

RECEIVED  
REGION 1

2016 MAR -2 PM 1:10

NMS83

February 28, 2006

U. S. Nuclear Regulatory Commission  
Region 1  
Attn: Mr. Michael Perkins  
Sr. Licensing Assistant  
475 Allendale Road  
King of Prussia, PA 19406

29-30700-01  
03035884


Reference: Mallinckrodt Baker, Inc.  
600 North Broad Street  
Phillipsburg, NJ 08865  
License Number 29-30700-01

*MS*

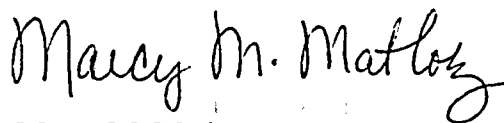
Dear Mr. Perkins;  
The purpose of this letter is to request the discontinuance of License Number 29-30700-01, Docket Number 030-35884. As stated in my letter of February 23, 2006 the Nuclear Density Meters covered by this license are no longer at our site.

Thank you for your assistance and cooperation.

Sincerely,



Lillian E Campbell  
Radiation Safety Officer  
Mallinckrodt Baker, Inc.



Marcy M. Matlosz  
Director, Quality Assurance  
and Regulatory Affairs  
Mallinckrodt Baker, Inc.

138495  
NRC/RGN MATERIALS-002  
FAX RECEIVED 2/29/2006

**tyco**

**Specialty  
Products**

**Mallinckrodt  
Baker**

Mallinckrodt Baker, Inc.  
222 Red School Lane  
Phillipsburg, NJ 08865

Tele: 908 859-2151  
Fax: 908 859-6905

RECEIVED  
REGION 1

2006 FEB 27 PM 2:30

February 23, 2006

U. S. Nuclear Regulatory Commission  
Region 1  
Attn: Mr. Michael Perkins  
Sr. Licensing Assistant  
475 Allendale Road  
King of Prussia, PA 19406

Reference: Mallinckrodt Baker, Inc.  
600 North Broad Street  
Phillipsburg, NJ 08865  
License Number 29-30700-01  
7

Dear Mr. Perkins:

The purpose of this letter is to inform the US NRC that Mallinckrodt Baker, Inc. (MBI) has had removed from our premises two Nuclear Density Meters, License Number 29-30700-01, Docket Number 030-35884. The removal was accomplished this past December 20, 2005 by technicians from Thermo Electron, 2555 N. IH-35, Round Rock, Texas 78664. I have enclosed a copy of the Receipt of Radioactive Material; our last Radiation Program Safety Checklist; certificate of calibration for our survey meter; gauge inspection and leak test certificate; and radiation survey and leak test certificate.

Thank you for your assistance and cooperation.

Sincerely,

*Lillian E. Campbell*

Lillian E Campbell  
Radiation Safety Officer  
Mallinckrodt Baker, Inc.

Encl.

NMCS/RONI MATERIALS-002

## ACKNOWLEDGMENT OF RECEIPT OF RADIOACTIVE MATERIAL

February 22, 2006

Bob Snyder  
Mallinckrodt Baker  
600 North Broad Street  
Phillipsburg, NJ 08865

RMA Number 30320

Attention Bob Snyder:

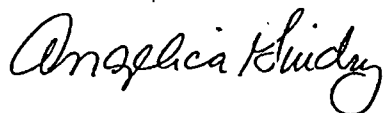
This is to certify that Thermo Electron has received and accepted ownership of the radioactive material described below pursuant to applicable regulations and as authorized by our Texas Radioactive Material License L03524.

Manufacturer	Model	Serial	Isotope	Source	Activity Units	Assay
TN TECHNOLOGIES	5031S	7129	Cs-137	CG-2422	500 mCi	11/6/2001
TN TECHNOLOGIES	5031S	7130	Cs-137	CG-2419	500 mCi	11/6/2001
Summary (2 sources)					1000 mCi	

This receipt should be retained in your files as a permanent record showing the disposition of this radioactive material. If you are not the Radiation Safety Officer or responsible for maintaining regulatory records for radioactive material, please forward this letter to the appropriate person.

If you have any questions or require additional assistance, please contact us at (800) 437-7979 or (713) 272-0404.

Sincerely,  
Thermo Electron



Angelica Guidry  
Services Support Specialist

MALLINCKRODT BAKER, INC  
Annual Radiation Protection Program  
Safety Checklist

Date: 9/26/05 Auditor: \_\_\_\_\_  
 Permit #: \_\_\_\_\_ License #: 293070001L  
 RSO: Julian E. Campbell Phone #: 908-859-2151  
 Radiation Source: Nuclear Density Meter  
 Strength of Source: Cesium 137 - 500mR/yr  
 Number of Sources: 2

Item	Yes	No	Due Date
Are the Radiation Safety Program procedures current and appropriate?		✓	1/30/06
Is personnel monitoring required?		✓	
Use of radioactive material and handling procedures are reviewed annually for quality assurance		✓	2/28/06
Is training for all individuals authorized to handle the sources of radiation current?	✓		
Are training procedures in place for visitors, contractors or members of the public who may enter "Radiation Areas?"		✓	11/30/05
Are all areas needing to be posted been identified and properly posted?	✓		
Have audits been performed verifying location of sources of radiation and training of personnel?	✓		
Is documentation of any surveys performed or any monitoring used detailed?	✓		
Has an audit been performed of the survey instrument used?	✓		
Are two survey meters available and calibrated within one year?		✓	10/31/05
Is the person responsible for instruments identified?	✓		
Where are regulatory documents and records maintained? Are documents current?	✓		
Are Notice, Instructions and Reports to Workers posted?	✓		
Are procedures in place for handling of radioactive devices during an emergency?	✓		

Item	Yes	No	Due Date
Is an accident/incident reporting system in place?	✓		
Is OSHA to be informed training is completed as required?		✓	
Comments:			



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

# CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 325-235-5494  
501 OAK STREET FAX NO. 325-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER: MALLINCKRODT BAKER ORDER NO. 242415 / 295196

Mfg. Ludlum Measurements, Inc. Model 14C Serial No. 195615

Mfg. Ludlum Measurements, Inc. Model 44-38 Serial No. PR 202159

Cal. Date 14-Sep-05 Cal Due Date 14-Sep-06 Cal. Interval 1 Year Meterface 202-241

Check mark  applies to applicable instr. and/or detector IAW mfg. spec. T. 76 °F RH 48 % Alt 700.8 mm Hg

- New Instrument Instrument Received  Within Toler. +-10%  10-20%  Out of Tol.  Requiring Repair  Other-See comments
- Mechanical ck.  Meter Zeroed  Background Subtract  Input Sens. Linearity
- F/S Resp. ck.  Reset ck.  Window Operation  Geotropism
- Audio ck.  Alarm Setting ck.  Batt. ck. (Min. Volt) 2.2 VDC
- Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.  Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 900 V Input Sens. 31 mV Def. Oper. 900 V at 31 mV Threshold Dial Ratio          =          mV

HV Readout (2 points) Ref./Inst.          /          V Ref./Inst.          /          V

## COMMENTS:

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X 1000	1500 mR/hr	1.45	1.45
X 1000	500 mR/hr	0.55	0.55
X 100	150 mR/hr	1.5	1.5
X 100	50 mR/hr	0.5	0.5
X 10	15 mR/hr	1.5	1.5
X 10	5 mR/hr	0.5	0.5
X 1	1.5 mR/hr = 1650 cpm	1.5	1.5
X 1	1.0 mR/hr	1.0	1.0
X 0.1	165 cpm	1.5	1.5
X 0.1	55 cpm	0.5	0.5

\*Uncertainty within ± 10% C.F. within ± 20% X 0.1 Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital readout			Log Scale		

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1973 State of Texas Calibration License No. LO-1963

## Reference Instruments and/or Sources:

- CS-137 Gamma S/N  1162  G112  M565  5105  T1008  T879  E552  E551  720  734  1616  Neutron Am-241 Be S/N T-304
- Alpha S/N  Beta S/N  Other
- m 500 S/N 189491  Oscilloscope S/N  Multimeter S/N 82250292

Calibrated By: Donnie Mestas Date 14-Sep-05

Reviewed By: Dwain Jackson Date 14-Sep-05

# Gauge Inspection and Leak Test Certificate

**USER**  
 company: Mallinckrodt Baker  
 address: 600 North Broad St.  
 city: Phillipsburg  
 state: NJ zip: 08865  
**PRODUCT**  
 brand: Thermo Electron  
 model: 5031S serial: B7129  
 location: TK 33  
 tag: NA  
 isotope:  Cs-137  Co-60  
 Am-241-Be  
 activity: 500 mCi assay: 11/01  
**SURVEY METER** (req'd for leak test certification only)  
 brand: Ludlum  
 model: 14C serial: 195615  
 cal. date: August 5, 2003  
 background: 0.01 mR/hr  
**LEAK TEST** (QT/1S)  
 not done  
 measured < 0.0045 uCi  
 measured > 0.005 uCi, contact RSO  
**PERFORMED BY**  
 company: Thermo Electron  
 name: Norman Norton  
 signature: *Norman Norton*  
 date: February 23, 2005

## System Information

### APPLICATION

- point level  
 dual point level  
 continuous level  
 density  
 neutron backscatter  
 weigh scale  
 strip source  
 insertion source  
 analyzer

### STATUS

- in use  
 mounted but not in use  
 unlocked  
 locked off  
 in storage

## Five Point Safety Check

### (1) NAMEPLATE

- okay  needs cleaning  
 needs to be replaced

### (2) ON/OFF INDICATOR

- okay  needs cleaning  
 needs to be replaced

### (3) SHUTTER LOCK

- okay  needs to be replaced

### (4) SHUTTER OPERATION

- okay  needs cleaning  
 VERIFIED BY:  needs lubrication  
 survey  stuck on  
 response  stuck off  
 missing

### (5) OVERALL CONDITION

- okay  mild to moderate corrosion  
 severe corrosion  
 needs to be replaced

### COMMENTS

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# Thermo MeasureTech

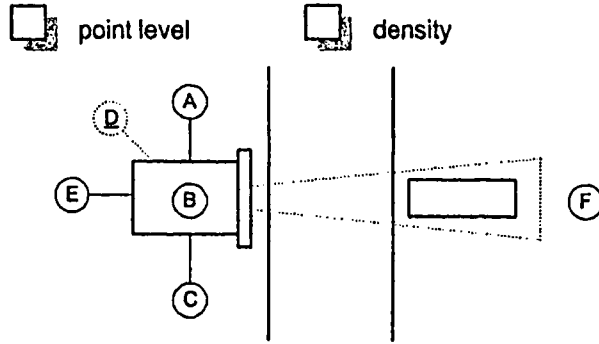
2555 N. IH-35, Round Rock, Texas 78664 800-738-0801, 512-388-9100

Instructions: This form is may be used to record the visual inspection and leak testing of a nuclear gauge. A preprinted inventory label may be placed over the user and product information blanks for convenience. When this form is used for leak test certification, the survey meter information must be completed. As you complete the inspection, check all of the blanks that apply. Use comments to document the findings and/or recommended corrective actions as needed.

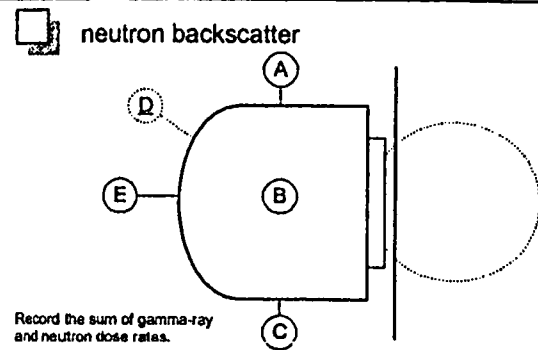
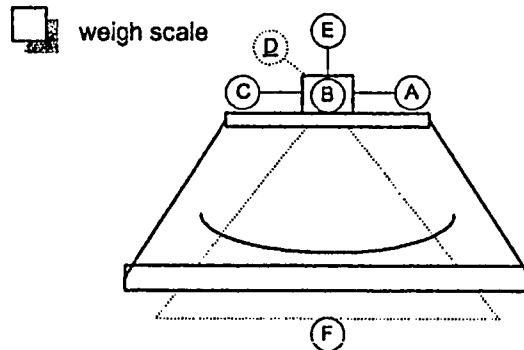
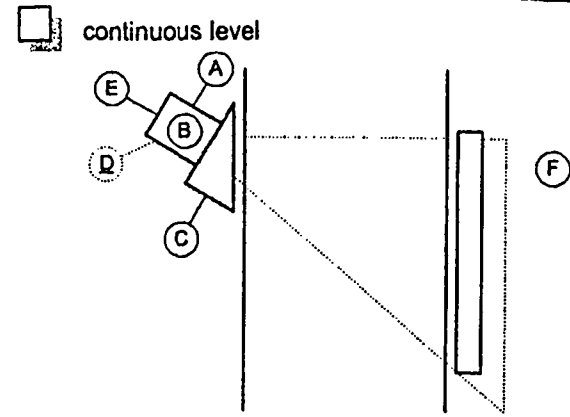
This record is important and must be kept on file for inspection by the regulatory agency.  
 (c)2001 Thermo MeasureTech  
 24 Hour Emergency 512-388-9310  
<http://www.thermomeasuretech.com>

# Radiation Survey and Leak Test Certificate

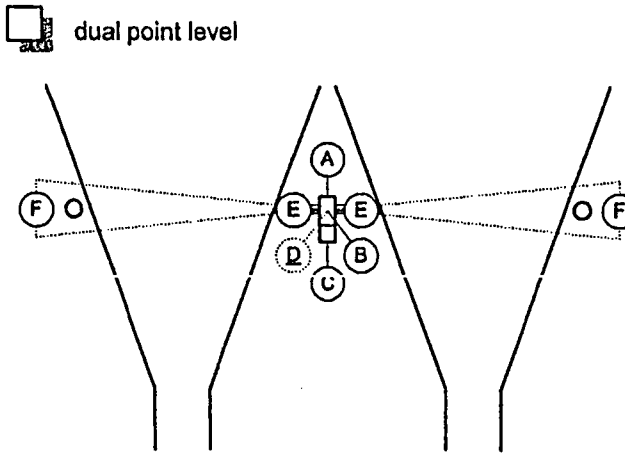
**USER**  
 company: Mallinckrodt Baker  
 address: 600 North Broad St.  
 city: Phillipsburg  
 state: NJ zip: 08865  
**PRODUCT**  
 brand: Thermo Electron  
 model: 5031S serial: B7130  
 location: TK 32  
 tag: NA  
 isotope:  Cs-137  Co-60  
 Am-241-Be  
 activity: 500 mCi assay: 11 / 01  
**SURVEY METER**  
 brand: Ludlum  
 model: 14C serial: 195615  
 cal. date: August 5, 2003  
 background: 0.01 mR/hr  
**LEAK TEST (QT/1S)**  
 not done  
 measured < 0.0045 uCi  
 measured > 0.005 uCi, contact RSO  
**CERTIFIED BY**  
 company: Thermo Electron  
 name: Norman Norton  
 signature: *Norman Norton*  
 date: February 23, 2005



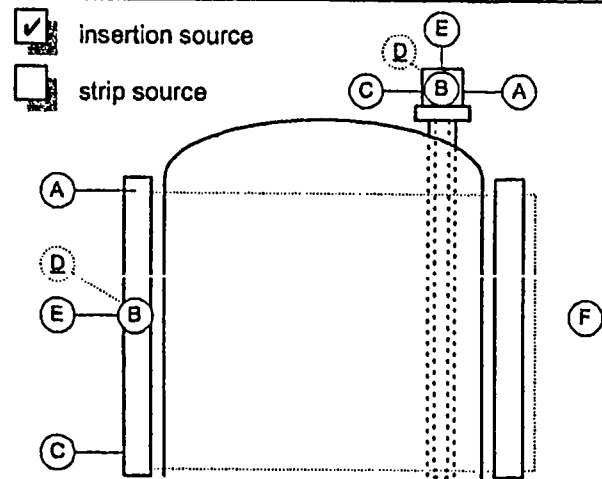
Dose rates are measured 30 cm perpendicular to the surface indicated by the callouts. Underlined letters signify hidden measure points.



Record the sum of gamma-ray and neutron dose rates.



Point E is only measured in a single point configuration.



**Thermo MeasureTech**

2555 N. IH-35, Round Rock, Texas 78664 800-738-0801, 512-388-9100

shutter ON  process EMPTY  
 OFF  FULL

mrem/hour at 30 cm from surface					max
A	B	C	D	E	F
2.0	1.7	1.6	1.8	1.5	0.7

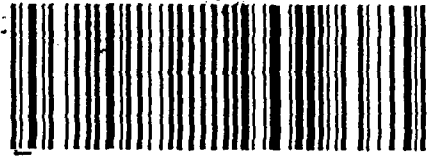
This certificate is important and must be kept on file for inspection by the regulatory agency.  
 (c)2001 Thermo MeasureTech  
 24 Hour Emergency 512-388-9310  
<http://www.thermo-measuretech.com>



138495

Mallinckrodt Baker, Inc.  
Phillipsburg, NJ 08865

**GUARANTEED MAIL**



7001 2510 0002 5196 4865



02 1A \$ 04.88<sup>0</sup>  
0004326916 FEB 24 2006  
MAILED FROM ZIP CODE 08865

**tyco**

*Specialty  
Products*

**Mallinckrodt  
Baker**

U.S. Nuclear Regulatory Commission  
Region 1  
Attn: Mr. Michael Perkins  
Sr. Licensing Assistant  
475 Allendale Road  
King of Prussia, PA 19406

19406+1431-99 C002



This is to acknowledge the receipt of your letter/application dated

2/28/2006, and to inform you that the initial processing which includes an administrative review has been performed.

TERMINATION 29-30700-01  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 138495.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.