

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

(Updated on 25 March 2020)

### 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 2019			January 2020			February 2020		
	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	1	1	0	6	6
5<E≤10	0	33	33	0	54	54	0	63	63
1<E≤5	13	604	617	10	558	568	15	768	783
E≤1	967	5212	6179	982	5239	6221	918	5176	6094
Total	980	5854	6834	992	5852	6844	933	6013	6946
Maximum (mSv)	2.54	12.20	12.20	2.07	10.01	10.01	2.96	10.59	10.59
Average (mSv)	0.11	0.40	0.36	0.09	0.39	0.35	0.11	0.48	0.43

(\*) 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 2020			April 2016 - February 2020			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	12	12	0	12	12	0	0	0
50<E≤75	0	189	189	0	208	208	0	19	19
20<E≤50	59	1663	1722	64	1705	1769	5	42	47
10<E≤20	137	2226	2363	133	2279	2412	-4	53	49
5<E≤10	183	2376	2559	187	2378	2565	4	2	6
1<E≤5	585	4523	5108	594	4555	5149	9	32	41
E≤1	1311	9268	10579	1302	9322	10624	-9	54	45
Total	2275	20257	22532	2280	20459	22739	5	202	207
Maximum (mSv)	44.58	79.90	79.90	45.00	79.90	79.90	-	-	-
Average (mSv)	2.87	6.21	5.87	2.91	6.28	5.95	-	-	-

(\*) 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 2019 (Internal and External)

Effective dose (E) mSv	April 2019 - January 2020			April 2019 - February 2020			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	4	575	579	8	756	764	4	181	185
5<E≤10	41	835	876	50	852	902	9	17	26

1<E≤5	275	2144	2419	280	2272	2552	5	128	133
E≤1	1052	5139	6191	1039	5099	6138	-13	-40	-53
Total	1372	8693	10065	1377	8979	10356	5	286	291
Maximum (mSv)	12.72	19.53	19.53	13.06	19.53	19.53	-	-	-
Average (mSv)	0.84	2.31	2.11	0.91	2.55	2.33	-	-	-

(\*) 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.