

Measurement result of radioactivity concentration of water treatment facilities

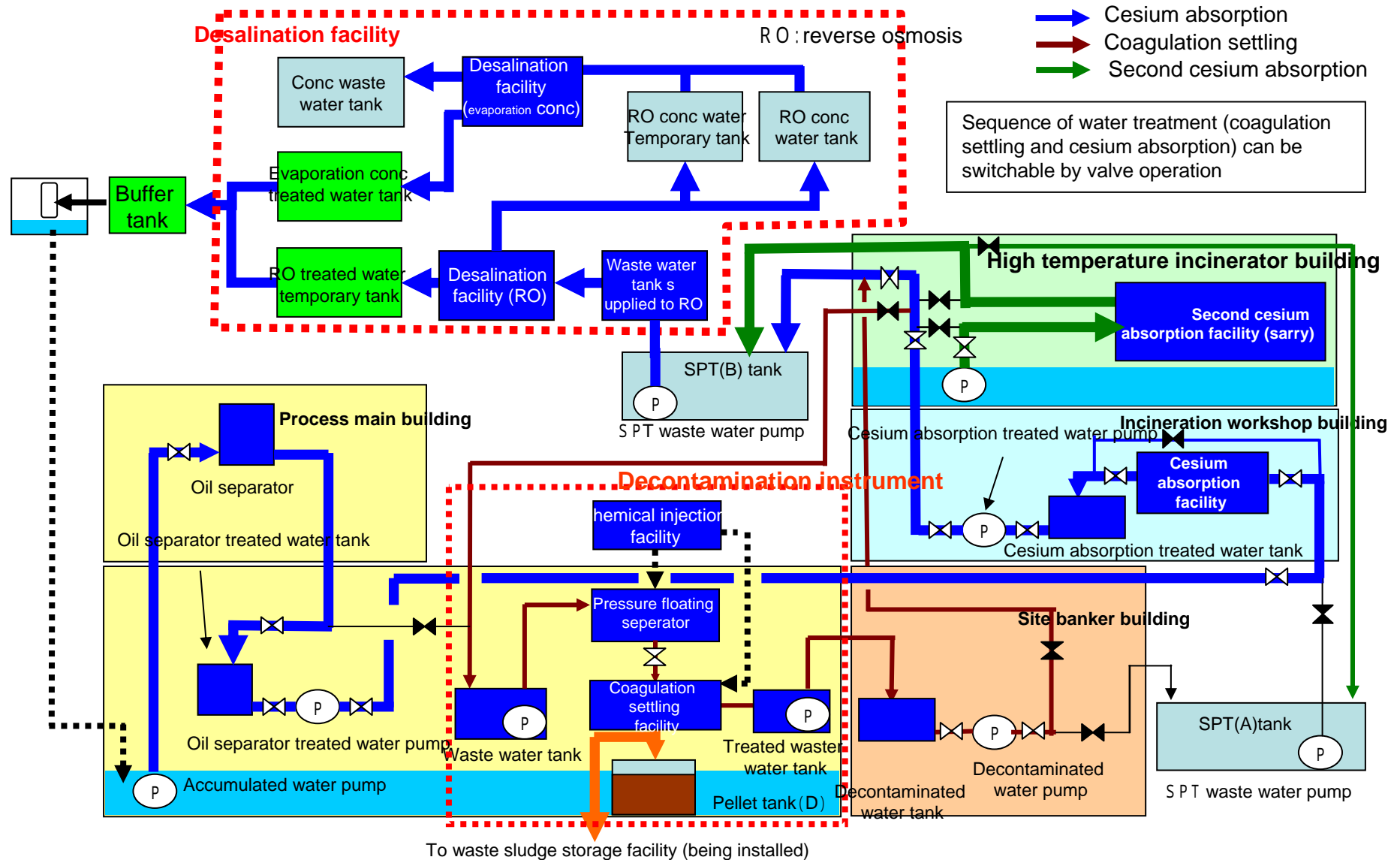
Unit: (Bq/cm³)

sampling point	Highly contaminated water in the underground of the centralized RW (accumulated water)	Water treated by Cesium absorption facility	Highly contaminated water in the underground of HTI (accumulated water)	Water treated by second Cesium absorption facility A line	Water treated by second Cesium absorption facility B line	Water before entering into the desalination facility			Water treated by the desalination facility			Water entering into the evaporative concentration apparatus			Water treated by the evaporative concentration apparatus			Concentrated waste water from the evaporative concentration apparatus			
						9:05 am Sep. 20, 2011	7:12 am Oct. 04, 2011	6:30 am Nov. 01, 2011	10:25 am Sep. 20, 2011	7:10 am Oct. 04, 2011	6:35 am Nov. 01, 2011	12:05 pm Sep. 20, 2011	7:05 am Oct. 04, 2011	6:30 am Nov. 01, 2011	7:15 am Oct. 04, 2011	6:40 am Nov. 01, 2011	12:30 pm Aug. 23, 2011	7:00 am Oct. 04, 2011	6:23 am Nov. 03, 2011		
γnuclide	I-131 (approx 8 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3E+01	ND	ND	
	Cs-134 (approx 2 years)	6.0E+05	6.1E+01	3.6E+05	ND	ND	3.8E+01	1.0E+02	2.3E+01	5.7E-02	ND	ND	4.7E+01	7.3E+00	5.7E+00	ND	ND	7.6E+00	1.4E+01	4.4E+01	
	Cs-137 (approx 30 years)	7.2E+05	7.4E+01	4.3E+05	ND	ND	4.4E+01	1.2E+02	2.8E+01	1.0E-01	ND	4.6E-02	5.6E+01	7.5E+00	7.4E+00	ND	ND	5.5E+00	1.6E+01	5.4E+01	
	Ba-140 (approx 13 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	La-140 (approx 2 days)	ND	ND	ND	ND	ND	1.1E+00	2.8E-01	3.1E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Co-58 (approx 71 days)	ND	1.5E+00	ND	ND	ND	8.9E-01	8.0E-01	ND	ND	ND	ND	1.9E+00	ND	2.0E+00	ND	ND	1.1E+01	ND	ND	
	Co-60 (approx 5 years)	ND	1.3E+01	ND	2.7E-01	3.8E-01	7.1E+00	6.6E+00	6.5E+00	ND	4.3E-02	ND	1.4E+01	1.7E+01	1.3E+01	ND	ND	6.5E+01	1.2E+01	2.8E+00	
	Mn-54 (approx 312 days)	ND	3.5E+01	ND	2.1E+00	2.8E+00	2.5E+01	2.0E+01	1.7E+01	4.3E-02	1.8E-01	1.6E-02	5.1E+01	6.7E+01	4.9E+01	ND	ND	3.0E+02	7.4E+01	3.3E+00	
	Sb-125 (approx 2.7 years)	ND	5.3E+01	ND	7.1E+01	7.1E+01	5.8E+01	5.6E+01	6.9E+01	ND	1.7E-01	4.8E-02	1.2E+02	9.7E+01	1.4E+02	ND	ND	4.0E+02	1.9E+02	7.6E+02	
	Ru-103 (approx 39 days)	ND	ND	ND	1.0E+00	5.4E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0E+00
	Ru-106 (approx 1 years)	ND	ND	ND	5.2E+00	4.7E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4E+01
Sb-124 (approx 60 days)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1E+00	
βnuclide	Sr-89 (approx 50 days)	-	-	-	-	-	2.9E+04	-	-	-	-	5.4E+04	-	-	-	-	-	9.7E+04	-	-	
	Sr-90 (approx 29 years)	-	-	-	-	-	2.9E+04	-	-	-	-	7.6E+04	-	-	-	-	-	8.5E+04	-	-	
	H-3 (approx 12 years)	-	-	-	-	-	4.2E+03	3.8E+03	-	4.2E+03	3.8E+03	-	-	5.4E+03	-	4.6E+03	-	-	-	-	
all β radioactivity		-	-	-	-	-	1.9E+05	2.6E+05	-	1.0E+02	5.1E+02	-	3.9E+05	2.3E+05	-	2.2E+01	-	4.3E+05	4.8E+05	-	

. E+ has equivalent meaning with . ×10ⁿ
 ND indicates the measured value was below the detection limit
 periods in () indicates half period
 ' - ' indicates that there was no subject for measurement
 Sample for Sep 20 was sampled at the exit of concentrated waste water of desalination facility

Sampling location of water treatment facility

~ : sampling point



→ Cesium absorption
→ Coagulation settling
→ Second cesium absorption

Sequence of water treatment (coagulation settling and cesium absorption) can be switchable by valve operation

