

PRINCETON PLASMA PHYSICS LABORATORY	ENGINEERING STANDARD	No. ES-ELEC-002 Rev. 0 Page 1 of 2
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Subject Electronics Calibration	Effective Date 2/19/93	Initiated  Electrical and Electronic Engineering Division
	Supersedes New	Approved  Engineering Department Head

Applicability

This standard establishes the requirements for the calibration of electronic equipment used by PPPL. It applies to calibration performed at PPPL facilities or by a vendor.

Introduction

This standard describes the requirements used for calibrating electronic measurement test equipment (MTE). Calibration of electronic MTE at PPPL is done under the control of the Electronic Calibration Laboratory.

References

- MIL-STD-45662A (8/88). (See esp. Section 5.)
- Technical Operations Procedure ENG-002 rev. 0, "Control of Measuring, Test Equipment, and Calibration".

Standard

Calibration of PPPL-owned/operated MTE shall conform with the following:

- MTE will be calibrated to manufacturer's specifications, as described in service literature provided by the manufacturer, and in accordance with procedure ENG-002 rev. 0.
- Calibration personnel will use MIL-STD-45662A as a guideline for operation.
- Deviations from manufacturer calibration standards on equipment that is used as an element of project equipment, or that has ES&H relevance, shall be performed in accordance with PPPL procedures approved by project administration.

Definitions**Calibration**

Any device that presents or records data when the accuracy of that data is critical should be identified as a calibrated instrument, should be self-contained, and should have the ability to be calibrated to standards traceable to the National Bureau of Standards.

Calibration Lab

A PPPL-authorized facility for testing, analyzing, and calibrating devices used for measuring or testing equipment or systems.

**Measurement Test
Equipment (MTE)**

All devices used to measure, gauge, test, inspect, or otherwise examine items to determine compliance with specifications, or to set specifications; or devices that have been reviewed and deemed critical to the control of a process.