

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 November 2014 to January 2015 received.

Table 1

Dose Ranges (mSv)	November 2014			December 2014			January 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	19	19	0	34	34	0	1	1
5-10	0	269	269	0	283	283	0	49	49
1-5	45	1644	1689	60	1912	1972	26	1464	1490
1 or less	1141	8179	9320	1099	8234	9333	965	8146	9111
Total	1186	10111	11297	1159	10463	11622	991	9660	10651
Max. (mSv)	3.00	15.92	15.92	4.30	16.74	16.74	3.79	12.18	12.18
Ave. (mSv)	0.21	0.78	0.72	0.24	0.85	0.79	0.19	0.53	0.50

• 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 December 31, 2014 and from March 11, 2011 to January 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 to December 2014 and those of April 2014 to January 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 - December 2014			March 2011 - January 2015			Fluctuation		
	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	290	175	465	290	175	465	0	0	0
50-75	328	1258	1586	330	1286	1616	2	28	30
20-50	617	5353	5970	616	5435	6051	-1	82	81
10-20	581	4954	5535	581	4984	5565	0	30	30
5-10	488	4672	5160	494	4718	5212	6	46	52
1-5	805	8738	9543	808	8870	9678	3	132	135
1 or less	1134	11058	12192	1141	11268	12409	7	210	217
Total	4393	36232	40625	4410	36760	41170	17	528	545
Max. (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Ave. (mSv)	23.11	10.85	12.18	23.07	10.84	12.15	-	-	-

- 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 - December 2014			April 2014 - January 2015			Fluctuation		
	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	5	619	624	5	694	699	0	75	75
10-20	17	1662	1679	20	1783	1803	3	121	124
5-10	131	2342	2473	147	2463	2610	16	121	137
1-5	569	5011	5580	574	5125	5699	5	114	119
1 or less	902	6991	7893	907	7223	8130	5	232	237
Total	1624	16625	18249	1653	17288	18941	29	663	692
Max. (mSv)	24.50	39.85	39.85	25.60	39.85	39.85	-	-	-
Ave. (mSv)	1.77	4.31	4.08	1.85	4.44	4.22	-	-	-

- 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)	November 2014	December 2014	January 2015	March 2011 - January 2015
Above 100	0	0	0	1
75-100	0	0	0	178
50-75	0	0	0	225
20-50	0	0	0	249
10-20	0	0	0	162
5-10	0	0	0	133
1-5	44	57	24	147
1 or less	579	570	544	35
Total	623	627	568	1130
Max. (mSv)	3.00	4.30	3.79	102.69
Ave. (mSv)	0.31	0.35	0.24	36.75

(The number of “workers exposed to especially high radiation” in January 2015 was 622, and 54 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 and were engaged in that work. The figures in the cumulative data during the period from March 2011 to January 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 January 2015 is the figure when the March 2011 data of the internal exposure dose were reexamined in July 2013.