

Exposure Dose Distribution

1. External Exposure Doses 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 August 2014 to October 2014 received.

Table 1

Dose Ranges (mSv)	August 2014			September 2014			October 2014		
	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	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	9	9	0	36	36	0	5	5
5-10	0	214	214	1	288	289	0	192	192
1-5	39	1338	1377	51	1634	1685	50	1661	1711
1 or less	1062	7810	8872	1110	8001	9111	972	7715	8687
Total	1101	9371	10472	1162	9959	11121	1022	9573	10595
Max. (mSv)	3.40	17.13	17.13	6.00	18.22	18.22	2.42	13.18	13.18
Ave. (mSv)	0.25	0.72	0.67	0.27	0.84	0.78	0.23	0.72	0.67

• The values of the exposure doses and the number of the workers on 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 reflected on 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 September 30, 2014 and from March 11, 2011 to October 31, 2014, comparing the figures to indicate whether they increased, decreased or were the same. Table 3 lists data on the radiation exposure doses of the workers engaged in radiation work in a similar way to Table 2. In Table 3, however, the comparison of the figures of the data is made between those of April to September 2014 and those of April to October 2014.

Table 2

Dose Ranges (mSv)	March 2011- September 2014			March 2011- October 2014			Fluctuation		
	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	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	25	2	27	25	2	27	0	0	0
100-150	118	20	138	118	20	138	0	0	0
75-100	281	163	444	283	166	449	2	3	5
50-75	321	1140	1461	321	1176	1497	0	36	36
20-50	620	5048	5668	620	5130	5750	0	82	82
10-20	566	4668	5234	570	4730	5300	4	62	66
5-10	475	4465	4940	480	4524	5004	5	59	64
1-5	765	8282	9047	770	8445	9215	5	163	168
1 or less	1155	10410	11565	1164	10637	11801	9	227	236
Total	4333	34200	38533	4358	34832	39190	25	632	657
Max. (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Ave. (mSv)	23.07	10.77	12.16	22.99	10.78	12.13	-	-	-

• The values of the exposure doses and the number of the workers on 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 reflected on 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 - September 2014			April 2014 - October 2014			Fluctuation		
	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	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	1	280	281	1	362	363	0	82	82
10-20	10	1035	1045	10	1197	1207	0	162	162
5-10	67	1690	1757	92	1930	2022	25	240	265
1-5	486	4535	5021	514	4751	5265	28	216	244
1 or less	940	6409	7349	939	6564	7503	-1	155	154
Total	1504	13949	15453	1556	14804	16360	52	855	907
Max. (mSv)	20.55	39.85	39.85	21.93	39.85	39.85	-	-	-
Ave. (mSv)	1.34	3.36	3.16	1.44	3.63	3.42	-	-	-

• The values of the exposure doses and the number of the workers on 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 reflected on 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)	August 2014	September 2014	October 2014	March 2011 - October 2014
Over 100	0	0	0	1
75-100	0	0	0	172
50-75	0	0	0	214
20-50	0	0	0	257
10-20	0	0	0	155
5-10	0	1	0	123
1-5	37	49	50	148
1 or less	576	566	521	39
Total	613	616	571	1109
Max. (mSv)	3.40	6.00	2.42	102.69
Ave. (mSv)	0.35	0.38	0.30	36.54

(The number of “workers exposed to especially high radiation” in October is 629, and 58 out of 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 0.1 mSv/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 take place 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. To work as “workers exposed to especially high radiation,” they applied each month as such. The figures in the cumulative data during the period from March 2011 to October 2014 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 doses and the number of the workers on 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 reflected on the table after the publication of the data.

- The figure shown in the dose range ,“over 100 mSv,” in the cumulative data during the period from March 2011 to October 2014 is the one when the March 2011 data of the internal exposure doses were reexamined in July 2013.