

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

provided by TEPCO

As of 30 August 2013

1 Number of Workers (Later than 11 March 2011)

		Person	Increase	Emergency Workers(*)	Date Update
Total Workers		28,970	390	19,346	31 Jul 13
	TEPCO	3,855	43	3,391	
	Contractor	25,115	347	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	13 May			13 Jun			13 Jul		
	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	7	7	0	6	6
5<E<=10	4	92	96	6	88	94	1	75	76
1<E<=5	100	1,141	1,241	87	1,184	1,271	79	1,109	1,188
E<= 1	897	3,920	4,817	932	3,707	4,639	797	3,716	4,513
Total	1,001	5,158	6,159	1,025	4,986	6,011	877	4,906	5,783
Maximum (mSv)	8.60	15.80	15.80	7.40	17.50	17.50	5.20	14.68	14.68
Average (mSv)	0.45	0.85	0.78	0.42	0.87	0.80	0.35	0.81	0.74

* 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-June 2013			March 2011-July 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	241	88	329	241	90	331	0	2	2
50<E<=75	304	641	945	309	669	978	5	28	33
20<E<=50	613	3,798	4,411	610	3,833	4,443	-3	35	32
10<E<=20	517	3,555	4,072	525	3,557	4,082	8	2	10
5<E<=10	425	3,323	3,784	423	3,378	3,801	-2	55	53
1<E<=5	629	6,344	6,973	634	6,414	7,048	5	70	75
E<= 1	934	6,995	7,929	964	7,150	8,114	30	155	185
Total	3,812	24,768	28,580	3,855	25,115	28,970	43	347	390
Maximum (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Average (mSv)	24.56	10.59	12.46	24.36	10.61	12.44	-	-	-

*Number of New comer in July was 390.

*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-June 2013			April 2013-July 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	0	11	11	0	27	27	0	16	16
10<E<=20	4	178	182	14	305	319	10	127	137
5<E<=10	38	547	585	46	748	794	8	201	209
1<E<=5	353	2,362	2,715	415	2,614	3,029	62	252	314
E<= 1	796	3,640	4,436	800	3,753	4,553	4	113	117
Total	1,191	6,738	7,929	1,275	7,447	8,722	84	709	793
Maximum(mSv)	15.50	28.20	28.20	17.95	30.87	30.87	-	-	-
Average(mSv)	1.18	1.99	1.86	1.34	2.33	2.19	-	-	-

* 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	13 May	13 June	13 July	March 2011-Jul 2013
100<E	0	0	0	2
75<E<=100	0	0	0	133
50<E<=75	0	0	0	198
20<E<=50	0	0	0	227
10<E<=20	0	0	0	97
5<E<=10	2	5	1	79
1<E<=5	79	77	75	71
E<= 1	395	387	457	44
Total	476	469	533	850
Maximum (mSv)	8.60	7.40	5.20	102.69
Average (mSv)	0.61	0.63	0.45	39.99

* 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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