

United States Department of Agriculture

Natural Resources Conservation Service
339 Busch's Frontage Road, Suite 301
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STATEMENT OF WORK Waste Gasification Facility, Interim (735) Maryland

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
 - a. Practice purpose(s) as identified in the conservation plan.
 - b. List of required permits to be obtained by the client.
 - c. Practice standard criteria related computations and analyses to develop drawings, plans, and specifications including but not limited to:
 - i. Objectives and outcomes of implementation
 - ii. Feedstock requirements and waste load projections
 - iii. Process diagram showing pre-processing and post-processing requirements, unit process volumes, and volumetric flow rates
 - iv. Structural, mechanical and appurtenance design
 - v. Expected system performance
 - vi. Annual operating costs where appropriate
 - vii. Quantities and fate of any byproducts including projected air emissions and projected nutrient fate
 - viii. Control system requirements
 - ix. Process monitoring requirements
 - x. Safety considerations (NEM Part 503-Safety, Subpart A, 503.10 through 503.12)
2. Written plans and specifications including sketches and drawings as necessary shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
3. Design report and inspection plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
4. Detailed operation and maintenance requirements including such things as loading rates, O&M manuals for specific components, start-up procedures, trouble shooting guide(s), and monitoring and reporting plans
5. Certification that the design meet practice standard criteria and complies with applicable laws and regulations (NEM Subpart A, 505.3)
6. Documentation of design modifications during instillation.

INSTALLATION

Deliverables

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout of components as shown on the drawings. Includes layout notes as appropriate.
4. Instillation inspection (according to inspection plan as appropriate)
 - a. Actual materials used (Part 512, Subpart D Quality Assurance Activities, 512.33)
 - b. Inspection records such as notes, photographs, etc.
5. Facilitate and implement required facility design modifications with client and system provider.
6. Certification that the installation process and materials meets design and permit requirements.
7. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.

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CHECK OUT

Deliverables

1. As-built documentation including as-built drawings and final quantities
2. Start-up data showing facility or process is working as intended
3. Certification that the facility or process meets NRCS standards and design specifications and is in compliance with permits (NEM Subpart A, 505.3 (c) (1)).
4. Test results and interpretations as required

REFERENCES

- NRCS Interim Conservation Practice Standard – Waste Gasification Facility, Code 735 and other related practices
- NRCS National engineering Manual (NEM)
- NRCS National Environmental Compliance Handbook
- NRCS Agricultural Waste Management Field Handbook, 210-VI-NEH 651