Pump System Start-Up

Step 1

Be prepared. You'll need a start up report, control panel wiring schematic, electrical meters and pump technical data.

Step 2

Inspect the condition of the basin and equipment. Remove any debris from the basin, inspect the pump and float switch cords, and inspect the panel enclosure and junction box for dampness.

Step 3

Verify that the pump's voltage and amp rating are compatible with the power source and panel design.

Step 4

Install the pump, panel, floats and junction box. Verify that all connections going to and from the junction box are correct and the conduit entries to the panel are properly sealed.

Step 5

Verify that all panel connections are correct. Set the overload adjustment in the panel. Set the floats at the desired level.

Step 6

Add water to the basin.

Step 7

Power up the system. Use the test switch to check the high-water alarm. Operate the pumps in the "hand" mode. Check and record voltage and amp draw. Check for any leaks in the piping or at the disconnect flange. For three phase systems, verify that the pump is rotating in the proper direction. Make sure that a vent hole has been drilled between the pump and the check valve in the discharge pipe at a level slightly above the pump's "on" point.

Step 8

Conduct a functional test on the performance of the pump. Record this information and verify that it performs within the requirements of the application.

Step 9

Check out the panel operation with the float switches and verify that the panel operation and sequencing of the pump operation is correct.

Step 10

Complete the start-up report and keep it in a permanent file along with the pump's technical data, service information, and panel wiring schematic.