

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

(Updated on 27 April 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	January-2021			February-2021			March-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	2	2	0	0	0
5<E≤10	0	8	8	1	45	46	0	55	55
1<E≤5	20	517	537	21	517	538	40	661	701
E≤1	897	5258	6155	909	5328	6237	957	5023	5980
Total	917	5783	6700	931	5892	6823	997	5739	6736
Maximum (mSv)	2.53	6.70	6.70	6.10	12.40	12.40	3.42	9.47	9.47
Average (mSv)	0.11	0.33	0.30	0.13	0.39	0.36	0.16	0.44	0.39

(*) 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).

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

Effective dose (E) mSv	April 2016 - February 2021			April 2016 - March 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	55	55	0	59	59	0	4	4
50<E≤75	2	334	336	2	350	352	0	16	16
20<E≤50	87	2025	2112	90	2050	2140	3	25	28
10<E≤20	154	2433	2587	159	2451	2610	5	18	23
5<E≤10	201	2521	2722	202	2532	2734	1	11	12
1<E≤5	610	4751	5361	616	4786	5402	6	35	41
E≤1	1401	10322	11723	1387	10340	11727	-14	18	4
Total	2455	22441	24896	2456	22568	25024	1	127	128
Maximum (mSv)	58.89	88.32	88.32	59.73	88.63	88.63	-	-	-
Average (mSv)	3.21	6.88	6.52	3.28	6.96	6.59	-	-	-

(*) 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 - February 2021			April 2020 - March 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	7	763	770	12	922	934	5	159	164
5<E≤10	51	862	913	62	863	925	11	1	12
1<E≤5	228	2257	2485	236	2314	2550	8	57	65
E≤1	1044	4900	5944	1027	4883	5910	-17	-17	-34
Total	1330	8782	10112	1337	8982	10319	7	200	207
Maximum (mSv)	13.87	19.31	19.31	14.83	19.31	19.31	-	-	-
Average (mSv)	0.86	2.62	2.39	0.98	2.84	2.60	-	-	-

(*) 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.