

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

Facility		Gaseous radioactive waste		
		Noble gas (Bq)	Iodine [¹³¹ I] (Bq)	Tritium [³ H] (Bq)
Japan Atomic Energy Agency Fugen Decommissioning Engineering Center	Nuclear reactor facilities total	N.D.	N.D.	¹¹ 3.7×10
	Annual release control target value	^{*2} -	^{*2} -	^{*3} ¹³ 1.4×10
Japan Atomic Energy Agency Prototype Fast Breeder Reactor Monju	Nuclear reactor facilities total	N.D.	N.D.	⁹ 1.1×10
	Annual release control target value	¹³ 8.2×10	⁸ 1.5×10	-

Facility		Liquid radioactive waste	
		Total nuclides (excluding ³ H) (Bq)	Tritium [³ H] (Bq)
Japan Atomic Energy Agency Fugen Decommissioning Engineering Center	Nuclear reactor facilities total	N.D.	¹¹ 8.9×10
	Annual release control target value	^{*4} ⁸ 2.8×10	^{*5} ¹² 8.5×10
Japan Atomic Energy Agency Prototype Fast Breeder Reactor Monju	Nuclear reactor facilities total	N.D.	^{*6} ⁷ 2.1×10
	Annual release control target value	⁹ 5.5×10	¹² 9.2×10

Note: The released radioactivity (Bq) of gaseous (or liquid) waste is obtained by multiplying the concentration of radioactive material (Bq/cm³) in exhaust air (or discharge water) by the quantity of exhaust air (or discharge water).

Released radioactivity concentration lower than the detection limit concentration is represented as N.D.

The detection limit concentration is as follows: (Bq/cm³)

Radioactive noble gas : 2×10⁻² or lower

Radioactive iodine : 7×10⁻⁹ or lower

Total radioactive particulate matter : 4×10⁻⁹ or lower (with ⁶⁰Co as representative)

Tritium (gas) : 4×10⁻⁵ or lower

Liquid radioactive waste : 2×10⁻² or lower (with ⁶⁰Co as representative)

Tritium (liquid) : 2×10⁻¹ or lower

*2: In association with the amendment of the Safety Regulations for Nuclear Reactor Facilities, the annual release control target values of noble gas and iodine in gaseous radioactive waste have been deleted since October 1, 2003.

*3: In association with the amendment of the Safety Regulations based on the approval of the decommissioning plan, the release control target value of tritium has been changed to "1.4×10¹³-1 (Bq) or lower annually" since February 12, 2008.
Annual rel

*4: In association with the amendment of the Safety Regulations for Nuclear Reactor Facilities, the release control target value of liquid radioactive waste has been changed to "2.8×10⁸ (Bq) or lower annually" since October 1, 2003.

*5: In association with the amendment of the Safety Regulations based on the approval of the decommissioning plan, the release control target value of tritium has been changed to "8.5×10¹² (Bq) or lower annually" since February 12, 2008.

*6: The value includes tritium in water and steam (N.D.)