

---

## Section 7

# TESTING LABORATORY AND TEST REPORTING REQUIREMENTS

### 7.1 DESCRIPTION

This section provides minimum Department testing laboratory and test reporting requirements for the certification/approval of traffic control products listed on the APL when testing laboratory data are required. Third-party testing is typically required for official traffic control signals and devices. First-party testing is allowed for ancillary devices. The TERL maintains a list of acceptable independent testing laboratories for use by applicants. Although not endorsed by the TERL, laboratories in this list have submitted test reports that have been accepted in the past as meeting all applicable requirements listed in this section. While the list is provided for the benefit of applicants, a laboratory not included in the list may be selected. Applicants/suppliers remain responsible for ensuring that the independent testing laboratory and associated test report meet all requirements in applicable product specifications and this document. The list of independent testing laboratories is available at:  
[http://www.dot.state.fl.us/trafficoperations/Traf\\_Sys/Docs/Acceptable\\_Test\\_Labs.pdf](http://www.dot.state.fl.us/trafficoperations/Traf_Sys/Docs/Acceptable_Test_Labs.pdf)

### 7.2 LABORATORY AND REPORTING REQUIREMENTS

- (1) All test equipment used, as required by the manufacturer of the test equipment, shall be independently calibrated. Test measurements shall be within the calibration range indicated in the laboratory report.
- (2) Independent testing laboratories shall state that it and its personnel are not in any way associated with the manufacturer, or any parent or subsidiary of same.
- (3) The laboratory report shall be neatly organized in a binder that includes tab-separated sections and contain a CD, or other storage device, for storing the electronic form of the report.
- (4) The laboratory report shall contain the following, at a minimum:
  - (a) The laboratory name, address, phone number and web site address.
  - (b) Names and titles of staff performing the test, and approving test results.
  - (c) An executive summary of test results indicating whether the product passed (i.e. met product specifications) or failed.
  - (d) A description of the test procedure and date of testing.

- 
- (e) A description of the test equipment used and certificate of calibration current at the time of testing.
  - (f) The test conditions.
  - (g) The product specifications used for testing.
  - (h) The test results including a pass/fail status relative to each test performed and supporting test data (graphs, measured data, etc).
  - (i) The product description, part/model number, and date of manufacture of product being tested.
  - (j) Before, during and after-test photographs of the product being tested.
  - (k) Photographs of the test set-up and location of gauges (if used).
  - (l) A description of the location and type of failure, and photographs of each failure.

## **7.3 SUPPLEMENTAL REPORTING REQUIREMENTS FOR SPECIFIC PRODUCTS**

### **7.3.1 Pull, Splice and Junction Box**

In addition to the reporting requirements of **Section 7.2**, the laboratory report shall contain the following, at a minimum:

- (a) Weight of box and cover tested (box and cover weighed and listed separately).
- (b) Load versus deflection graphs for each structural load test listed in Section 7.0 of the ANSI/SCTE 77 2010 Specification (for each of the ten Design Load cycles, and when loaded to the test load or failure, whichever occurs first).
- (c) Certificates of calibration including, but not limited to, load cells and deflection gauges.