



Laboratory Safety Committee

**Electrical Safety Subcommittee**

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**Is Use of the Fluke T3 Voltage Tester Compliant with NFPA 70E & LOTO Requirements?**

Recently the ESS Chair received a question concerning the appropriateness of using the Fluke T3 voltage tester (FNAL Stock #1145-502000) for the verification step in electrical LOTO procedures. Is the use of this voltage tester in conformance with NFPA 70E requirements?

The Subcommittee concluded that use of the Fluke T3 tester is fully compliant with NFPA 70E requirements for voltage testing. The T3 is rated for measurements up to 1000 Volts and has a CAT III rating. The T3 has an input impedance of 750 kOhms. That impedance is generally advantageous over many Digital Multi-Meter (DMM) instruments that may give false positive indications in certain situations due to their frequently higher input impedance. Safe work practices demand that the testing device be used within its rating and be tested for proper operation before and after the testing activity. Required PPE for shock and arc-flash protection must be worn by the individual when making the voltage measurement.