

ADDENDA NO. 1 – JULY 2, 2007

University of Colorado at Boulder (UCB)

Williams Village Power House Boiler Controls Upgrade Project

UCB Project No. PR002246 / UCB Notice No. 07-28 / Stanley Project No. 19695.10.00

The following changes are part of Addenda No. 1 and shall be incorporated into the Contract Documents. The receipt of this Addenda shall be acknowledged with the bid.

1. I/O analog points shall be compatible with the Hart protocol.
2. The combustion control shall include alarming when switching from primary to secondary controller due to a fault of the primary controller.
3. Contractor to insure a minimum of 50% spare points (digital and analog, proportionately distributed) are available at project completion.
4. I/O shall be partitioned such that loss of any I/O card or other single point of failure shall not affect more than one boiler or one other piece of plant equipment.
5. Manufacture memory calculation formula shall be used to determine the minimum processor memory requirements. Calculation shall be based on available points and communication.
6. BMS and combustion control shall be configured to load form non volatile memory on power-up when a system file is corrupted.
7. Auto-dialer shall be configured to prevent unauthorized phone connection and/or online access through the phone system to the combustion control system. The auto-dialer should be able to check the health of the primary phone connection and dial a secondary number if the primary connection is not available.