

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

(Updated on 29 January 2016)

1 Number of Workers (Later than 11 March 2011)

	Persons	Increase	Emergency Workers(*)	Updated on
Total Workers	46,181	287	19,675	As of 31 December 2016 (Obtained on 29 January)
TEPCO	4,679	14	3,636	
Contractors	41,502	273	16,039	

(*) As of November 2014; Including workers to whom emergency dose limits apply

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	October 2015			November 2015			December 2015		
	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	9	9	0	7	7	0	4	4
5<E<=10	0	145	145	0	110	110	0	66	66
1<E<=5	52	1,699	1,751	48	1,447	1,495	43	1,256	1,299
E<= 1	1,130	7,864	8,994	1,119	7,924	9,043	1,014	7,989	9,003
Total	1,182	9,717	10,899	1,167	9,488	10,655	1,057	9,315	10,372
Maximum (mSv)	3.20	14.42	14.42	4.96	13.88	13.88	2.59	13.27	13.27
Average (mSv)	0.22	0.70	0.64	0.22	0.61	0.57	0.18	0.51	0.47

(*) 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- November 2015			March 2011- December 2015			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	26	2	28	26	2	28	0	0	0
100<E<=150	117	20	137	117	20	137	0	0	0
75<E<=100	311	259	570	314	270	584	3	11	14
50<E<=75	330	1,692	2,022	329	1,717	2,046	-1	25	24
20<E<=50	632	6,308	6,940	633	6,350	6,983	1	42	43
10<E<=20	619	5,632	6,251	620	5,665	6,285	1	33	34
5<E<=10	495	5,330	5,825	495	5,360	5,855	0	30	30
1<E<=5	874	9,507	10,381	879	9,551	10,430	5	44	49
E<= 1	1,254	12,477	13,731	1,259	12,565	13,824	5	88	93
Total	4,665	41,229	45,894	4,679	41,502	46,181	14	273	287
Maximum (mSv)	678.80	238.42	678.80	678.80	238.42	678.80	-	-	-
Average (mSv)	22.45	11.53	12.64	22.43	11.57	12.67	-	-	-

(*) Number of new comers in December 2015 was 287.

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

(*) 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 2015 (Internal and External)

Effective dose (E) mSv	April 2015 - November 2015			April 2015 - December 2015			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	1	334	335	2	387	389	1	53	54
10<E<=20	25	1,276	1,301	29	1,433	1,462	4	157	161
5<E<=10	83	1,795	1,878	95	1,944	2,039	12	149	161
1<E<=5	395	5,045	5,440	424	5,079	5,503	29	34	63
E<= 1	1,111	6,548	7,659	1,089	6,548	7,637	-22	0	-22
Total	1,615	14,998	16,613	1,639	15,391	17,030	24	393	417
Maximum(mSv)	20.20	37.68	37.68	21.06	38.61	38.61	-	-	-
Average(mSv)	1.36	3.55	3.34	1.45	3.77	3.54	-	-	-

(*) 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	Oct. 2015	Nov. 2015	Dec. 2015	March 2011- December 2015
100<E	0	0	0	1
75<E<=100	0	0	0	191
50<E<=75	0	0	0	233
20<E<=50	0	0	0	267
10<E<=20	0	0	0	186
5<E<=10	0	0	0	129
1<E<=5	0	0	0	145
E<= 1	0	0	0	51
Total	0	0	0	1,203
Maximum (mSv)	-	-	-	102.69
Average (mSv)	-	-	-	36.50

(*) 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 December 2015 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 December 2015 exceeded 100.