

Subj: **upgrades update**  
Date: 9/18/2006 2:12:46 P.M. Eastern Standard Time  
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September 18, 2006

John,

I talked to Chris Albert this AM and discussed the well upgrades. At this time he has not spoken with Ellis Engineering to discuss time frame for getting the work started or finished. Chris did say he would contact Ellis Eng today or tomorrow to discuss this with them. I did try to get him to accelerate the project and was told they will try to move quicker.

As for what is going to be accomplished by our well upgrades, here is a brief run down...

**METERING.** All three wells will have new totalizers/consumption meters installed. These meters will allow us to accurately know how much water is being pumped and has been pumped. These meters will also have the ability to pace our chemical feed pumps which insures a more consistent and accurate levels of chemical dosing. The meters will also be able to alert us to problems with no or low flow from the wells. If a no or low flow condition is not corrected damage to the main pumps could occur.

**VFD.** Variable Frequency Drive. A VFD is used to control the main pumps. VFDs can be configured to control the speed of the pump, how fast it starts up or shuts down, restart the pump after an electrical outage and alert the operators of conditions that are not within acceptable parameters. Wiring within our wells will be upgraded as needed to meet the VFDs and other components electrical requirements.

**WATER STORAGE TANK.** Controls at our storage tank will be upgraded to eliminate the mercury switch that is currently located on top of the tank. This switch will give us greater control of the on/off capabilities of our wells with their new controllers. Initially this new switch will use the existing phone circuit to communicate with the wells, at a later date they will be able to take advantage of a radio telemetry system which will allow us to drop the phone circuit saving us the rental fees from Verizon and from downed wired during storms and other factors.

**RADIO PATH STUDY.** This study will show us and our engineers which radio frequency and radio system will be the most advantageous to our system. This radio system will link our three wells and the storage tank together through telemetry derived from the new switch and controls that will be installed on top of our storage tank. Once this system is fully installed and operational we will have many ways to configure our wells to efficiently supply our customers with water under just about any condition.

I have not been given a list of the specific equipment or devices that will be installed. From my conversations with Bill Ellis when he made his inspections I am confident that he will be using quality products with experienced personel performing the required tasks. Chris also told me that a letter will be sent to D.E.S. to inform them that this project will be taking place.

Gary