

374 – Farmstead Energy Improvement Job Sheet for Engine Replacement or Conversion

Identification of Systems

Existing Combustion System

picture of S/N plate attached

Make & Model _____ Year of Initial Service _____

S/N _____ Model Codes _____

Purpose of engine has been to power: pumping plant, dryer fan, or other (briefly describe) (circle one)

Principle location of power unit (use PLSS to within 40 ac, GPS coordinates to within 50 ft, or attach map)

Method of Improvement

(circle one)

re-power of pumping plant, dryer fan, tractor, off-road vehicle, or mechanized tool

conversion to electric motor

New Combustion System or Electric Motor

picture of S/N plate attached

Make & Model _____ Mfg Date _____

S/N _____ Model Codes _____

EPA TIER Class _____ Rated Power (@1800 rpm) _____

Note: It is appropriate, and necessary for many installations, to attach design sheets from CPS 533 Pumping Plant.

Improvement in Energy Efficiency and/or Emissions (to meet CPS 372)

Energy Usage of Existing Combustion System

average hourly fuel usage (gal/hr, kW, or cu.ft.)	annual hours of use (two/three year average is permissible)

Annual Fuel Energy Use in BTUs (see NEH650 (EFH), Ch. 20 for energy content of fuels)

multiply fuel usage x hours of use x fuel energy content

Energy Usage of New Combustion System or Electric Motor

average hourly fuel usage (gal/hr, kW, or cu.ft.)	annual hours of use (two/three year average is permissible)

Annual Fuel Energy Use in BTUs (see NEH650 EFH, Ch. 20 for energy content of fuels)

multiply fuel usage x hours of use x fuel energy content

Reduction in Annual Energy Use

Change in Annual Energy Use (in BTUs) and Affirm whether change is an increase or decrease.

Percentage change (divide above value of change by annual energy use of **existing** system)

Pumping Plant Performance (to meet CPS 533)

Explain or document how new system meets Nebraska Pumping Plant criteria

Disablement of Existing System

Key Actions:

- Dispose of engine fluids (properly)
- Acquire view-filled pictures of each side of power unit before and after disablement (total of 4 pics)
- Crush entire engine or create 6-inch hole in oil pan rail
- Store on-farm or deliver to commercial recycler (obtain signature of recycler agent)

I certify that the engine identified above (in Existing) was permanently disabled on _____ (date), by method of:

Creation of a 6-inch minimum hole in block, to include a portion of the oil pan rail (sealing surface)

Crushing of the entire engine.

Subsequently, the engine was:

Stored on-farm at _____
(use PLSS to within 40 ac, GPS coordinates to within 50 ft, or attach map)

Delivered to commercial recycler: _____

The participant understands that the disabled engine or a receipt from the recycler, with the following certification and signature of recycler agent, must be kept on-hand for three years.

I further certify that no component parts were or will be parted-out, sold as parts, or used in any way to rebuild other engines, with the exception of the following parts on power units: starter battery, alternator, trailer or transport frame, radiator, gages and throttle controls, and PTO clutch.

Owner or Authorized Agent of Ultimate Disposition

Date

Checkout

I certify that all plans and specifications have been met for the application of this conservation practice standard, including examination of the installation, required documents and pictures.

Authorized NRCS Agent

Date