TIMER CONTROLLED PUMPS

May 28, 2002

All inspection measurements are taken from the top of the riser in "INCHES"
And recorded on the attached Tank diagram

1. Determine Tank's Volume per Inch

Rectangular Tank
(L-6) X (W-6) X 7.48 ÷ 12 = Gals per Inch (GPI)
Round Tank
$(D-6)^2$ X P ÷ 4 X 7.48 ÷ 12 = Gals per Inch (GPI)

2. Tank Liquid Volume

Gals per Inch x Liquid depth = Liquid Volume
GPI x (Elv B – Elv Inlet) = Liquid Volume
From the top of the Riser measure the inches to the bottom of the tank, that's Elv B;
and measure the inches to the invert of the inlet, that's Elv Inlet.

3. Pump Alarm Elevation

Elv B – Elv A = Design Spec. ?
Leave pump control in OFF mode and continue to fill tank with water,
when Alarm sounds, shut off water. Now measure the inches to Elv A
Adjust Alarm float and all others as necessary to meet design spec.

4. Emergency Storage

(Elv A- Elv Inlet) X GPI = Gals of Storage
Does this meet the Design Spec.?

5. Programable Timer Control Panel

Check settings (Off, On, & Override Off, Override On) and compare to design specs
Adjust as necessary.

6. Make sure that: **(as measured from riser)**

Elv OFF is < Pump intake Elevation (pump should not suck air before shutting off)
Elv OFF is < Screen Vault Inlets (at Elv OFF make sure no inlet holes are showing)
Elv ON is > Elv Inlet