2 Commercial Power Reactor Facilities in a Research and Development Stage

		Radioactive gaseous waste		
Facility name		Noble gas	Iodine [131]	Tritium [³ H]
		(Bq)	(Bq)	(Bq)
Japan Nuclear Cycle	Nuclear reactor			11
Development Institute	facilities total	N.D.	N.D.	3.1×10
Advanced Thermal Reactor	Annual release	*1	*2	*3 13
Fugen Power Station	Target control level	-	-	1.8×10
Japan Nuclear Cycle	Nuclear reactor			9
Development Institute	facilities total	N.D.	N.D.	3.4×10
Monju Prototype Fast Breeder	Annual release	13	8	
Reactor	Target control level	8.2×10	1.5×10	-

		Radioactive liquid waste		
		Total		
		radionuclides	Tritium [³ H]	
Facility name		(excluding 3H)		
		(Bq)	(Bq)	
Japan Nuclear Cycle	Nuclear reactor		11	
Development Institute	facilities total	N.D.	8.4×10	
Advanced Thermal Reactor	Annual release	*4 8	13	
Fugen Power Station	Target control level	2.8×10	1.1×10	
Japan Nuclear Cycle	N la an maa atan		*5 8	
Development Institute	Nuclear reactor	N.D.	1.3×10	
Monju Prototype Fast Breeder	facilities total		(N.D.)	
Reactor	Annual release	9	12	
	Target control level	5.5×10	9.2×10	

Notes: The radioactivity (Bq) of gaseous (or liquid) waste is obtained by multiplying the concentration of the radioactive material (Bq/cm³) in the released gas (or liquid).

Values lower than the detection limit of radioactivity are indicated as N.D.

The detection limits are as follows.

Radioactive noble gases: 2×10^{-2} (Bq/cm³) or less

Radioactive iodine: 7×10^{-9} (Bq/cm³) or less

Total radioactive particulate matter (excluding 3 H): 4×10^{-9} (Bq/cm 3) or less (the 60 Co value is used)

Tritium (gas): 4×10^{-5} (Bq/cm³) or less

Radioactive liquid waste (excluding 3 H): 2×10^{-2} (Bq/cm 3) or less (the 60 Co value is used)

Tritium (liquid): 2×10⁻¹ (Bq/cm³) or less

- *1, *2: After October 1, 2003, due to the revision of the reactor facility safety regulations, control targets for noble gases and iodine have been removed from the annual release control targets for radioactive gaseous waste.
- *3: Annual release control targets at the exhaust stack of the waste treatment building are as follows. Tritium (gas): 3.7×10^{11} (Bq/cm3) or less
- *4: According to the amendment to the Reactor Facility Safety Regulations, the annual liquid radioactive release control target levels have been changed since October 1, 2003.

Total radionuclides (excluding ³H):2.8×10⁸ (Bq) or less (prior to the amendment: 7.4×10⁹ (Bq) or less)

*5: The value includes the water and steam derived tritium (N.D.).