

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

(Updated on 31 Jul 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	April-2024			May-2024			June-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	0	0
5<E≤10	0	24	24	0	17	17	0	31	31
1<E≤5	11	370	381	8	354	362	20	538	558
E≤1	1003	6031	7034	971	6162	7133	1001	6189	7190
Total	1014	6425	7439	979	6533	7512	1021	6758	7779
Maximum (mSv)	3.00	8.80	8.80	4.20	7.20	7.20	3.75	7.64	7.64
Average (mSv)	0.07	0.25	0.22	0.08	0.22	0.20	0.08	0.30	0.27

(*) 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 - May 2024			April 2021 - June 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	4	4	0	14	14	0	10	10
20<E≤50	26	1063	1089	27	1110	1137	1	47	48
10<E≤20	55	1736	1791	59	1753	1812	4	17	21
5<E≤10	117	1566	1683	117	1557	1674	0	-9	-9
1<E≤5	365	2683	3048	362	2692	3054	-3	9	6
E≤1	1199	8111	9310	1255	8232	9487	56	121	177
Total	1762	15163	16925	1820	15358	17178	58	195	253
Maximum (mSv)	31.52	53.32	53.32	31.72	55.88	55.88	-	-	-
Average (mSv)	1.86	5.00	4.67	1.85	5.07	4.73	-	-	-

(*) 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 - May 2024			April 2024 - June 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	5	5	0	29	29	0	24	24
5<E≤10	0	89	89	2	213	215	2	124	126
1<E≤5	32	652	684	57	960	1017	25	308	333
E≤1	1077	6393	7470	1139	6476	7615	62	83	145
Total	1109	7139	8248	1198	7678	8876	89	539	628
Maximum (mSv)	4.30	12.20	12.20	5.75	13.67	13.67	-	-	-
Average (mSv)	0.13	0.42	0.38	0.19	0.66	0.60	-	-	-

(*) 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.