

**SECTION J**  
**APPENDIX N - TREATMENT SYSTEMS COMPONENTS**

Joule-Heated Vitrifiers

Two Joule-heated vitrification melters are provided in BNFL's AMWTP facility. Output from the vitrifiers is a stabilized glass product.

Thermal Desorber

One thermal desorption unit is provided to destroy organic wastes by reaction with oxygen in a heated environment. The heat source provided by the desorber is transmitted indirectly to the waste.

Emissions Control System (Off-Gas Secondary Combustion)

The off-gas system contains an Emissions Control System. The Emission Controls System destroys organics in the off-gas system by direct heating them in an oxygen rich environment for a minimum residence time of two seconds

Encapsulation

A macro encapsulation system is provided to stabilize metal waste using the EPA Debris Rule. Metal waste contained in product containers will have their interstitial space filled with a cement-based product