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

(Updated on 30 June 2020)

- 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)	March 2020				April 2020		May 2020			
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>4</td><td>4</td><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td></e≤20<>	0	4	4	0	1	1	0	0	0	
5 <e≤10< td=""><td>0</td><td>46</td><td>46</td><td>0</td><td>28</td><td>28</td><td>0</td><td>24</td><td>24</td></e≤10<>	0	46	46	0	28	28	0	24	24	
1 <e≤5< td=""><td>17</td><td>765</td><td>782</td><td>18</td><td>591</td><td>609</td><td>9</td><td>556</td><td>565</td></e≤5<>	17	765	782	18	591	609	9	556	565	
E≤1	900	5252	6152	807	4737	5544	773	4763	5536	
Total	917	6067	6984	825	5357	6182	782	5343	6125	
Maximum (mSv)	1.86	14.30	14.30	3.37	10.40	10.40	1.81	8.51	8.51	
Average (mSv)	0.12	0.47	0.42	0.11	0.39	0.35	0.09	0.36	0.33	

(\*) 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 2016 (Internal and External)

Effective dose (E)	April 2016 - April 2020		April 2016 - May 2020			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>18</td><td>18</td><td>0</td><td>20</td><td>20</td><td>0</td><td>2</td><td>2</td></e≤100<>	0	18	18	0	20	20	0	2	2
50 <e≤75< td=""><td>0</td><td>235</td><td>235</td><td>0</td><td>245</td><td>245</td><td>0</td><td>10</td><td>10</td></e≤75<>	0	235	235	0	245	245	0	10	10
20 <e≤50< td=""><td>68</td><td>1772</td><td>1840</td><td>69</td><td>1811</td><td>1880</td><td>1</td><td>39</td><td>40</td></e≤50<>	68	1772	1840	69	1811	1880	1	39	40
10 <e≤20< td=""><td>144</td><td>2317</td><td>2461</td><td>144</td><td>2309</td><td>2453</td><td>0</td><td>-8</td><td>-8</td></e≤20<>	144	2317	2461	144	2309	2453	0	-8	-8
5 <e≤10< td=""><td>186</td><td>2375</td><td>2561</td><td>186</td><td>2375</td><td>2561</td><td>0</td><td>0</td><td>0</td></e≤10<>	186	2375	2561	186	2375	2561	0	0	0
1 <e≤5< td=""><td>592</td><td>4564</td><td>5156</td><td>595</td><td>4597</td><td>5192</td><td>3</td><td>33</td><td>36</td></e≤5<>	592	4564	5156	595	4597	5192	3	33	36
E≤1	1295	9525	10820	1294	9601	10895	-1	76	75
Total	2285	20806	23091	2288	20958	23246	3	152	155
Maximum (mSv)	46.82	80.02	80.02	46.94	81.42	81.42	-	-	-
Average (mSv)	2.99	6.42	6.08	3.02	6.47	6.13	-	-	-

<sup>(\*)</sup> 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 2019 (Internal and External)

Effective dose (E)	April 2020			April	2020 - May	2020	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< th=""><th>0</th><th>1</th><th>1</th><th>0</th><th>5</th><th>5</th><th>0</th><th>4</th><th>4</th></e≤20<>	0	1	1	0	5	5	0	4	4
5 <e≤10< td=""><td>0</td><td>28</td><td>28</td><td>0</td><td>129</td><td>129</td><td>0</td><td>101</td><td>101</td></e≤10<>	0	28	28	0	129	129	0	101	101
1 <e≤5< td=""><td>18</td><td>591</td><td>609</td><td>37</td><td>925</td><td>962</td><td>19</td><td>334</td><td>353</td></e≤5<>	18	591	609	37	925	962	19	334	353
E≤1	807	4737	5544	857	4815	5672	50	78	128
Total	825	5357	6182	894	5874	6768	69	517	586
Maximum (mSv)	3.37	10.40	10.40	3.74	13.20	13.20		-	-
Average (mSv)	0.11	0.39	0.35	0.18	0.68	0.62	-	-	-

- (\*) 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) 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)	March 2011 - September 2015
mSv	_
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≤5< td=""><td>145</td></e≤5<>	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 Article 7 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.