② Commercial Power Reactor Facilities in a Research and Development Stage

| Facility name | | Radioactive gaseous waste | | |
| --- | --- | --- | --- | --- |
| | | Noble gas (Bq) | Iodine [$^{131}$I] (Bq) | Tritium [$^3$H] (Bq) |
| Japan Nuclear Cycle Development Institute Advanced Thermal Reactor Fugen Power Station | Nuclear reactor facilities total | $1.2 \times 10^{10}$ | N.D. | $1.1 \times 10^{12}$ |
| | Annual release Target control level | $5.1 \times 10^{14}$ | $2.7 \times 10^{10}$ | $1.8 \times 10^{13}$ |
| Japan Nuclear Cycle Development Institute Monju Prototype Fast Breeder Reactor | Nuclear reactor facilities total | N.D. | N.D. | *1 $9.0 \times 10^{9}$ |
| | Annual release Target control level | $8.2 \times 10^{13}$ | $1.5 \times 10^{8}$ | |

| Facility name | | Radioactive gaseous waste | |
| --- | --- | --- | --- |
| | | Noble gas (Bq) | Tritium [$^3$H] (Bq) |
| Japan Nuclear Cycle Development Institute Advanced Thermal Reactor Fugen Power Station | Nuclear reactor facilities total | N.D. | $1.5 \times 10^{12}$ |
| | Annual release Target control level | $7.4 \times 10^{9}$ | $1.1 \times 10^{13}$ |
| Japan Nuclear Cycle Development Institute Monju Prototype Fast Breeder Reactor | Nuclear reactor total | N.D. | *2 $9.3 \times 10^{6}$ |
| | Annual release Target control level | $5.5 \times 10^{9}$ | $9.2 \times 10^{12}$ |

Notes: The radioactivity (Bq) of gaseous (or liquid) waste is obtained by multiplying the concentration of the radioactive material (Bq/cm$^3$) 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: $2 \times 10^{-2}$ (Bq/cm$^3$) or less

Radioactive iodine: $7 \times 10^{-9}$ (Bq/cm$^3$) or less

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

Tritium (gas): $4 \times 10^{-5}$ (Bq/cm$^3$) or less

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

Tritium (liquid): $2 \times 10^{-1}$ (Bq/cm$^3$) or less