

Solid Waste Facilities

Attachment L: Determination of Need Information

Please complete this form in accordance with the *Instructions for Completing a Permit Application for Construction and Operation of a Solid Waste Facility* (DEP-SW-INST-100). This form must be submitted with the *Permit Application for Construction and Operation of a Solid Waste Facility* (DEP-SW-APP-100). Complete Part I of this form, if you are constructing or expanding a Resource Recovery Facility (RRF) or a Mixed Municipal Solid Waste (MSW) Composting Facility; complete Part II of this form if you are constructing a Disposal Area for ash residue generated by a RRF; complete Part III of this form if you are constructing a Disposal Area for mixed MSW. Print legibly or type. Attach additional sheets if necessary.

The DEP reserves the right to request any other information deemed pertinent.

Applicant Name:
(As indicated on the *Permit Application Transmittal Form*)

Identify solid waste facility type (check one):

- ☐ RRF (Complete Part I)
- ☐ MSW Composting Facility (Complete Part I)
- ☐ Disposal Area for ash residue generated by a RRF (Complete Part II)
- ☐ Disposal Area for mixed MSW (Complete Part III)

Part I: RRF or MSW Composting Facility

Section A: Capacities

1. Identify the processing capacity (tons/day) for the proposed new or expanded facility. The processing capacity is the maximum amount the proposed new or expanded facility is designed to process if all systems are operating at 100% capacity. Please refer to Part V: Facility Information, question 2(b) of the *Permit Application for Construction and Operation of a Solid Waste Facility* DEP-SW-APP-100:
2. Identify the guaranteed operating capacity for the proposed new facility or expanded facility, i.e., the number of tons per year that the owner or operator of the proposed new facility or expanded facility will guarantee to accept under long term (at least five year) contracts.
3. Explain the difference between processing capacity and the guaranteed operating capacity, if any.

Part I: RRF or MSW Composting Facility (continued)

Section B: Waste Generation

List the name, address and phone # of each municipality and all other customers that will send waste to the facility; estimate and identify the amount (tons/year) of mixed MSW that will be separated for recycling prior to disposal at this facility and the amount of mixed MSW that will be received at this facility as evidenced by contracts or letters of intent. Include the methodology used to arrive at the estimates. Also include the name, address and phone # of any current disposal facility presently receiving mixed MSW from each municipality or other customer intending to use this facility.

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Name and Address and Phone # of Municipality or Other Customer Sending Waste to the Facility	Amount of Recycled Waste (tons/year)	Amount of Waste to Proposed Facility (tons/year)	Methodology Used to Determine the Estimate	Name, Address & Phone # of Facility Presently Receiving Waste

Part I: RRF or MSW Composting Facility (continued)

Section C: Projected Changes in Waste Generation

1. For each municipality or other customer that will send waste to this facility, describe anticipated changes over the facility's design life in the amount of mixed MSW generated and in the amount of mixed MSW that will be processed at this facility due to the following projected changes:

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Name of Municipality or Customer:

Projected Population Changes:

Projected Changes in waste generation rate (pounds/capita/year):

Source Reduction Programs (include a description of each program):

Projected Changes in Recycling Rate:

Projected Changes in Economic Climate:

Projected Industrial and Commercial Development:

Other Significant Factors:

Part I: RRF or MSW Composting Facility (continued)

2. Estimate the change in the rate (tons/year) of MSW that will be processed at this facility due to factors described in Section C (1):

Municipality/Customer	Change in Amount Processed at Facility From Start-Up (tons/year)			
	Five Years	Ten Years	Fifteen Years	Twenty Years

Section D: Operational Information

1. Material Recycled

- a. Estimate the amount (in tons/year and annual average percent by weight of incoming MSW) of mixed MSW anticipated to be received at the proposed facility which will be separated for recycling either prior to combustion or composting (pre-combustion or pre-composting) and for a RRF, after combustion has occurred (post-combustion).

Recyclables Separated from MSW Received Pre-Combustion or Pre-Composting		Recyclables Separated Post-Combustion from RRF	
Tons/Year	Annual Average % by Weight	Tons/Year	Annual Average % by Weight

- b. List the name, address and phone # of the recycling facilities which will receive the recyclable materials which will have been separated at the proposed facility.

Recyclable Material Separated	Recycling Facility Name, Address and Phone #

Part I: RRF or MSW Composting Facility (continued)

2. Waste Which Will Require Disposal

Estimate the amount (in tons/year and annual average percent by weight and volume) of mixed MSW anticipated to be received at the proposed RRF or the mixed MSW composting facility that will require disposal before processing has begun (i.e., diversion); or once processing has begun but before combustion (i.e. process residue); or once composting has begun (i.e., the material must be disposed before composting process is completed); or after the composting process or combustion process has been completed (i.e., post-combustion or post-composting), including ash residue.

Estimated Amount of Waste Received Which Will be Diverted (Received but Not Processed)		Estimated Amount of Waste Received Undergoing Composting Process Which Will Require Disposal Before Composting is Complete or Before Combustion (Process residue)		Estimated Amount of Waste Received Which Will Require Disposal Post-Composting or Post-Combustion		
<i>Tons/Year</i>	<i>Annual Avg % by Weight</i>	<i>Tons/Year</i>	<i>Annual Avg % by Weight</i>	<i>Tons/Year</i>	<i>Annual Avg %</i>	
					<i>By Weight</i>	<i>By Volume</i>
a. Identify the reason for any diversion: b. Identify the reason for any disposal that might be required before composting process is completed: c. Identify the reason for any process residue: d. Identify the reason for disposal post-composting or post combustion:						

- e. List the name, address and phone # and identify the permit status of the disposal facilities which will receive the waste identified in question 2.

Type of Waste Requiring Disposal	Name, Address and Phone # of Facility Receiving Waste	Permit Status of Facility Receiving Waste

Part I: RRF or MSW Composting Facility (continued)

3. List the name, address and phone # of markets which have agreed by contract to accept for a use, other than disposal or incineration, the compost produced by the proposed or expanded mixed MSW composting facility and state the length (duration) of such contracts. (Attach copies of contracts to this sheet.)

Name, Address and Phone # of Market Contracted to Accept Finished Compost (not for disposal or incineration)	Duration of Contract	End Use of Compost

4. State a contingency plan, including other sources and other wastes, for use of capacity should throughput decline by 10% or more from the guaranteed operating capacity stated in this application.

Part I: RRF or MSW Composting Facility (continued)

5. State a contingency plan, including the name and address and permit status of alternate processing or disposal facilities which will accept by-pass waste should throughput increase by 10% or more from the guaranteed operating capacity stated in this application.

6. Provide an analysis of reasonable levels of reserve processing capacity for seasonal peaks and outages.

Part I: RRF or MSW Composting Facility (continued)

7. Discuss the capability of the applicant to complete the project. (If this issue was addressed in other sections of this application, refer to the relevant section.)

8. Discuss the technical feasibility of the facility. (If this issue was addressed in other sections of this application, refer to the relevant section.)

Part I: RRF or MSW Composting Facility (continued)

9. Provide a demonstration that the guaranteed operating capacity of the proposed new facility or proposed expanded facility, when combined with the guaranteed operating capacity of all other resources recovery facilities with permits to construct, existing RRF's with construction permits to expand and mixed MSW composting facilities, shall not exceed the total guaranteed operating capacity of resources recovery facilities and mixed MSW composting facilities needed to process waste generated in Connecticut as set forth in Connecticut's Solid Waste Management Plan.

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Part II: Disposal Area for Ash Residue Generated by RRF

1. Identify the site capacity of the disposal area (the maximum amount in tons and cubic yards the proposed facility is designed to accept over the lifetime of the facility). Please refer to Part V: Facility Information, question 1 of the permit application form (DEP-SW-APP-100). 2. Identify the estimated rate of fill (tons/year and cubic yards/year) for the proposed facility: a. Description of methodology used to determine estimated rate of fill:			
3. List the name, address and phone # of all RRF to be served by the disposal area; their processing capacity; the estimated rate (tons/year) at which their ash will be disposed of at the proposed facility; and the name, address and phone # of any disposal facility presently receiving ash residue from each RRF.			
Name, Address & Phone # of RRF	RRF Processing Capacity	Ash from RRF to be Disposed at Facility (tons/year)	Name, Address, & Phone # of Facility Presently Receiving Ash from this RRF

Part II: Disposal Area for Ash Residue Generated by RRF (continued)

4. Identify other in-state disposal areas that have obtained all necessary permits to construct and their available ash residue capacity. ☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Facility Name, Address and Phone #	Available Capacity

5. Identify the transportation system needed to serve the disposal area. (If this issue was addressed in other sections of this application refer to the relevant section.)

Part II: Disposal Area for Ash Residue Generated by RRF (continued)

6. Provide a demonstration that the site capacity of the proposed disposal area for ash residue when combined with the site capacity of all other disposal areas for ash residue with permits to construct, shall not exceed the total site capacity of disposal areas for ash residue needed to process ash residue generated by RRF's in Connecticut as set forth in Connecticut's Solid Waste Management Plan.

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Part III: Disposal Area for Mixed MSW

1. Identify the site capacity (the maximum amount in tons and cubic yards the proposed facility is designed to accept over the lifetime of the facility) of the proposed mixed MSW disposal area. Please refer to Part V : Facility Information, question 1 of the permit application form (DEP-SW-APP-100).
2. List the name, address and phone # of each municipality and all other customers that will send waste to the facility; the estimated amount (tons/year) of mixed MSW that will be disposed at the proposed facility; a description of the methodology used to determine those estimates; and the name, address and phone # of any disposal facility presently receiving mixed MSW from that municipality or other customer.

Name, Address and Phone # of Municipality or Other Customer Sending Waste to the Facility	Estimated Amount of Waste to the Proposed Facility (tons/year)	Methodology Used to Determine the Estimate	Name, Address and Phone # of Facility Presently Receiving Waste

Part III: Disposal Area for Mixed MSW

3. Identify other in-state disposal areas that have obtained all necessary permits to construct and their available mixed MSW disposal capacity.

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Facility Name, Address, and Phone #	Available Capacity
TOTAL:	

4. Identify the transportation system needed to serve the disposal area. (If this issue was addressed in other sections of the application refer to the relevant section.)

Part III: Disposal Area for Mixed MSW

5. Provide a demonstration that the site capacity of the proposed disposal area for mixed MSW when combined with the disposal capacity of all Connecticut MSW disposal and processing facilities that have obtained all necessary permits to construct, shall not exceed the disposal capacity needed to process waste generated in Connecticut as set forth in Connecticut's Solid Waste Management Plan.

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.