I. Intent

The intent of these specifications is to establish a subcontract to provide roll-off and front loader refuse collection services to all present and future NREL facilities in the Denver/Boulder metropolitan area.

The Subcontract will be an agreement between the Subcontractor and the National Renewable Energy Laboratory, hereinafter referred to as the Subcontractor and NREL, respectively. As currently configured, the services will be provided to the facilities as shown in locations identified by the Technical Monitor. Additional facilities may be added to or deleted by negotiation and modification at later dates.

II. Scope of Service

The Subcontractor will provide all labor, tools, equipment, materials, and incidentals required or implied for complete and satisfactory trash disposal and reporting as described below. The Subcontractor will be responsible for all permits and fees.

NREL makes no guarantees of minimum quantities of solid waste to be discarded from individual facilities.

The Subcontractor must provide the following:

- List of acceptable and unacceptable trash items (updated as criteria change)
- Copy of the permits for all disposal facilities used before sending material there.

The Subcontractor must keep all equipment in good operating condition at all times. Engine oil and hydraulic fluid leaks must be repaired as soon as practicable.

A. Trash Service

The Subcontractor shall provide the trash containers listed in Exhibit "B" and service the facilities listed in Exhibit "A." Prices for trash service shall be as proposed on pricing sheet for base year with four one-year renewal options.

The Subcontractor shall leave the pickup areas free of any debris or trash. Trash containers are to be placed back in their designated areas after each pick-up. If NREL needs to notify the Subcontractor for a trash pickup because of excess trash generation, the Subcontractor shall respond and pick-up the material within 48 hours.

If NREL asks for a container to be removed, changed, or added at a new facility or for pickup frequency to be decreased or increased, the price for service shall be prorated on a per yard basis. For example, if a facility has two 6-yard bins on a twice a week schedule, and NREL reduces it to once a week, the price for service at the facility shall decrease 50 percent.
The Subcontractor shall charge the standard amount per cubic yard per occurrence for additional lifts ordered by NREL.

The Subcontractor shall provide the 30 cu/yd compactor as specified in the container specification list. NREL shall supply the support structure and power to the compactor site.

B. Trash Containers Required.

The Subcontractor shall furnish the collection containers listed in the container specification list upon service start date. Containers shall be maintained in first-rate condition, shall be kept clean, neat in appearance, and aesthetically pleasing. Container specifications must be approved by NREL.

C. Identification, Bonded Employees, Background check, Approvals Required

Employees of the Subcontractor or its lower tier subcontractors must have adequate identification, provided by the Subcontractor, at all times. The Subcontractor employees shall be bonded.

All personnel used by the Subcontractor for the performance of this work shall be properly trained and qualified for work of this type.

Lower Tier Subcontractors - NREL shall retain the right to approve (or reject) any lower tier subcontractors. The Subcontractor must provide adequate notice to NREL of any proposed changes in lower tier subcontractors so NREL will have adequate time to review and approve the proposed new enterprise. This advance approval applies equally, whether the proposed lower tier subcontractor or consultant is a corporation, a partnership, an individual, or some other type of entity.

NREL shall retain the right to approve disposal sites and landfill facilities used by the Subcontractor for dumping of NREL’s trash and/or other products being disposed. The Subcontractor must provide adequate notice to NREL of any proposed changes in disposal sites or landfill facilities so NREL will have adequate time to review and approve the proposed new operation site.

Personnel authorized to place additional trash pick up requests shall be provided in a separate list.

D. Deliverables

1. **Permits**--NREL requires copies of permits for all disposal facilities used before sending the material the facilities.

2. **Containers**--The Subcontractor supplies all containers specified in Exhibit B.

3. **Monthly Reports**--Minimum data required to be submitted to NREL in writing each Month:
   a. Dates and times of all pick ups
   b. Number and location(s) of containers provided on request
   c. Number of additional unscheduled trash pick ups requested by NREL by location
   d. Pick up charges
   e. Other reporting (monthly)
      - Trash pickup schedule(s) with any changes highlighted
      - Refuse weight of all roll-off containers
4. **Quarterly Reporting**

   a. Copy of any new or renewed permits obtained during the quarter (Disposal facility permit copies must be delivered to and accepted by NREL before the use of the disposal facility)

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**Exhibit A**

**Locations**

- **Trash Pick-Up:**
  
  Science & Technology Facility (S&TF)  
  15253 Denver West Parkway  
  Golden, Co 80401

  Energy Systems Integration Facility (ESIF)  
  15257 Denver West Pkwy.  
  Golden, CO 80401

  Research Support Facility  
  15301 Denver West Pkwy.  
  Golden, CO 80401

  Visitor Parking – RSF  
  15301 Denver West Pkwy.  
  Golden, CO 80401

  Café  
  15305 Denver West Parkway  
  Golden, CO 80401

  Solar Energy Research Facility  
  15313 Denver West Parkway  
  Golden, CO 80401

  Southwest Parking lot  
  15353 Denver West Parkway  
  Golden, CO 80401

  Field Test Laboratory Building (FTLB)  
  15523 Denver West Parkway  
  Golden, CO 80401

  Outdoor Test Facility (OTF)
15883 Denver West Parkway
Golden, CO 80401

Thermal Test Facility (TTF)
15973 Denver West Parkway
Golden, CO 80401

Integrated Bio Refinery Facility (IBRF)
16173 Denver West Parkway
Golden, CO 80401

Shipping/Receiving
16253 Denver West Parkway
Golden, CO 80401

Bulk Storage
16273 Denver West Parkway
Golden, CO 80401

South Table Mesa Site (SRRL)
2054 Quaker Street
Golden, CO 80401

OFFSITE

National Wind Technology Center (NWTC)
18200 Highway 128
Golden, Co 80403

Joyce Street Facility (JSF)
6800 Joyce Street
Arvada, CO 80004

Refuel Storage Facility (RTD)
1980 31st Street Unit 3
Denver, CO 80216


**Exhibit B**

### Roll Off Container Specifications

- **Trash Containers**

<table>
<thead>
<tr>
<th>Size</th>
<th>Quantity</th>
<th>Location</th>
<th>Service Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 cu. yd. roll off</td>
<td>1</td>
<td>NWTC</td>
<td>Biweekly or as requested by NREL.</td>
</tr>
<tr>
<td>30 cu. yd. compactor</td>
<td>1</td>
<td>SERF</td>
<td>Biweekly or as requested by NREL.</td>
</tr>
<tr>
<td>30 cu. yd. roll off</td>
<td>1</td>
<td>JSF</td>
<td>Biweekly or as requested by NREL.</td>
</tr>
<tr>
<td>20 cu. yd. compactor</td>
<td>1</td>
<td>FTLB (NREL Owned)</td>
<td>Biweekly or as requested by NREL.</td>
</tr>
<tr>
<td>15 cu. yd. roll off</td>
<td>1</td>
<td>Bulk Storage</td>
<td>Weekly</td>
</tr>
<tr>
<td>30 cu. yd. compactor</td>
<td>1</td>
<td>S&amp;TF</td>
<td>Biweekly or as requested by NREL.</td>
</tr>
<tr>
<td>40 cu. yd. receiver container</td>
<td>1</td>
<td>RSF (NREL Owned)</td>
<td>Biweekly or as requested by NREL.</td>
</tr>
<tr>
<td>40 cu. yd. receiver container (New)</td>
<td>1</td>
<td>ESIF (NREL Owned)</td>
<td>Biweekly or as requested by NREL.</td>
</tr>
</tbody>
</table>
**Front Loader Container Specifications**

- Trash Containers

<table>
<thead>
<tr>
<th>Size</th>
<th>Quantity</th>
<th>Location</th>
<th>Service Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 cu. yd.</td>
<td>1</td>
<td>SERF Road (East of OTF)</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>4 cu. yd.</td>
<td>1</td>
<td>TTF north east Side Parking Lot</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>4 cu. yd.</td>
<td>1</td>
<td>Mesa Top/SRRL</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>3 cu. yd.</td>
<td>1</td>
<td>Café</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>4 cu. yd.</td>
<td>1</td>
<td>IBRF/ North East corner</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>4 cu. yd.</td>
<td>1</td>
<td>IBRF/ South West driveway</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>6 cu. yd.</td>
<td>3</td>
<td>NWTC</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>6 cu. yd.</td>
<td>1</td>
<td>Refuel Storage Facility</td>
<td>Biweekly or as requested by NREL.</td>
</tr>
<tr>
<td>2 cu. yd.</td>
<td>1</td>
<td>Visitor Parking - RSF</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>2 cu. yd.</td>
<td>1</td>
<td>Southwest lot</td>
<td>1 x Weekly</td>
</tr>
<tr>
<td>3 cu. yd.</td>
<td>1</td>
<td>Shipping &amp; Receiving</td>
<td>1 x Weekly</td>
</tr>
</tbody>
</table>