

Construction Guidelines for Installation of Remote Telemetry Units (RTUs)

For Private Pump Stations – General Notes

Miami-Dade County Department of Regulatory and Economic Resources
Division of Environmental Resources Management (DERM)

1. The RTU shall provide wireless communication (via phone text and/or email) over a cellular or satellite network capable of real-time alarm notifications to:
 - a. The property owner and the service/maintenance contractor listed in the pump station emergency contact sign, for the private pump stations.
2. The RTU enclosure type shall be NEMA 1 (for indoor installations) or NEMA 4 (for outdoor installations) or as required by the latest Florida Building Code - Building; the most restrictive shall govern. In addition, the panel enclosure shall be lockable to avoid vandalism and shall include a label written as “**Pump Station #XXXX - RTU**” (the DERM pump station # will be assigned during the review of the certification application submittal).
3. The RTU shall include a 24-hour backup battery for loss of 120/208-230 VAC power.
4. The RTU shall have a minimum of eight (8) points of alarm notifications. The RTU shall have the following minimum points of alarm notifications:
 - 1) Pump Station power failure
 - 2) Pump 1 Fail
 - 3) Pump 2 Fail
 - 4) Pump 3 Fail, if applicable
 - 5) High Water Level Alarm; set at no less than six (6) inches below inflow pipe(s) invert elevation
 - 6) Pump station control panel alarm activation
 - 7) Spare point no.1 of notifications available for future use
 - 8) Spare point no.2 of notifications available for future use