

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

(Updated on 27 Sep 2024)

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	June-2024			July-2024			August-2024		
	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	1	1
5<E≤10	0	28	28	0	42	42	0	24	24
1<E≤5	18	529	547	16	424	440	14	349	363
E≤1	1024	6201	7225	923	6308	7231	964	6084	7048
Total	1042	6758	7800	939	6774	7713	978	6458	7436
Maximum (mSv)	3.80	7.70	7.70	4.20	9.40	9.40	2.69	11.24	11.24
Average (mSv)	0.08	0.31	0.28	0.08	0.29	0.26	0.07	0.22	0.20

(*) 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 2021 (Internal and External)

Effective dose (E) mSv	April 2021 - July 2024			April 2021 - August 2024			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	19	19	0	29	29	0	10	10
20<E≤50	27	1144	1171	27	1154	1181	0	10	10
10<E≤20	60	1770	1830	64	1788	1852	4	18	22
5<E≤10	121	1581	1702	121	1596	1717	0	15	15
1<E≤5	364	2727	3091	367	2760	3127	3	33	36
E≤1	1272	8351	9623	1292	8404	9696	20	53	73
Total	1844	15592	17436	1871	15731	17602	27	139	166
Maximum (mSv)	31.92	57.52	57.52	32.08	58.51	58.51	-	-	-
Average (mSv)	1.86	5.12	4.78	1.87	5.17	4.82	-	-	-

(*) 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 2024

Effective dose (E) mSv	April 2024 - July 2024			April 2024 - August 2024			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	0	44	44	0	78	78	0	34	34
5<E≤10	4	349	353	7	441	448	3	92	95
1<E≤5	73	1244	1317	97	1383	1480	24	139	163
E≤1	1174	6487	7661	1199	6477	7676	25	-10	15
Total	1251	8124	9375	1303	8379	9682	52	255	307
Maximum (mSv)	6.30	14.80	14.80	6.60	15.72	15.72	-	-	-
Average (mSv)	0.24	0.87	0.78	0.28	1.01	0.91	-	-	-

(*) 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.