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REGION 1

betacontrol
of America Inc.

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MS-16

betacontrol of America - P.O. Box 18 - Towaco - NJ 07082

NUCLEAR REGULATORY COMMISSION REGION 1

Attn.: Thomas K. Thompson

475 Allendale Road

King of Prussia, PA 19406-1415

P.O. Box 18
425 Route 202
Towaco, NJ 07082
Phone: (973) 263-8053
Fax: (973) 263-0477
Email: gage263@aol.com
Home: www.betacontrol.de

Contact: Mr. Thomas K. Thompson

Tel.: 610-337-5303

Cc: Betacontrol GmbH Germany, Fax: 49-2734-7711

Att.: Mr. Hans Schlemm

Copy for:

☐ MGMT

☐ Sales

☐ Service

☐ Shipping

☐ WPD/PD

☐ WS

☐ TO

☐ HFR

Your ref. / S/ref.

Your letter / Su carta

Our ref. / N/ref.

Direct connection / Conexión directa

Date / Fecha

Control #136076

M.Hannig

(973) 263-8053

Mar. 29, 05

SUBJECT: ADDITIONL INFORMATION FOR RENEWAL OF LICENSE 29-23394-01;
CONTROL NO. 136076 ⁶ _{RLS}

03021015

Dear Thomas

This is in reference to your letter from March 9th, 2005 requesting additional information concerning application for renewal of license, control no. 136076, I give you the following additional information:

1. Markus Hannig will be the authorized user who will be installing and servicing the gauges.

Markus Hannig was employed at betacontrol GmbH, Am Weidekamp 10, D-57258 Freudenberg, Germany from August 1991 to June 2001. He was involved in building the thickness measuring systems. Therefore he has experiences in handling Kr-85, Sr-90, Pr-147, Am-241 and X-Ray devices.

Additional training is as follows:

Successfully completed the course, "Radiation Safety". One week in Germany.

Training completed March, 2001*

Successfully completed the course, "Radiation Safety Officer" conducted by Raymond Johnson. 40 hours classroom in the USA.

Training completed September, 2003*

Successfully completed the course, "DOT & NRC Requirements for Shipping and Receiving Radioactive Materials. In the USA.

Training completed September, 2003*

*Certificates attached

136076



ADDITIONAL INFORMATION FOR RENEWAL OF LICENSE 29-23394-01
CONTROL NO. 136070 *6 RLT*

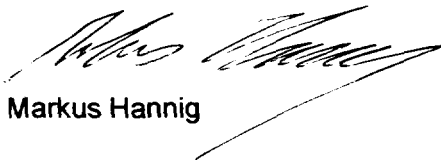
Date 28-Mar-05
Fecha

2. We are using a Ludlum Model 3 as a survey instrument. The last certificate of calibration is attached to this letter.
We added a 1" X1" NaI gamma scintillator to the survey instrument. At the same time, in May 2004, it was calibrated again. The new calibration date is May 28th, 2005.
3. The authorized user will have monitoring devices as finger rings and whole body badges. The last invoice from our provider GDS is attached to this letter

If you have any questions, please feel free to call me.

I appreciate your assistance in this matter.

Best regards,




Markus Hannig

Attachments: Certificate from Zentrum für Strahlenschutz und Radioökologie
Certificate from Radiation Safety Academy
Certificate from Radiation Safety Academy

Certificate from RSA Laboratories, Inc
Invoice from Global Dosimetry

Basic Course in Radiation Protection
Radiation Safety Officer
DOT & NRC Requirements for Shipping and Receiving
Radioactive Materials
Calibration

Zentrum für Strahlenschutz und Radioökologie

Universität Hannover 

Am Kleinen Felde 30 30167 Hannover

Tel.: (05 11) 7 62-33 13 Fax.: 33 19 Home: www.strahlenschutzkurse.de

Certified English Translation of the certificate of competence in radiation protection for the handling of radioactive material of the March 16, 2001, undersigned by Dr. H. G. Vogt of the Centre of Radiation Protection and Radioecology of the University of Hannover

CERTIFICATE

about the participation in a training course on radiation protection

Mr. Markus Hannig

born on 06.02.1971 in Siegen

regularly attended from **12.03.2001** to **16.03.2001**

a training course designated as

BASIC COURSE IN RADIATION PROTECTION

Handling of sealed radioactive material:

Activities up to the 10^6 - fold of the limit not yet subject to authorization

Handling of unsealed radioactive material:

Activities up to the 10^5 - fold of the limit not yet subject to authorization

according to the decree about the protection against harms caused by ionizing radiation (Strahlenschutzverordnung - StrlSchV) in its revision of May 18, 1989.

The course included 43 lessons and imparted the subjects of **special knowledge groups 2.2 and 4.2** of the guideline regarding special knowledge in radiation protection.

The following subjects were treated:

Fundamentals of radiation physics, kinds of nuclear radiation and sources, interaction of radiation with matter, dose quantities, dose monitoring, radiation monitoring principles and instruments, protection against radiation fields, biological effects of radiation, mechanical and constructional radiation protection, maximum permissible doses, radiation protection areas, handling of radiation sources, transport of radioactive material, radiation protection safety, safety precautions to be taken in case of abnormal occurrences and accidents, tasks and duties of the radiation protection supervisor, legal rules and guidelines, danger by unsealed radioactive material, protection against contamination, radiation monitoring of activities - contaminations and incorporations, identification of nuclides, fundamentals of radiochemistry, handling of unsealed radioactive material, maximum permissible uptake of radioactive material, radiation protection supervision, radiation protection technics, handling of waste, decontamination, official proceedings.

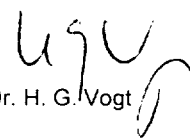
The participant passed the final examination.

Hannover, 16.03.2001


Dr. H. G. Vogt
(Head of the Course)

The Land authority (Niedersächsischer Minister für Bundesangelegenheiten) has been informed about the designated course on radiation protection (Gem. RdErl. d. MU u. d. MW vom 24.08.1992 - 403 b-40341/1-, Nds. MBl. 32. 1992, S. 1293)

Hannover, 22.11. 2004


Dr. H. G. Vogt

Certificate of Training

Awarded To

Markus Hannig

Recognizing completion of 40 hours of specialized instruction in

Radiation Safety Officer

September 26, 2003

Presented By

Radiation Safety Academy

481 North Frederick Avenue, Suite 302

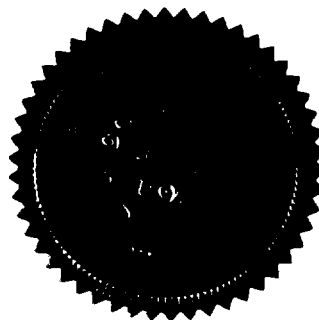
Gaithersburg, Maryland 20877

AAHP has awarded this course 32 Continuing Education Credits, 2003-00-018

ABIH has awarded this course 4.5 CM Points, CM Approval # 03-021



Raymond Johnson, CHP, PE, RSO
Training Director



Certificate of Training

This Certifies That

Markus Hannig

has been trained, tested and successfully completed the specialized instruction in

DOT & NRC Requirements for Shipping and Receiving Radioactive Materials

September 24, 2003

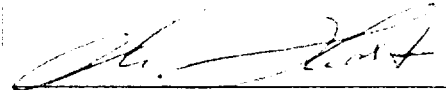
Presented By: **Sean M. Austin, Instructor**
Radiation Safety Academy

481 North Frederick Avenue, Suite 302, Gaithersburg, Maryland 20877
www.RadiationSafetyAcademy.com -- 301-990-6006

Presented For: **Betacontrol of America**

Presented At: **Gaithersburg, MD**

This certifies that the employee named on this certificate has been trained and tested in accordance with the training requirements of 49 CFR, Subpart H.



Employer's Signature



Sean Austin, CHP
Senior Health Physicist

This certificate is valid for 24 months for ICAO/IATA and for three years for U.S. Department of Transportation and U.S. Nuclear Regulatory Commission or Agreement State Agencies.

CERTIFICATE OF CALIBRATION (COUNT-RATE INSTRUMENT)



RSA Laboratories, Inc.

21 Pendleton Drive, P.O. Box 61
Hebron, Connecticut 06248
(860) 228-0721 Fax (860) 228-4402

Customer and Contact: Beta Control, c/o Atlantic Nuclear Corp. (781) 828-9118)

Customer Address: 425-RT202, Towado, NJ 07082

Inst. Mfr. & Model Ludlum Model 3

Inst. Type Survey Meter

Inst. s/n 194710

Det. Mfr. & Model not indicated

Det. Type Pancake G-M

Det. s/n not indicated

Cal. Date 04 March 2004

Due Date 04 March 2005

Cal. Interval 1 year

Environmental conditions: Temperature: 68°F Relative Humidity 32% Atmospheric Pressure 29.45 inches Hg

Pre-calibration Checks:

■ Contamination survey

■ Battery check

■ Slow response check

■ Det. volts 900 Vdc

■ Mechanical check

■ Audio check

□ Window operation

■ Meter zero

□ Reset check

□ Plateau check

■ Geotropism check

■ Fast response check

□ Alarm set

■ Input sens. 35 mV

■ Pulse generator s/n 94926

□ Oscilloscope s/n 171-04928

■ Voltmeter s/n 57410002

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

Comments: Precision check measurement taken with probe face in contact with source.

S/N of source used for precision check not indicated Isotope latern mantleDedicated Source? □Yes ■No

Reading #1 9,000 cpm

Reading #2 9,000 cpm

Reading #3 9,000 cpm

Mean 9,000 cpm

Precision: ■ ± < 10% □ ± 10-20% □ Out of tolerance

Range Multiplier	Reference Calibration Point	Instrument Indication
x 100	400,000 cpm	400,000 cpm
x 100	100,000 cpm	100,000 cpm
x 10	40,000 cpm	40,000 cpm
x 10	10,000 cpm	10,000 cpm
x 1	4,000 cpm	4,000 cpm
x 1	1,000 cpm	1,000 cpm
x 0.1	400 cpm	400 cpm
x 0.1	100 cpm	100 cpm

All ranges calibrated electronically.

Local background (cpm) ≈ 50

Range Multiplier	Cal. Source Used (isotope and S/N)	Source Activity (dpm)	Instrument Reading (cpm)	4σ Instrument Efficiency (%)
x 10	C-14 #4456	202,100	8000	3.93
x 1	Pm-147 #5381	9,825	800	7.63
x 1	Tc-99 #D702	23,064	2600	11.06
x 1	Cs-137 #2886	18,011	3700	20.27
x 10	Cl-36 #D700	23,598	5000	20.98
x 10	Sr/Y-90 #D711	45,115	10,000	22.05

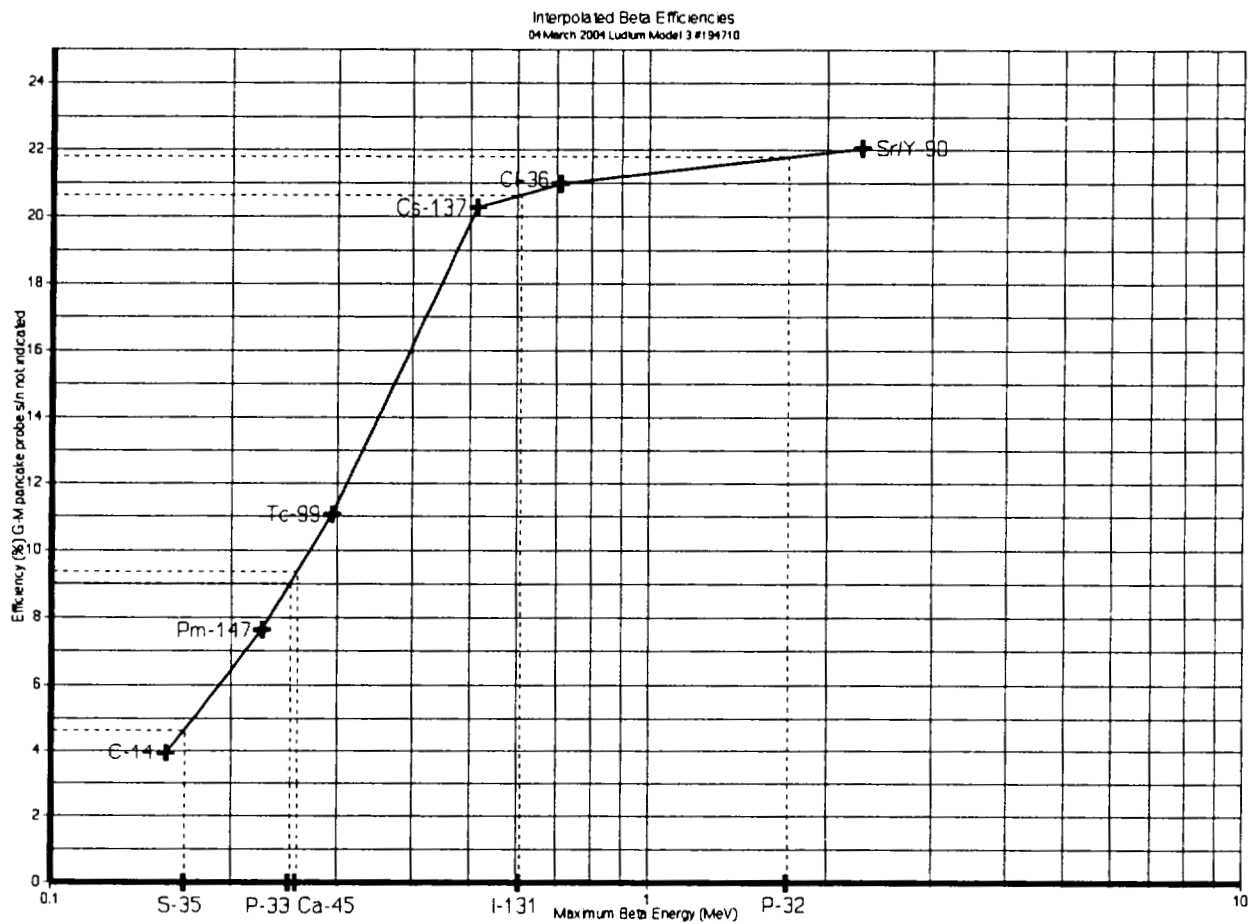
RSA Laboratories ID# 8339. Instrument indicates within ±10% of calibration points unless otherwise indicated. Source-to-detector entry window distance for efficiency determinations is 1 cm unless otherwise specified. RSA Laboratories, Inc. certifies that the above instrument has been calibrated with standards traceable to the National Institute of Standards and Technology, or have been derived from accepted values of natural physical constants, or have been derived by the ratio-type of calibration techniques.

Calibrated by: Kurt D. Newton

Date 04 MAR 2004

Reviewed by: Jay R. Dockendorf

Date 04 MAR 2004



RSA Laboratories ID# 8339.

Calibrated by: Kurt D. Newton

Date 04 MAR 2004

Reviewed by: Jay R. Dockendorff

Date 04 MAR 2004