

【Attachment】

Legally Required Concentration of Nuclides to be removed by ALPS (62 nuclides), C-14 and H-3

| Nuclides (half-life (approx.)) | Legally Required Concentration (Bq/L) | Nuclides (half-life (approx.)) | Legally Required Concentration (Bq/L) |
|---|--|---|--|
| Rb-86 (19 days) | 300 | Ce-141 (32 days) | 1,000 |
| Sr-89 (51 days) | 300 | Ce-144 (280 days) | 200 |
| Sr-90 (29 years) | 30 | Pr-144 (17 minutes) | 20,000 |
| Y-90 (64 hours) | 300 | Pr-144m (7 minutes) | 40,000 |
| Y-91 (59 days) | 300 | Pm-146 (6 years) | 900 |
| Nb-95 (35 days) | 1,000 | Pm-147 (3 years) | 3,000 |
| Tc-99 (210,000 years) | 1,000 | Pm-148 (5 days) | 300 |
| Ru-103 (40 days) | 1,000 | Pm-148m (41 days) | 500 |
| Ru-106 (370 days) | 100 | Sm-151 (87 years) | 8,000 |
| Rh-103m (56 minutes) | 200,000 | Eu-152 (13 years) | 600 |
| Rh-106 (30 seconds) | 300,000 | Eu-154 (9 years) | 400 |
| Ag-110m (250 days) | 300 | Eu-155 (5 years) | 3,000 |
| Cd-113m (15 years) | 40 | Gd-153 (240 days) | 3,000 |
| Cd-115m (45 days) | 300 | Tb-160 (72 days) | 500 |

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| Nuclides (half-life (approx.)) | Legally Required Concentration (Bq/L) | Nuclides (half-life (approx.)) | Legally Required Concentration (Bq/L) |
|-----------------------------------|--|-----------------------------------|--|
| Sn-119m (290 days) | 2,000 | Pu-238 (88 years) | 4 |
| Sn-123 (130 days) | 400 | Pu-239 (24,000 years) | 4 |
| Sn-126 (100,000 years) | 200 | Pu-240 (6,600 years) | 4 |
| Sb-124 (60 days) | 300 | Pu-241 (14 years) | 200 |
| Sb-125 (3 years) | 800 | Am-241 (430 years) | 5 |
| Te-123m (120 days) | 600 | Am-242m (150 years) | 5 |
| Te-125m (58 days) | 900 | Am-243 (7,400 years) | 5 |
| Te-127 (9 hours) | 5,000 | Cm-242 (160 days) | 60 |
| Te-127m (110 days) | 300 | Cm-243 (29 years) | 6 |
| Te-129 (70 minutes) | 10,000 | Cm-244 (18 years) | 7 |
| Te-129m (34 days) | 300 | Mn-54 (310 days) | 1,000 |
| I-129 (16,000,000 years) | 9 | Fe-59 (45 days) | 400 |
| Cs-134 (2 years) | 60 | Co-58 (71 days) | 1,000 |
| Cs-135 (3,000,000 years) | 600 | Co-60 (5 years) | 200 |
| Cs-136 (13 days) | 300 | Ni-63 (100 years) | 6,000 |

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| Nuclides (half-life (approx.)) | Legally Required Concentration (Bq/L) | Nuclides (half-life (approx.)) | Legally Required Concentration (Bq/L) |
|-----------------------------------|--|-----------------------------------|--|
| Cs-137 (30 years) | 90 | Zn-65 (240 days) | 200 |
| Ba-137m (3 minutes) | 800,000 | C-14 (5700 years) | 2000 |
| Ba-140 (13 days) | 300 | H-3 (12 years) | 60,000 |

Legally Required Concentration of Typical Nuclides in Liquid Waste discharged from NPP (other than 1F)

| Nuclides (half-life (approx.)) | Legally Required Concentration (Bq/L) | Nuclides (half-life (approx.)) | Legally Required Concentration (Bq/L) |
|-----------------------------------|--|-----------------------------------|--|
| Cr-51 (28 days) | 2000 | Sr-89 (51 days) | 300 |
| Mn-54 (310 days) | 1000 | Sr-90 (29 years) | 30 |
| Fe-59 (45 days) | 400 | Cs-134 (2 years) | 60 |
| Co-58 (71 days) | 1000 | Cs-137 (30 years) | 90 |
| Co-60 (5 years) | 200 | H-3 (12 years) | 60,000 |
| I-131 (8 days) | 40 | | |