

May 27, 2005

STATEMENT OF WORK

Anaerobic Digester - Ambient Temperature (365)

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 Alabama NRCS conservation practice standard Anaerobic Digester - Ambient Temperature, Code 365 have been met and are compatible with other planned and applied practices, including but not limited to:
 - a. Practice purpose(s) as identified in the conservation plan
 - b. List of required permits to be obtained by the client
 - c. Compliance with NRCS national and state utility and construction safety policy ([NEM Part 503, Safety - Engineering Activities Affecting Utilities, and Subpart B - Public Safety at Structure Sites](#))
 - d. List of facilitating practices
 - e. Design computations and analyses used to develop plans and specifications, based on the practice standard criteria, relating to:
 - i. Geology ([NEM Part 531, Geology, Subpart 531A, Geologic Investigations](#))
 - ii. Soil mechanics ([NEM Part 533, Subpart A - Engineering Classification of Soils](#))
 - iii. Capacities and structure configuration
 - iv. Structural, mechanical, and appurtenances (including liner and cover details, transfer pipes, energy conversion equipment, etc.)
 - v. Clean water diversion and roof runoff management
 - vi. Environmental considerations (e.g. air and water quality; distance from wells, other water sources, and other sensitive areas)
 - vii. Bio-security
2. Written plans, specifications, and construction drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
3. A construction best management practices plan (CBMPP), if needed.
4. Design report and inspection plan as appropriate ([NEM Part 511 - Design, Subpart B - Design Documentation, 511.11](#) and [Part 512 - Construction, Subpart D - Quality Assurance Activities, 512.30 through 512.32](#)).
5. Operation and maintenance plan, including a training plan for the facility operator.
6. Certifications that the design meets practice standard criteria and complies with applicable laws and regulations [[NEM Part 505, Non-NRCS Engineering, 505.03 \(b\) \(2\)](#)].
7. Design modifications during installation as required.
8. Documentation that federal historic preservation laws and regulations have been considered prior to installation activities (NRCS Cultural Resources Handbook).

INSTALLATION

Deliverables

1. Preconstruction conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used ([NEM Part 512 - Construction, Subpart D - Quality Assurance Activities, 512.33](#))
 - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meet design and permit requirements.

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CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. Drawings
 - c. Certification that electrical and petroleum power sources and outlets (if applicable) were installed by a qualified licensed professional
 - d. Documentation of all material certifications
 - e. Final quantities
2. Certification that the CBMPP (if required) is complete.
3. Certification that the installation meets NRCS standards and specifications and is in compliance with permits [\[NEM Part 505, Non-NRCS Engineering, 505.03 \(c\) \(1\)\]](#) .
4. Certification that all components of the facility will function as designed.
5. Progress reporting.

REFERENCES

- Alabama Department of Environmental Management, Administrative Code Chapter 335-6-7, as amended (AFO/CAFO Rule)
- [Alabama NRCS Field Office Technical Guide \(eFOTG\), Section IV, Conservation Practice Standard – Anaerobic Digester - Ambient Temperature, Code 365](#)
- [National Engineering Handbook, Part 651, Agricultural Waste Management Field Handbook \(AWMFH\)](#)
- [NRCS Cultural Resources Handbook](#)
- [NRCS National Engineering Manual \(NEM\)](#)
- [NRCS National Environmental Compliance Handbook](#)

CONTACT INFORMATION

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