## (1) Commercial Nuclear Power Reactor Facilities

Station			Radioactive g	Radioactive	
Power station					liquid waste
Power station			Noble gas	lodine	(excluding <sup>3</sup> H)
Nuclear reactor facilities total	Power station			را <sup>131</sup> ا	,
Hokkaido Electric Power Co., Inc.   Co.,			(Bq)		(Bq)
Co., Inc.   Tomari Power Station   Annual release control target value   1.3x10   1.2x10   1.1x10		Nuclear reactor		` "	, "
Tomari Power Station		facilities total	4.4×10	N.D.	N.D.
Control target value   1.3x10   1.2x10   1.1x10		Annual release	*1 15	*1 10	*1 11
Inc.	Toman Fower Station	control target value	1.3×10	1.2×10	1.1×10
Annual release control target value control target value (a.)   Annual release control target value (b.)   An	Tohoku Electric Power Co.,	Nuclear reactor			
Station	Inc.	facilities total	N.D.	N.D.	N.D.
Tohoku Electric Power Co., Inc.   Nuclear reactor facilities total   N.D.   N.D.   N.D.   N.D.	Onagawa Nuclear Power	Annual release	15	11	10
Inc.   Higashidori Nuclear Power   Station   Annual release control target value   1.2x10   2.0x10   3.7x10   3.7x10   Tokyo Electric Power Co., Inc.   Fukushima Daiichi Nuclear Power Station   Annual release control target value   1.2x10   2.0x10   3.7x10   3.7x10   N.D.   N.D.	Station	control target value	3.8×10	1.3×10	1.1×10
Higashidori Nuclear Power Station	Tohoku Electric Power Co.,	Nuclear reactor			
Station	Inc.	facilities total	N.D.	N.D.	N.D.
Tokyo Electric Power Co., Inc.   Nuclear reactor facilities total   N.D.   N.D.   N.D.	Higashidori Nuclear Power	Annual release	15	10	9
Inc.   Fukushima Daiichi Nuclear   Power Station   Annual release   Control target value   S.5x10	Station	control target value	1.2×10	2.0×10	3.7×10
Annual release	Tokyo Electric Power Co.,	Nuclear reactor			
Power Station	Inc.	facilities total	N.D.	N.D.	N.D.
Tokyo Electric Power Co.   Inc.   Nuclear reactor facilities total   N.D.   N.D.   N.D.   N.D.	Fukushima Daiichi Nuclear	Annual release	15	11	11
Inc.   facilities total   N.D.   N.D.   N.D.   N.D.	Power Station	control target value	8.8×10	4.8×10	2.2×10
Annual release control target value	Tokyo Electric Power Co.,	Nuclear reactor			
Power Station	Inc.	facilities total	N.D.	N.D.	N.D.
Tokyo Electric Power Co., Inc.   Nuclear reactor facilities total   N.D.   N.D.   N.D.	Fukushima Daini Nuclear	Annual release	15	11	11
Inc.   Facilities total   N.D.   N.D.   N.D.   N.D.	Power Station	control target value	5.5×10	2.3×10	1.4×10
Kashiwazaki-Kariwa Nuclear Power Station         Annual release control target value         15         11         11         11           Chubu Electric Power Co., Inc.         Nuclear reactor facilities total         N.D.         N.D.         N.D.         N.D.           Hamaoka Nuclear Power Station         Annual release control target value         15         11         11         11           Hokuriku Electric Power Co.         Nuclear reactor facilities total         N.D.         N.D.         N.D.         N.D.           Shika Nuclear Power Station         Annual release control target value         15         10         10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9         5         10         11           Kansai Electric Power Co., Inc.         Annual release control target value         2.1x10         7.3x10         1.1x10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3x10         N.D.         N.D.           Kansai Electric Power Co., Inc.         Annual release control target value         3.3x10         6.2x10         1.4x10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         15         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total <td>Tokyo Electric Power Co.,</td> <td>Nuclear reactor</td> <td></td> <td></td> <td></td>	Tokyo Electric Power Co.,	Nuclear reactor			
Nuclear Power Station         control target value         6.7x10         2.3x10         2.5x10           Chubu Electric Power Co., Inc.         Nuclear reactor facilities total         N.D.         N.D.         N.D.           Hamaoka Nuclear Power Station         Annual release control target value         15         11         11           Hokuriku Electric Power Co., Inc.         Nuclear reactor facilities total         N.D.         N.D.         N.D.           Shika Nuclear Power Station         Annual release control target value         15         10         10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         2.8x10         1.2x10         N.D.           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         15         2         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3x10         N.D.         N.D.           Annual release control target value         3.3x10         6.2x10         1.4x10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6           Annual release control target value         3.3x10         6.2x10         1.4x10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10	Inc.	facilities total	N.D.	N.D.	N.D.
Chubu Electric Power Co., Inc.         Nuclear reactor facilities total         N.D.         N.D.         N.D.         N.D.           Hamaoka Nuclear Power Station         Annual release control target value         15         11         11         11           Hokuriku Electric Power Co.         Nuclear reactor facilities total         N.D.         N.D.         N.D.         N.D.           Shika Nuclear Power Co.         Annual release control target value         15         10         10         10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9         5         12×10         N.D.           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         15         2.1×10         7.3×10         1.1×10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Annual release control target value         15         10         11         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         15         10         11           Chic Power Station         Nuclear reactor facilities total         10         6.2×1	Kashiwazaki-Kariwa	Annual release	15	11	11
Inc.   facilities total   N.D.   N.D.   N.D.   N.D.	Nuclear Power Station	control target value	6.7×10	2.3×10	2.5×10
Hamaoka Nuclear Power   Station   Control target value   Control t	Chubu Electric Power Co.,	Nuclear reactor			
Station   Control target value   6.3x10   3.1x10   1.8x10	Inc.	facilities total	N.D.	N.D.	N.D.
Nuclear reactor facilities total   N.D.   N.D.   N.D.	Hamaoka Nuclear Power	Annual release	15	11	11
Co.         facilities total         N.D.         N.D.         N.D.           Shika Nuclear Power         Annual release         15         10         10           Station         Control target value         2.3×10         4.8×10         7.4×10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9         5         1.2×10         N.D.           Kansai Electric Power Co., Inc.         Annual release control target value         15         *2         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Kansai Electric Power Co., Inc.         Annual release control target value         15         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6         1.7×10         N.D.           Ohi Power Station         Annual release         15         11         11         11	Station	control target value	6.3×10	3.1×10	1.8×10
Shika Nuclear Power         Annual release control target value         15         10         10           Kansai Electric Power Co. Inc.         Nuclear reactor facilities total         9         5         N.D.           Mihama Power Station         Annual release control target value         15         *2         10         11           Kansai Electric Power Co. Inc.         Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Annual release control target value         15         10         11           Kansai Electric Power Station         Annual release control target value         3.3×10         6.2×10         1.4×10           Kansai Electric Power Co. Inc.         Nuclear reactor facilities total         10         6         1.7×10         N.D.           Annual release         15         11         1.7×10         N.D.	Hokuriku Electric Power	Nuclear reactor			
Station         control target value         2.3×10         4.8×10         7.4×10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9         5         N.D.           Annual release control target value         15         *2         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Annual release control target value         15         10         11           Kansai Electric Power Station         Annual release control target value         15         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6         1.4×10           Kansai Electric Power Co., Inc.         Annual release         10         6         1.7×10         N.D.           Annual release         15         11         N.D.         N.D.	Co.	facilities total	N.D.	N.D.	N.D.
Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9         5         N.D.           Mihama Power Station         Annual release control target value         15         *2         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9         5         N.D.           Nuclear reactor facilities total         15         *2         10         11           Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Annual release control target value         15         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6         1.7×10         N.D.           Annual release         15         1.7×10         N.D.         N.D.	Shika Nuclear Power	Annual release	15	10	10
Kansai Electric Power Co., Inc.         facilities total         2.8×10         1.2×10         N.D.           Mihama Power Station         Annual release control target value         15         *2         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Annual release control target value         15         10         11           Kansai Electric Power Station         Nuclear reactor facilities total         15         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6         1.7×10         N.D.           Annual release         15         11         11         11	Station	control target value	2.3×10	4.8×10	7.4×10
Inc.   Annual release   Control target value   Control target valu	Kanaai Elaatria Barran Oa	Nuclear reactor	9	5	
Mihama Power Station         Annual release control target value         15         *2         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Annual release control target value         15         10         11           Kansai Electric Power Station         Nuclear reactor facilities total         15         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6         1.7×10         N.D.           Ohi Power Station         Annual release         15         11         11         11	· ·	facilities total	2.8×10	1.2×10	N.D.
Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         9.3×10         N.D.         N.D.           Annual release control target value         3.3×10         6.2×10         1.4×10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6           Chi Power Station         Annual release         15         10         1.4×10           Annual release facilities total         1.9×10         1.7×10         N.D.           Annual release         15         11         11		Annual release	15	*2 10	11
Kansai Electric Power Co., Inc.         facilities total         9.3×10         N.D.         N.D.           Takahama Power Station         Annual release control target value         15         10         11           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6         6           Annual release         15         1.7×10         N.D.           Annual release         15         11         11	Iviliana Fower Station	control target value	2.1×10	7.3×10	1.1×10
Inc.   Annual release   15   10   1.4×10	Kanaai Elaatria Bawar Ca	Nuclear reactor	11		
Takahama Power Station         Annual release control target value         15 3.3×10         10 6.2×10         11 1.4×10           Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         1.9×10         1.7×10         N.D.           Annual release         15 11         11         11	The state of the s	facilities total	9.3×10	N.D.	N.D.
Kansai Electric Power Co., Inc.         Nuclear reactor facilities total         10         6         1.7×10         N.D.           Annual release         15         11         11		Annual release	15	10	11
Ransai Electric Power Co., Inc.  Ohi Power Station  facilities total  1.9×10  1.7×10  N.D.  Annual release  15  11  11	Takanama i Owei Station	control target value	3.3×10	6.2×10	1.4×10
Inc. Ohi Power Station Annual release 15 11 11 11	Kansai Flectric Power Co	Nuclear reactor	10	6	
Ohi Power Station Annual release 15 11 11	· ·	facilities total	1.9×10	1.7×10	N.D.
Control target value 2.0.40 4.0.40 4.4.40	_	Annual release	15	11	11
Control target value   3.9x10   1.0x10   1.4x10	On I Ower Station	control target value	3.9×10	1.0×10	1.4×10

<sup>\*1:</sup> In relation to revision of the safety regulations due to extension of Unit 3, the control targets of noble gas, iodine, and radioactive liquid waste (excluding <sup>3</sup>H) were changed from 1.1 x 10<sup>15</sup> (Bq/year), 1.1 x 10<sup>10</sup> (Bq/year), and 7.4 x 10<sup>10</sup> (Bq/year) to 1.3 x 10<sup>15</sup> (Bq/year), 1.2 x 10<sup>10</sup> (Bq/year), and 1.1 x 10<sup>11</sup> (Bq/year), respectively on January 24, 2009.

<sup>\*2:</sup> Due to revision of the safety regulations associated with installation of high burnup fuel (55 Gwd/t), the control target was changed from  $7.4 \times 10^{10}$  (Bq/year) to  $7.3 \times 10^{10}$  (Bq/year) on October 16, 2008.

		Radioactive gaseous waste		Radioactive
		Noble gas	lodine	liquid waste (excluding <sup>3</sup> H)
Power station		-	[ <sup>131</sup> I]	, , ,
		(Bq)	(Bq)	(Bq)
Chugoku Electric Power Co., Inc.	Nuclear reactor facilities total	N.D.	N.D.	N.D.
Shimane Nuclear Power Station	Annual release control target value	14 8.4 <b>×</b> 10	10 4.3 <b>×</b> 10	10 7.4×10
Shikoku Electric Power Co., Inc. Ikata Power Station	Nuclear reactor facilities total	10 1.5 <b>×</b> 10	N.D.	N.D.
	Annual release control target value	15 1.5×10	10 8.1×10	11 1.1×10
Kyushu Electric Power Co., Inc.	Nuclear reactor facilities total	10 2.6×10	N.D.	N.D.
Genkai Nuclear Power Station	Annual release control target value	15 2.2×10	10 5.9×10	11 1.4×10
Kyushu Electric Power Co., Inc.	Nuclear reactor facilities total	10 1.3×10	N.D.	N.D.
Sendai Nuclear Power Station	Annual release control target value	15 1.7×10	10 6.2×10	10 <b>7.4×10</b>
Japan Atomic Power Company Tokai Power Station	Nuclear reactor facilities total	-	-	N.D.
	Annual release control target value	-	-	*3 7 2.9 <b>x</b> 10
Japan Atomic Power Company Tokai Daini Power Station	Nuclear reactor facilities total	N.D.	N.D.	8 3.4×10
	Annual release control target value	15 1.4×10	10 5.9×10	3.7×10
Japan Atomic Power Company	Nuclear reactor facilities total	N.D.	N.D.	N.D.
Tsuruga Power Station	Annual release control target value	15 1.7×10	10 3.8×10	10 7.4×10

Notes: The radioactivity (Bq) of gaseous (or liquid) waste is obtained by multiplying the concentration of the radioactive material (Bq/cm<sup>3</sup>) in the released gas (or liquid) by the amount of released gas (or liquid) (m<sup>3</sup>) Values lower than the detection limit of radioactivity are indicated as N.D.

- The detection limits are as follows. (Bq / cm<sup>3</sup>)

Radioactive noble gas : 2 x 10<sup>-2</sup> or less
Radioactive iodine : 7 x 10<sup>-9</sup> or less
Radioactive liquid waste (excluding <sup>3</sup>H) : 2 x 10<sup>-2</sup> or less (<sup>60</sup>Co value was used)

<sup>\*3:</sup> The control targets are for <sup>60</sup>Co, <sup>137</sup>Cs, <sup>152</sup>Eu and <sup>154</sup>Eu.