




PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

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To: All L&S Staff

From: Charles W. Brown, PE, PLS 
State Location & Surveys Engineer

Subject: Proc 2015-3
NCGS Baseline Calibrations

As we move forward with greater utilization of others in setting our survey controls, we see the need for more standardization and reporting of equipment checking, both for our own survey equipment and that of private firms involved in work on our projects. With that in mind, we are establishing a new requirement for anyone setting baselines.

Upon receipt of this memo, any total station used in setting and measuring NCDOT survey controls and baselines must be tested and calibrated on one of the NCGS EDM Calibration Baselines no more than three months prior to the setting of those controls. Additionally, an EDM calibration should be performed after taking delivery of a new or used instrument, immediately after service, or anytime the operator feels the instrument is not working properly. The location of these Calibration Baselines can be found at <http://www.ncgs.state.nc.us/Pages/edm.aspx>.

As part of the deliverables for the task of setting controls and baselines, a report of that calibration test must be provided. NCDOT has developed three tools to assist in preparing this report. Those tools are:

- 1) EDMCalib.ma - A MicroStation MDL application that processes EDM Calibration data files and creates a report on the results. This can be found in the NCDOT workspace at:
C:\NCDOT_V8_WORKSPACE\LOCATION_STDS\Standards\mdlapps\EDM Calib.ma.
- 2) PCCheq.exe - A Windows application that processes EDM Calibration data files and creates a report on the results. This can be found in the NCDOT workspace at:
C:\NCDOT_V8_WORKSPACE\LOCATION_STDS\Standards\appl\PCCheq.
- 3) EDMCheq - A Trimble Access plug-in that performs both the data collection and report generation of an EDM calibration. Used with a Trimble Access data collector.



Available through Trimble Installation Manager. All L&S data collectors are eligible to receive the EDMCheq program.

In the next few months we will be offering training to our field office users and on a limited basis to the private engineering firms on contract with us.

This policy takes effect upon receipt.

CWB