

Offsite Waste Budget Estimate Summary

Background:

Recently the decision was made to transport DOE waste from various non-Idaho National Laboratory (INL) waste generator sites into the INL for characterization, treatment (as necessary), certification and transport to the Waste Isolation Pilot Plant (WIPP). The Advanced Mixed Waste Treatment Project (AMWTP) will be the primary INL facility that will process this waste from the various other facilities. The cost associated with the management of this waste is largely dependent on the specific wastes streams and how they will be processed by the AMWTP. For example, some waste streams will not require treatment by the AMWTP supercompactor and therefore will only require receipt, characterization, validation and certification prior to shipment to WIPP. Other waste streams will require supercompaction in the AMWTP Treatment Facility either by direct import to the supercomapactor or via the Treatment Facility boxlines.

The initial assumption by the AMWTP is that offsite waste will arrive at no more than three shipments per week. At these processing rates, many of the necessary activities for processing of off-site waste will be covered within the existing capacity of the current AMWTP capacities. For example, the labor associated with characterization, treatment and shipping to WIPP is assumed to be within the AMWTP existing capacity and should not require additional funding beyond normal production needs. However, some processing activities will require incremental funding beyond the AMWTP baseline. Examples of these incremental activities are waste stream approval, unloading of HalfPACTs, the consumables needed for supercompaction and the disposal of secondary LLW.

The following data represents the estimate of the “incremental” costs that are expected to be borne by the generator site as well as the “absorbed” costs that are expected to be borne by the AMWTP baseline funding. These values assume no more than three inbound shipments per week (12 83-gallon drums/shipment). In addition, these containers are assumed to require treatment via supercompaction. This scenario equates to a value 600 m³/year that can be processed without additional increases in shift staffing to increase overall capacity.

Absorbed Cost by AMWTP = \$11,202/m³

Incremental Cost borne by Generator Site = \$ 5,732/m³

If the rate of off-site waste receipt increases beyond three shipments per week, additional funding beyond these values will be necessary to support increased labor and staffing.