

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

**WORK ORDER**

CERTIFICATE # 22440 ASSET # 004993 DATE 8-21-96

ITEM DATA:

Manufacturer ERTCO Model K-166A  
Description Thermometer Serial # C-96-397  
Accessories \_\_\_\_\_

ACTION REQUESTED Calibration

CUSTODIAN Darryl Dunn DIV-20

Turned in by: Darryl Phone: 6390

CHARGE # 20-5908-593 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

22440

ACTION TAKEN: (Calibration/Repair/Parts) collected per procedure.

CAL ENVIRONMENT:  
Temperature 78 °F Humidity 35 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure 21-9-30-5703  
Date 26 Feb 96 Accuracy 10%  
Cal Interval 6 mos Time to complete: [Signature]  
Next Cal due 26 Feb 97 Cal 2.5 Repair \_\_\_\_\_  
Standards used (Asset#) 219, 328

DATE COMPLETED 26 Feb 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 # 24335 ASSET # 002993 DATE 17 Feb 97

ITEM DATA:

Manufacturer Fluke Model 15166A  
Description Thermistor Serial # C96-377  
Accessories \_\_\_\_\_

ACTION REQUESTED Cal

CUSTODIAN Div. 20, Darrell Duma

Turned in by: \_\_\_\_\_ Phone \_\_\_\_\_

CHARGE # 205708.561 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
  - \_\_\_\_\_ Reliability code

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated per procedure.  
WUT  
0.03°C 0.0°C

CAL ENVIRONMENT:  
Temperature 80 °F Humidity 40 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure 41-9-30-5H03  
Date 20 Feb 97 Accuracy ± 1.0°C  
Cal Interval 6 Mo Time to complete:  
Next Cal due 20 Aug 97 Cal 2.0 Repair \_\_\_\_\_  
Standards used (Asset#) 219,328

DATE COMPLETED 21 Feb 97  
DATE PICKED UP 2/26/97 PICKED UP BY [Signature]

24335

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

WORK ORDER

CERTIFICATE # 26588 ASSET # 004913 DATE 25 Aug 97

ITEM DATA:  
Manufacturer T. S. Ho. brand / H. S. Inc Model 15-146A  
Description Ther. Indicator Serial # 004-377  
Accessories \_\_\_\_\_

ACTION REQUESTED MI

CUSTODIAN D. P. O. Small

Turned in by: \_\_\_\_\_ Phone 1070

CHARGE # 20.5708561 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 Roseman  
445  
0.032°C 0.0°C

26588

CAL ENVIRONMENT:  
Temperature 80°F Humidity 34%RH

CALIBRATED/REPAIRED:  
By Roseman Cal Procedure WI-9-30-7403  
Date 3 Aug 97 Accuracy ±1°C  
Cal Interval 6 mos Reliability Code: 3  
Next Cal due 3/14/98 Cal Time 1.5 Repair Time \_\_\_\_\_  
Standards used (Asset#) 219, 325

DATE COMPLETED 3 Aug 97  
DATE PICKED UP 9/10/97 PICKED UP BY [Signature]

ASTM E1

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

WORK ORDER

CERTIFICATE # 31709 ASSET # 004993 DATE 21 Oct 98

ITEM DATA:

Manufacturer Fisher Model 15-166A  
Description Thermometer (Partial Immersion) Serial # 096377  
Accessories \_\_\_\_\_

ACTION REQUESTED cal

CUSTODIAN Div 20, Donald Dunn

Turned in by: \_\_\_\_\_ Phone 6090

CHARGE # 20-1108-511 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 MAH Date 10-21-98

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) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CAL ENVIRONMENT:  
Temperature 72°F Humidity 64%RH

CALIBRATED/REPAIRED:  
By W. Hill Cal Procedure 33K5-4-42-1  
Date 30 Oct 98 Accuracy \_\_\_\_\_  
Cal Interval 6 m Reliability Code: 5  
Next Cal due 30 Apr 99 Cal Time 5 Repair Time \_\_\_\_\_  
Standards used (Asset#) 219 328

DATE COMPLETED \_\_\_\_\_  
DATE PICKED UP 11/4/98 PICKED UP BY [Signature]

31709



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

WORK ORDER

CERTIFICATE # 34400 ASSET # 004993 DATE 05 May 99

ITEM DATA:

Manufacturer Fisherbrand Model 15166A  
Description Thermometer Serial # 096371  
Accessories \_\_\_\_\_

ACTION REQUESTED Cal

CUSTODIAN Div 20, Danell Dunn

Turned in by: \_\_\_\_\_ Phone 6096

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 MAD Date 05-05-99

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) collected by Danell Dunn

CAL ENVIRONMENT:  
Temperature 71 °F Humidity 52 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure F.O. 3315-4-42-1, A-27  
Date 12/21/99 Accuracy 1/2 deg  
Cal Interval 6 mos Reliability Code: 5  
Next Cal due 12/21/99 Cal Time 1.5 Repair Time \_\_\_\_\_  
Standards used (Asset#) 5174, 7001

DATE COMPLETED 12/21/99  
DATE PICKED UP 5/18/02 PICKED UP BY [Signature]

34400



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

WORK ORDER

WORK ORDER # 37054 ASSET # 004993 DATE 08 Dec 99

ITEM DATA:

Manufacturer Fisher Model 15-166A  
Description Thermometer Serial # 196-377  
Accessories \_\_\_\_\_

ACTION REQUESTED cal

CUSTODIAN D. S. Darrell Dunn

Turned in by: \_\_\_\_\_ Phone 6096

CHARGE # 20.011 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 WAG Date 18-08-99

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) cal

CAL ENVIRONMENT:  
Temperature 70 °F Humidity 30 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure EL-9 MAY 99  
Date 10 Dec 99 Accuracy 1/1 DE  
Cal Interval 6 Reliability Code 5  
Next Cal Due 10 JUN 00 Cal Time 1.3 Repair Time \_\_\_\_\_  
Standards used (Asset #) 5174

DATE COMPLETED 10 Dec 99  
DATE PICKED UP 12/14/99 PICKED UP BY [Signature]

37054





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

Accredited



Certificate #  
0972-01

## Certificate of Calibration

10 December 1999

**Issued to:** DARRELL DUNN DIV20 B57  
**Manufacturer/Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial Number:** C96-377  
**Asset Number:** 004993

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: 70.0 Degrees Fahrenheit Humidity: 30 % RH

**Calibration Date:** 10 Dec 99 **Calibration Procedure:** CL-9 MAY 99

**Condition as Received:** IN TOLERANCE

**Condition as Released:** IN TOLERANCE

**Remarks:**

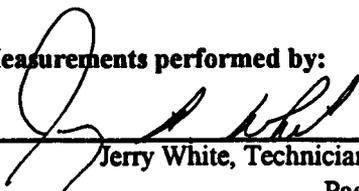
**Approved by:**

  
\_\_\_\_\_  
Jim Patterson, Supervisor or Walt Hill, Metrologist

**Certificate #** 37054

m:\a2la.rpt Rev date 10 Mar 99

**Measurements performed by:**

  
\_\_\_\_\_  
Jerry White, Technician

Page 1 of 1

# WORK ORDER 39330

Date Received 6/5/00

Asset No. 004993 Manufacturer FISHER SCIENTIFIC Model 15-166A  
 Description THERMOMETER Serial Number C96-377  
 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

### WORK SUMMARY

Failure Description \_\_\_\_\_  
 Repair Action \_\_\_\_\_  
 Cal Procedure CL-9 MAY 99 Temp 23 F Hum 54 %  
 Tech JW Cal Hrs. 2 Repair Hrs. \_\_\_\_\_ Part Cost \_\_\_\_\_  
 Action Taken enL  
 Standards Used 5243 5174  
 Date Cal 9 JUN 2000 Int. 6 Mo. Date Due DEC 2000 Reliability Code 7  
 Date Picked Up 6/14/00 Picked Up By Melissa Nugent  
 workreq.rpt Rev 30 Jan 00 6/29/2000

39330





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

9 June 2000

**Issued to:** DARRELL DUNN DIV20 B57  
**Manufacturer/Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial Number:** C96-377  
**Asset Number:** 004993

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: 73.0 Degrees Fahrenheit Humidity: 54 % RH

**Calibration Date:** 9 Jun 00 **Calibration Procedure:** CL-9 MAY 99

**Condition as Received:** In Tolerance

**Remarks:**

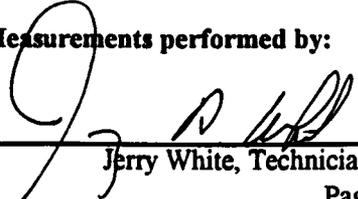
**Approved by:**

  
\_\_\_\_\_  
Jim Patterson, Supervisor, or Walt Hill, Metrologist

Certificate # 39330

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

1 10000 0000 0000 0000 0000 0000 0000

**Work Order 444041751**

Arrived 12/14/00

Asset No. 004993

Manufacturer FISHER SCIENTIFIC

Model 15-166A

Instrument Type/Class THERMOMETER

Serial No. C96-377

Accessory No.

Calibration Procedure CL-9 MAY 99

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 65F Hum. 40 %

Tech QNW Totals Cal Hours 1 Repair Hours \_\_\_\_\_ Parts Cost \_\_\_\_\_

Standards Used 219

Date Picked Up 1/9/2001

Picked Up By [Signature]

444041751





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:** C96-377  
**Asset Number:** 004993

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: 69.0 Degrees Fahrenheit Humidity: 40 % RH

**Calibration Date:** 21 Dec 00 **Calibration Procedure:** CL-9 MAY 99

**Condition as Received:** IN TOLERANCE

**Condition as Released:** IN TOLERANCE

**Remarks:**

**Approved by:**

Jim Patterson, Supervisor, or Walt Hill, Metrologist

**Certificate # 444041751**

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 2:39:01PM on 7/9/01

1 0001 0011 0011 0011 0011 0011 0011 0011

Work Order **444044289**

Arrived 7/9/01

Asset No. 004993

Manufacturer FISHER SCIENTIFIC

Model 15-166A

Instrument Type/Class THERMOMETER

Serial No. C96-377

Accessory No.

Calibration Procedure CL-9 MAY 99

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>2/16</u>	<u>2.0</u>	<u>Calibration</u>

### REPAIR PARTS

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

### WORK SUMMARY

Failure Description N/A

Repair Action N/A

Calibration Procedure CL-9, 5/99 Temp 78F Hum. 46 %

Tech R. J. K. S. T. V. Totals Cal Hours 2.0 Repair Hours   Parts Cost  

Standards Used 0215

Date Picked Up 7/20/01

Picked Up By Darrell Dunn

44289

n	Act	Std	
-20	-20 °C	-19.959 °C	0.023
0	0.2 °C	6.071 °C	0.022 +/- 1.0 °C
50	50.2 °C	50.165 °C	
100	100.0 °C	99.945 °C	0.026
150	149.6 °C	149.830 °C	+1.5 °C

0.039

41751

-19.959  
 -20.0  
 -----  
 .041

28522





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

16 July 2001

**Issued to:** DARRELL DUNN DIV20 B57  
**Manufacturer/Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial Number:** C96-377  
**Asset Number:** 004993  
**Work Order Number:** 444044289

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: 78.0 Degrees Fahrenheit Humidity: 46 % RH

**Calibration Date:** 16 Jul 01 **Calibration Procedure:** CL-9 MAY 99

**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



Arrived 1/8/02

Work Order **444046679**

Asset No. 004993 Manufacturer FISHER SCIENTIFIC

Model 15-166A

Equipment Type THERMOMETER

Serial No. C96-377

Accessory No.

Interval 6 M

Calibration Procedure CL-9 MAY 99

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>1/10/02</u>	<u>1.0</u>	<u>Cal</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date	Hours	Part Name	Part Number	Failure Description	Cost
<u>n/a</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### WORK SUMMARY

Failure Description n/a

Repair Action n/a

Tech R. Daksh Cal Hrs. 1.0 Repair Hrs \_\_\_\_\_ Parts Cost \_\_\_\_\_ Temp 76 F Hum. 42 %

Standards Used 0219

Date Picked Up 1/11/02

Picked Up By Darrell Dunn

444046679





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:** C96-377  
**Asset Number:** 004993  
**Work Order Number:** 444046679

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 MAY 99

**Condition as Received:** IN TOLERANCE

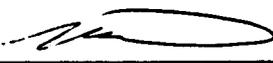
**Condition as Returned:** IN TOLERANCE

**Remarks:**

**Approved by:**

  
Walt Hill, Supervisor  
Institute Calibration Laboratory

**Measurements performed by:**

  
Roger Dykstra, Technician