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

(Updated on 31 July 2017)

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 2017			May 2017			June 2017		
	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	0	0	0	4	4
5<E≤10	0	87	87	0	78	78	0	45	45
1<E≤5	26	892	918	12	713	725	26	852	878
E≤ 1	1,027	7,164	8,191	1,023	7,247	8,270	944	7,270	8,214
Total	1,053	8,148	**9,201**	1,035	8,038	**9,073**	970	8,171	**9,141**
Maximum (mSv)	2.74	11.40	11.40	2.40	8.80	8.80	3.25	10.86	10.86
Average (mSv)	0.17	0.47	0.43	0.13	0.39	0.36	0.15	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 - May 2017			April 2016 - June 2017			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	1	1	0	1	1
20<E≤50	0	354	354	0	421	421	0	67	67
10<E≤20	34	1,266	1,300	40	1,314	1,354	6	48	54
5<E≤10	102	1,487	1,589	107	1,539	1,646	5	52	57
1<E≤5	428	4,467	4,895	446	4,497	4,943	18	30	48
E≤1	1,138	7,192	8,330	1,119	7,350	8,469	-19	158	139
Total	1,702	14,766	**16,468**	1,712	15,122	**16,834**	10	356	**366**
Maximum (mSv)	16.35	47.67	47.67	16.90	50.03	50.03	-	-	-
Average (mSv)	1.43	3.43	3.23	1.51	3.56	3.35	-	-	-

(*) 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 2017 (Internal and External)

Effective dose (E) mSv	April 2017 - May 2017			April 2017 - June 2017			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	43	43	0	122	122	0	79	79
5<E≤10	0	269	269	0	426	426	0	157	157
1<E≤5	81	1,217	1,298	144	1,565	1,709	63	348	411
E≤1	1,067	7,393	8,460	1,065	7,520	8,585	-2	127	125
Total	1,148	8,922	**10,070**	1,209	9,633	**10,842**	61	711	**772**
Maximum (mSv)	3.94	17.10	17.10	4.99	19.54	19.54	-	-	-
Average (mSv)	0.27	0.77	0.72	0.37	1.05	0.97	-	-	-

(*) 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	1,203
Maximum（mSv)	102.69
Average（mSv)	36.49

(*) 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.

(*) Workers engaged in specified high-dose work in each month is the number of workers registered as workers engaged in specified high-dose work in that month.
However, the total of March 2011 to September 2015 includes workers released from specified high-dose work.

(*) 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.