

NOTE: a) The tritium release total, which includes direct + migration releases, is used in the dose calculations for SRS impacts.

NOTE: b) Depending on which value is higher, the Cs-137 release total is based on concentrations measured in RM 118.8 fish or on the actual measured effluent release total from the site. Refer to chapter 6 (Dose) for more information.

NOTE: c,d) For dose calculations, unidentified alpha and beta/gamma releases are assumed to be Pu-239 and Sr-90, respectively.

Data Table 4–5 Radioactive Liquid Releases by Source

Sample Measurement Section

2014 Radioactive Liquid Releases by Source: Units are Curies

Nuclide	Half-Life	Reactor Areas C,K,L,P,R	Separations Areas F,H,S,Z, Tritium	SRNL Area A	Totals
H-3 ^a	12.35y	2.12E+02	4.89E+02	0.00E+00	7.01E+02
C-14	5730y		6.40E-03		6.40E-03
Sr-90	29.12y		5.36E-02		5.36E-02
Tc-99	2.13E5y		2.64E-02		2.64E-02
I-129	1.57E7y		2.45E-02		2.45E-02
Cs-137 ^b	30.0y		5.09E-02	0.00E+00	5.09E-02
U-234	2.445E5y		7.22E-02	2.95E-05	7.22E-02
U-235	703.8E6y		3.65E-03	1.56E-06	3.65E-03
U-238	4.468E9y		8.44E-02	1.96E-05	8.45E-02
Np-237	2.14E6y		5.97E-06		5.97E-06
Pu-238	87.74y		3.62E-04	2.91E-06	3.65E-04
Pu-239	24065y		1.56E-04	0.00E+00	1.56E-04
Am-241	432.2y		3.36E-03		3.36E-03
Cm-244	18.11y		4.83E-04		4.83E-04
Alpha ^c	N/A	9.24E-05	3.14E-03	3.26E-04	3.56E-03
Beta-Gamma ^d	N/A	2.15E-02	6.81E-03	3.64E-04	2.87E-02