Mobile-type strontium removal equipment

[A series] In operation

[B series] Operational plan approved on Dec. 12, 2014

[Second] Operational plan applied on Dec. 12, 2014.

but not approved yet

Treatment capacity: 300m³/day × 2 series,

480m3/day × 4 units

Removal capacity: To reduce amount of strontium

up to the extent of 1/10 to 1/1,000

Multi-nuclide removal equipment (ALPS)

Currently under hot testing*

Treatment capacity: 250m³/day × 3 series Removal capacity: To reduce concentrations of 62 nuclides below the concentration limits announced by the Reactor Regulation

Improved multi-nuclide removal equipment (ALPS)

Currently under hot testing*

Treatment capacity: 250m³ or more/day × 3 series Removal capacity: To reduce concentrations of 62 nuclides below the concentration limits announced by the Reactor Regulation

Strontium removal with cesium adsorption apparatus

In operation

Treatment capacity: 600m³/day

Removal capacity: To reduce amount of strontium up to the extent of 1/100 to 1/1,000

Multiple measures for risk reduction

High-performance multi-nuclide removal equipment (ALPS)

Currently under hot testing*

Treatment capacity: 500m3 or more/day

Removal capacity: To reduce concentrations of 62 nuclides below the concentration limits reduced by

the Reactor Regulation

Strontium removal by second cesium adsorption apparatus

In operation

Treatment capacity: 1,200m³/day

Removal capacity: To reduce amount of

Strontium up to the extent of 1/100 to 1/1,000



RO concentrated water treatment facility

In operation

Treatment capacity: 500-900m³/day

Removal capacity: To reduce amount of strontium up

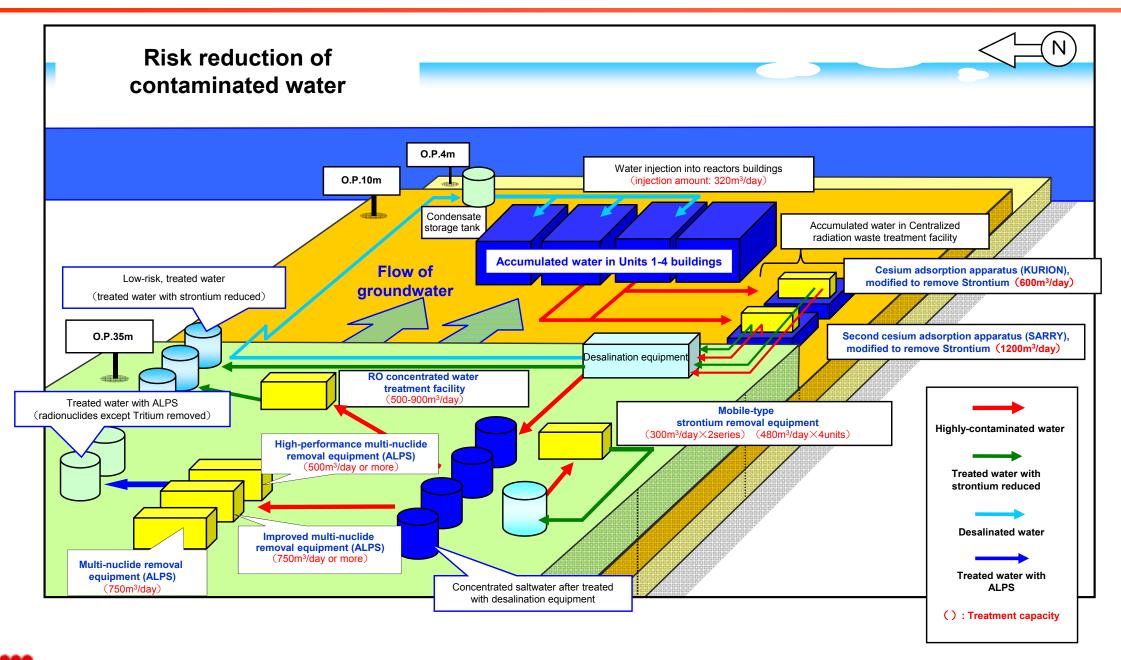
to the extent of 1/100 to 1/1,000

★Aiming for the risk reduction of contaminated water through multiple measures





1-2. Water treatment facilities at Fukushima Daiichi NPS





2. Multi-nuclide removal equipment (ALPS)



HIC area



The whole view of the facility

3. Improved multi-nuclide removal equipment (ALPS)



Cross-flow filter • HIC handling area



Adsorption towers



<Pictures taken on January 14, 2015 and provided by Tokyo Electric Power Company>

4. High-performance multi-nuclide removal equipment (ALPS)



Adsorption towers



Treated water tank and Supply tank area

<Pictures taken on January 14, 2015 and provided by Tokyo Electric Power Company>

5. RO concentrated water treatment facility



Pretreatment equipment



Cesium and strontium simultaneous adsorption towers

6. Mobile-type strontium removal equipment



Ultrafilter (UF)



Adsorption towers

<Pictures taken on January 14, 2015 and provided by Tokyo Electric Power Company>





7. Strontium removal with cesium adsorption apparatus



Adsorption towers

<Pictures taken on June 4, 2012 and provided by Tokyo Electric Power Company>

8. Strontium removal with second cesium adsorption apparatus



Adsorption towers