PRIMARY STANDARDS LABORATORY

REPORT OF CALIBRATION

JOHN FLUKE THERMAL VOLTAGE CONVERTER
Model: A-55
Serial Number 1996

Submitted By:
Litton Industries, Inc.

Determinations were made of the difference between the rf input voltage and the average of the two polarities of direct input voltage required to produce the same thermocouple output. The observed differences are given in the table below, where a positive sign indicates that more rf than direct voltage is required to produce the same output. The data shown represents both the "As Found" and "Final" data, unless otherwise noted.

NOMINAL VOLTAGE	FREQUENCY	RF-DC DIFFERENCE (Percent)	UNCERTAINTY (Percent)
10.0 V	50 KHz	-.008	0.01
10.0 V	1 MHz	-.006	0.05
10.0 V	10 MHz	-.030	0.10
10.0 V	20 MHz	-.010	0.15
10.0 V	30 MHz	-.003	0.20
10.0 V	50 MHz	-.299	0.50

During the period of this certification, it is unlikely the reported rf-dc differences will vary by more than the amounts in the "UNCERTAINTY" column. These uncertainties include allowance for the random and systematic errors of the calibration process and the stability of this Thermal Voltage Converter.

This calibration was performed in an environment of 23 (+/-0.6) degrees Celsius and 45 (+/-5) percent RH, using Fluke Primary Standards Laboratory Procedure A55, and is traceable to the National Institute of Standards and Technology through Fluke Reference Standard A55 C# (0016) and NIST Test Report numbered 809271 (10/87). This calibration complies with Mil-Std-45662A, IEEE-498-1985, and 10CFR21.

Stephen Hermes
Metrology Technician

for Les Huntley
Metrology Manager

Test Number: DD30-6
Date: 23-Apr-92
Recertify By: 23-Apr-97