

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

(Updated on 27 February 2015)

1 Number of Workers (Later than 11 March 2011)

	Persons	Increase	Emergency workers(*)	Updated on
Total Workers	41,170	545	19,675	As of 31 January, 2015 (Obtained on 27 February)
TEPCO	4,410	17	3,636	
Contractors	36,760	528	16,039	

(*) As of November 2014; Including workers to whom emergency dose limits apply

2 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	November 2014			December 2014			January 2015		
	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	19	19	0	34	34	0	1	1
5<E<=10	0	269	269	0	283	283	0	49	49
1<E<=5	45	1,644	1,689	60	1,912	1,972	26	1,464	1,490
E<= 1	1,141	8,179	9,320	1,099	8,234	9,333	965	8,146	9,111
Total	1,186	10,111	11,297	1,159	10,463	11,622	991	9,660	10,651
Maximum (mSv)	3.00	15.92	15.92	4.30	16.74	16.74	3.79	12.18	12.18
Average (mSv)	0.21	0.78	0.72	0.24	0.85	0.79	0.19	0.53	0.50

(*) 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 March 2011 (Internal and External)

Effective dose (E) mSv	March 2011-December 2014			March 2011-January 2015			Difference		
	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	Total
250<E	6	0	6	6	0	6	0	0	0
200<E<=250	1	2	3	1	2	3	0	0	0
150<E<=200	26	2	28	26	2	28	0	0	0
100<E<=150	117	20	137	117	20	137	0	0	0
75<E<=100	290	175	465	290	175	465	0	0	0
50<E<=75	328	1,258	1,586	330	1,286	1,616	2	28	30
20<E<=50	617	5,353	5,970	616	5,435	6,051	-1	82	81
10<E<=20	581	4,954	5,535	581	4,984	5,565	0	30	30
5<E<=10	488	4,672	5,160	494	4,718	5,212	6	46	52
1<E<=5	805	8,738	9,543	808	8,870	9,678	3	132	135
E<= 1	1,134	11,058	12,192	1,141	11,268	12,409	7	210	217
Total	4,393	36,232	40,625	4,410	36,760	41,170	17	528	545
Maximum (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Average (mSv)	23.11	10.85	12.18	23.07	10.84	12.15	-	-	-

(*) The number of new comers in January 2015 was 545.

(*) There has been no significant internal exposure reported since October 2011.

(*) 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 2014 (Internal and External)

Effective dose (E) mSv	April 2014-December 2014			April 2014-January 2015			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	5	619	624	5	694	699	0	75	75
10<E<=20	17	1,662	1,679	20	1,783	1,803	3	121	124
5<E<=10	131	2,342	2,473	147	2,463	2,610	16	121	137
1<E<=5	569	5,011	5,580	574	5,125	5,699	5	114	119
E<= 1	902	6,991	7,893	907	7,223	8,130	5	232	237
Total	1,624	16,625	18,249	1,653	17,288	18,941	29	663	692
Maximum (mSv)	24.50	39.85	39.85	25.60	39.85	39.85	-	-	-
Average (mSv)	1.77	4.31	4.08	1.85	4.44	4.22	-	-	-

(*) 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) Combined Cumulative Effective Dose of Workers to Whom Emergency Dose Limits Apply*

Effective dose (E) mSv	Nov. 2014	Dec. 2014	Jan. 2015	March 2011-January 2015
100<E	0	0	0	1
75<E<=100	0	0	0	178
50<E<=75	0	0	0	225
20<E<=50	0	0	0	249
10<E<=20	0	0	0	162
5<E<=10	0	0	0	133
1<E<=5	44	57	24	147
E<= 1	579	570	544	35
Total	623	627	568	1,130
Maximum (mSv)	3.00	4.30	3.79	102.69
Average (mSv)	0.31	0.35	0.24	36.75

(*) Workers under the application of the emergency dose limit (100mSv) shown in Article 7 of the Ordinance on Prevention of Ionizing Radiation Hazards

Specifically, they are workers engaged in work to maintain the function of cooling reactors or spent fuel tanks or to maintain the function to control or prevent the release of a huge amount of radioactive material due to trouble or a breakdown at a reactor facility, in an area where radiation dose rates exceed 0.1 mSv/h, around any reactor facilities, steam turbines and related facilities, and the vicinity thereof in the NPP. Until now, all designated workers have been TEPCO employees.

(*) The monthly number of workers to whom emergency dose limits apply is the number of workers who have filed applications as such. However, the cumulative number for the period between March 2011 and January 2015 includes those whose designation was removed.

(*) 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 January 2015 exceeded 100.