

TABLE IV-5

Chemical Composition of Reconstituted SRP
High-Level Waste

Constituent	Molar	<u>Concentration</u> g/L
NaNO ₃	2.2	187
NaNO ₂	1.1	76
NaAl(OH) ₄	0.5	59
NaOH	0.75	30
Na ₂ CO ₃	0.3	32
Na ₂ SO ₄	0.3	43
Fe(OH) ₃	0.07	7.5
MnO ₂	0.02	1.7
Hg(OH) ₂	0.002	0.5
Other Solids	0.13 ^a	7.8

^a. Assuming an average molecular weight of 60.

TABLE IV-6

Radionuclide Content of Reconstituted SRP
High-Level Waste (1985)

Radionuclide	Activity, Ci/gal	Total Activity, Ci
⁹⁰ Sr	2.1	1.3×10^8
¹³⁷ Cs	2.2	1.3×10^8
¹⁴⁷ Pm	0.77	4.6×10^7
¹⁴⁴ Ce- ¹⁴⁴ Pr	0.19	1.1×10^7
¹⁵¹ Sm	0.07	4.2×10^6
¹⁰⁶ Ru- ¹⁰⁶ Rh	0.03	1.8×10^6
²³⁸ Pu	0.01	6.0×10^5
²⁴¹ Am	0.001	6.0×10^4
²⁴⁴ Cm	0.001	6.0×10^4
²³⁹ Pu	0.0004	2.4×10^4