Expansion of the green zone [regular uniform area]

April 26, 2018

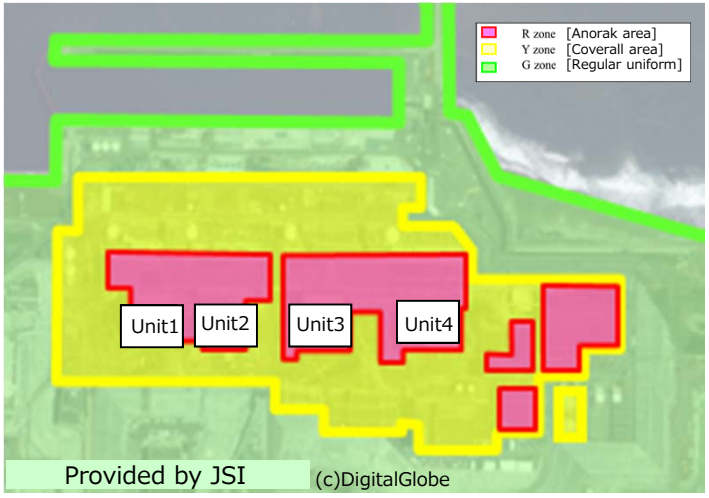
TEPCO

Tokyo Electric Power Company Holdings, Inc.

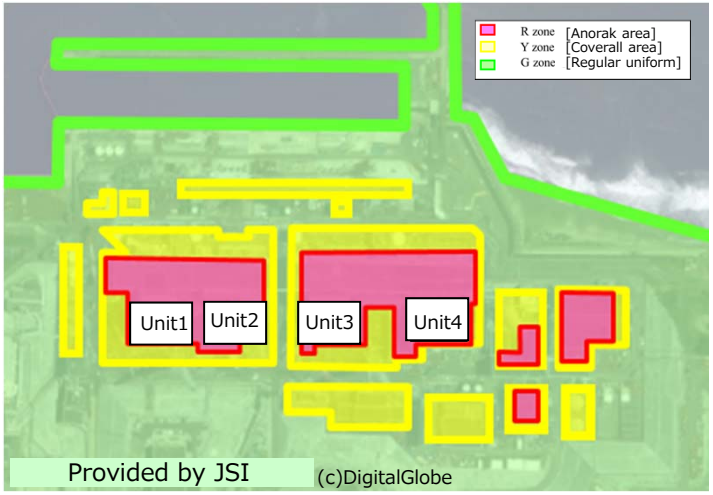
1．Outline

The designation of roads around Units 1-4 and some areas on the east side of the turbine buildings will be changed from Yellow Zones to Green Zones early in May in order to reduce the physical burden on workers and improve work efficiency. (This will result in expansion of the size of the Green Zone from approx. 95% to approx. 96% of the site. And this change will also mean that all roads on site will now be designated as Green Zones.)

Before this change, it was confirmed that the concentration of radioactive substances in the air was below the level requiring masks, and an additional continuous dust monitor has been installed to quickly detect any increases in the amount of radioactive substances in the dust.



【Before】

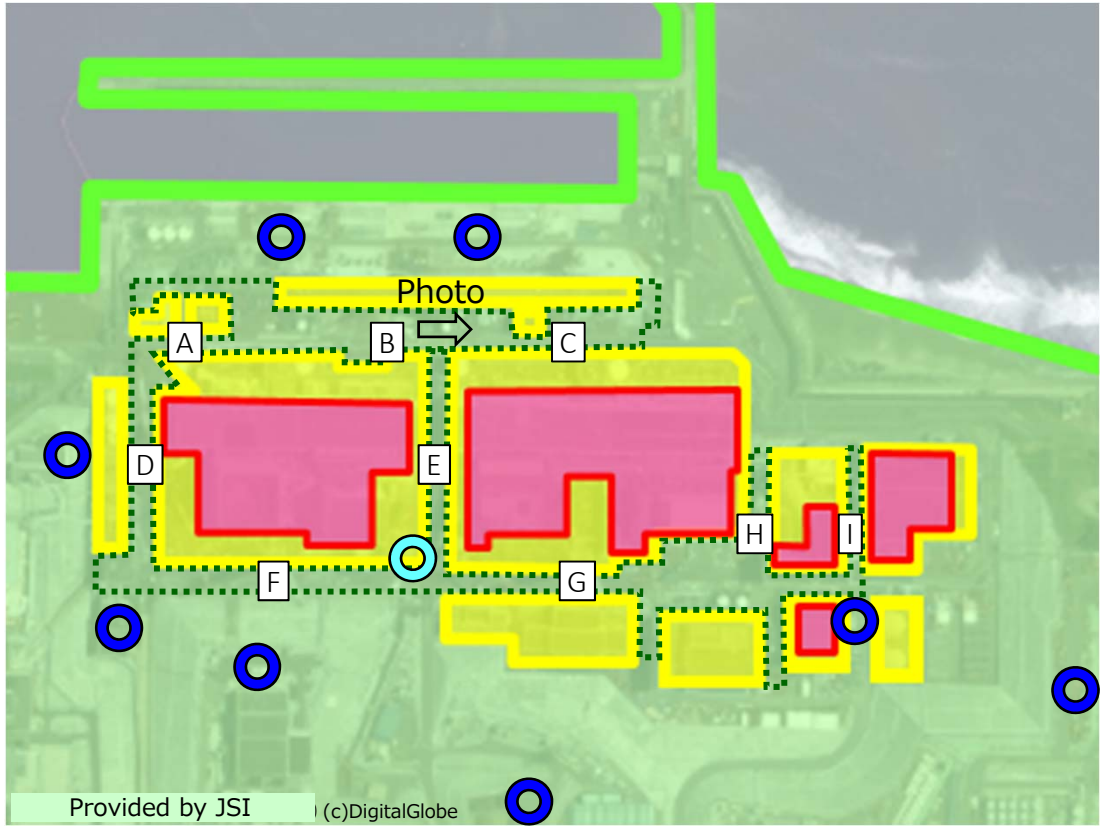


【After】

2 -1. Concentration of radioactive substances in the air ～measuring points～

The concentration of radioactive substances in the air was measured in the areas where zone designations were to be changed, including the roads around Units 1-4, by hand sampling and by using continuous dust monitors. (Measurement results are on the following pages.)

■ Measuring points



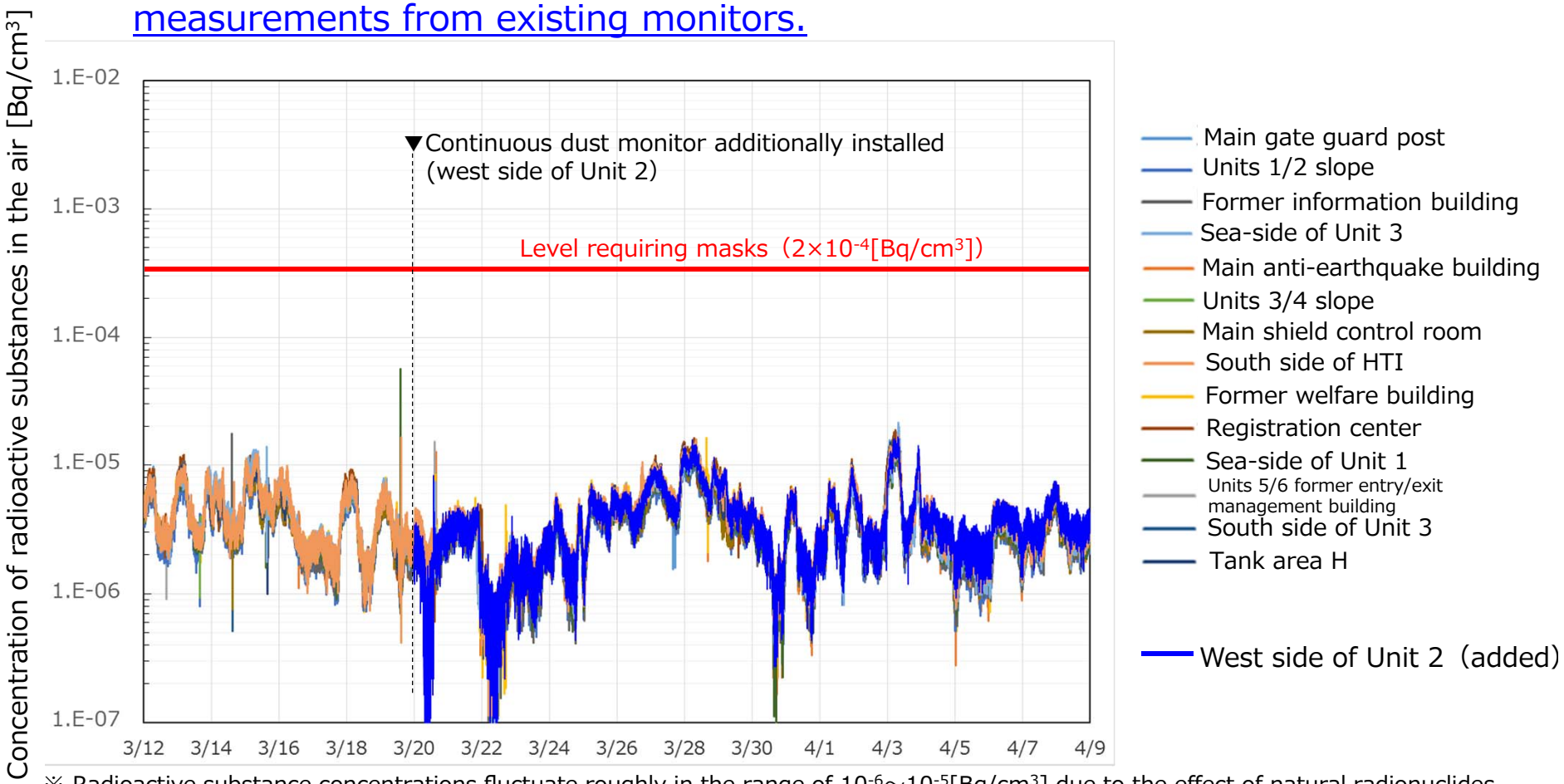
- R zone [Anorak area]
- Y zone [Coverall area]
- G zone [Regular uniform area]
- Area to be changed (Y zone → G zone)
- Continuous dust monitor [existing]
- Continuous dust monitor [additional]
- A Hand sampling points

Sea-side road of Unit 3

2-2. Concentration of radioactive substances in the air ～Continuous dust monitors～

■ Measurements from continuous dust monitors

- Continuous measurement on the west side of Unit 2 began on March 20.
- Measurements from the additional dust monitor confirmed that the concentration of radioactive substances in the air is below the level requiring masks (2×10^{-4}[Bq/cm^3]) and remains around 10^{-6}～10^{-5}[Bq/cm3]※ just like measurements from existing monitors.



※ Radioactive substance concentrations fluctuate roughly in the range of 10^{-6}～10^{-5}[Bq/cm^3] due to the effect of natural radionuclides

2-3. Concentration of radioactive substances in the air ～hand sampling～

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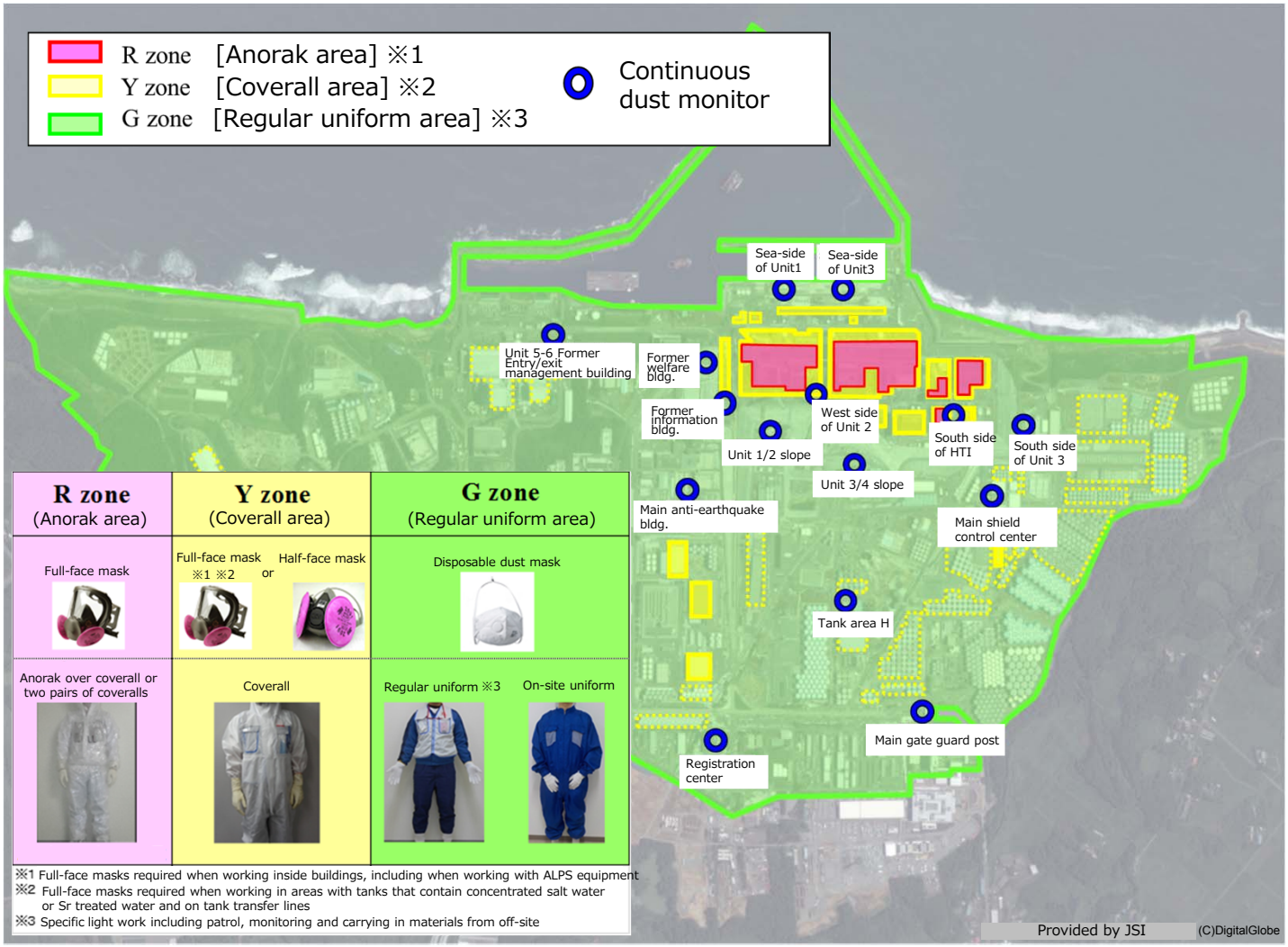
■ Measurements taken by hand sampling

➢ It was confirmed that the concentration of radioactive substances in the air is below the level requiring masks (2×10^{-4}[Bq/cm^3]) at all points.

Measuring points	Concentration of radioactive substances in the air [Bq/cm^3]		
	Cs-134	Cs-137	Total
A	$< 6.3\times10^{-7}$	$< 6.8\times10^{-7}$	Below detectable limit
B	7.4×10^{-7}	4.6×10^{-6}	5.3×10^{-6}
C	$< 6.3\times10^{-7}$	$< 5.8\times10^{-7}$	Below detectable limit
D	$< 7.9\times10^{-7}$	$< 7.1\times10^{-7}$	Below detectable limit
E	$< 8.0\times10^{-7}$	$< 6.8\times10^{-7}$	Below detectable limit
F	$< 8.3\times10^{-7}$	$< 8.8\times10^{-7}$	Below detectable limit
G	$< 7.2\times10^{-7}$	$< 7.1\times10^{-7}$	Below detectable limit
H	$< 7.3\times10^{-7}$	$< 7.5\times10^{-7}$	Below detectable limit
I	$< 7.2\times10^{-7}$	$< 6.6\times10^{-7}$	Below detectable limit

Reference: Updated zoning map



※1. Inside the Unit 1-3 reactor buildings, Unit 1-4 turbine buildings and buildings in the vicinity that contain accumulated water

※2. Y zones indicated with yellow dotted lines require that Y zone equipment be worn when workers are subjected to possible contamination, such as when handling concentrated salt water. When engaging in patrols or work planning surveys, G zone equipment may be worn in these areas. Similarly, when engaging in work in G zones that involves dust with high concentrations of radioactive substances (building dismantling, etc.) or concentrated salt water tank transfer lines, these areas will be temporarily designated as Y zones.

※3. Can be worn in G zones shown on the map and some parts of the 2nd and 3rd floors of the common pool building