

## (2) Nuclear Power Reactor Facilities of the Research and Development Stage

Facility	Item	Radioactive Gaseous Waste		
		Noble Gases (Bq)	Iodine [ <sup>131</sup> I] (Bq)	Tritium [ <sup>3</sup> H] (Bq)
Japan Atomic Energy Agency, Fugen Decommissioning Engineering Center *8	Nuclear reactor facilities total	N.D.	*1 2.0E+05	7.2E+10
	Annual release Control target value	*9 -	*9 -	*10 1.4E+13
Japan Atomic Energy Agency, Prototype Fast Breeder Reactor Monju	Nuclear reactor facilities total	N.D.	*11 2.1E+03	3.2E+08
	Annual release Control target value	8.2E+13	1.5E+08	-

Facility	Item	Radioactive Liquid Waste	
		Total Radionuclides (excluding <sup>3</sup> H) (Bq)	Tritium [ <sup>3</sup> H] (Bq)
Japan Atomic Energy Agency, Fugen Decommissioning Engineering Center,	Nuclear reactor facilities total	N.D.	8.6E+11
	Annual release Control target value	*12 2.8E+08	*13 8.5E+12
Japan Atomic Energy Agency Prototype Fast Breeder Reactor Monju	Nuclear reactor facilities total	N.D.	*14 7.7E+07
	Annual release Control target value	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/cm<sup>3</sup>) 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/cm<sup>3</sup>)

Radioactive noble gases : 2E-02 or less

Radioactive iodine : 7E-09 or less

Radioactive liquid waste : 2E-02 or less (represented by the value of <sup>60</sup>Co)

\*8: Due to the approval of the decommissioning plan on February 12, 2008, the facility name was changed from "Japan Atomic Energy Agency, Advanced Thermal Reactor (ATR) Fugen Power Station" to "Japan Atomic Energy Agency, Tsuruga Head Office, Nuclear Reactor Decommissioning Research and Development Center, Advanced Thermal Reactor Prototype Reactor Facility." (Hereinafter referred to as the "Japan Atomic Energy Agency, Nuclear Reactor Decommissioning R&D Center")

\*9: On October 1, 2003, due to revision of the reactor facility safety regulations, the annual release control target values of noble gases and iodine were removed from the annual release control target values for radioactive gaseous waste.

\*10: On February 12, 2008, due to revision of the safety regulations based on the approval of the decommissioning plan, the annual release control target value for Tritium was changed to 1.4E+13 (Bq/year).

\*11: This is not attributable to the Monju, as the equipment inspection was preceded by the reactor shutdown, no change in radioactivity reading was detected in the fuel storage pool, and no operations involving the release of iodine were performed.

\*12: On October 1, 2003, due to revision of the reactor facility safety regulations, the annual release control target value of radioactive liquid waste (excluding <sup>3</sup>H) was changed to 2.8E+08 (Bq/year).

\*13: On February 12, 2008, due to revision of the safety regulations based on the approval of the decommissioning plan, the annual release control target value for Tritium was changed to 8.5E+12 (Bq/year).

\*14: The value includes tritium (N.D.) in the water and steam systems.