

TABLE II-6

## Range of Chemical Compositions of High-Level Liquid Wastes

<i>Constituent</i>	<i>Concentration</i>
Supernate	
NaNO <sub>3</sub> , NaNO <sub>2</sub>	3 to 6M
Na <sub>2</sub> CO <sub>3</sub>	0.1 to 0.3M
Na <sub>2</sub> SO <sub>4</sub>	0.02 to 0.2M
NaOH	1 to 6M
NaAl(OH) <sub>4</sub>	0.4 to 1.0M
Sludges <sup>a</sup>	
MnO <sub>2</sub>	Principal constituents of sludge
Fe(OH) <sub>3</sub>	

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a. Settled volume ~10% of supernate volume.

TABLE II-7

## Properties of Aged High-Level Liquid Wastes

Supernates	
Specific Gravity	1.2-1.4
Viscosity	~2 centipoises
Heat Generation, % of Total	50%
Sludges	
Specific Gravity	1.5-1.8
Viscosity	Very high
Heat Generation, % of Total	50%
Volume of Sludge	~10% that of supernate
Crystallized Salt	
Specific Gravity	1.8-2.1