

(2) Power Reactor Facilities at the Research and Development Stage

Facility		Radioactive gaseous waste		
		Noble gases (Bq)	Iodine [¹³¹ I] (Bq)	Tritium [³ H] (Bq)
Japan Atomic Energy Agency Fugen Decommissioning Engineering Center *7	Nuclear reactor facilities total	N.D.	N.D.	1.0E+11
	Annual release control target values	*8 -	*8 -	*9 1.4E+13
Japan Atomic Energy Agency Prototype Fast Breeder Reactor Monju	Nuclear reactor facilities total	N.D.	*1 9.8E+04	1.1E+09
	Annual release control target values	8.2E+13	1.5E+08	-

Facility		Radioactive liquid waste	
		Total radionuclides (excluding ³ H) (Bq)	Tritium [³ H] (Bq)
Japan Atomic Energy Agency Fugen Decommissioning Engineering Center	Nuclear reactor facilities total	N.D.	8.6E+11
	Annual release control target values	*10 2.8E+08	*11 8.5E+12
Japan Atomic Energy Agency Prototype Fast Breeder Reactor Monju	Nuclear reactor facilities total	N.D.	*12 1.5E+08
	Annual release control target values	5.5E+09	9.2E+12

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) by the amount of released gas (or liquid).

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

The detection limits are as follows. (Bq/cm³)

Radioactive noble gases : 2E-02 or less

Radioactive iodine : 7E-09 or less

Radioactive liquid waste : 2E-02 or less (a value of ⁶⁰Co was used)

*7: Due to approval of a decommissioning plan on February 12, 2008, the facility name was changed from "Japan Atomic Energy Agency, Advanced Thermal Reactor (ATR) Fugen Power Station" to "Tsuruga Head Office of the Japan Atomic Energy Agency, Nuclear Reactor Decommissioning Research and Development Center, Advanced Thermal Reactor Prototype Reactor Facility." (Hereinafter, it will be referred to as the "Japan Atomic Energy Agency, Nuclear Reactor Decommissioning R&D Center.")

*8: After October 1, 2003, due to revision of the reactor facility safety regulations, target values for noble gases and iodine have been removed from the annual release control target values for radioactive gaseous waste.

*9: After February 12, 2008, due to revision of the safety regulations based on the approval of the decommissioning plan, the annual release control target values for Tritium have been changed to 1.4E+13 (Bq/year).

*10: After October 1, 2003, due to revision of the reactor facility safety regulations, the annual release control target values for radioactive liquid waste (excluding ³H) have been changed to 2.8E+08 (Bq/year).

*11: After February 12, 2008, due to revision of the safety regulations based on the approval of the decommissioning plan, the annual release control target values for Tritium have been changed to 8.5E+12 (Bq/year).

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