



Sandy Ridge – Waste emplacement

Applying the Waste Acceptance Criteria (see *Waste Acceptance Criteria Fact Sheet*) would result in a set of wastes that can be placed in a cell for permanent isolation. The application of the criteria in effect limits the hazardous properties and physical form of the wastes.

When analysing waste for acceptance, it is essential to ensure that wastes which may react with each other are identified and classified into compatible groups

Following acceptance, wastes would be segregated into zones to ensure wastes that have the potential to react together are kept apart.

As well as segregating wastes during initial receipt and storage, accepted wastes must be physically separated during permanent isolation. The waste would be appropriately zoned.

Zone selection would be based on a standard of principles. The methodology for zoning would follow the Waste Zoning Guide.

Waste placement at Sandy Ridge will normally occur as individual packages which are transported into the cell, and placed package by package in the assigned zones within the cells. In certain situations, bulk placement of wastes may be utilised when it has been determined as appropriate to do so by a suitably qualified person(s).

Sealed source (low level radioactive waste) would be placed in a concrete filled steel drum, which would then be lowered into these concrete shafts, and sealed with yet another layer of concrete (see image below).

