

Outline for Preparing Closure Cost Estimate for Financial Assurance for Type V Municipal Solid Waste Processing Facility

1. All estimates are to be prepared by a Licensed Professional Engineer in the State of Texas. Estimates should be in the form of a spreadsheet and should indicate the item description, unit measure, the unit cost, number of units, and the total cost for the particular item. In the case of lump sums, the description of items should be clear in order to verify the lump sum cost.
2. The estimate should account for a scenario in which:
 - A. The volume of waste is stored on site is at its maximum;
 - B. Processing equipment on site will not be utilized;
 - C. Cleanup of site and removal of waste will be complete.
3. All estimates should reflect the cost of work performed by an independent third party contractor administered by TCEQ.
4. Facility Closure Elements for the Type V Processing Facility.
 - A. State Administration of Site Closure.
 1. Survey site and review file to determine closure activities.
 2. Prepare Engineering plans and bid documents.
 3. Procurement of bids.
 4. Contract award and administration of contract.
 - B. Partial or full dismantling of process unit(s) including cleanup and decommission (equipment should be rendered unusable) of process equipment/facility.
 - C. General cleanup of the site and process unit(s).
 1. Cleanup/removal of waste stored on site.
 2. Transport of waste by a properly authorized transporter.
 3. Treatment and/or disposal of waste at a properly authorized facility.
 4. General Cleanup to include wash down and disinfection of facility (floors, walls, containment areas, processing areas). To include removal, transport, treatment, and disposal of all wash down waters/media.
 5. Removal, treatment, and disposal of any contaminated soils, concrete, storm water, or other contaminated materials on site.
 6. Vector control procedures must be provided.
 - D. Installation of a sign stating that the facility is closed and securing all buildings and access gates by use of padlocks and/or additional fencing.
 - E. Certification of abandonment and completion of cleanup.
 1. Sampling/testing/classification of waste (ash, liquids, sludge, other waste not readily identifiable as garbage, trash, refuse). To include lab reports, chain of custody, quality assurance and quality control.
 2. Perform site inspection and prepare certification of closure.
 - F. Contingency cost (15-20 percent recommended).