Scan Action Limits (ALs): Rock Wool Insulation

Radionuclide	Waste Limit[a] (pCi/g)	Scan Action Level[b] (dpm/100 cm^2)
Cs-137	15.0	1,400
Co-60	5.0	480
Sr-90	1.0	95
Eu-152	1.0	95
Eu-154	1.0	95
Ag-108m	0.1	10

[a]Value from Table 1 in PG&E Letter HBL-10-003.

[b]Value based on mass-weighted density assuming 98% rock wool insulation and 2% asbestos-cement sheet. Value shown has been rounded down to 2 significant digits.

Relative Fractions[a]:

Radionuclide-of-Concern	Average (pCi/g)	Relative Fraction
Cs-137	7.96	0.9583
Co-60	0.35	0.0417

[a]Based on positive Cs-137 and Co-60 results for samples collected from Units 1 and 2, as reported in Table 4-7 in *Radiological Characterization Report, Humboldt Bay Power Plant* [ref ___].

The gross activity limit for scans was determined through the application of MARSSIM equation 4-4"

Gross activity scan limit = $1/\Sigma(f_1/limit_1 + f_2/limit_2 + \ldots f_n/limit_n)$

For the Cs-Co mix associated with the fuel oil system, the gross activity scan limit is:

Gross activity scan limit = $1/\Sigma(0.9583/1,400 + 0.0417/480)$ = 1,296 dpm/100cm^2

Scan ALs: Ventilation

Radionuclide	Waste Limit[a] (pCi/g)	Scan Action Level[b] (dpm/100 cm^2)
Cs-137	15.0	44,600
Co-60	5.0	14,800
Sr-90	1.0	2,900
Eu-152	1.0	2,900
Eu-154	1.0	2,900
Ag-108m	0.1	290

[a]Value from Table 1 in PG&E Letter HBL-10-003.

[b]Value based on density for aluminum. Value shown has been rounded down to 2 significant digits.

Relative Fractions[a]:

Radionuclide-of-Concern	Average (pCi/g)	Relative Fraction
Cs-137	7.96	0.9583
Co-60	0.35	0.0417

[a]Based on positive Cs-137 and Co-60 results for samples collected from Units 1 and 2, as reported in Table 4-7 in *Radiological Characterization Report, Humboldt Bay Power Plant* [ref ___].

The gross activity limit for scans was determined through the application of MARSSIM equation 4-4"

Gross activity scan limit = $1/\Sigma(f_1/limit_1 + f_2/limit_2 + \ldots f_n/limit_n)$

For the Cs-Co mix associated with the fuel oil system, the gross activity scan limit is:

Gross activity scan limit = $1/\Sigma(0.9583/44,600 + 0.0417/14,800) = 41,145$ dpm/100cm^2

Scan ALs: Steel

Radionuclide	Waste Limit[a] (pCi/g)	Scan Action Level[b] (dpm/100 cm^2)
Cs-137	15.0	130,000
Co-60	5.0	44,000
Sr-90	1.0	8,800
Eu-152	1.0	8,800
Eu-154	1.0	8,800
Ag-108m	0.1	880

[a]Value from Table 1 in PG&E Letter HBL-10-003.

[b]Value based on density of iron. Value shown has been rounded down to 2 significant digits.

Relative Fractions[a]:

Radionuclide-of-Concern	Average (pCi/g)	Relative Fraction
Cs-137	7.96	0.9583
Co-60	0.35	0.0417

[a]Based on positive Cs-137 and Co-60 results for samples collected from Units 1 and 2, as reported in Table 4-7 in *Radiological Characterization Report, Humboldt Bay Power Plant* [ref ____].

The gross activity limit for scans was determined through the application of MARSSIM equation 4-4"

Gross activity scan limit = $1/\Sigma(f_1/limit_1 + f_2/limit_2 + \ldots f_n/limit_n)$

For the Cs-Co mix associated with the fuel oil system, the gross activity scan limit is:

Gross activity scan limit = $1/\Sigma(0.9583/130,000 + 0.0417/44,000)$ = 120,169 dpm/100cm^2

Scan ALs: DAW

Radionuclide	Waste Limit[a] (pCi/g)	Scan Action Level[b] (dpm/100 cm^2)
Cs-137	15.0	14,000
Co-60	5.0	4,900
Sr-90	1.0	990
Eu-152	1.0	990
Eu-154	1.0	990
Ag-108m	0.1	90

[a]Value from Table 1 in PG&E Letter HBL-10-003.

[b]Value based on assigned density equal to 55 lbs per cubic foot (PG&E Letter HBL-10-0030. Value shown has been rounded down to 2 significant digits.

Relative Fractions[a]:

Radionuclide-of-Concern	Average (pCi/g)	Relative Fraction
Cs-137	7.96	0.9583
Co-60	0.35	0.0417

[a]Based on positive Cs-137 and Co-60 results for samples collected from Units 1 and 2, as reported in Table 4-7 in *Radiological Characterization Report, Humboldt Bay Power Plant* [ref ___].

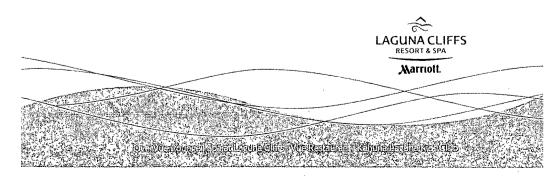The gross activity limit for scans was determined through the application of MARSSIM equation 4-4"

Gross activity scan limit = $1/\Sigma(f_1/limit_1 + f_2/limit_2 + \ldots f_n/limit_n)$

For the Cs-Co mix associated with the fuel oil system, the gross activity scan limit is:

Gross activity scan limit = $1/\Sigma(0.9583/14,000 + 0.0417/4,900) = 12,990$ dpm/100cm^2

What A Fool Believes
    Female Vocal (M People?)
    Dance Beat

✗ Update Zion Notebooks!

    License & TS Pages

    Binder Spines (Zion Solutions!)

50.65(a)(4) Maint Rule

Fine to be addressed later

△ Does 50.65(a)(4) apply to decon reactors?

What is Halon?

$140 k for 6k #s

Why use Halon?