

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

provided by TEPCO
As of 26 December 2013

1 Number of Workers (Later than 11 March 2011)

		Person	Increase	Emergency Workers(*)	Date Update
Total Workers		30,904	527	19,346	30 November 2013
	TEPCO	4,065	28	3,391	
	Contractor	26,839	499	15,955	

*Tentative Number

2 Radiation Exposure Dose Distribution

(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	2013 September			2013 October			2013 November		
	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	1	1	0	0	0	0	0	0
10<E<=20	0	61	61	0	47	47	0	27	27
5<E<=10	3	247	250	8	343	351	4	226	230
1<E<=5	102	1,418	1,520	146	1,556	1,702	88	1,506	1,594
E<= 1	933	3,525	4,458	893	3,459	4,352	849	3,737	4,586
Total	1,038	5,252	6,290	1,047	5,405	6,452	941	5,496	6,437
Maximum (mSv)	5.60	20.58	20.58	9.50	19.36	19.36	8.03	14.71	14.71
Average (mSv)	0.43	1.28	1.14	0.55	1.43	1.29	0.42	1.16	1.05

* 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-October 2013			March 2011-November 2013			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	254	103	357	255	106	361	1	3	4
50<E<=75	316	772	1,088	321	824	1,145	5	52	57
20<E<=50	608	4,068	4,676	607	4,124	4,731	-1	56	55
10<E<=20	536	3,730	4,266	537	3,794	4,331	1	64	65
5<E<=10	428	3,588	4,016	432	3,635	4,067	4	47	51
1<E<=5	671	6,633	7,304	689	6,721	7,410	18	88	106
E<= 1	1,075	7,422	8,497	1,075	7,611	8,686	0	189	189
Total	4,037	26,340	30,377	4,065	26,839	30,904	28	499	527
Maximum (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Average (mSv)	23.66	10.88	12.58	23.60	10.91	12.58	-	-	-

*Number of New comer in November was 527.

*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-October 2013			April 2013-November 2013			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	9	219	228	14	306	320	5	87	92
10<E<=20	44	922	966	47	1,132	1,179	3	210	213
5<E<=10	128	1,415	1,543	141	1,502	1,643	13	87	100
1<E<=5	577	3,010	3,587	609	3,125	3,734	32	115	147
E<= 1	771	3,860	4,631	769	4,039	4,808	-2	179	177
Total	1,529	9,426	10,955	1,580	10,104	11,684	51	678	729
Maximum(mSv)	31.38	39.70	39.70	33.63	39.70	39.70	-	-	-
Average(mSv)	2.17	3.97	3.72	2.36	4.34	4.07	-	-	-

* 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	September 2013	October 2013	November 2013	March 2011-November2013
100<E	0	0	0	1
75<E<=100	0	0	0	148
50<E<=75	0	0	0	210
20<E<=50	0	0	0	232
10<E<=20	0	0	0	114
5<E<=10	3	8	4	91
1<E<=5	99	138	84	115
E<= 1	470	441	479	53
Total	572	587	567	964
Maximum (mSv)	5.60	9.50	8.03	102.69
Average (mSv)	0.60	0.79	0.52	37.59

* 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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