

Universidad de Puerto Rico Departamento de Biología PO Box 23360 San Juan PR 00931-3360

January 26, 2007

Ms. Lissette Roldán Commercial and R&D Branch Division of Materials Safety Nuclear Regulatory Commission Region I 475 Allendale Road King of Prussia, PA 19406-1415

J-4 52-01986-04 03001183

Fax: 610-337-5269

Re: Control number 19973

Dear Ms. Roldán:

Enclosed you will find the following documents related to your request for additional information about the aerosol neutralizers containing strontium-90 and krypton-85 sealed sources, that were used in temporary sites in December, 2004 by research groups from Germany, England and the University of Puerto Rico, Río Piedras Campus:

- 1. Copies of the Pro Forma invoice and of the Lufthansa Cargo waybill, evidencing that the krypton neutraliser was shipped to Germany, and is no longer in Puerto Rico. Also a document stamped by the Frankfurt Hauptzollamt stating that it was received in Deutchsland,
- 2. A copy of the leak test that was performed in Germany, indicating that there was no detectable leak of radioactivity, and a letter by Dr. Johannes Schneider stating that in Germany the leak test on these instruments does not have to be performed every six months,
- 3. A letter by Carl Percival, Radiation Protection Supervisor, of the University of Manchester certifying that the Strontium-90 acrosol neutralizer has been returned to the Centre for Atmospheric Science, and a copy of the leak test that was performed on this instrument in England.

Sincerely.

Fernando L. Renaud Radiation Safety Officer

- NMSS/RGN) MATERIALS-032

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Edificio Ciencias Naturales Nuevo: Tel. (787) 764-0000, exts. 2577, 4852, 2569, 2574, 4851, 2570, 4847, 4848 + Fax (787) 764-0010 Edificio Julio García Díaz: Tel. (787) 764-0000, exts. 2572, 2576 + Fax (787) 764-5875, uso interno 1385 Patrono con Igualdad de Oportunidades en el Empleo M/M/V/I

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WE CONCRED A MOUNTAINING AND

University of Puerto Rico Institute for Tropical Ecosystem Studies (ITES)

Prof. Olga L. Mayol-Bracero Anexo Facundo Bueso Office # 208 Río Piedras, Puerto Rico PR 00931, USA Tel. office: +1 787 764-0000 Ext. 3430 Tel. secr.: +1 787 764-0000 Ext. 2867 Fax: +1 787 772-1481 E-mail: omayol@adam.uprr.pr

PRO FORMA INVOICE

Consignes:	AWB-No.:
Max Planck Institute for Chemistry	Number of pieces: 1
Dept. of Cloud Physics and Chemistry	Total value: 8 000 Euro
Dr. Johannes Schneider	Total Net Weight: 2.0 kg
JohJBecherweg 27	Total Gross Weight: 2.0 kg
D-55128 Mainz	
Germany	

Pos.	Identification	Pieces	Weight kg	Size cm	Value E	Country of Origin
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Reason for export:

Research during the RICO-PRACS field experiment. Goods are not for sale or resale.

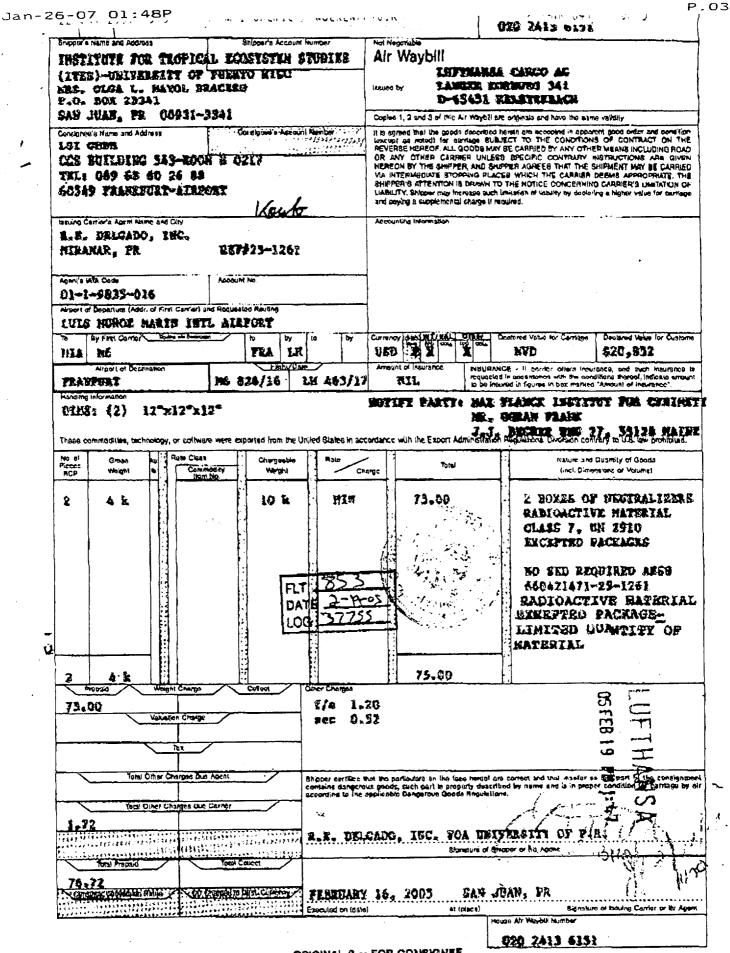


I declare that the above information is true and correct to the best of my knowledge

Rio Piedras, 2005-02-17

Olga Mayol-Brace

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Qualitäiskontrolle für TSI-Aerosolneutralisator Modell 3077 ganää Bausmulanung Nr. NW 823/98 nach § 23 Abs. 1 StelSchV

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TSI GmbH Neuköllner Str. 4 52058 Aachan Telefon 0247/52015-0

Serlen-Nummer:	77-0035	Telefon 02 47 / 52313
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	55128 Main	z
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Max Planck Institute for Chemistry

Max Pisock Institute for Chemistry - Particle Chemistry Department P.O. Dox 3060 - D-55020 Mainz - Oernaany

To:

Jan-26-07 01:49P

Fernando Renaud University of Puerto Rico Fax: 001 -787-764-3875 Dr. Johannes Schneider Particle Chemistry Department J.-J.-Becharweg 27 D-65128 Mainz Tel.: +49 8131 305-586 / -598 Fax: +49 6131 305-597 email: sohnelder@mpch-mainz.mpg.de

Date; 19.01.2007

No. of pages: 5

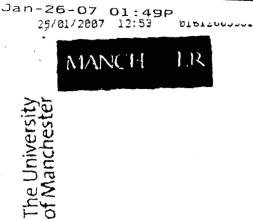
Dear Fernando,

The leak tost doesn't have to performed regularly in Germany. The only confirmation of the leak test I have is the one that was issued when we purchased the radioactive material in 2001.

I enclose it in the fax.

Best regards,

Johannes Schneider



School of Earth. Atmospheric and Environmental Sciences The University of Manchester Sackville Street Building PO Box 88 Manchester M60 10D

Tel: +44(0)161 200 3945 Fax: +44(0)161 200 3951 <u>carl percival@manchester.ac.uk</u> 22nd January 2007

To whom it may concern,

This is to certify that the Strontium-90 (10mCi) acrosol neutraliser ID530, which contains Sr source in a sealed capsule, model number SIF33, SN#TD9408 has been teturned to the Centre for Atmospheric Science, at Manchester.

Carl Percival

Radiological Protection Supervisor Centre for Atmospheric Science

Combining the eliangths at I MIST and

North Western Medical Physics Christie Hospital NHS Trust

Report on leak testing of sealed sources

Site: UMIST

Date: 25th November 2003

Department: Physics

Method

The sealed sources were wiped with alcohol impregnated swabs. The swabs from the 60 Sr sources were counted on a Mini-Instrument Geiger monitor, which was calibrated with a 60 Sr/ 60 Y standard source of known activity. The swabs from the 144 Am, 226 Ra and 60 Co sources were counted on a well type scintillation detector. The system was calibrated with standard sources of known activity. The background and the counts from the swabs were acquired for 200 seconds

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Christie Hospita

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Radionuclide	Refnumber.id	Result	Pass/fail
Sr-90	1D527	Bkg count: 1-3cps Swab count:1-3cps	Pass
Sr-90	1D530	Bkg count: 2.5cps Swab count:2-5cps	Pass
Co-6()	"green spot"	Bkg count: 68 Swab count: 53	Pass
Sr-90	20378	Bkg count: 1-3cps Swab count:1-3cps	Pass
Am-241	11544	Bkg count: 48 Swab count:43	P255
Am-241	D	Bkg count: 48 Swab count:43	Pass
Am-241	E	Bkg count: 48 Swab count:43	Pass
Ra-226	3371	Bkg count: 524 Swab count: 502	Pass

Comments

No significant leakage was detected on any of the sources.

signed: Prol Picter

(On behalf of the RPA)

Report to: Dr C. Percival

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