	10950	114	679	793
Max. (mSv)	25.88	39.49	39.49	30.69	39.70	39.70	-	-	-
Ave. (mSv)	1.83	3.31	3.10	2.10	3.87	3.63	-	-	-

* 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)	August 2013	September 2013	October 2013	March 2011-October 2013
Over 100	0	0	0	1
75-100	0	0	0	146
50-75	0	0	0	203
20-50	0	0	0	230
10-20	0	0	0	106
5-10	4	1	4	90
1-5	107	80	122	93
1 or less	444	450	424	46
Total	555	531	550	915
Max. (mSv)	6.10	5.10	8.19	102.69
Ave. (mSv)	0.68	0.47	0.64	38.76

(54 workers did not enter the site in October)

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

Ends