

Exposure Dose Distribution

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

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 2016 to March 2016 received.

Table 1

Dose Ranges (mSv)	January 2016			February 2016			March 2016		
	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	4	4	0	12	12	0	14	14
5-10	0	60	60	0	78	78	0	101	101
1-5	38	1194	1232	49	1461	1510	42	1245	1287
1 or less	1108	8070	9178	1128	7896	9024	1022	7945	8967
Total	1146	9328	10474	1177	9447	10624	1064	9305	10369
Maximum (mSv)	3.30	16.00	16.00	4.70	12.36	12.36	2.71	13.42	13.42
Average (mSv)	0.20	0.51	0.48	0.22	0.59	0.55	0.18	0.56	0.52

• 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 (Effective Dose)

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 29, 2016 and from March 11, 2011 to March 31, 2016, comparing the data figures of the two periods to indicate whether they increased, decreased or were the same. Table 3 shows data on the radiation exposure dose of the workers who were engaged in radiation work at the station during the different periods of time, from April 2015 to February 2016 and from April 2015 to March 2016, and the comparison results of the data figures between those periods are indicated in the table, as well.

Table 2

Dose Ranges (mSv)	March 2011 - February 2016			March 2011 - March 2016			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	318	293	611	321	312	633	3	19	22
50-75	329	1775	2104	327	1797	2124	-2	22	20
20-50	633	6471	7104	633	6513	7146	0	42	42
10-20	618	5707	6325	620	5793	6413	2	86	88
5-10	508	5467	5975	507	5442	5949	-1	-25	-26
1-5	898	9600	10498	907	9616	10523	9	16	25
1 or less	1252	12721	13973	1247	12747	13994	-5	26	21
Total	4706	42058	46764	4712	42244	46956	6	186	192
Maximum (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Average (mSv)	22.41	11.68	12.76	22.43	11.75	12.83	-	-	-

• 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.

• No significant internal radiation exposure dose has been reported since October 2011.

Table 3

Dose Ranges (mSv)	April 2015 - February 2016			April 2015 - March 2016			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	5	517	522	6	588	594	1	71	72
10-20	42	1762	1804	52	1940	1992	10	178	188
5-10	110	2175	2285	107	2247	2354	-3	72	69
1-5	509	5163	5672	539	5107	5646	30	-56	-26
1 or less	1020	6553	7573	992	6599	7591	-28	46	18
Total	1686	16170	17856	1696	16481	18177	10	311	321
Maximum (mSv)	23.10	43.20	43.20	23.94	43.20	43.20	-	-	-
Average (mSv)	1.73	4.26	4.02	1.83	4.50	4.25	-	-	-

• 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” (Effective Dose)

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 2016	February 2016	March 2016	March 2011 - March 2016
Above 100	0	0	0	1
75-100	0	0	0	191
50-75	0	0	0	233
20-50	0	0	0	267
10-20	0	0	0	186
5-10	0	0	0	129
1-5	0	0	0	145
1 or less	0	0	0	51
Total	0	0	0	1203
Maximum (mSv)	-	-	-	102.69
Average (mSv)	-	-	-	36.49

(Since October 2015, TEPCO has opted not to report to the Labour Standards Inspection Office on “workers exposed to especially high radiation.”)

1. "Workers exposed to especially high radiation" means workers who are involved in operations in which they could be exposed to the emergency exposure 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 cooling facility to cool down the reactor facility or 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 employees.

2. The number of “workers exposed to especially high radiation” each month is the number of the workers who reported working 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 2016 in Table 4 above include the numbers of workers who have been reported to work as “workers exposed to especially high radiation” at least once.

3. 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.

4. The figure shown in the dose range, “Above 100mSv,” in the cumulative data during the period from March 2011 to March 2016 is the figure when the March 2011 data of the internal exposure dose were reevaluated in July 2013.