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

(Updated on 30 May 2014)

1 Number of Workers (Later than 11 March 2011)

	Persons	Increase	Emergency workers(*)	Updated on
Total Workers	34,145	881	19,346	As of 30 April, 2014 (Obtained on 30 May)
TEPCO	4,170	32	3,391	
Contractors	29,975	849	15,955	

(*) As of the end of December 2011; Targeted workers are now being identified by closely examining the database.

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)	Jan-14			Feb-14			Mar-14		
mSv	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	30	30	0	23	23	0	8	8
5<E<=10	4	168	172	0	227	227	0	198	198
1<E<=5	56	1,611	1,667	85	1,867	1,952	71	1,598	1,669
E<= 1	1,018	4,611	5,629	1,012	4,940	5,952	896	5,484	6,380
Total	1,078	6,420	7,498	1,097	7,057	8,154	967	7,288	**8,255**
Maximum (mSv)	6.50	17.29	17.29	4.80	18.49	18.49	4.99	13.34	13.34
Average (mSv)	0.34	1.02	0.92	0.36	1.07	0.98	0.33	0.89	0.82

(*) 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

(2) Combined Cumulative Effective Dose from March 2011 (Internal and External)

Effective dose (E)	March 2011-March 2014			March 2011-April 2014			Difference		
mSv	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	25	2	27	25	2	27	0	0	0
100<E<=150	118	20	138	118	20	138	0	0	0
75<E<=100	268	129	397	272	133	405	4	4	8
50<E<=75	318	949	1,267	319	980	1,299	1	31	32
20<E<=50	614	4,457	5,071	611	4,556	5,167	-3	99	96
10<E<=20	551	4,173	4,724	556	4,207	4,763	5	34	39
5<E<=10	444	3,901	4,345	454	3,975	4,429	10	74	84
1<E<=5	727	7,248	7,975	731	7,453	8,184	4	205	209
E<= 1	1,066	8,245	9,311	1,077	8,647	9,724	11	402	413
Total	4,138	29,126	33,264	4,170	29,975	**34,145**	32	849	**881**
Maximum (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Average (mSv)	23.66	11.04	12.61	23.56	10.94	12.49	-	-	-

(*) The number of new comers in April 2014 was 881.

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

(*) Effective doses have been changed due to the re-evaluation of committed doses, etc.

(*) 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

(3) Combined Cumulative Effective Dose from April 2014 (Internal and External)

Effective dose (E) mSv	Apr-14		
	TEPCO	Contractors	Total
100<E	0	0	0
75<E<=100	0	0	0
50<E<=75	0	0	0
20<E<=50	0	0	0
10<E<=20	0	8	8
5<E<=10	0	198	198
1<E<=5	71	1,598	1,669
E<= 1	896	5,484	6,380
Total	967	7,288	8,255
Maximum (mSv)	4.99	13.34	13.34
Average (mSv)	0.33	0.89	0.82

(*) 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

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

Effective dose (E) mSv	Feb-14	Mar-14	Apr-14	March 2011-April 2014
100<E	0	0	0	1
75<E<=100	0	0	0	162
50<E<=75	0	0	0	210
20<E<=50	0	0	0	239
10<E<=20	0	0	0	138
5<E<=10	1	0	0	109
1<E<=5	50	84	65	125
E<= 1	565	534	507	32
Total	616	618	572	1,016
Maximum (mSv)	6.50	4.80	4.55	102.69
Average (mSv)	0.43	0.51	0.41	37.74

(*) 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 April 2014 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

(*) The results of re-evaluating committed doses in March 2011 reveal that maximum cumulative effective doses for the period between March 2011 and April 2014 exceeded 100.