

Design Build RFP
Unity Complex Biomass Project



ADDENDUM I

to

**Design Build Request for Proposals
for**

**The Sullivan County NH, Unity Complex Biomass Project
May 4, 2012**

The following items are to be included in the base price of bid:

1. The electric generated by the turbine/generator is to be monitored and recorded by a metering device that meets utility standards.
2. The flue gas exhaust stack from the biomass combustion system is to be equipped with 3 sets of standard test ports and bottom cleanout.

The following item is to be included as an add-alternate in the submitted bid:

Background: It is the goal of the County to convert the overhead single phase service to underground service for the Ahern Building, Carpenter Shop/Tractor Barn and Emergency Response Vehicle Storage Barn. These three buildings are currently served from a pole mounted 15kVA single phase transformer. The primary is supplied overhead from the incoming service on the south side of the Nursing Home.

The primary 12,470 volt 3 phase service will be routed underground from the incoming service on the south side of the Nursing Home to a 75 kVA pad mounted three phase 480/277 volt transformer that is being installed by the County to serve the biomass building.

Scope: The Add-Alternate Bid is to include complete materials, installation, and connection for:

- A 12,470V to 240/120V pad mounted, single phase transformer located adjacent to the new County installed 3 phase 480/277V transformer installed to serve the biomass building, sized to serve the Ahern Building, Carpenter Shop/Tractor Barn, and Emergency Response Vehicle Storage Barn loads.
- Underground service from the transformer to the Ahern Building, Carpenter Shop/Tractor Barn and Emergency Response Vehicle Storage loads.

It will be the County's responsibility to install primary service cable to the 480/277V transformer vault capable of serving the biomass building load, the Ahern Building, Carpenter Shop/Tractor Barn and Emergency Response Vehicle Storage Barn loads.

Summary of Existing Electrical Services:

Ahern Building: single phase 240/120V, 200 amp main; connected load is 125 amps, plans are to install a small split AC system in the future

Carpenter Shop/Tractor Barn: single phase 240/120V, 200 amp main; connected load is 160 amps

Emergency Response Vehicle Storage Barn: single phase 240/120V, 100 amp main; connected load will be 80 amps when renovation is complete