# Comparison of the sum of the ratios to regulatory concentrations limits at ALPS inlet/outlet [Revised Version] 

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- For the 35 nuclides of the nuclides to be measured/assessed and monitored, the analytical results at the ALPS inlet (FY 2021) and ALPS outlet (K4, J1-C, J1-G) are reported based on the results of checking the sum of the ratios to regulatory concentrations limits in the classification in the table below. Note that in the calculation of the regulatory concentration limit ratio of $\alpha$-nuclides, the total- $\alpha$ value is divided by $4 \mathrm{~Bq} / \mathrm{L}$, which is the lowest regulatory concentration limit among the $\alpha$-nuclides selected.

*For J1-C and J1-G, the analysis and evaluation results for $\mathrm{Cl}-36$, $\mathrm{Se}-79$, $\mathrm{Ba}-133, \mathrm{Fe}-55, \mathrm{Nb}-93 \mathrm{~m}$, and $\mathrm{Mo}-93$ are not available, and the results from the additional ALPS outlet are used.
The Japanese version shall prevail.


## 2. Assessment results (comparison of the sum of the ratios to regulatory concentrations limits)

- The graph below shows the sum of the ratios to regulatory concentrations limits shown on page 1.



## 3. Evaluation results (ratio of ALPS treated water against discharge standards)

- For the 35 nuclides to be measured/assessed and monitored, shown on page 1, the ratio to the discharge standard (sum of the ratios to regulatory concentrations limits is less than 1) is described below.
- Each ALPS treated water has a margin of approximately 7.0E-01 to $9.08 .7 \mathrm{E}-01$ relative to the discharge standard.

- [1] Major 7 nuclides + C-14 + Tc-99
- [3] Nuclides subject to removal (other than shown on the left)
- [5] Other than the nuclides subject to removal (less measurements) (1)
[2] Alpha nuclide
- [4] Other than the nuclides subject to removal (more measurements)
$\square$ [6] Other than the nuclides subject to removal (less measurements) (2)

