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

(Updated on 30 Sep 2022)

- 1 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)	June-2022			July-2022			August-2022		
mSv	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	Total
100 <e< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e<>	0	0	0	0	0	0	0	0	0
75 <e≤100< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤100<>	0	0	0	0	0	0	0	0	0
50 <e≤75< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤75<>	0	0	0	0	0	0	0	0	0
20 <e≤50< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤50<>	0	0	0	0	0	0	0	0	0
10 <e≤20< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤20<>	0	0	0	0	0	0	0	0	0
5 <e≤10< td=""><td>0</td><td>14</td><td>14</td><td>0</td><td>18</td><td>18</td><td>0</td><td>7</td><td>7</td></e≤10<>	0	14	14	0	18	18	0	7	7
1 <e≤5< td=""><td>29</td><td>612</td><td>641</td><td>15</td><td>495</td><td>510</td><td>11</td><td>359</td><td>370</td></e≤5<>	29	612	641	15	495	510	11	359	370
E≤1	1045	5431	6476	992	5593	6585	1005	5673	6678
Total	1074	6057	7131	1007	6106	7113	1016	6039	7055
Maximum (mSv)	2.27	7.40	7.40	4.37	10.00	10.00	1.49	6.35	6.35
Average (mSv)	0.10	0.36	0.33	0.09	0.32	0.29	0.07	0.22	0.20

^(*) 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 April 2021 (Internal and External)

Effective dose (E)	April 2021 - July 2022			April 2021 - August2022			Difference		
mSv	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	Total
100 <e< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e<>	0	0	0	0	0	0	0	0	0
75 <e≤100< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤100<>	0	0	0	0	0	0	0	0	0
50 <e≤75< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤75<>	0	0	0	0	0	0	0	0	0
20 <e≤50< td=""><td>0</td><td>106</td><td>106</td><td>0</td><td>128</td><td>128</td><td>0</td><td>22</td><td>22</td></e≤50<>	0	106	106	0	128	128	0	22	22
10 <e≤20< td=""><td>28</td><td>1058</td><td>1086</td><td>29</td><td>1085</td><td>1114</td><td>1</td><td>27</td><td>28</td></e≤20<>	28	1058	1086	29	1085	1114	1	27	28
5 <e≤10< td=""><td>72</td><td>1011</td><td>1083</td><td>74</td><td>1045</td><td>1119</td><td>2</td><td>34</td><td>36</td></e≤10<>	72	1011	1083	74	1045	1119	2	34	36
1 <e≤5< td=""><td>250</td><td>2344</td><td>2594</td><td>256</td><td>2386</td><td>2642</td><td>6</td><td>42</td><td>48</td></e≤5<>	250	2344	2594	256	2386	2642	6	42	48
E≤1	1130	5403	6533	1140	5488	6628	10	85	95
Total	1480	9922	11402	1499	10132	11631	19	210	229
Maximum (mSv)	17.14	25.93	25.93	18.01	26.78	26.78	-	-	-
Average (mSv)	1.08	3.16	2.89	1.11	3.23	2.96	-	-	-

^(*) 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 2022

Effective dose (E)	April 2022 - July 2022		April 2022-August 2022			Difference			
mSv	TEPCO	Contractors	Total	TEPCO	Contractors	Total	TEPCO	Contractors	Total
100 <e< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e<>	0	0	0	0	0	0	0	0	0
75 <e≤100< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤100<>	0	0	0	0	0	0	0	0	0
50 <e≤75< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤75<>	0	0	0	0	0	0	0	0	0
20 <e≤50< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></e≤50<>	0	0	0	0	0	0	0	0	0
10 <e≤20< td=""><td>0</td><td>9</td><td>9</td><td>0</td><td>19</td><td>19</td><td>0</td><td>10</td><td>10</td></e≤20<>	0	9	9	0	19	19	0	10	10
5 <e≤10< td=""><td>3</td><td>329</td><td>332</td><td>5</td><td>436</td><td>441</td><td>2</td><td>107</td><td>109</td></e≤10<>	3	329	332	5	436	441	2	107	109
1 <e≤5< td=""><td>129</td><td>1481</td><td>1610</td><td>147</td><td>1697</td><td>1844</td><td>18</td><td>216</td><td>234</td></e≤5<>	129	1481	1610	147	1697	1844	18	216	234
E≤1	1133	5543	6676	1142	5513	6655	9	-30	-21
Total	1265	7362	8627	1294	7665	8959	29	303	332
Maximum (mSv)	7.31	12.21	12.21	7.77	15.38	15.38	-	-	-
Average (mSv)	0.34	0.96	0.87	0.39	1.10	1.00	-	-	-

- (*) Exposure doses and the number of workers are subject to change due to the replacement of accumulated dosesmeasured 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) Distribution of sum of external exposure dose and internal exposure dose of workers engaged in specified high-dose work

(Specified high-dose work has not been performed since October 2015.)

Effective dose (E) mSv	March 2011 - September 2015				
100 <e< td=""><td>1</td></e<>	1				
75 <e≤100< td=""><td>191</td></e≤100<>	191				
50 <e≤75< td=""><td>233</td></e≤75<>	233				
20 <e≤50< td=""><td>267</td></e≤50<>	267				
10 <e≤20< td=""><td>186</td></e≤20<>	186				
5 <e≤10< td=""><td>129</td></e≤10<>	129				
1 <e<u>≤5</e<u>	145				
E≤1	51				
Total	1203				
Maximum (mSv)	102.69				
Average (mSv)	36.49				

(As specified high-dose work has not been performed since October 2015, the table shows the data up to September 2015.)

(*) Workers engaged in work to which dose limit (100 mSv) during emergency work is applied in line with Article7 of the Ordinance on Prevention of Ionizing Radiation Hazards.

Specifically, these workers are those who are engaged in work to maintain the functions of a nuclear reactor facility or spent fuel storage pool, or in work to maintain functions to suppress or prevent the possible release of a large amount of radioactive materials due to a failure of or damage to the nuclear reactor facility at a location around the nuclear reactor facility, steam turbine, or accessory facility where hourly dose may exceed 0.1 mSv.

It should be noted that only TEPCO employees have so far been engaged in specified high-dose work.

(*) The number of workers engaged in specified high-dose work is that of workers who were registered as such at

- least once during the period between March 2011 and September 2015.
- (*) 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 September 2015 exceeded 100.