

Exposure Dose Distribution of the Workers at Fukushima Daiichi Nuclear Power Plant

(Updated on 31 March 2021)

1 Radiation Exposure Dose Distributions

(1) The distribution of external exposure dose of the workers during the last 3 months

(Numbers of workers who entered each area every month)

Effective dose (E) mSv	December-2020			January-2021			February-2021		
	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	Total
100<E	0	0	0	0	0	0	0	0	0
75<E≤100	0	0	0	0	0	0	0	0	0
50<E≤75	0	0	0	0	0	0	0	0	0
20<E≤50	0	0	0	0	0	0	0	0	0
10<E≤20	0	0	0	0	0	0	0	4	4
5<E≤10	0	26	26	0	8	8	1	42	43
1<E≤5	36	485	521	20	517	537	21	563	584
E≤1	975	5242	6217	897	5258	6155	909	5282	6191
Total	1011	5753	6764	917	5783	6700	931	5891	6822
Maximum (mSv)	2.29	9.00	9.00	2.53	6.70	6.70	6.10	11.67	11.67
Average (mSv)	0.13	0.33	0.30	0.11	0.33	0.30	0.13	0.39	0.36

(*) Exposure doses and the number of workers are subject to change due to the replacement of accumulated doses measured using PAD with monthly doses measured using an integrating dosimeter and the reflection of values for workers wearing only an integrating dosimeter (e.g., workers working only within a seismically isolated building).

(2) Combined Cumulative Effective Dose from April 2016 (Internal and External)

Effective dose (E) mSv	April 2016 - January 2021			April 2016 - February 2021			Difference		
	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	Total
100<E	0	0	0	0	0	0	0	0	0
75<E≤100	0	50	50	0	55	55	0	5	5
50<E≤75	2	321	323	2	335	337	0	14	14
20<E≤50	86	2002	2088	87	2029	2116	1	27	28
10<E≤20	151	2426	2577	154	2431	2585	3	5	8
5<E≤10	198	2492	2690	200	2522	2722	2	30	32
1<E≤5	612	4708	5320	614	4753	5367	2	45	47
E≤1	1398	10260	11658	1398	10316	11714	0	56	56
Total	2447	22259	24706	2455	22441	24896	8	182	190
Maximum (mSv)	58.72	87.80	87.80	58.89	88.42	88.42	-	-	-
Average (mSv)	3.17	6.84	6.47	3.22	6.88	6.52	-	-	-

(*) Exposure doses and the number of workers are subject to change due to the replacement of accumulated doses measured using PAD with monthly doses measured using an integrating dosimeter and the reflection of values for workers wearing only an integrating dosimeter (e.g., workers working only within a seismically isolated building).

(3) Combined Cumulative Effective Dose from April 2020 (Internal and External)

Effective dose (E) mSv	April 2020 - January 2021			April 2020 - February 2021			Difference		
	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	Total
100<E	0	0	0	0	0	0	0	0	0
75<E≤100	0	0	0	0	0	0	0	0	0
50<E≤75	0	0	0	0	0	0	0	0	0
20<E≤50	0	0	0	0	0	0	0	0	0
10<E≤20	5	624	629	7	769	776	2	145	147
5<E≤10	43	855	898	50	865	915	7	10	17
1<E≤5	224	2066	2290	233	2232	2465	9	166	175
E≤1	1045	4969	6014	1040	4916	5956	-5	-53	-58
Total	1317	8514	9831	1330	8782	10112	13	268	281
Maximum (mSv)	13.27	19.31	19.31	13.87	19.31	19.31	-	-	-
Average (mSv)	0.78	2.43	2.21	0.86	2.62	2.39	-	-	-

(*) Exposure doses and the number of workers are subject to change due to the replacement of accumulated doses measured using PAD with monthly doses measured using an integrating dosimeter and the reflection of values for workers wearing only an integrating dosimeter (e.g., workers working only within a seismically isolated building).

(4) Distribution of sum of external exposure dose and internal exposure dose of workers engaged in specified high-dose work

(Specified high-dose work has not been performed since October 2015.)

Effective dose (E) mSv	March 2011 - September 2015
100<E	1
75<E≤100	191
50<E≤75	233
20<E≤50	267
10<E≤20	186
5<E≤10	129
1<E≤5	145
E≤1	51
Total	1203
Maximum (mSv)	102.69
Average (mSv)	36.49

(As specified high-dose work has not been performed since October 2015, the table shows the data up to September 2015.)

(*) Workers engaged in work to which dose limit (100 mSv) during emergency work is applied in line with Article 7 of the Ordinance on Prevention of Ionizing Radiation Hazards.

Specifically, these workers are those who are engaged in work to maintain the functions of a nuclear reactor facility or spent fuel storage pool, or in work to maintain functions to suppress or prevent the possible release of a large amount of radioactive materials due to a failure of or damage to the nuclear reactor facility at a location around the nuclear reactor facility, steam turbine, or accessory facility where hourly dose may exceed 0.1 mSv.

It should be noted that only TEPCO employees have so far been engaged in specified high-dose work.

(*) The number of workers engaged in specified high-dose work is that of workers who were registered as such at least once during the period between March 2011 and September 2015.

(*) Exposure doses and the number of workers are subject to change due to the replacement of accumulated doses

measured using PAD with monthly doses measured using an integrating dosimeter and the reflection of values for workers wearing only an integrating dosimeter (e.g., workers working only within a seismically isolated building).

- (*) The results of re-evaluating committed doses in March 2011 reveal that maximum cumulative effective doses for the period between March 2011 and September 2015 exceeded 100.