

PART 544 – EQUIPMENT

IL 544.6(A)(3)

§IL 544.6(A) State Procedures.

1. All surveying instruments, excluding Total Stations and GPS, shall be checked for accuracy (“peg tested”) at least annually. This procedure can be found in the Engineering Field Handbook, Chapter 1.
 - a. Instruments (excluding hand levels) shall be accurate to within 0.01 feet at 200 feet. Hand levels shall be accurate to within 0.3 feet at 20 feet.
 - b. Instruments not within the accuracy limit shall be calibrated. Lasers, hand levels, and auto levels can be calibrated by the user if the user feels confident in doing so; otherwise the instrument should be sent to a repair shop for calibration.
2. Surveying instruments (excluding hand levels and GPS) shall be sent to a repair shop for regular cleaning, calibration, and adjustment, regardless of accuracy test results, on the following schedule:

Instrument	Frequency
Auto Levels, Laser Levels	3 years
Total Stations, Digital Transits	1 year

- a. Any instrument experiencing loss of function, significantly reduced function, or visible damage shall be sent in for repair immediately.
 - b. GPS systems users shall check at least annually for new firmware software updates and update as necessary. The user can perform the firmware update.
 - c. The Assistant State Conservationist (FO) is responsible for ensuring that the instruments in the Area are sent in for regular service, taking into account workload, cost for service (volume discounts), and other factors.
3. Form IL-ENG-18, “Record of Instrument Cleaning, Checks, and Adjustments,” shall be used to record all peg tests, adjustments, and repairs done to each instrument. The form shall be kept in the instrument carrying case or other secure location in the office.

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