

Waste Management Facilities

Facility		Radioactive gaseous waste			
		Cobalt [ <sup>60</sup> Co] (Bq/cm <sup>3</sup> )	Cesium [Cs] (Bq/cm <sup>3</sup> )	Ruthenium [Ru] (Bq/cm <sup>3</sup> )	
Japan Nuclear Fuel Ltd. Reprocessing Plant (Waste management facility)	* 1	Waste management Facilities Total	-	N.D.	N.D.
		Control concentration targets	-	9.0×10 <sup>-7</sup>	1.0×10 <sup>-7</sup>
Japan Atomic Energy Research Institute Oarai Research Establishment (Waste management facility)	* 2	Waste management Facilities Total	N.D.	N.D.	-
		Control concentration targets	-	-	-

(cont.)

Facility		Radioactive gaseous waste		
		Argon [Ar] (Bq/cm <sup>3</sup> )	Plutonium [ <sup>239</sup> Pu] (Bq/cm <sup>3</sup> )	
Japan Nuclear Fuel Ltd. Reprocessing Plant (Waste management facility)	* 1	Waste management Facilities Total	N.D.	-
		Control concentration targets	-	-
Japan Atomic Energy Research Institute Oarai Research Establishment (Waste management facility)	* 2	Waste management Facilities Total	-	N.D.
		Control concentration targets	-	-

Notes) Control concentration targets for gaseous waste at Oarai Research Establishment are set by each stack and no targets are set for the entire facility.

Facility		Radioactive liquid waste				
		Tritium [ <sup>3</sup> H] (Bq)	Cobalt [ <sup>60</sup> Co] (Bq)	Cesium [Cs] (Bq)	Others (Bq)	
Japan Nuclear Fuel Ltd. Reprocessing Plant (Waste management facility)	* 3	-	-	-	-	
		-	-	-	-	
Japan Atomic Energy Research Institute Oarai Research Establishment (Waste management facility)	* 2	Annual release	6.9×10 <sup>11</sup>	N.D.	N.D.	-
		Control concentration targets	3.7×10 <sup>12</sup>	2.2×10 <sup>8</sup>	1.8×10 <sup>9</sup>	2.2×10 <sup>8</sup>

Notes: The values lower than the detection limit of the radioactivity are indicated as N.D.

The detection limits are as follows.

Radioactive gaseous waste

Radioactive Cs : 4.0×10<sup>-9</sup> (Bq/cm<sup>3</sup>) or less (\*1)

: 1.6×10<sup>-9</sup> (Bq/cm<sup>3</sup>) or less (\*2)

Radioactive Ru : 1×10<sup>-8</sup> (Bq/cm<sup>3</sup>) or less (\*1)

Radioactive Ar : 5×10<sup>-5</sup> (Bq/cm<sup>3</sup>) or less (\*1)

<sup>60</sup>Co : 6.2×10<sup>-9</sup> (Bq/cm<sup>3</sup>) or less (\*2)

<sup>239</sup>Pu : 7.7×10<sup>-10</sup> (Bq/cm<sup>3</sup>) or less (\*2)

Radioactive liquid waste

Radioactive Cs : 1.6×10<sup>-4</sup> (Bq/cm<sup>3</sup>) or less (\*2)

<sup>60</sup>Co : 1.5×10<sup>-4</sup> (Bq/cm<sup>3</sup>) or less (\*2)

\*3 There is no external release of radioactive liquid waste at Japan Atomic Energy Research Institute, Oarai Research Establishment because all of the radioactive liquid waste is stored for disposal within the facilities