

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

provided by TEPCO
As of 28 February 2014

1 Number of Workers (Later than 11 March 2011)

		Person	Increase	Emergency Workers(*)	Date Update
Total Workers		32,034	651	19,346	31 January 2014
	TEPCO	4,102	16	3,391	
	Contractor	27,932	635	15,955	

*Tentative Number

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 2013			December 2013			January 2014		
	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	32	32	0	22	22	0	29	29
5<E<=10	5	303	308	2	197	199	0	218	218
1<E<=5	120	1,533	1,653	115	1,606	1,721	69	1,446	1,515
E<= 1	954	3,700	4,654	969	3,867	4,836	855	4,120	4,975
Total	1,079	5,568	6,647	1,086	5,692	6,778	924	5,813	6,737
Maximum (mSv)	9.20	16.91	16.91	5.40	16.81	16.81	4.15	15.12	15.12
Average(mSv)	0.48	1.28	1.15	0.44	1.11	1.00	0.32	1.08	0.97

* External exposure was measured by PAD. The exposure dose is subject to change due to the replacement of PAD-measured dose to glass badge-measured dose. The number of workers is also subject to change due to the addition of workers who wore only glass badges.

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

Effective Dose (E) mSv	March 2011-December 2013			March 2011-January 2014			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	24	2	26	24	2	26	0	0	0
100<E<=150	118	20	138	118	20	138	0	0	0
75<E<=100	256	112	368	258	117	375	2	5	7
50<E<=75	323	854	1,177	325	878	1,203	2	24	26
20<E<=50	609	4,204	4,813	610	4,291	4,901	1	87	88
10<E<=20	543	3,887	4,430	544	3,952	4,496	1	65	66
5<E<=10	431	3,683	4,114	432	3,783	4,215	1	100	101
1<E<=5	707	6,829	7,536	722	6,970	7,692	15	141	156
E<= 1	1,068	7,704	8,772	1,062	7,917	8,979	-6	213	207
Total	4,086	27,297	31,383	4,102	27,932	32,034	16	635	651
Maximum (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Average (mSv)	23.63	10.99	12.63	23.61	10.96	12.58	-	-	-

*Number of New comer in January was 651.

*Effective dose has been changed due to the re-evaluation of internal exposure dose in July 2013.

*There has been no significant internal exposure reported since October 2011. A part of internal exposure data is under review, and subject to change.

*External exposure was measured by PAD. The exposure dose is subject to change due to the replacement of PAD-measured dose to glass badge-measured dose. The number of workers is also subject to change due to the addition of workers who wore only glass badges.

(3) Combined Cumulative Effective Dose from April 2013 (Internal and external)

Effective Dose (E) mSv	April 2013-December2013			April 2013-January2014			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	21	386	407	24	465	489	3	79	82
10<E<=20	55	1,386	1,441	64	1,593	1,657	9	207	216
5<E<=10	159	1,589	1,748	169	1,714	1,883	10	125	135
1<E<=5	654	3,278	3,932	667	3,426	4,093	13	148	161
E<= 1	720	4,088	4,808	716	4,316	5,032	-4	228	224
Total	1,609	10,727	12,336	1,640	11,514	13,154	31	787	818
Maximum(mSv)	34.88	39.70	39.70	36.61	39.96	39.96	-	-	-
Average(mSv)	2.69	4.74	4.47	2.82	4.96	4.69	-	-	-

* External exposure was measured by PAD. The exposure dose is subject to change due to the replacement of PAD-measured dose to glass badge-measured dose. The number of workers is also subject to change due to the addition of workers who wore only glass badges.

(4) Combined Cumulative Effective Dose of Emergency Dose Limits Applied Workers*

Effective Dose (E) mSv	November 2013	December 2013	January 2014	March 2011- January 2014
100<E	0	0	0	1
75<E<=100	0	0	0	151
50<E<=75	0	0	0	213
20<E<=50	0	0	0	235
10<E<=20	0	0	0	125
5<E<=10	5	2	0	91
1<E<=5	116	105	62	130
E<= 1	504	521	512	43
Total	625	628	574	989
Maximum (mSv)	9.20	5.40	4.15	102.69
Average (mSv)	0.66	0.60	0.39	37.49

* The workers are under application of Emergency dose limit (100mSv) shown in “Ordinance on Prevention of Ionizing Radiation Hazards, chapter 7.” Specifically, it means the workers who engaged in work to maintain the function of cooling reactors or spent fuel tanks or work to maintain the function to control or prevent the release of a huge amount radioactive material due to trouble or break of the reactor facility, at the area where the radiation dose rate exceed 0.1 mSv/h around reactor facilities, steam turbines and related facilities and surrounding area in the NPP. Until now, all designated workers are TEPCO Employees.

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