

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 22438 ASSET # 004991 DATE 8/1/96

ITEM DATA:

Manufacturer Exoco Model 15-166A
Description five minute Serial # C 96-637
Accessories _____

ACTION REQUESTED cal

CUSTODIAN Daryl Dunn, SIV. 20

Turned in by: Daryl Phone 6090

CHARGE # 20-5708-513 Date Required _____

INSTRUMENT USED ON: NUCLEAR DOD NASA GLP SPPE
 OTHER _____

COPY OF CALIBRATION CERTIFICATE Yes No

CONDITION RECEIVED: _____ Out of tolerance, repaired to specifications
_____ In tolerance, minor adjustments/repairs made
 In tolerance, no adjustments/repairs
_____ Out of tolerance, adjusted to specifications
 Received into system, introduced or reactivated
~~_____~~ Calibration interval
_____ Reliability code

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated per Procedure.

22438

CAL ENVIRONMENT:
Temperature 78 °F Humidity 38 %RH

CALIBRATED/REPAIRED:
By [Signature] Cal Procedure 21-9-30-5H03
Date 26 Aug 96 Accuracy 1/2 spec.
Cal Interval 6 mos Time to complete: _____
Next Cal due 26 Feb 97 Cal 2.5 Repair _____
Standards used (Asset#) 219, 328

DATE COMPLETED 26 Aug 96
DATE PICKED UP 8/27/96 PICKED UP BY [Signature]

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 26593 ASSET # 000991 DATE 25 Aug 97

ITEM DATA:

Manufacturer T. Sp. Co. / T. Co. Model 15-166A
Description Thermometer Serial # 021-637
Accessories _____

ACTION REQUESTED M1

CUSTODIAN W. J. Small

Turned in by: _____ Phone 6090

CHARGE # 20 578 561 Date Required _____

INSTRUMENT USED ON: DOD/NASA NUCLEAR GLP SPPE ISO
 OTHER _____

COPY OF CALIBRATION CERTIFICATE Yes No

NEW WORK Yes No If yes, an evaluation shall be made to verify capabilities.

By _____ Date _____

CONDITION RECEIVED: _____ (F) Out of tolerance, repaired to specifications
_____ (G) In tolerance, minor adjustments/repairs made
 (J) In tolerance, no adjustments/repairs
_____ (K) Out of tolerance, adjusted to specifications
_____ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated by [Signature]
445
0.015°C 0.020°C (0.2°C)

26593

CAL ENVIRONMENT:
Temperature 70 °F Humidity 56 %RH

CALIBRATED/REPAIRED:
By [Signature] Cal Procedure 411-9-30-57603
Date 3 Sep 97 Accuracy _____
Cal Interval 6 mths Reliability Code: 3
Next Cal due 3 Sep 98 Cal Time _____ Repair Time _____
Standards used (Asset#) 219, 325

DATE COMPLETED 4 Sep 97
DATE PICKED UP 9/10/97 PICKED UP BY [Signature]

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 24337 ASSET # 004991 DATE 17 Feb 97

ITEM DATA:

Manufacturer Frteo Model 15 NAA
Description Thermometer Serial # C46-657
Accessories _____

ACTION REQUESTED 101

CUSTODIAN Div. 20, Darrell Dinn

Turned in by: _____ Phone _____

CHARGE # 70-5208-561 Date Required _____

INSTRUMENT USED ON: NUCLEAR DOD NASA GLP SPPE
 OTHER _____

COPY OF CALIBRATION CERTIFICATE Yes No

CONDITION RECEIVED: _____ Out of tolerance, repaired to specifications
_____ In tolerance, minor adjustments/repairs made
 In tolerance, no adjustments/repairs
_____ Out of tolerance, adjusted to specifications
_____ Received into system, introduced or reactivated
_____ Calibration internal
_____ Realibility code

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated per procedure
Std 445
0.02°C 0.0°C

24337

CAL ENVIRONMENT:
Temperature 76 °F Humidity 35 %RH

CALIBRATED/REPAIRED:
By R. Williams Cal Procedure WI-9-30-7103
Date 25 Feb 97 Accuracy ±1°C
Cal Interval 6 mos Time to complete:
Next Cal due 25 Aug 97 Cal 2.0 Repair _____
Standards used (Asset#) 219, 328

DATE COMPLETED 26 Feb 97
DATE PICKED UP 2/26/97 PICKED UP BY Darrell Dinn

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 28928 ASSET # 004991 DATE 09 MAR 98

ITEM DATA:

Manufacturer Fisher Model 15-166A
Description Thermometer Serial # C96-637
Accessories _____

ACTION REQUESTED 1041

CUSTODIAN Div. 90, David Quinn

Turned in by: _____ Phone _____

CHARGE # 20-1402-511 Date Required _____

INSTRUMENT USED ON: DOD/NASA NUCLEAR GLP SPPE ISO
OTHER _____

COPY OF CALIBRATION CERTIFICATE Yes No

NEW WORK Yes No If yes, an evaluation shall be made to verify capabilities.
By _____ Date _____

CONDITION RECEIVED: _____ (F) Out of tolerance, repaired to specifications
_____ (G) In tolerance, minor adjustments/repairs made
_____ (J) In tolerance, no adjustments/repairs
_____ (K) Out of tolerance, adjusted to specifications
_____ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) _____
cal std WT
0.01°C 0.1°C

CAL ENVIRONMENT: Temperature 66 °F Humidity 26 %RH

CALIBRATED/REPAIRED:
By [Signature] Cal Procedure W1-9-30-T#03
Date 10 MAR 98 Accuracy ±1°C
Cal Interval 6 mos Reliability Code: 4
Next Cal due 10 Sep 98 Cal Time _____ Repair Time _____
Standards used (Asset#) 219, 320

DATE COMPLETED 10 MAR 98
DATE PICKED UP 3/18/98 PICKED UP BY [Signature]

28928

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 31642 ASSET # 004991 DATE 19 OCT 98

ITEM DATA:

Manufacturer Fisher Model 15-166A
Description phorometer Serial # 096-037
Accessories _____

ACTION REQUESTED cal

CUSTODIAN DV. DO, Darrell Dunn

Turned in by: _____ Phone 6090

CHARGE # 20.1404.571 Date Required _____

INSTRUMENT USED ON: (DOD/NASA) (NUCLEAR) (GLP) (SPPE) (ISO)
 OTHER _____

COPY OF CALIBRATION CERTIFICATE (Yes) (No)

NEW WORK Yes No If yes, an evaluation shall be made to verify capabilities.

By MRP Date 10/14/98

Work involves proprietary/confidential information or equipment (Yes) (No)

CONDITION RECEIVED: _____ (F) Out of tolerance, repaired to specifications
_____ (G) In tolerance, minor adjustments/repairs made
 (J) In tolerance, no adjustments/repairs
_____ (K) Out of tolerance, adjusted to specifications
_____ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) collected by hand

CAL ENVIRONMENT:
Temperature 74 °F Humidity 55 %RH

CALIBRATED/REPAIRED:
By MRP Cal Procedure ASTM E77-92
Date 10/22/98 Accuracy MRP spec
Cal Interval 6 wks Reliability Code: 5
Next Cal due 12/15/98 Cal Time 1.0 Repair Time _____
Standards used (Asset#) 219, 328

DATE COMPLETED 10/22/98
DATE PICKED UP 10/22/98 PICKED UP BY [Signature]

2195

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 34370 ASSET # 009991 DATE 04 May 99

ITEM DATA:

Manufacturer Fisher brand Model 15-1664
Description thermometer Serial # 896-637
Accessories fuop

ACTION REQUESTED cal

CUSTODIAN Du. 20, Darrell Dunn

Turned in by: _____ Phone 6070

CHARGE # 20-04 Date Required _____

INSTRUMENT USED ON: (DOD/NASA) (NUCLEAR) (GLP) (SPPE) (ISO)
 OTHER _____

COPY OF CALIBRATION CERTIFICATE (Yes) (No)

NEW WORK Yes No If yes, an evaluation shall be made to verify capabilities.

By maol Date 05-04-99

Work involves proprietary/confidential information or equipment (Yes) (No)

CONDITION RECEIVED: _____ (F) Out of tolerance, repaired to specifications
_____ (G) In tolerance, minor adjustments/repairs made
_____ (J) In tolerance, no adjustments/repairs
_____ (K) Out of tolerance, adjusted to specifications
_____ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) Cal

CAL ENVIRONMENT:
Temperature 75 °F Humidity 57 %RH

CALIBRATED/REPAIRED:
By CM Wood Cal Procedure T033K5-4-42-1 Apr 97
Date 5-5-99 Accuracy ±1°C
Cal Interval 6 mo Reliability Code: _____
Next Cal due 11-5-99 Cal Time 1h Repair Time _____
Standards used (Asset#) 5174, 7001

DATE COMPLETED 5-6-99
DATE PICKED UP 5/13/99 PICKED UP BY [Signature]

34370

CALIBRATION CHECK FORM

Date Calibrated 5-5-99 Work Order 34370
 Technician OM Wood Calibration Procedure 7033KS-4-42-1 Ap. 97
 Unit Under Test Thermometer
 Manufacturer Fisher Model 15-166A SN C96-637 ASN 4991

STEP	FUNCTION OR RANGE	APPLIED °C	TOLERANCE	MEASURED VALUES		P/F
			MIN - MAX	AS FOUND	RELEASED	
			$\pm 1.0^\circ C$			
1)		-16.37	-15.37 - 17.37	-17.0		P
2)		13.57	12.57 - 14.57	14.0		P
3)		46.26	45.26 - 47.26	47.2		P
4)		81.86	80.86 - 82.86	82.1		P
5)		115.89	114.89 - 116.89	116.5		P
6)		144.84	143.84 - 145.84	145.5		P
			<u>Total</u>			

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory • 522-5215

WORK ORDER

WORK ORDER # 36840 ASSET # 001991 DATE 19 Nov. 99

ITEM DATA:

Manufacturer Fisherbrand / Eisco Model 15.166A
Description 1 hr manometer Serial # 196-637
Accessories _____

ACTION REQUESTED cal

CUSTODIAN Div. 20, Daveell Dunn

Turned in by: _____ Phone 6090

CHARGE # 20-04 Date Required _____

INSTRUMENT USED ON: (DOD/NASA) (NUCLEAR) (GLP) (SPPE) (ISO)
 OTHER _____

COPY OF CALIBRATION CERTIFICATE (Yes) (No)

NEW WORK Yes No If yes, an evaluation shall be made to verify capabilities.

By MMS Date 11-17-99

Work involves proprietary/confidential information or equipment (Yes) (No)

CONDITION RECEIVED: _____ Out of tolerance
 In tolerance
_____ Damaged (Contact customer)
_____ Contact _____ Date _____
_____ Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated Per Procedure

CAL ENVIRONMENT:
Temperature 75 °F Humidity 52 %RH

CALIBRATED/REPAIRED:
By [Signature] Cal Procedure CL-9, Nov 99
Date 22 Nov 99 Accuracy [Signature]
Cal Interval 6 mths Reliability Code 7
Next Cal Due 22 May 2000 Cal Time 2 Repair Time _____
Standards used (Asset #) 5245, 5774

DATE COMPLETED 22 Nov 99
DATE PICKED UP 11/23/99 PICKED UP BY [Signature]

36840



Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory



Certificate #
0972-01

Certificate of Calibration

22 November 1999

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHER SCIENTIFIC 15-166A
Description: THERMOMETER
Serial Number: C96-637
Asset Number: 004991

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results of this calibration certificate were determined in accordance with the terms of accreditation unless stated otherwise below.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 75.0 Degrees Fahrenheit Humidity: 52 % RH

Calibration Date: 22 Nov 99 **Calibration Procedure:** CL-9, MAY99

Condition as Received: IN TOLERANCE

Condition as Released: IN TOLERANCE

Remarks:

Approved by:

Jim Patterson, Supervisor or Walt Hill, Metrologist

Certificate # 36840

m:\a2la.rpt Rev date 10 Mar 99

Measurements performed by:

Ken Harp, Technician

Page 1 of 1

WORK ORDER 39221

Date Received 5/25/00

Asset No. 004991 Manufacturer FISHER SCIENTIFIC Model 15-166A
Description THERMOMETER Serial Number C98-637
Accessory Received/Required NONE
Div/CC ID NONE Accessory to Asset No. N/A
Div/CC DIV20 Location B57 Custodian DARRELL DUNN Tel. 6090
Charge/Project No. 20.00751.006 Proprietary/Confidential N Date Required ROUTINE
Work Requested CALIBRATION
Receiving Inspection O.K.
Delivered By DARRELL DUNN Tel. 6090

WORK HISTORY

Date	Start Time	Stop Time	Notes

PARTS

Part Name	Part Number	Cost	Failure Description

39221
17868

WORK SUMMARY

Failure Description _____

Repair Action _____

Cal Procedure CL-9, MAY99 Temp 76 F Hum 47 %

Tech JW Cal Hrs. 7 Repair Hrs. _____ Part Cost _____

Action Taken ew 2

Standards Used 215 5172

Date Cal JUN 2000 Int. 6 Mo. Date Due 1 Dec 2000 Reliability Code 8

Date Picked Up 6/2/00 Picked Up By Darrell Dunn



Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory



Certificate #
0972-01

Certificate of Calibration

1 June 2000

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHER SCIENTIFIC 15-166A
Description: THERMOMETER
Serial Number: C96-637
Asset Number: 004991

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. The results of this calibration relate only to the individual item as described above. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

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The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 76.0 Degrees Fahrenheit Humidity: 47 % RH

Calibration Date: 1 Jun 00 **Calibration Procedure:** CL-9, MAY99

Condition as Received: In Tolerance

Remarks:

Approved by:

Jim Patterson, Supervisor, of Walt Hill, Metrologist

Certificate # 39221

m:\a2la.rpt Rev date 22 May 00

Measurements performed by:

Jerry White, Technician

Page 1 of 1

SOUTHWEST RESEARCH INSTITUTE

Calibration Laboratory

WORK ORDER

Processed by RCRUZ at 3:56:28PM on 12/14/00

||||| ||||| ||||| ||||| ||||| ||||| |||||

Work Order 444041756

Arrived 12/14/00

Asset No. 004991

Manufacturer FISHER SCIENTIFIC

Model 15-166A

Instrument Type/Class THERMOMETER

Serial No. C96-637

Accessory No.

Calibration Procedure CL-9, MAY99

Location B57

Div/Client DIV20

Custodian DARRELL DUNN

Mail Stop B57

Tel. 6090

Charge/Project No. 20.00751.006

Delivered By / Telephone

IN4CAL

Special Instructions _____

WORK NOTES

Date	Hours	Remarks/Notes
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

REPAIR PARTS

Date	Hours	Part Name	Part Number	Failure Description	Cost
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

WORK SUMMARY

Failure Description _____

Repair Action _____

Calibration Procedure _____

Temp 69 F

Hum. 40 %

Tech JW

Totals

Cal Hours 1

Repair Hours _____

Parts Cost _____

Standards Used 210

Date Picked Up 1/9/2001

Picked Up By Darrell Dunn

444041756



Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory



Certificate #
0972-01

Certificate of Calibration

22 December 2000

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHER SCIENTIFIC 15-166A
Description: THERMOMETER
Serial Number: C96-637
Asset Number: 004991

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. The results of this calibration relate only to the individual item as described above. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results of this calibration certificate were determined in accordance with the terms of accreditation unless stated otherwise below.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 69.0 Degrees Fahrenheit Humidity: 40 % RH

Calibration Date: 21 Dec 00 **Calibration Procedure:** CL-9, MAY99

Condition as Received: IN TOLERANCE

Condition as Released: IN TOLERANCE

Remarks:

Approved by:

Jim Patterson, Supervisor, or Walt Hill, Metrologist

Certificate # 444041756

m\A2la.rpt Rev date 22 May 00

Measurements performed by:

Jerry White, Technician

Page 1 of 1

SOUTHWEST RESEARCH INSTITUTE

Calibration Laboratory

WORK ORDER

Processed by RCRUZ at 2:43:41PM on 6/22/01

||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Work Order **444044165**

Arrived 6/22/01

Asset No. 004991

Manufacturer FISHER SCIENTIFIC

Model 15-166A

Instrument Type/Class THERMOMETER

Serial No. C96-637

Accessory No.

Calibration Procedure CL-9, MAY99

Location B57

Div/Client DIV20

Custodian DARRELL DUNN

Mail Stop B57

Tel. 6090

Charge/Project No. 00751.006 1.20

Delivered By / Telephone

IN4CAL

Special Instructions _____

WORK NOTES

Date	Hours	Remarks/Notes
<u>6/25</u>	<u>.5</u>	<u>Calibrate</u>
<u>6/26</u>	<u>.5</u>	<u>Calibrate</u>

REPAIR PARTS

Date	Hours	Part Name	Part Number	Failure Description	Cost

WORK SUMMARY

Failure Description n/a

Repair Action n/a

Calibration Procedure CL-9, 5/99 Temp 75F Hum. 50 %

Tech R Dykstra Totals Cal Hours 1.0 Repair Hours _____ Parts Cost _____

Standards Used 0219

Date Picked Up 7/5/01

Picked Up By B. J. D. A.

444165



Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory



Certificate #
0972-01

Certificate of Calibration

26 June 2001

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHER SCIENTIFIC 15-166A
Description: THERMOMETER
Serial Number: C96-637
Asset Number: 004991
Work Order Number: 444044165

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NC SL Z540-1-1994. The results of this calibration relate only to the individual item as described above. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results of this calibration certificate were determined in accordance with the terms of accreditation unless stated otherwise below.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 75.0 Degrees Fahrenheit Humidity: 50 % RH

Calibration Date: 26 Jun 01 **Calibration Procedure:** CL-9, MAY99

Condition as Received: IN TOLERANCE

Condition as Released: IN TOLERANCE

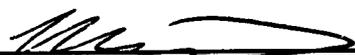
Remarks:

Approved by:



Walt Hill, Supervisor
Institute Calibration Laboratory

Measurements performed by:



Roger Dykstra, Technician

SOUTHWEST RESEARCH INSTITUTE

Calibration Laboratory

WORK ORDER

Received by JIBARRA, 1/8/02 11:36:03AM

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Arrived 1/8/02

Work Order **444046678**

Asset No. 004991 Manufacturer FISHER SCIENTIFIC

Model 15-166A

Equipment Type THERMOMETER

Serial No. C96-637

Accessory No.

Interval 6 M

Calibration Procedure CL-9, MAY99

Location B57

Div/Client DIV20

Custodian DARRELL DUNN

Mail Stop B57

Tel 6090

IN4CAL

Special Instructions _____

Notify before adjustments or repairs. (Provide data with certificate) Certificate Typ _____

Charge/Project No. 00751.006 1.20

Requester / Telephone

DARRELL DUNN/ X6090

This information is correct for the work requested.

WORK NOTES

Date	Hours	Remarks/Notes
<u>1/16/02</u>	<u>W0</u>	<u>CO</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date	Hours	Part Name	Part Number	Failure Description	Cost
<u>N/A</u>	<u>→</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

WORK SUMMARY

Failure Description N/A

Repair Action N/A

Tech R Dyken Cal Hrs. 1.0 Repair Hrs _____ Parts Cost _____ Temp 76 F Hum. 40 %

Standards Used 0219

Date Picked Up 1/11/02

Picked Up By Darrell Dunn



Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory

Certificate of Calibration

10 January 2002

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHER SCIENTIFIC 15-166A
Description: THERMOMETER
Serial Number: C96-637
Asset Number: 004991
Work Order Number: 444046678

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 76.0 Degrees Fahrenheit Humidity: 42 % RH

Calibration Date: 10 Jan 02 **Calibration Procedure:** CL-9, MAY99

Condition as Received: IN TOLERANCE

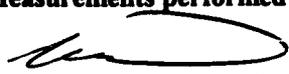
Condition as Returned: IN TOLERANCE

Remarks:

Approved by:


Walt Hill, Supervisor
Institute Calibration Laboratory

Measurements performed by:


Roger Dykstra, Technician

