NMSB3

February 28, 2006

29-30700-01

03035884

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

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

tyco
Specialty Products

Mallinckrodt Baker

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

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

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

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.

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

Angelica Guidry
Services Support Specialist

MALLINCKRODT BAKER, INC
Annual Radiation Protection Program
Safety Checklist

Date: 9/26/05 Auditor: _____

Permit #: _____ License #: 2930700012

RSO: Lillian 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?	✓		

lec
Rev. 9/14/05

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

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Rev. 9/14/05

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. PR202159

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 Det. 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	1.0mR/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 ANS /NCSL Z540-1-1994 and ANSI N323-1978 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 Mieras Date 14-Sep-05

Reviewed By: Duane Jackson Date 14-Sep-05

FORM C22A 11/26/2003

AC Inst. Only ☐ Passed Dielectric (Hi-Pot) and Continuity Test ☐ Failed:

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: Feburary 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

Thermo MeasureTech
2555 N. IH-35, Round Rock, Texas 78664 800-736-0801, 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.

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

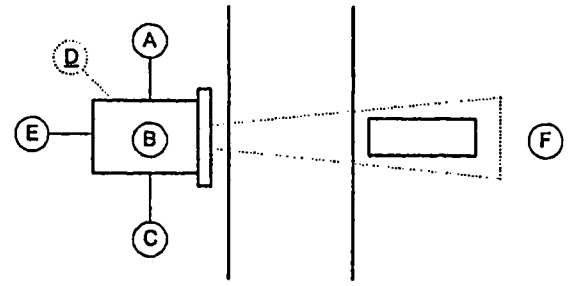
PRODUCT
brand: Thermo Electron
model: 5031S serial: B7130
location: TK 32
tag: NA
isotope: ☑ Cs-137 ☐ Co-60
☐ Am-241-Be
activity: 500 mCi assay: 11 / 01

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

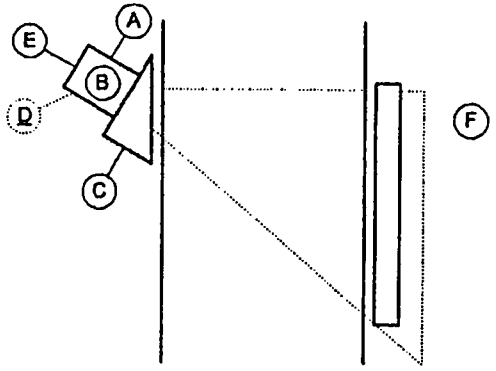
CERTIFIED BY
company: Thermo Electron
name: Norman Norton
signature: Norman Norton
date: Feburary 23, 2005

☐ point level ☐ density

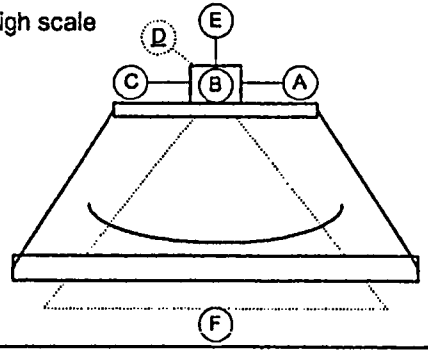


Dose rates are measured 30 cm perpendicular to the surface indicated by the callouts.
Underlined letters signify hidden measure points.

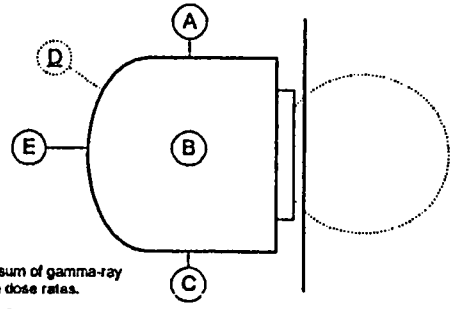
☐ continuous level



☐ weigh scale

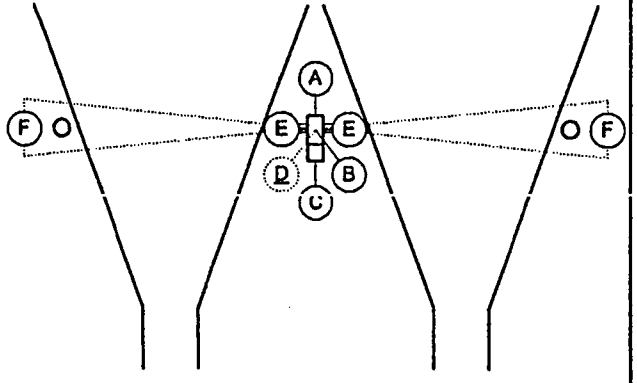


☐ neutron backscatter



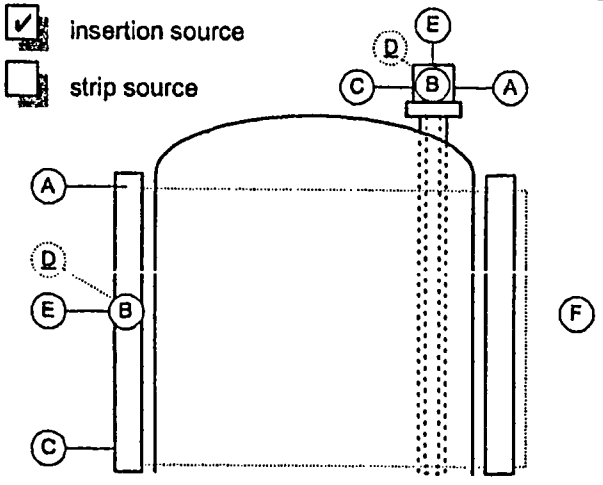
Record the sum of gamma-ray and neutron dose rates.

☐ dual point level



Point E is only measured in a single point configuration.

☑ insertion source
☐ strip source



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

shutter: ☑ ON ☐ OFF
process: ☐ EMPTY ☑ FULL

mrem/hour at 30 cm from surface

A	B	C	D	E	max 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.

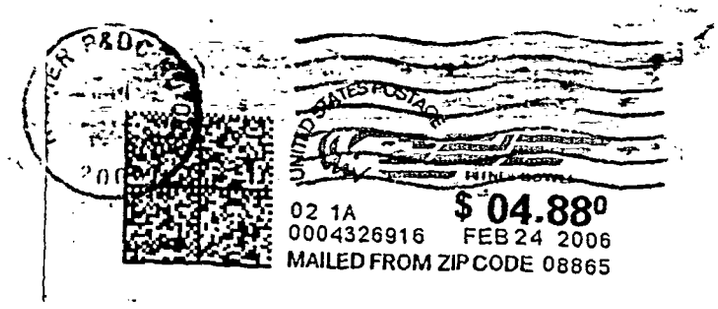
24 Hour Emergency 512-388-9310
http://www.thermomeasuretech.com

138495

CERTIFIED MAIL

Mallinckrodt Baker, Inc.
Phillipsburg, NJ 08865

7001 2510 0002 5196 4865



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

2/29/2006, 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

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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.

NRC FORM 532 (RI
(6-96)

Sincerely,
Licensing Assistance Team Leader