



SPRING CLEANING & FALL FIX-UP SERVICE BULLETIN

Mission recommends performing a bi-annual system test of each of the RTUs to verify the monitoring system is operating as expected. We suggest the RTU remain in its normal operating mode when performing the following tests. Do not use an electronic key to place it into service mode as you normally would so you can verify the complete end-to-end alarm notification process. It would be a good idea to notify your coworkers that you are performing these tests because alarm notifications will be generated.

High Level Floats

The most important link in the alarm chain is the high level float. Lift the high level float to signal an alarm. Floats may fail for a number of reasons (hung up on ladder, bad contacts, loose or worn wire etc.). Leave the float upended until you receive the alarm notification. The alarm notification will verify that the float is in working order. Once you have completed the test, be sure that the float is replaced at an appropriate level in the wet well. If no alarm was received, you should see the LED illuminate on the Mission unit. If it does not, the wiring to the float should be tested.

Backup Battery Capacity

Turn off AC power to the Mission unit for six minutes or longer (AC alarms are delayed for approximately five minutes). You should receive an AC failure alarm call-out. The Mission RTU constantly measures battery voltage, but it is not a “real-world” full load test. Use a voltmeter across the battery terminals. It should read 12 V or more. The battery should be replaced if the voltmeter reads less than 12 V. Batteries should be replaced approximately every five years.

Additional Digital and Analog Inputs

Test all digital and analog inputs (if connected). Make certain the analog high and low set points are appropriate.

Review Call Out Schedule

Employees’ phone numbers and email addresses may have changed since you last reviewed your notification schedule. Please verify the accuracy of the call-out destinations on your web portal.

Tank & Well Control and Intertie

If you are using the Mission RTUs to control a water system, check the low level alarm operation. Disable the well pumps (either at the site or via the website control) and allow the water to drain to the alarm level and verify that you receive the notification. Check the operation of any secondary level or alarm sensors you may have installed. Make sure new operators are trained on the web interface operation and website logins have been deleted for anyone who has left the organization. It may be a good time to change your login password.

Solar Panels and Rain Gauges

Solar panels and rain gauges can collect debris throughout the year. Debris can hinder the functionality of the devices. Rain gauges also attract small critters. Visit each site with a solar panel or a rain gauge to clean the devices and to remove small critters.

These routine evaluations will verify the Mission RTUs are operating properly. If you have any questions about the performance of your system, please call us at (877) 993-1911. Mission technical support personnel will be happy to assist you.