374 – Farmstead Energy Improvement
Job Sheet for Buildings

Producer **Contract**

Location of Building Complex and Size of Buildings

Use PLSS to within 40 ac, GPS coordinates, or attach map

Id	Length	Width	Area
			40’ X 500’ = 20,000 SQUARE FEET (20 KSF)

Attic Insulation

FEATURE MEASURE: NOMINAL AREA OF BUILDING IN SQUARE FEET

Checkout actions specific to this improvement include:

1) Determine the average depth of added insulation across the building attic using one of the following methods:
    a. an estimate of the blown-in-place volume of each bag (taken from the bag or given by the contractor), a tally of the number of bags used for the house, and a calculation of the average depth across the attic, OR
    b. an in-the-attic ruler measurement of the average depth of insulation added.
2) Verify and **record** the length, width, and nominal area of the building.

Blown-In-Place Volume of Each Bag of Insulation

Find chart on bag and read typical coverage area for R-15 fill (initial fill depth of 4.7”). Multiply 4.7” (or other depth) x coverage area / 12
Or ask contractor

Result is cubic feet per bag

Id	Area of Building	Number of Bags Blown into Building	Average Depth Across Building
			TOTAL BAGS ÷ AREA X 12 (FOR INCHES)

Sealant

FEATURE MEASURE: NOMINAL LENGTH OF BUILDING IN FEET

Checkout actions specific to this improvement include:

1) Verify that that sealing lines or areas were cleaned before application of the sealant.
2) Verify that that sealant within reach of animal production is resilient to animal
3) Verify and **record** the length of the house.

Wall Insulation

FEATURE MEASURE: WALL AREA REBUILT/REINSULATED IN SQUARE FEET

Checkout actions specific to this improvement include:

1) Verify that a permanent exterior siding was installed
2) Verify that rotten or degraded insulation was removed and replaced with new insulation.
3) Verify that a layer was installed to provide physical protection for the insulation.
4) Measure the length and vertical height of the walls insulated, and calculate the total area.

Greenhouse Screen

FEATURE MEASURE: AREA OF SCREEN INSTALLED IN SQUARE FEET

Checkout actions specific to this improvement include:

1) Verify that the screen will mechanically roll and unroll.
2) Verify that the screens have the appropriate firebreak or flame-retardance (by checking labels; do not use actual fire) for the type of building concerned and the sealing characteristics for the purpose installed.
3) Measure the length and width of the screen installed, and calculate the total area.

LED or CFL Bulbs

FEATURE MEASURE: NUMBER OF BULBS

Checkout actions specific to this improvement include:

1) Verify that bulbs meet minimum specifications, most importantly **efficacy**, from packaging or product information sheets.
2) Verify that the lighting controls can dim the bulbs, if bulbs are installed as growout bulbs.
3) Count the bulbs installed.

Linear Fluorescent

FEATURE MEASURE: NUMBER OF FIXTURES INSTALLED

Checkout actions specific to this improvement include:

1) Review the recommendations of the energy audit report for the number and size of light fixtures.
2) Verify that fixtures and bulbs are T5 or T8, the ballast type is electronic, and the bulb length from packaging or product information sheets.
3) Count the new fixtures installed.

Ventilation-Exhaust Fans

FEATURE MEASURE: NUMBER OF FANS INSTALLED

Checkout actions specific to this improvement include:

1) Review the recommendations of the energy audit report and/or the (written) requirements of the integrator for the number and size or total capacity of tunnel fans.
2) Verify that fans meet minimum efficiency from packaging or product information sheets.
3) Count the new fans installed.

HAF (Circulation Fan)

FEATURE MEASURE: NUMBER OF FANS INSTALLED

Checkout actions specific to this improvement include:

1) Review the recommendations of the energy audit and/or the requirements of the integrator report for the number and size.
2) Count the new fans installed.

Radiant Heaters

FEATURE MEASURE: RADIANT HEATING CAPACITY IN 1000 KBTU/HR

Checkout actions specific to this improvement include:

1) Review the recommendations of the energy audit report and/or the (written) requirements of the integrator for the number and size or total capacity of radiant heaters.
2) Verify the rated output of the heaters from packaging or product information sheets.
3) Count the radiant heaters installed, calculate the total heating capacity, and calculate the heating capacity per square foot.

Id	Counting of Capacity	Total Capacity to Each House	Capacity / Square Foot
	Ex.: 6 x 125 kbtu/hr plus 1 x 100 kbtu/hr	850 kbtu/hr	16000 square feet = 16 ksf 850 kbtu/hr / 16 ksf = 53 btu/hr/sf

Checkout

Pictures are recommended to supplement the documentation of installations. See NEH650.20 for detailed recommendations.

I certify that I have visually confirmed on-site that the conservation energy improvement(s) was installed and that the improvement(s) meets NRCS minimum specifications. I have examined invoices for the materials purchased and work performed and filed copies in the participant case file.

Authorized NRCS Agent Date