The Pulsar® Precision System Specifications

1. The Sanitization System shall be a **Pulsar**® Precision System and shall operate in a non-pressurized manner to ensure optimum safety and ease of operation

2. A post filter recirculation loop will be added to the main pool recirculation system as part of the **Pulsar**® Precision System. The recirculation loop will provide the inlet water supply to the chlorinator as well as the vacuum to evacuate the chlorinated solution.

3. The Sanitization System shall be N.S.F.® listed.

4. The Sanitization System shall incorporate the principle of High Capacity Erosion (HCE) technology. Water shall rise through the grid of the Briquette Basket from the force of an upward facing nozzle contacting **Pulsar**® Plus Dry Calcium Hypochlorite Briquettes. The briquettes shall be in contact with the water for a period creating a chlorinated solution which will exit the dissolving bowl at a specific height and fall into the discharge tank by gravity. The chlorinated solution shall be drawn by the vacuum from the discharge tank and introduced into the recirculation system. The output shall operate with a vacuum range between 5" and 29" Hg.

5. The vacuum is created by a Mazzei venturi, model 1585X, which is installed in the post filter recirculation loop driven by a 1hp **Pulsar**® booster pump. The venturi is installed on the discharge side of the **Pulsar**® pump creating a flow through the venturi, which provides the suction on the discharge valve evacuating the discharge tank. An emergency overflow switch shall ensure that water flow to the spray manifold is shut off in the unlikely event that the discharge tank has not emptied properly.

6. The System will operate with an inlet water pressure of 25-45 psig. The inlet water is supplied from the 1hp **Pulsar**® pump.

7. The Briquette Tank shall have a capacity of one hundred (100) pounds of **Pulsar**® Plus Dry Calcium Hypochlorite Briquettes with additional capacity of fifty (50) pounds using the Briquette Bucket mounting feature.

8. The chlorine output shall be controlled by a timer or an ORP controller. The timer has eight settings and will be controlled by PCB/HMI of the Pulsar Precision control box. The timer will allow a minimum available chlorine (Av.Cl.) output of 5 lbs./day and will allow a maximum available chlorine (Av.Cl.) output of 189 lbs./day.

9. The Sanitization System shall be capable of functioning in temperature between 40° F. and 140° F.

10. The Sanitization System shall operate with **Pulsar**® Plus Dry Calcium Hypochlorite Briquettes having 65% minimum available chlorine with a 0.4 to 1.0% scale inhibitor (by weight).

11. The system shall incorporate a dustless loading feature to capture the dust from the briquettes while replenishing the Hopper contents.

12. The Sanitization System shall be capable of satisfactory performance if installed as per the manufacturer's recommendations (Reference **Pulsar**® Installation and Operation manual). An

authorized representative of the manufacturer shall be located within a reasonable distance of the facility and shall be available to install and service the system as required.

13. Manufacturer warrants parts (excluding electrical components) of the Sanitization System to be free of defects in workmanship and material for 2 years from date of installation.