

## GUIDANCE DOCUMENT

NRCS, GA  
May 2016

### Farmstead Energy Improvement, Code 374

#### I. References

- A. Design Criteria
  - 1. Georgia FOTG Section IV, conservation practice standard, Farmstead Energy Improvement, Code 374.
- B. Design/Layout Surveys
  - 1. TR-62 Engineering Layout, Notes, Staking & Calculations.
  - 2. NEFH Part 650, Chapter 1, Engineering Surveys.

#### II. Documentation

- A. Preliminary Investigation

Make a preliminary investigation of the need and feasibility of the on-farm recommended equipment efficiency improvement by an on-site energy audit.
- B. Engineering Surveys
  - 1. The engineering survey will consist of the location of the proposed equipment efficiency improvement and any structures that may interfere with its installation.
  - 2. Note the location of any utilities or utility markers.
- C. Design
  - 1. Determine the replacement or retrofit system and related components or devices appropriate to accomplish its intended task.
  - 2. Develop engineering plans and specifications. As a minimum the plans and specifications shall include:
    - a. Replacement or retrofit of on- farm equipment location, if applicable.
    - b. Size and type of replacement system.
    - c. Details for mounting of the replacement for the on-farm equipment, if applicable (may be left up to the manufacturer).
    - e. Retrofit requirements that reduce greenhouse gas or improvement in energy efficiency, if applicable.
    - f. Details of appurtenances.
    - g. Location of utilities and notification requirements.
    - h. Develop a site specific O&M Plan for the practice.

#### III. Construction Layout

- A. Review the plans and specifications with the landowner and contractor prior to the start of construction
- B. Ensure the landowner and contractor thoroughly understand their responsibilities including obtaining all permits, easements, etc.
- C. Record layout data in the engineering field book or in the electronic field book.
- D. Stake the location and critical location of the proposed replacement or retrofit on-farm equipment, if applicable.

#### IV. Construction

Adequate site visits and checks shall be made during construction to verify that the plans and specifications are followed.

Any changes to the design during construction must be reviewed and concurred by the landowner and shall be approved by the designer and person with appropriate engineering design job approval authority.

## **V. Construction Checkout**

Record the following information on the plans, in the engineering field book or in NRCS-ENG-523A (or equivalent).

1. Size, type of replacement or retrofit on-farm equipment, model, manufacturer, and required appurtenances.
2. Power unit: type, manufacturer, HP. Note safety of unit (i.e. power shaft covered, etc.).
5. Operational check.
6. Prepare as-built drawings showing final details, etc.
7. If the practice meets NRCS standards and specifications, then the statement "This practice meets NRCS practice standards and specifications" shall be placed on the checkout document and signed and dated by the responsible person with appropriate level of engineering job approval authority.

## **VI. Reporting and/or Certifying**

After it has been determined and documented that the practice meets NRCS plans and specifications, it can be reported and certified. The extent of the practice to be reported is the number of on-farm equipment efficiency improvements installed. The extent of the practice to be certified is the quantities used as the basis of payment.