Radiation Dose Statistics for Nuclear Workers in FY 2017

Radiation Dose Registration Center

1. Publication of radiation dose statistics

The Radiation Dose Registration Center (RADREC) of the Radiation Effects Association assigns a unique registration number for each worker engaged in radiation works at nuclear power plants and nuclear facilities, and these radiation doses are centrally managed by the "Radiation Dose Registration System for Nuclear Workers" (hereinafter refered to as "Nuclear Registration System"). Therefore, even if the worker move from one nuclear facility to other facilities to engage in other radiation work, the Nuclear Registration System enables previous radiation doses of each worker at all work sites accurately.

Using the registered data, the RADREC publishes the statistics for fiscal year (FY, April–March) 2017 that represent the management status of radiation doses for the workers engaged in radiation work at the nuclear sites.

Since the contributions of radiation doses due to decommissioning of Fukushima–Daiichi Nuclear Power Plant operated by Tokyo Electric Power Company was significantly large, radiation management status of the other facilities under normal operation are difficult to understand. Therefore, the statistics excluding Fukushima–Daiichi Power Plant are also published.

As the radiation doses for emergency works due to the accident at Fukushima-Daiichi Nuclear Power Plant after the Great East Japan Earthquake which occurred on March 11, 2011 were not registered in fiscal year 2016, the dose statistics of emergency workers for FY 2017 is not published.

2. List of nuclear licensees registered in Nuclear Registration System

The statistical data were based on the radiation doses registered in Nuclear Registration System by the following nuclear licensees. Names of the work sites are shown in parentheses.

- (1) Japan Atomic Energy Agency (Nuclear Science Research Institute, Nuclear Fuel Cycle Engineering Labs, Oarai, Naka*, Kansai*, Takasaki*, Tono, Ningyo-toge, Fugen, Monju, Mutsu)
- (2) Japan Nuclear Fuel Ltd. (Enrichment and Disposal Plants, Reprocessing Plant)
- (3) Hokkaido Electric Power Co., Inc. (Tomari)
- (4) Tohoku Electric Power Co., Inc. (Onagawa, Higashidori)
- (5) Tokyo Electric Power Co.Holdings, Inc. (Fukushima-Daiichi, Fukushima-Daini, Kashiwazaki-Kariwa)
- (6) Chubu Electric Power Co., Inc. (Hamaoka)
- (7) Hokuriku Electric Power Co. (Shika)
- (8) The Kansai Electric Power Co., Inc. (Mihama, Takahama, Ohi)
- (9) The Chugoku Electric Power Co., Inc. (Shimane)

- (10) Shikoku Electric Power Co., Inc. (Ikata)
- (11) Kyushu Electric Power Co., Inc. (Genkai Sendai)
- (12) The Japan Atomic power Company (Tokai, Tokai No2, Tsuruga)
- (13) Nuclear Fuel Industries, Ltd. (Kumatori, Tokai)
- (14) Sumitomo Metal Mining Co., Ltd. (Tokai)
- (15) Global Nuclear Fuel Japan Co., Ltd. (Yokosuka)
- (16) Mitsubishi Nuclear Fuel (Tokai)
- (17) JCO Co.,Ltd. (Tokai)

*Note: The operation of Naka, Kansai, and Takasaki was transferred from JAEA to QST on April 1, 2016.

3. Data compilation method

The statistical data are based on the radiation doses of the workers engaged in radiation work of the nuclear licensees that have registered in the Nuclear Registration System operated by the RADREC.

- (1) These statistical data are based on registered data provided by the nuclear licensees as of June 1, 2017.
- (2) The doses compiled are the effective doses, sum of external and internal exposure.
- (3) "Maximum dose," "collective dose," "average dose," and "%" were rounded to one decimal place. Some discrepancy which total percent values are other than 100% may be caused by this procedure.
- (4) The age of the workers were based on the time of March 31, 2017.
- (5) The "Total number" of radiation workers were compiled based on distinct individuals, so that workers who worked at more than one nuclear site were counted as one.

[Dose Limits for radiation workers]

The statutory dose limits for radiation workers is 100 millisieverts (mSv) over five years and 50 mSv in one year, the dose limit for female workers, excluding those who indicate no pregnancy and those who are pregnant, is 5 mSv per 3 months with the dose limit above. Five-year period refers to the statutory period that started on April 1, 2001 and has been renewed every subsequent five years.

[Definition of terminology]

- (1) Radiation Worker: Worker who is designated by nuclear licensees as a radiation worker based on the "Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors "whose core occupation is in radiation control areas, excluding people who enter radiation control areas occasionally.
- (2) Exposure doses: Exposure doses of workers engaged in nuclear facilities registered in RADREC are compiled as fiscal year data.
- (3) Five-year exposure doses: Exposure doses accumulated in the statutory five-year period to

- control long-term dose limit. The first period started on April 1, 2001, with exposure doses accumulating every subsequent five years.
- (4) Transient dose: Dose statistics within statutory five-year period
- (5) Number of work sites in a year: Number of work sites in a year means the number of nuclear sites where workers were engaged in radiation work during the fiscal year when the statistical data were compiled. The total number of work sites in FY 2017 is 34. Even if the worker was engaged in radiation work at one nuclear site in several times in a year, that counted as one work site.
- (6) Number of work sites in two years: Number of work sites in two years means the number of nuclear sites where workers were engaged in radiation works during the period of statistical data compilation (FY 2016 and 2017).

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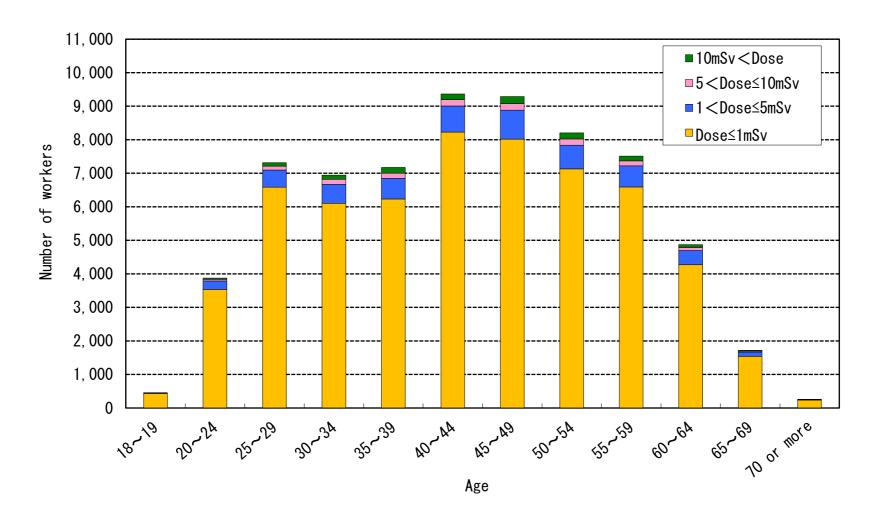
1. Dose Distribution of Workers by Age {FY 2017}

Dose	Number of workers										Total no. of		Dose				
(mSv) Age	Dose≤1	1 <dose ≤2.5</dose 	2.5 <dose ≤5</dose 	5 <dose ≤7.5</dose 	7.5 <dose ≤10</dose 	10 <dose ≤15</dose 	15 <dose ≤20</dose 	20 <dose ≤25</dose 	25 <dose ≤30</dose 	30 <dose ≤40</dose 	40 <dose ≤50</dose 	50< Dose			Collective dose (person·mSv)	Mean (mSv)	Max (mSv)
18~19	433	13	8	2	2	0	0	0	0	0	0	0	458	(0.7)	97. 9	0. 2	9. 5
20~24	3, 536	173	82	30	16	17	21	1	0	0	0	0	3, 876	(5.8)	1, 694. 4	0. 4	24. 4
25~29	6, 589	332	178	83	28	65	37	2	3	1	0	0	7, 318	(10. 9)	4, 012. 2	0. 5	30. 9
30~34	6, 104	354	208	89	64	79	44	4	0	1	0	0	6, 947	(10. 4)	4, 736. 7	0. 7	32. 7
35~39	6, 233	420	197	97	56	83	79	9	0	0	0	0	7, 174	(10. 7)	5, 531. 3	0.8	24. 4
40~44	8, 231	504	272	109	77	89	68	8	6	3	0	0	9, 367	(14. 0)	6, 428. 7	0. 7	31. 6
45~49	8, 019	543	323	117	73	114	81	9	9	0	0	0	9, 288	(13. 8)	7, 218. 4	0.8	28. 4
50~54	7, 132	472	232	111	76	92	80	3	5	1	0	0	8, 204	(12. 2)	6, 270. 3	0.8	30. 1
55~59	6, 592	425	204	83	67	86	51	3	3	1	0	0	7, 515	(11. 2)	5, 019. 5	0. 7	30. 1
60~64	4, 270	278	150	53	34	54	31	3	0	0	0	0	4, 873	(7. 3)	3, 174. 6	0. 7	24. 9
65~69	1, 542	84	43	18	9	20	8	0	0	0	0	0	1, 724	(2. 6)	979. 1	0. 6	17. 9
70 or more	239	8	6	4	1	1	1	0	0	0	0	0	260	(0.4)	109. 8	0. 4	17. 9
Total no. of wokers	58, 920	3, 606	1, 903	796	503	700	501	42	26	7	0	0	67, 004	(100. 0)		_	
(%)	(87. 9)	(5. 4)	(2. 8)	(1. 2)	(0.8)	(1.0)	(0.7)	(0.1)	(0.0)	(0.0)	(0.0)	(0.0)					
Collective Dose (person•mSv)	4, 215. 0	5, 918. 0	6, 710. 1	4, 911. 1	4, 392. 7	8, 745. 9	8, 511. 2	944. 5	708. 3	216. 2	0.0	0.0	_	-	45, 273. 0	0. 7	32. 7

[•] How to read the numbers in table above: The number "332" in the box for the age row of "25~29" and the dose column of "1<Dose≤2.5" means that there were 332 workers between age 25 and 29 inclusive whose radiation doses were in the range of greater than 1 and less than or equal to 2.5 millisieverts in FY 2017.

[·] The workers' ages are calculated as of March 31, 2018.

2. Dose Distribution of Workers by Age {FY 2017}



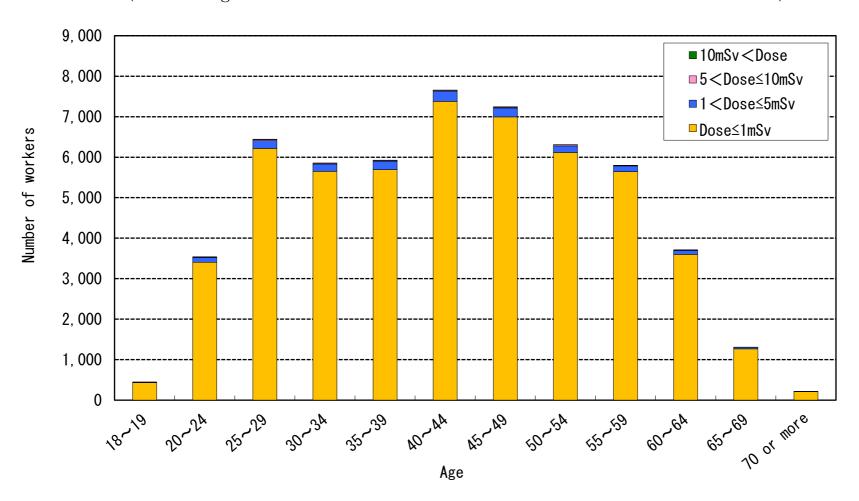
^{*} This figure is based on the data in the Table 1 "Dose Distributin of Workers by Age {FY 2017}.

3. Dose Distribution of Workers by Age {FY 2017} (Excluding the Data for Fukushim-Daiichi Nuclear Power Plant)

Dose	Number of workers									Total no. of	of wokers	Dose					
(mSv)	Dose≤1	1 <dose< td=""><td>2.5<dose< td=""><td>5<dose< td=""><td>7.5<dose< td=""><td>10<dose< td=""><td>15<dose< td=""><td>20<dose< td=""><td>25<dose< td=""><td>30<dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<>	2.5 <dose< td=""><td>5<dose< td=""><td>7.5<dose< td=""><td>10<dose< td=""><td>15<dose< td=""><td>20<dose< td=""><td>25<dose< td=""><td>30<dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<>	5 <dose< td=""><td>7.5<dose< td=""><td>10<dose< td=""><td>15<dose< td=""><td>20<dose< td=""><td>25<dose< td=""><td>30<dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<>	7.5 <dose< td=""><td>10<dose< td=""><td>15<dose< td=""><td>20<dose< td=""><td>25<dose< td=""><td>30<dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<>	10 <dose< td=""><td>15<dose< td=""><td>20<dose< td=""><td>25<dose< td=""><td>30<dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<>	15 <dose< td=""><td>20<dose< td=""><td>25<dose< td=""><td>30<dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<></td></dose<></td></dose<></td></dose<>	20 <dose< td=""><td>25<dose< td=""><td>30<dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<></td></dose<></td></dose<>	25 <dose< td=""><td>30<dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<></td></dose<>	30 <dose< td=""><td>40<dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<></td></dose<>	40 <dose< td=""><td>50<dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<></td></dose<>	50 <dose< td=""><td>Total IIO.</td><td>OI WOREIS</td><td>Collective Dose</td><td>Mean</td><td>Max</td></dose<>	Total IIO.	OI WOREIS	Collective Dose	Mean	Max
Age	D02671	≤2.5	≤5	≤7.5	≤10	≤15	≤20	≤25	≤30	≤40	≤50			(%)	(person • mSv)	(mSv)	(mSv)
18~19	434	6	4	1	1	0	0	0	0	0	0	0	446	(0.8)	59. 1	0. 1	9. 5
20~24	3, 405	86	34	8	4	2	0	0	0	0	0	0	3, 539	(6.5)	526. 8	0. 1	11.8
25~29	6, 217	137	55	19	8	7	1	0	0	0	0	0	6, 444	(11.8)	1, 053. 9	0. 2	15. 2
30~34	5, 651	136	45	17	2	6	0	0	0	0	0	0	5, 857	(10. 8)	851. 5	0. 1	14. 6
35~39	5, 694	155	52	12	7	4	2	0	0	0	0	0	5, 926	(10. 9)	967. 1	0. 2	16. 5
40~44	7, 378	188	63	15	7	7	0	0	0	0	0	0	7, 658	(14. 1)	1, 142. 3	0. 1	14. 6
45~49	6, 993	173	51	13	5	6	0	1	0	0	0	0	7, 242	(13. 3)	985. 5	0. 1	21.0
50 ~ 54	6, 115	130	35	16	9	5	0	0	0	0	0	0	6, 310	(11.6)	852. 5	0. 1	14. 8
55 ~ 59	5, 642	99	44	9	4	3	0	0	0	0	0	0	5, 801	(10. 7)	658. 2	0. 1	12. 9
60~64	3, 599	70	30	4	6	3	0	0	0	0	0	0	3, 712	(6.8)	477. 8	0. 1	13.8
65~69	1, 268	28	8	3	2	0	0	0	0	0	0	0	1, 309	(2. 4)	164. 7	0. 1	9. 9
70 or more	209	1	0	1	1	0	0	0	0	0	0	0	212	(0.4)	22. 0	0. 1	7. 8
Total no. of wokers	52, 605	1, 209	421	118	56	43	3	1	0	0	0	0	54, 456	(100. 0)	_	_	_
(%)	(96. 6)	(2. 2)	(0.8)	(0. 2)	(0.1)	(0.1)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)					
Collective Dose (person • mSv)	2, 595. 1	1, 910. 7	1, 427. 2	724. 5	486. 4	548. 9	47. 5	21.0	0.0	0.0	0. 0	0.0	-	_	7, 761. 3	0. 1	21. 0

- This table was compiled by excluding the data for Fukushima-Daiichi Nuclear Power Plant. The exposure dose data of workers at Fukushima Daiichi Nuclear Power Plant are shown in website of Tokyo Electric Power Company Holdings, Inc.
- How to read the numbers in table above: The number "137" in the box for the age row of "25~29" and the dose column of "1<Dose≤2.5" means that there were 137 workers between age 25 and 29 inclusive whose radiation doses were in the range of greater than 1 and less than or equal to 2.5 millisieverts in Fiscal 2017.
- The workers' ages are calculated as of March 31, 2018.

4. Dose Distribution of Workers by Age {FY 2017} (Excluding the Data for Fukushima-Daiichi Nuclear Power Plant)



^{*} This figure is based on the data in the Table 3 "Dose Distribution of Workers by Age{FY 2017} (Excluding the data for Fukushima-Daiichi Nuclear Power Plant)."

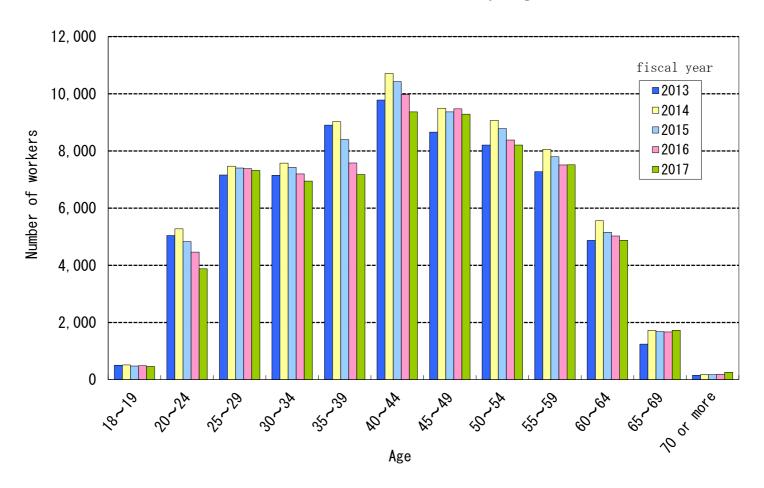
5. Dose Distribution of Workers by Gender (FY 2017)

Gender	Male	Female	Total no. of wokers	Collective dose
Dose (mSv)	(%)	(%)	(%)	(person·mSv) (%)
D (1	58, 105	815	58, 920	
Dose ≤1	(87. 8)	(99. 6)	(87. 9)	(9. 3)
1< dose ≤2.5	3, 603	3	3, 606	5, 918. 0
1 \ 4000 -2.0	(5.4)	(0.4)	(5. 4)	(13. 1)
2.5< Dose ≤5	1, 903	0	1, 903	
	(2. 9)	(0.0)	(2.8)	(14. 8)
5< Dose ≤7.5	796 (1. 2)	(0.0)	796 (1. 2)	4, 911. 1 (10. 8)
	503	(0. 0)	503	4, 392. 7
7.5< Dose ≤10	(0.8)	(0.0)	(0.8)	(9. 7)
10< Dose ≤15	700	0	700	8, 745. 9
10\ Dose \sigma15	(1. 1)	(0.0)	(1.0)	(19. 3)
15< Dose ≤20	501	0	501	8, 511. 2
10 \ 2000 =20	(0.8)	(0.0)	(0. 7)	(18. 8)
20< dose ≤25	42 (0.1)	(0, 0)	42 (0.1)	944. 5
	(0. 1) 26	(0.0)	(0. 1)	(2. 1) 708. 3
25< Dose ≤30	(0.0)	(0.0)	(0.0)	(1. 6)
20/ Dogg /40	7	0	7	216. 2
30< Dose ≤40	(0.0)	(0.0)	(0.0)	(0.5)
40< Dose ≤50	0	0	0	0. 0
10 \ 2000 =00	(0.0)	(0.0)	(0.0)	(0.0)
50< Dose	(0, 0)	(0, 0)		0.0
Total no of walcons	(0.0)	(0.0)		(0.0)
Total no. of wokers	66, 186	818		·
(%)	(100. 0)	(100. 0)	(100. 0)	(100. 0)
Total no. of wokers	66, 186	818		
Ratio of man and famel(%)	(98. 8)	(1. 2)		
Mean dose (mSv)	0. 7	0. 0	0. 7	
Collective dose (person • mSv)	45, 259. 8	13. 2	45, 273. 0	
Max dose (mSv)	32. 7	1. 5	32. 7	

[Notes]

• How to read the numbers in table above: The number "3,603" in the box of the dose row "1 < Dose \leq 2.5 mSv" and the "Male" column means that there were 3,603 man workers whose radiation doses were in the range of greater than 1 and less than or equal to 2.5 millisieverts in FY 2017.

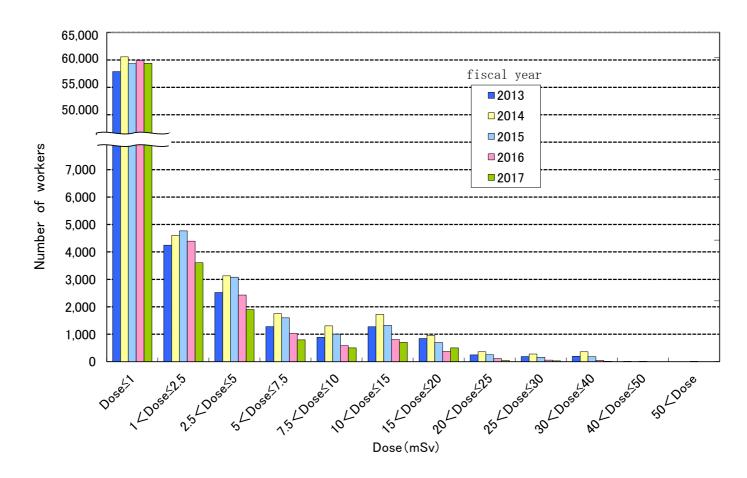
6. Annual Trends of Number of Workers by Age (FY 2013-2017)



* This figure is based on the data in the Table 5 "Dose Distribution of Workers by Gender (FY 2017) and those of the latest four years (FY 2013-2016).

^{*} Dose data of the emergency workers at Fukushima-Daiichi Nuclear Power Plant are not included.

7. Annual Trends of Number of Workers by Dose Range (FY 2013-2017)



- * This figure is based on the data in the Table 5 "Dose Distribution of Workers by Gender (FY 2017) and those of the latest four years (FY 2013-2016).
- * Dose data of the emergency workers at Fukushima-Daiichi Nuclear Power Plant are not included.

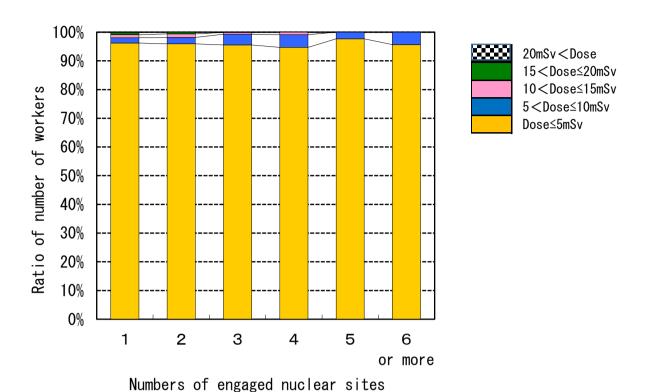
8. Dose Distribution of Workers by Number of Work Sites $\{ FY\ 2017 \}$

No. of Work sites	1	2	3	4	5	6 or more	Total n woke	
Dose ≤ 5	57, 284	5, 927	940	214	42	22	64, 429	(96. 2)
5< Dose ≤10	1, 111	139	37	10	1	1	1, 299	(1.9)
10< Dose ≤15	616	76	6	2	0	0	700	(1.0)
15< dose ≤20	463	37	1	0	0	0	501	(0.8)
20 <dose td="" ≤25<=""><td>42</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>42</td><td>(0.1)</td></dose>	42	0	0	0	0	0	42	(0.1)
25< Dose ≤30	26	0	0	0	0	0	26	(0.0)
30< Dose ≤40	7	0	0	0	0	0	7	(0.0)
40< Dose ≤50	0	0	0	0	0	0	0	(0.0)
50< Dose	0	0	0	0	0	0	0	(0.0)
Total no. of wokers	59, 549	6, 179	984	226	43	23	67, 0	04
(%)	(88. 9)	(9. 2)	(1.5)	(0.3)	(0.1)	(0.0)	(100.	0)
Mean dose (mSv)	0. 7	0.8	0.8	0.8	0. 7	0. 2	0. 7	

[Notes]

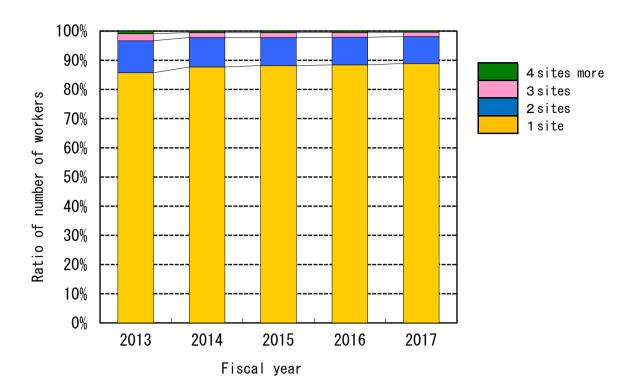
• How to read the numbers in table above: The number "42" in the box for the dose row of "Dose≤5" and the number of work sites of "5" column means that there were 42 workers who were engaged in five work sites and whoes radiation doses were less than 5 millisievert in FY 2017.

9. Ratio of Number of Workers by Number of Work Sites (FY 2017)



^{*} This figure is based on the data in the Table 8 "Dose Distribution of Workers by Number of Work Sites{FY 2017}".

10. Annual Trends of Ratio of Workers by Number of Work Sites {FY 2013-2017}



- * This figure is based on the data in the Table 8 "Dose Distribution of Workers by Number of Work Sites [FY 2017] and those of the latest four years.
- * Dose data of the emergency workers at Fukushima-Daiichi Nuclear Power Plant are not included.

11. Dose Distribution of Workers by Number of Work Sites {FY 2017}

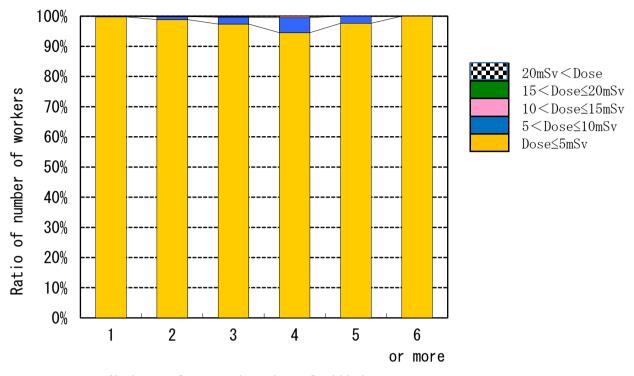
(Excluding the Data for Fukushima-Daiichi Nuclear Power Plant)

No. of Work sites Dose (mSv)	1	2	3	4	5	6 or more	Total n woke	
Dose ≤ 5	48, 058	5, 074	853	190	41	19	54, 235	
5< Dose ≤10	93	50	20	10	1	0	174	(0.3)
10 < Dose ≤15	31	9	2	1	0	0	43	(0. 1)
15< Dose ≤20	1	1	1	0	0	0	3	(0.0)
20< Dose ≤25	1	0	0	0	0	0	1	(0.0)
25< Dose ≤30	0	0	0	0	0	0	0	(0.0)
30< Dose ≤40	0	0	0	0	0	0	0	(0.0)
40< Dose ≤50	0	0	0	0	0	0	0	(0.0)
50 < Dose	0	0	0	0	0	0	0	(0.0)
Total no. of wokers	48, 184	5, 134	876	201	42	19	54, 4	ļ56
(%)	(88. 5)	(9. 4)	(1.6)	(0.4)	(0. 1)	(0.0)	(100	. 0)
Means dose (mSv)	0. 1	0. 3	0. 6	0.8	0. 7	0.0	0. 1	

- This table was compiled by excluding the data for Fukushima-Daiichi Nuclear Power Plant. The dose data of workers at Fukushima-Daiichi Nuclear Power Plant are shown in HP of Tokyo Electric Power Company Holdings, Inc.
- How to read the numbers in table above: The number "41" in the box for the dose row of "Dose≤5" and the number of work sites of "5" column means that there were 41 workers who were engaged in five nuclear sites and whoes radiation doses were less than 5 millisievert in FY 2017.

12. Dose Distribution of Workers by Number of Work Sites {FY 2017}

(Excluding the Data for Fukushima-Daiichi Nuclear Power Plant)



Numbers of engaged nuclear facilities

^{*} This figure is based on the data in the Table 11 "Dose Distribution of Workers by Number of Work Sites {FY 2017}".

13. Transient Dose Distribution of Workers by Number of Work Sites in Latest two Years {FY 2016-2017}

No. of work sites in two years	1	2	3	4	5	6	7	8	Total n worke	
Dose (mSv)								or more		(%)
Dose ≤ 5	64, 057	9, 217	2, 159	609	196	86	19	16	76, 359	(93. 3)
5< Dose ≤ 10	1, 966	383	94	46	19	3	2	0	2, 513	(3. 1)
10< Dose ≤ 15	964	184	45	10	1	2	0	0	1, 206	(1.5)
15< Dose ≤ 20	643	92	24	1	1	1	0	0	762	(0.9)
20< Dose ≤ 25	350	50	5	1	4	0	0	0	410	(0.5)
25< Dose ≤ 30	216	33	3	2	0	0	0	0	254	(0.3)
30< Dose ≤ 40	202	11	2	0	0	0	0	0	215	(0.3)
40< Dose ≤ 50	61	0	0	0	0	0	0	0	61	(0.1)
50< Dose ≤ 60	15	0	0	0	0	0	0	0	15	(0.0)
60< Dose ≤ 70	8	0	0	0	0	0	0	0	8	(0.0)
70< Dose ≤ 80	0	0	0	0	0	0	0	0	0	(0.0)
80< Dose ≤ 90	0	0	0	0	0	0	0	0	0	(0.0)
90< Dose ≤ 100	0	0	0	0	0	0	0	0	0	(0.0)
100< Dose	0	0	0	0	0	0	0	0	0	(0.0)
Total no. of workers	68, 482	9, 970	2, 332	669	221	92	21	16	81, 8	03
(%)	(83. 7)	(12. 2)	(2. 9)	(0.8)	(0.3)	(0.1)	(0.0)	(0.0)	(100.	0)
Mean dose (mSv)	1. 2	1. 3	1. 4	1. 4	1. 9	1. 2	0.8	0. 2	1. 2	

- The statutory dose limits for radiation workers are 100 mSv per five years and 50 mSv per year. Five-year period started from April, 2016, so that FY 2016 and 2017 data are given above.
- How to read the numbers in table above: The number "46" in the box for the dose row of "5< Dose ≤ 10 " and in column of the no. of work sites in two years "4" means that there were 46 workers who engaged in radiation works at four work sites in two years and whose radiation doses were greater than 5 and less than or equal to 10 millisieverts from FY 2016 to 2017.