

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

(Updated on 31 July 2014)

1 Number of Workers (Later than 11 March 2011)

	Persons	Increase	Emergency workers(*)	Updated on
Total Workers	36,058	866	19,346	As of 30 June, 2014 (Obtained on 31 July)
TEPCO	4,227	22	3,391	
Contractors	31,831	844	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) mSv	April 2014			May 2014			June 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	1	1	0	0	0
10<E<=20	0	19	19	0	47	47	0	18	18
5<E<=10	1	234	235	1	209	210	1	299	300
1<E<=5	94	1,743	1,837	65	1,794	1,859	56	1,664	1,720
E<= 1	999	5,449	6,448	1,053	5,974	7,027	953	6,513	7,466
Total	1,094	7,445	8,539	1,119	8,025	9,144	1,010	8,494	9,504
Maximum (mSv)	5.70	16.00	16.00	5.60	20.70	20.70	6.29	14.99	14.99
Average (mSv)	0.38	0.98	0.91	0.31	0.95	0.87	0.27	0.89	0.83

(*) 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-May 2014			March 2011-June 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	25	2	27	25	2	27	0	0	0
100<E<=150	118	20	138	118	20	138	0	0	0
75<E<=100	275	137	412	277	143	420	2	6	8
50<E<=75	321	1,014	1,335	321	1,051	1,372	0	37	37
20<E<=50	608	4,670	5,278	611	4,741	5,352	3	71	74
10<E<=20	563	4,276	4,839	562	4,335	4,897	-1	59	58
5<E<=10	459	4,042	4,501	467	4,227	4,694	8	185	193
1<E<=5	738	7,750	8,488	739	7,907	8,646	1	157	158
E<= 1	1,091	9,074	10,165	1,100	9,403	10,503	9	329	338
Total	4,205	30,987	35,192	4,227	31,831	36,058	22	844	866
Maximum (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Average (mSv)	23.47	10.86	12.37	23.41	10.81	12.38	-	-	-

(*) The number of new comers in June 2014 was 866.

(*) 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 building)

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

Effective dose (E) mSv	April 2014-May 2014			April 2014-June 2014			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	5	5	0	25	25	0	20	20
10<E<=20	0	186	186	3	401	404	3	215	218
5<E<=10	9	564	573	12	915	927	3	351	354
1<E<=5	219	2,897	3,116	310	3,547	3,857	91	650	741
E<= 1	989	5,442	6,431	960	5,609	6,569	-29	167	138
Total	1,217	9,094	10,311	1,285	10,497	11,782	68	1,403	1,471
Maximum (mSv)	9.30	28.82	28.82	11.92	37.55	37.55	-	-	-
Average (mSv)	0.63	1.65	1.53	0.81	2.15	2.00	-	-	-

- (*) 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	Apr 2014	May 2014	June 2014	March 2011-June 2014
100<E	0	0	0	1
75<E<=100	0	0	0	166
50<E<=75	0	0	0	214
20<E<=50	0	0	0	244
10<E<=20	0	0	0	145
5<E<=10	0	1	1	119
1<E<=5	86	57	52	125
E<= 1	520	560	533	34
Total	606	618	586	1,048
Maximum (mSv)	4.80	5.60	6.29	102.69
Average (mSv)	0.52	0.42	0.35	37.44

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