

Exposure Dose Distribution

1. External Exposure Dose of Radiation Workers at the Fukushima Daiichi Nuclear Power Station

Table 1 shows what levels of external radiation exposure the workers who were involved in radiation work at the Fukushima Daiichi Nuclear Power Station from January 2015 to March 2015 received.

Table 1

Dose Ranges (mSv)	January 2015			February 2015			March 2015		
	TEPCO's Employees	Contractors	Total	TEPCO's Employees	Contractors	Total	TEPCO's Employees	Contractors	Total
Above 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	1	1	0	36	36	0	104	104
5-10	0	56	56	6	285	291	2	479	481
1-5	37	1513	1550	74	2214	2288	65	2477	2542
1 or less	1111	8512	9623	1096	8497	9593	950	7762	8712
Total	1148	10082	11230	1176	11032	12208	1017	10822	11839
Max. (mSv)	4.20	12.80	12.80	8.00	16.80	16.80	5.49	18.80	18.80
Ave. (mSv)	0.22	0.56	0.53	0.33	0.89	0.83	0.27	1.14	1.07

• The values of the exposure dose and the number of the workers in the table above are subject to change, because there are times when APD data are replaced with monthly dose data measured by integral dosimeters. Or dose data of workers who wore only an integral dosimeter (ex., workers who entered only the Main Anti-earthquake Building) need to be updated in the table after the publication of the data.

2. External and Internal Exposure Doses of Radiation Workers at the Fukushima Daiichi Nuclear Power Station

Table 2 shows what levels of both external and internal radiation exposure the workers who were involved in radiation work at the Fukushima Daiichi Nuclear Power Station received during the two different periods of time, from March 11, 2011 to February 28, 2015 and from March 11, 2011 to March 31, 2015, comparing the figures of the two periods to indicate whether they increased, decreased or were the same. Table 3 lists data on the radiation exposure dose of the workers engaged in radiation work in a similar way to Table 2. In Table 3, however, the data are those of April 2014 to February 2015 and those of April 2014 to March 2015, and the comparison of the figures of the data is made between those of the two periods just mentioned.

Table 2

Dose Ranges (mSv)	March 2011 - February 2015			March 2011 - March 2015			Difference		
	TEPCO's Employees	Contractors	Total	TEPCO's Employees	Contractors	Total	TEPCO's Employees	Contractors	Total
Above 250	6	0	6	6	0	6	0	0	0
200-250	1	2	3	1	2	3	0	0	0
150-200	26	2	28	26	2	28	0	0	0
100-150	117	20	137	117	20	137	0	0	0
75-100	292	182	474	293	195	488	1	13	14
50-75	329	1324	1653	329	1358	1687	0	34	34
20-50	619	5560	6179	622	5687	6309	3	127	130
10-20	590	5042	5632	595	5363	5958	5	321	326
5-10	493	4928	5421	492	5027	5519	-1	99	98
1-5	820	9160	9980	824	9046	9870	4	-114	-110
1 or less	1130	11441	12571	1125	11480	12605	-5	39	34
Total	4423	37661	42084	4430	38180	42610	7	519	526
Max. (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Ave. (mSv)	23.10	10.85	12.14	23.13	11.03	12.29	-	-	-

- The values of the exposure dose and the number of the workers in the table above are subject to change, because there are times when APD data are replaced with monthly dose data measured by integral dosimeters. Or dose data of workers who wore only an integral dosimeter (ex., workers who entered only the Main Anti-earthquake Building) need to be updated in the table after the publication of the data.
- There has been no significant internal radiation exposure reported since October 2011.

Table 3

Dose Ranges (mSv)	April 2014 - February 2015			April 2014 - March 2015			Difference		
	TEPCO's Employees	Contractors	Total	TEPCO's Employees	Contractors	Total	TEPCO's Employees	Contractors	Total
Above 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	835	844	11	981	992	2	146	148
10-20	39	2038	2077	57	2568	2625	18	530	548
5-10	159	2664	2823	154	2784	2938	-5	120	115
1-5	606	5457	6063	631	5307	5938	25	-150	-125
1 or less	863	7362	8225	832	7370	8202	-31	8	-23
Total	1676	18356	20032	1685	19010	20695	9	654	663
Max. (mSv)	28.20	39.85	39.85	29.50	39.85	39.85	-	-	-
Ave. (mSv)	2.09	4.75	4.52	2.25	5.23	4.99	-	-	-

- The values of the exposure dose and the number of the workers in the table above are subject to change, because there are times when APD data are replaced with monthly dose data measured by integral dosimeters. Or dose data of workers who wore only an integral dosimeter (ex., workers who entered only the Main Anti-earthquake Building) need to be updated in the table after the publication of the data.

3. External and Internal Exposure Doses of “Workers Exposed to Especially High Radiation”

Table 4 shows what levels of both external and internal radiation exposure “workers exposed to especially high radiation”^{*1} received.^{*2}

Table 4

Dose Ranges (mSv)	January 2015	February 2015	March 2015	March 2011 - March 2015
Above 100	0	0	0	1
75-100	0	0	0	181
50-75	0	0	0	225
20-50	0	0	0	253
10-20	0	0	0	170
5-10	0	0	2	133
1-5	34	67	59	144
1 or less	583	546	532	29
Total	617	613	593	1136
Max. (mSv)	4.20	3.80	5.49	102.69
Ave. (mSv)	0.31	0.42	0.37	37.07

(The number of “workers exposed to especially high radiation” in March 2015 was 619, and 26 among them did not work at the site.)

1. “Workers exposed to especially high radiation” means workers who are involved in operations in which they could be exposed to the emergency dose limit (100mSv), which is stipulated in “Ordinance on Prevention of Ionizing Radiation Hazards, chapter 7.” In more detail, they are workers engaged in the work to maintain the function of the reactor facility or the cooling facility to cool down the spent fuel tank in the reactor facility, the steam turbine and its related facilities or the surrounding area where the radiation doses exceed 0.1mSv/h. Or they are workers who would engage in keeping running the function to control or prevent the release of a large number of radioactive materials should it be likely to occur due to malfunction or damage of the reactor facility.

So far workers who have worked as “workers exposed to especially high radiation” are all TEPCO’s employees.

2. The number of “workers exposed to especially high radiation” each month is the number of the workers who applied to work as such workers in a given month and were engaged in that work. The figures in the cumulative data during the period from March 2011 to March 2015 in Table 4 above include the number of workers who used to be “workers exposed to especially high radiation” as well.

- The values of the exposure dose and the number of the workers in the table above are subject to change, because there are times when APD data are replaced with monthly dose data measured by integral dosimeters. Or the dose data of workers who wore only an integral dosimeter (ex., workers who entered only the Main Anti-earthquake Building) need to be updated in the table after the publication of the data.
- The figure shown in the dose range ,“Above 100mSv,” in the cumulative data during the period from March 2011 to March 2015 is the figure when the March 2011 data of the internal exposure dose were reexamined in July 2013.