## (5) Status of Radioactive Waste Management at Commercial Power Reactor Facilities in FY 1981

1. Gas-Cooled Reactor (GCR) and Boiling Water Reactor (BWR)

Tokai Power Station			Radioactive gaseous waste and liquid waste			Radioactive solid waste				
Noble gas			Radioactive gaseous waste				Amount of		Amount of	
Noble gas					•	-	C	•		
Noble gas   Indine   133   1						drums			,	
Columbus			NT 11	T 1'	<sup>3</sup> H)		kinds)	kinds)	kinds)	
Total of nuclear reactor facilities   1.0×10 <sup>4</sup>   6.8×10 <sup>-5</sup>   4.4×10 <sup>-3</sup>   897   104   810			Noble gas	Iodine						
Total of nuclear reactor facilities   1.0×10 <sup>4</sup>   6.8×10 <sup>-5</sup>   4.4×10 <sup>-3</sup>   897   104   810				[ <sup>131</sup> I ]			(equivalent to		(equivalent to	
Total of nuclear reactor facilities   1.0×10 <sup>4</sup>   6.8×10 <sup>5</sup>   4.4×10 <sup>3</sup>   897   104   810			(C:)	(C:)	(C:)		` .			
Total of nuclear reactor facilities   1.0×10 <sup>4</sup>   6.8×10 <sup>5</sup>   4.4×10 <sup>3</sup>   897   104   810	The Name of Power station		(C1)	(C1)	(C1)	*				
Annual release Target control level   1.6×10 <sup>4</sup>   -   1						drums)	di dillis)	drums)	drums)	
Annual release Target control level   1.6×10 <sup>4</sup>   -   1		Total of musican magatan facilities	1.0104	6 9 . 10-5	4.410-3	907	104	910		
Annual release Target control level   1.6×10 <sup>4</sup>   -   1	Japan Atomic Power Company Co., Ltd Tokai Power Station	Total of nuclear reactor facilities	1.0×10	6.8×10	4.4×10	897	104	810	-	
Total of nuclear reactor facilities   2.1×10°   9.8×10⁴   6.8×10³   2.732   156 °1   15.448 °2   404										
Japan Atomic Power Company Co., Ltd. Tokai Daini Power Station  Annual release Target control level 5.0×10 <sup>4</sup> 2.2 1  Japan Atomic Power Company Co., Ltd. Total of nuclear reactor facilities 3.7×10 <sup>0</sup> 2.7×10 <sup>4</sup> 3.7×10 <sup>3</sup> 5.688 784 6  Zi,075 3.056  Annual release Target control level 4.5×10 <sup>4</sup> 2.2 1  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.8×10 <sup>2</sup> 3.6×10 <sup>2</sup> 31,962 0 137,259 150  Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station  Tokyo Electric Power Co., Inc. Fukushima Daini Nuclear Power Station  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.0×10 <sup>4</sup> 2.1 1  Total of nuclear reactor facilities 83  N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.		Annual release Target control level	1.6×10 <sup>-4</sup>	-	1					
Japan Atomic Power Company Co., Ltd. Tokai Daini Power Station  Annual release Target control level 5.0×10 <sup>4</sup> 2.2 1  Japan Atomic Power Company Co., Ltd. Total of nuclear reactor facilities 3.7×10 <sup>0</sup> 2.7×10 <sup>4</sup> 3.7×10 <sup>3</sup> 5.688 784 6  Zi,075 3.056  Annual release Target control level 4.5×10 <sup>4</sup> 2.2 1  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.8×10 <sup>2</sup> 3.6×10 <sup>2</sup> 31,962 0 137,259 150  Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station  Tokyo Electric Power Co., Inc. Fukushima Daini Nuclear Power Station  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.0×10 <sup>4</sup> 2.1 1  Total of nuclear reactor facilities 83  N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.	Japan Atomic Power Company Co., Ltd. Tokai Daini Power Station		0	4	2			*1	*2	
Annual release Target control level   5.0×10 <sup>4</sup>   2.2   1   1   1   1   1   1   1   1   1		Total of nuclear reactor facilities	$2.1 \times 10^{0}$	9.8×10 <sup>-4</sup>	6.8×10 <sup>-3</sup>	2,732	156	15 448		
Annual release Target control level   5.0×10°   2.2   1								13,440	101	
Total of nuclear reactor facilities 3.7×10 <sup>3</sup> 2.7×10 <sup>3</sup> 3.7×10 <sup>3</sup> 5.688 784 2.5,075 3,056  Annual release Target control level 4.5×10 <sup>4</sup> 2.2 1  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.8×10 <sup>2</sup> 3.6×10 <sup>2</sup> 31,962 0 137,259 150  Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.8×10 <sup>2</sup> 3.6×10 <sup>2</sup> 31,962 0 137,259 150  Annual release Target control level 3.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities 83 N.D. 84 N.D. 85 N.D. 348 0 348 0  Annual release Target control level 5.0×10 <sup>4</sup> 2.1 1  Chubu Electric Power Co., Inc. Hamaoka Nuclear Power Station  Total of nuclear reactor facilities 83 N.D. 1.8×10 <sup>4</sup> 1.4×10 <sup>2</sup> 3,849 0 7 32,754 1,100  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities 83 N.D. 84 N.D. 5.9×10 <sup>4</sup> 2,003 107 16,414 88 612		Annual release Target control level	$5.0 \times 10^4$	2.2	1					
Total of nuclear reactor facilities 3.7×10 <sup>3</sup> 2.7×10 <sup>3</sup> 3.7×10 <sup>3</sup> 5.688 784 2.5,075 3,056  Annual release Target control level 4.5×10 <sup>4</sup> 2.2 1  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.8×10 <sup>2</sup> 3.6×10 <sup>2</sup> 31,962 0 137,259 150  Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.8×10 <sup>2</sup> 3.6×10 <sup>2</sup> 31,962 0 137,259 150  Annual release Target control level 3.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities 83 N.D. 84 N.D. 85 N.D. 348 0 348 0  Annual release Target control level 5.0×10 <sup>4</sup> 2.1 1  Chubu Electric Power Co., Inc. Hamaoka Nuclear Power Station  Total of nuclear reactor facilities 83 N.D. 1.8×10 <sup>4</sup> 1.4×10 <sup>2</sup> 3,849 0 7 32,754 1,100  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities 83 N.D. 84 N.D. 5.9×10 <sup>4</sup> 2,003 107 16,414 88 612								1.1		
Annual release Target control level 4.5×10 <sup>4</sup> 2.2 1  Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station  Total of nuclear reactor facilities 1.2×10 <sup>3</sup> 5.8×10 <sup>-2</sup> 3.6×10 <sup>-2</sup> 31,962 0 137,259 150  Annual release Target control level 3.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities *3 N.D. N.D. N.D. 348 0 348 0  Annual release Target control level 5.0×10 <sup>4</sup> 2.1 1  Total of nuclear reactor facilities *3 N.D. 1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 *7 32,754 1,100  Chubu Electric Power Co., Inc. Hamaoka Nuclear Power Station  Total of nuclear reactor facilities *3 N.D. 1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 *7 32,754 1,100  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities *3 N.D. 1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 *7 32,754 1,100  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities *3 N.D. 1.0×10 <sup>-5</sup> 7.8 2  Total of nuclear reactor facilities *3 N.D. 5.9×10 <sup>-4</sup> 2.003 107 16,414 *8 612	Japan Atomic Power Company Co., Ltd. Tsuruga Power Station	Total of nuclear reactor facilities	$3.7 \times 10^{0}$	$2.7 \times 10^{-4}$	3.7×10 <sup>-3</sup>	5,688	784	Ü	3,056	
Annual release Target control level 4.5×10° 2.2 1  Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station  Annual release Target control level 3.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities 3.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities 8.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities 8.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities 8.1×10 <sup>5</sup> N.D.  Annual release Target control level 5.0×10 <sup>4</sup> 2.1 1  Chubu Electric Power Co., Inc.  Hamaoka Nuclear Power Station  Total of nuclear reactor facilities 8.3 N.D.  N.D.  Total of nuclear reactor facilities 8.3 N.D.  Total of nuclear reactor facilities 8.3 N.D.  N.D.  Shimana Nuclear Power Station  Total of nuclear reactor facilities 8.3 N.D.  N.D.  N.D.  Shimana Nuclear Power Station  Total of nuclear reactor facilities 8.3 N.D.  N.D.  Total of nuclear reactor facilities 8.3 N.D.  N.D.  Shimana Nuclear Power Station								25,075		
Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station  Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station  Tokyo Electric Power Co., Inc. Fukushima Daini Nuclear Power Station  Total of nuclear reactor facilities  *3		Annual release Target control level	4.5×10 <sup>4</sup>	2.2	1					
Tokyo Electric Power Co., Inc.  Fukushima Daiichi Nuclear Power Station  Annual release Target control level 3.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D		Tanada Terede Tanger Control to ver	4.5×10		-					
Tokyo Electric Power Co., Inc.  Fukushima Daiichi Nuclear Power Station  Annual release Target control level 3.1×10 <sup>5</sup> 17 6  Total of nuclear reactor facilities N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	Tokyo Electric Power Co., Inc. Fukushima Daiichi Nuclear Power Station	Total of nuclear reactor facilities	1.2×10 <sup>3</sup>	5.8×10 <sup>-2</sup>	2.6×10 <sup>-2</sup>	31 962	0	137 250	150	
Annual release Target control level 3.1×10 <sup>3</sup> 17 6  Tokyo Electric Power Co., Inc. Fukushima Daini Nuclear Power Station  Annual release Target control level 5.0×10 <sup>4</sup> 2.1 1  Chubu Electric Power Co., Inc. Hamaoka Nuclear Power Station  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities 83 N.D. 1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 87, 32,754 1,100  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities 83 N.D. 1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 87, 32,754 1,100  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities 83 N.D. 84 N.D. 5.9×10 <sup>-4</sup> 2,003 107 16,414 88  Chugoku Electric Power Station		Total of nuclear reactor facilities	1.2×10	J.6×10	3.0×10	31,702	O	137,237	130	
Tokyo Electric Power Co., Inc. Fukushima Daini Nuclear Power Station  Annual release Target control level 5.0×10 <sup>4</sup> 2.1 1  Chubu Electric Power Co., Inc. Hamaoka Nuclear Power Station  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities *3 N.D. 1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 *7 32,754 1,100  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Total of nuclear reactor facilities *3 N.D. 1.0×10 <sup>-4</sup> 2.003 107 16,414 *8  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities *3 N.D. N.D. 5.9×10 <sup>-4</sup> 2,003 107 16,414 *8  Chugoku Electric Power Station		Annual release Tracet control level	2.1.105	17						
Tokyo Electric Power Co., Inc.  Fukushima Daini Nuclear Power Station  Annual release Target control level 5.0×10 <sup>4</sup> 2.1 1  Chubu Electric Power Co., Inc.  Hamaoka Nuclear Power Station  Total of nuclear reactor facilities N.D.  N.D.  N.D.  N.D.  N.D.  N.D.  1.8×10 <sup>-4</sup> 2.1 1   Total of nuclear reactor facilities N.D.  N.D.  1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 7  32,754 1,100  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities N.D.  Total of nuclear reactor facilities N.D.  Total of nuclear reactor facilities N.D.  N.D.  N.D.  1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 7  32,754 1,100  Total of nuclear reactor facilities N.D.  N.D.  N.D.  Total of nuclear reactor facilities N.D.		Annual release Target control level	3.1×10°	17	О					
Tokyo Electric Power Co., Inc.  Fukushima Daini Nuclear Power Station  Annual release Target control level 5.0×10 <sup>4</sup> 2.1 1  Total of nuclear reactor facilities 83 N.D. 1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 *7 32,754 1,100  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities 83 N.D. 1.8×10 <sup>-4</sup> 1.4×10 <sup>-2</sup> 3,849 0 *7 32,754 1,100  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities 83 N.D. N.D. 5.9×10 <sup>-4</sup> 2,003 107 16,414 *8 612	Tokyo Electric Power Co., Inc. Fukushima Daini Nuclear Power Station		*3	*4	*5					
Fukushima Daini Nuclear Power Station  Annual release Target control level $5.0 \times 10^4$ 2.1 1  Chubu Electric Power Co., Inc.  Hamaoka Nuclear Power Station  Total of nuclear reactor facilities N.D.  Annual release Target control level $1.0 \times 10^5$ 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities $\frac{*3}{N}$ N.D.  Shimane Nuclear Power Station		Total of nuclear reactor facilities	N.D.	N.D.	N.D.	348	0	348	0	
Annual release Target control level $5.0 \times 10^4$ 2.1 1  Chubu Electric Power Co., Inc.  Hamaoka Nuclear Power Station  Total of nuclear reactor facilities $\frac{*3}{N.D.}$ $1.8 \times 10^{-4}$ $1.4 \times 10^{-2}$ $3,849$ $0$ $\frac{*7}{32,754}$ $1,100$ Annual release Target control level $1.0 \times 10^5$ $7.8$ 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities $\frac{*3}{N.D.}$ $\frac{*4}{N.D.}$					- 1.11					
Chubu Electric Power Co., Inc.  Hamaoka Nuclear Power Station  Total of nuclear reactor facilities  N.D. $1.8 \times 10^{-4}$ $1.4 \times 10^{-2}$ $3,849$ O $32,754$ Annual release Target control level $1.0 \times 10^{5}$ $7.8$ Chugoku Electric Power Co., Inc.  Shimane Nuclear Power Station  Total of nuclear reactor facilities  N.D. $1.8 \times 10^{-4}$ $1.4 \times 10^{-2}$ $3,849$ O $32,754$ $1,100$ $32,754$ Total of nuclear reactor facilities  N.D.  N.D. $1.8 \times 10^{-4}$ $1.4 \times 10^{-2}$ $1.4 \times 10^$		Annual release Target control level	$5.0 \times 10^4$	2.1	1					
Chubu Electric Power Co., Inc.  Hamaoka Nuclear Power Station  Total of nuclear reactor facilities  N.D. $1.8 \times 10^{-4}$ $1.4 \times 10^{-2}$ $3,849$ O $32,754$ Annual release Target control level $1.0 \times 10^{5}$ $7.8$ Chugoku Electric Power Co., Inc.  Shimane Nuclear Power Station  Total of nuclear reactor facilities  N.D. $1.8 \times 10^{-4}$ $1.4 \times 10^{-2}$ $3,849$ O $32,754$ $1,100$ $32,754$ Total of nuclear reactor facilities  N.D.  N.D. $1.8 \times 10^{-4}$ $1.4 \times 10^{-2}$ $1.4 \times 10^$			*2					*7		
Hamaoka Nuclear Power Station  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Shimane Nuclear Power Station  Annual release Target control level 1.0×10 <sup>5</sup> 7.8 2  Total of nuclear reactor facilities N.D. N.D. 5.9×10 <sup>-4</sup> 2,003 107 16,414 *8  612	Chubu Electric Power Co., Inc. Hamaoka Nuclear Power Station	Total of nuclear reactor facilities		$1.8 \times 10^{-4}$	$1.4 \times 10^{-2}$	3,849	0	<i>'</i>	1,100	
Annual release Target control level 1.0×10 <sup>3</sup> 7.8 2  Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities N.D.  N.D.  N.D.  5.9×10 <sup>-4</sup> 2,003 107 16,414 *8  612			N.D.					32,734		
Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities *3		Annual release Target control level	$1.0 \times 10^{5}$	7.8	2					
Chugoku Electric Power Co., Inc.  Total of nuclear reactor facilities  N.D.  N.D.  5.9×10 <sup>-4</sup> 2,003  107  16,414  612		Ü								
Chugoku Electric Power Co., Inc.  N.D.  N.D.  612  Shimane Nuclear Power Station	Chugoku Electric Power Co., Inc. Shimane Nuclear Power Station	Total of nuclear reactor facilities	_	-	5.9×10 <sup>-4</sup>	2.003	107	16 414	*8	
Shimane Nuclear Power Station  Annual release Target control level 3.7×10 <sup>4</sup> 1.8  1		Total of nacion reactor facilities	N.D.	N.D.	3.7~10	2,003	107	10,717	612	
Annual release Target control level 3.7×10 1.0		Annual ralessa Target control level	2.7×104	1 8	1					
		Annual release Target control level	3.7×10	1.0	1					

<sup>\*1</sup> This figure includes 5,700 drums transported from Toukai Electric Power Co.,Inc.

- \*2 This figure includes 196 drums transported from Toukai Electric Power Co., Inc.
- \*3 The detection limit is less than ( $5 \times 10-7 \mu \text{Ci} / \text{Cm}^3$ )
- \*4 The detection limit is less than (  $2\times10-13\mu\text{Ci}/\text{Cm}^3$  )
- \*5 The detection limit is less than (  $5{\times}10{\text{-}}7\mu\text{Ci}$  /  $Cm^3$  ) (represented it with Co-60. )
- \*6 This includes the amount of reduction of incineration of this year (equivalent to 848 drums).
- \*7 This includes the amount of reduction of incinerated (1,560 drums) and the amount of the reduction of the strength test(2 drums) of this year.
- \*8 This includes the amount of reduction of compression of this year (72 drums).

## 2. Pressurized Water Reactor (PWR)

		Radioactive	gaseous waste and l	iquid waste	Radioactive solid waste			
		Radioactive gaseous waste		Radioactive	Amount of	Amount of	Amount of	Amount of
				liquid waste (excluding	generated drums	generated drums(other	generated drums(other	accumulated drums (other
				<sup>3</sup> H)		kinds)	kinds)	kinds)
The Name of Power station		Noble gas	Iodine					
			[ <sup>131</sup> I ]			(equivalent to		(equivalent to
		(Ci)	(Ci)	(Ci)	(number of drums)	the number of drums)	(number of drums)	the number of drums)
Kansai Electric Power Co., Inc. Mihama Power Station	Total of nuclear reactor facilities	8.4×10 <sup>1</sup>	2.5×10 <sup>-3</sup>	2.4×10 <sup>-3</sup>	1,052	251	16,401	3,013
	Annual release Target control level	5.9×10 <sup>4</sup>	2	3				
Kansai Electric Power Co., Inc. Takahama Power Station	Total of nuclear reactor facilities	2.6×10 <sup>1</sup>	3.9×10 <sup>-5</sup>	3.1×10 <sup>-4</sup>	3,134	151	17,750	1,470
	Annual release Target control level	5.4×10 <sup>4</sup>	1.4	2				
Kansai Electric Power Co., Inc. Ohi Power Station	Total of nuclear reactor facilities	7.1×10 <sup>1</sup>	7.0×10 <sup>-3</sup>	5.0×10 <sup>-3</sup>	2,737	368	11,628	814
	Annual release Target control level	7.3×10 <sup>4</sup>	2.2	2				
Shikoku Electric Power Co., Inc. Ikata Nuclear Power Plant	Total of nuclear reactor facilities	5.3×10 <sup>1</sup>	2.1×10 <sup>-4</sup>	7.1×10 <sup>-5</sup>	1,184	*2 222	5,780	*2 824
	Annual release Target control level	3.0×10 <sup>4</sup>	2	2				
Kyushu Electric Power Co., Inc. Genkai Nuclear Power Plant	Total of nuclear reactor facilities	6.4×10 <sup>1</sup>	6.3×10 <sup>-5</sup>	*1 N.D.	1,893	127	10,349	672
	Annual release Target control level	3.0×10 <sup>4</sup>	2	2				

<sup>\*1</sup> The detection limit is less than (  $5\times10^{-7}\,\mu\text{Ci}\,/\,\text{Cm}^3$  ) (represented it with Co-60. )

<sup>\*2</sup> The amount repacked in this year (equivalent to 2 drums) is subtracted from the stored amount and add up to the amount generated in this year.