

**Division 05 - Instrument Repair and Calibration Laboratory
CERTIFICATE OF CALIBRATION**

ISSUED TO: DIV 20 QA CENTER FOR NUCLEAR WASTE REGULATORY ANALYSIS
 MFR/MODEL FISHER 14-983-10B
 ITEM DESCRIPTION THERMOMETER
 MODEL 14-983-10B S/N 1238001 SWRI NO. NONE
 PLUG-INS, ETC. NONE

TOLERANCE ±.5°C (-20 to +110°C)

STANDARDS

Standard No.	MFR Model	Description	S/N	Cal. Due	Cal. Rec. No.
	FISHER 150418	THERMOMETER	891 2261	10 FEB 92	4232

ENVIRONMENT: Temperature 71°F Humidity 45%
 Location ROOM A11 BLDG 68 SWRI

PROCEDURE

Essentially as outlined in MFRS Service Manual

COMPARED THIS THERMOMETER TO A STANDARD THERMOMETER
IN ICE BATH AND WATER BATH. STD 0°C THIS THERM 0°C
8.5°C 8.5°C
 ACC OF STD .1°C 25.4°C 25.5°C
57.5°C 58°C

CONCLUSION

- Item within tolerance
- Item out of tolerance
- Item ADJ/repaired to tolerance
-

Calibration was in accord with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

SIGNED Anthony P. [Signature]
 DATE 26 AUG 91

0008189

RECORD NUMBER: _____ NEXT CALIBRATION DUE: 26 AUG 92

Division 05 - Instrument Repair and Calibration Laboratory
CERTIFICATE OF CALIBRATION

ISSUED TO: DIV 20 Center For Nuclear Waste Regulatory Analysis
 MFGR/MODEL FISHER 14-983-10C
 ITEM DESCRIPTION THERMOMETER
 MODEL 14-983-10C S/N 1238004 - SWRI NO. NONE
 PLUG-INS, ETC. NONE

TOLERANCE ± .5°C
(-20°C to +150°C)

STANDARDS

Standard No.	MFGR Model	Description	S/N	Cal. Due	Cal. Rec. No.
	FISHER 15041B	THERMOMETER	8912261	18 FEB 92	4L32

ENVIRONMENT: Temperature 71°F Humidity 45%
 Location ROOM A11 BLDG 68 SWRI

PROCEDURE

Essentially as outlined in MFGRS Service Manual _____

Compared this Thermometer to a standard Thermometer in ICE BATH AND WATER BATH AT ~~ROOM~~ 40° AS follows: STD 0°C This 0°C
8.5°C Therm 9°C
25.4°C 25.5°C
57.5°C 57°C

Acc. of Standard .1°C

CONCLUSION

- Item within tolerance _____
- Item out of tolerance _____
- Item ADJ/repared to tolerance _____
- _____

Calibration was in accord with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

SIGNED Anthony P. [Signature]

DATE 26 AUG 91

0008192

RECORD NUMBER: _____ NEXT CALIBRATION DUE: 26 AUG 92

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION

Issued to: DIV20 B168 NARASI SRIDHAR

Device No: 1427

Manufacturer: FISHER

Model: 14-983-10C

Nomenclature: THERMOMETER

Serial Number: 1238004

SwRI No:

Remarks

Accuracy: +.5 C

Procedure: SWRI

ENVIRONMENT

Temperature: 0 Humidity: 0 Location: B145 SWRI

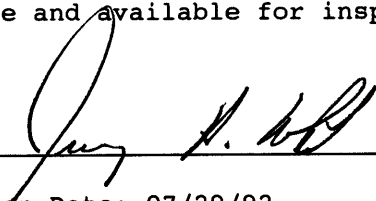
CONCLUSION

Tolerance/Remarks: Received in tolerance, no adjustments made

Compared the thermometer to the standard thermometer in ice bath and several points between zero and one hundred.

Calibration was in accord with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

Signed



Calibration Date: 07/29/92

Record Number: 00009471

Next Calibration Due: 07/29/93

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

Device Serial No: 1238004

Calibration Date: 07/29/92

STANDARDS

Standard No: 159 Manufacturer: FISHER

Model: 15-041B

Nomenclature: THERMOMETER

Serial No: 891-2261

Cal.Due: 02/12/93

Cal.Rec.No: 00008846

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION

Issued to: DIV20 B168 NARASI SRIDHAR

Device No: 1429

Manufacturer: FISHER

Model: 14-983-10B

Nomenclature: THERMOMETER

Serial Number: 1238001

SwRI No:

Remarks

Accuracy: +.5 C

Procedure: SWRI

ENVIRONMENT

Temperature: 0 Humidity: 0 Location: B145 TEMP/SCALE ROOM

CONCLUSION

Tolerance/Remarks: Received in tolerance, no adjustments made

Compares this thermometer to the standard in an ice bath and water bath at the following temperatures. std. 0 deg. sn1238001 0 deg.

23 deg. 23 deg.

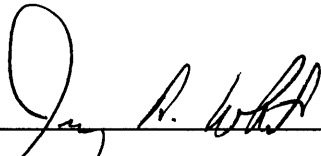
43 deg. 43 deg.

60 deg. 60 deg.

Calibration was in accord with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology.

Inspection and test data are on file and available for inspection.

Signed



Calibration Date: 09/18/92

Record Number: 00009672

Next Calibration Due: 09/18/93

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

Device Serial No: 1238001

Calibration Date: 09/18/92

STANDARDS

Standard No: 159 Manufacturer: FISHER

Model: 15-041B

Nomenclature: THERMOMETER

Serial No: 891-2261

Cal.Due: 02/12/93

Cal.Rec.No: 00008846

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

OUT OF TOLERANCE NOTICE

Date: 08/03/93

The following instrument was out of tolerance when submitted for calibration.

Issued to: DIV20 B57 NARASI SRIDHAR

Device No: 1427

Manufacturer: FISHER

Model: 14-983-10C

Nomenclature: THERMOMETER

Serial Number: 1238004

SwRI No:

Remarks

Accuracy: +.5 C

Calibration Interval: 12 months

DEVIATION

Entry Date: 08/03/93 Cal record #00011849 Last Valid Calibration: 07/29/92
Remarks

The above Fisher Thermometer was found out of tolerance when submitted for calibration. The deviation is beyond its accuracy* and therefore can not be calibrated to within manufacturer's specifications. The following results were recorded.

Standard Reading:	Unit Under Test:
0 Deg C.	0 Deg C.
50.3 Deg C.	50.0 Deg C.
100.0 Deg C.	99.5 Deg C.
* 140.4 Deg C.	138.0 Deg C.

Accuracy= + .5 Deg C.

cc: Manager, QA

Signed

