



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

Fax: 610-337-5269

J-4

52-01986-04
 03001183

139703

Re: Control number ~~139703~~

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 Deutschland.
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 aerosol 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

139703

REGISTRADO MATERIALS-002

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

Prof. Olga L. Mayol-Bracero
Anexo Fscundo 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	
Consignees: Max Planck Institute for Chemistry Dept. of Cloud Physics and Chemistry Dr. Johannes Schneider Joh.-J.-Becherweg 27 D-55128 Mainz Germany	AWB-No.: Number of pieces: 1 Total value: 8 000 Euro Total Net Weight: 2.0 kg Total Gross Weight: 2.0 kg

Pos.	Identification	Pieces	Weight kg	Size cm	Value €	Country of Origin
1	Fibreboard box with content below:	1	1.0	11x21x31	8000	Germany
1 a)	Radioactive material, excepted package, limited quantity of material	1	1.0			Germany

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.

Río Piedras, 2005-02-17

Olga Mayol-Bracero
Olga Mayol-Bracero

020 2413 6138

Shipper's Name and Address INSTITUTE FOR TROPICAL ECOSYSTEM STUDIES (ITEB)-UNIVERSITY OF PUERTO RICO MRS. OLGA L. MAYOL BRACERO P.O. BOX 23241 SAN JUAN, PR 00931-3241		Shipper's Account Number Not Negotiable Air Waybill				
Consignee's Name and Address LOI CHEN CCS BUILDING 543-ROOM 2 0217 TEL: 069 58 40 26 88 60549 FRANKFURT-AIRPORT		Issued by INFINANSA CARGO AC LAUREN KERNBERG 341 D-43431 KESTERFRACH				
It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR ANY OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.				
Billing Carrier's Agent Name and City E.R. DELCADO, INC. MIRANAR, PR		Accounting Information REF: 23-1267				
Agent's IATA Code 01-1-9835-016		Account No.				
Airport of Departure (Addr. of First Carrier) and Requested Routing LUIS MUÑOZ MARIN INTL AIRPORT						
To MIA		By First Carrier MC				
to FRA		by LR				
Currency USD		Declared Value for Carriage NVD				
Declared Value for Customs \$20,852		Airport of Destination FRANKFURT				
Flight/Date MC 824/16		Amount of Insurance RM 463/17				
Insurance - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".		INSURANCE - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".				
Handling Information QMS: (2) 12" x 12" x 12"						
NOTIFY PARTY: MAX FLANCK INSTITUTE FOR GENETICS MR. OGDEN FLANCK 3-1 BUCKER RD 27, SALEM MAINE						
These commodities, technology, or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited.						
No. of Pieces RCP	Gross Weight	Rate Class	Chargeable Weight	Rate Charge	Total	Nature and Quantity of Goods (incl. Dimensions or Volume)
2	4 k		10 k	MIN	75.00	2 BOXES OF NEUTRALIZERS RADIOACTIVE MATERIAL CLASS 7, UN 2910 EXCEPTED PACKAGES
2	4 k				75.00	NO SED REQUIRED AREG 460-21471-29-1261 RADIOACTIVE MATERIAL EXCEPTED PACKAGE LIMITED QUANTITY OF MATERIAL
Prepaid		Weight Charge		Collect		Other Charges E/O 1.20 REC 0.52
75.00		Valuation Charge				
		Tax				
		Total Other Charges Due Agent				
Total Other Charges Due Carrier				1.72		Shipper certifies that the particulars on the face hereof are correct and that insofar as the consignment contains dangerous goods, each part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations.
Total Prepaid		Total Collect		79.72		
79.72						
Signature of Shipper or His Agent E.R. DELCADO, INC. FOR UNIVERSITY OF P.R.		Signature of Billing Carrier or Its Agent LAUREN KERNBERG		Executed on (date) FEBRUARY 16, 2005		at (place) SAN JUAN, PR
House Air Waybill Number 020 2413 6138						

ORIGINAL 2 -- FOR CONSIGNEE

Vor dem Ausfüllen Rückseite beachten. Füllen Sie den Vorbericht bitte vollständig und deutlich (mit Schreibmaschine bis 10 Zeichen pro Zeile) und ordnungsgemäß in deutscher Sprache aus. Das Formular wird maschinell gelesen, daher bitte nicht räkeln, heften, abwaschen oder sonstige Beschädigungen anbringen.

A. Einfuhranzeige § 12 Abs. 3 der Stromsteuerverordnung

DURCHSCHRIFT FÜR DEN EINFÜHRER

1. Name des Einführers
Johannes-Gutenberg-Universität Mainz
Inst. f. Physik der Atmosphäre
Becherweg 21
Postleitzahl **55128** Ort **Mainz**
Telefon **06131 3922861** Telefax **06131 3923592**

2. Name des Importeurs (Name, Vorname oder Spitzname) des Einführers
Florian Fochler
LSI GmbH
Straße **Dieselstr. 22**
Postleitzahl **85551** Ort **Kirchheim**
Telefon **089-96015933** Telefax **089-96015975**

3. 1. Die Ware ist ein Gegenstand, der bei der Einfuhr in den Zollgebiet der Gemeinschaften unterliegt.
2. Die Ware ist ein Gegenstand, der bei der Einfuhr in den Zollgebiet der Gemeinschaften unterliegt.
3. Die Ware ist ein Gegenstand, der bei der Einfuhr in den Zollgebiet der Gemeinschaften unterliegt.
4. Beschreibung der Güter, Ursprungsland, Provenienz, Besondere der Güter
Aeropal-Neutralisier

5. Ursprungsland
USA (Puerto Rico)
6. Art der Ware
wie unter 1.
7. Ursprungsland
USA (Puerto Rico)

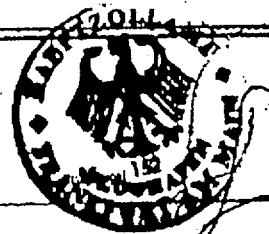
8. Wert der Ware in DM (runden Sie auf volle DM)
EUR 8.000
9. Ursprungsland
USA
10. Ausfuhrer
Olga Mayol-Bracoro
Universität von Puerto Rico
P.O. Box 23341
San Juan PR 00931-3341, USA
Telefon **+1 7877643430** Telefax **+1 7877721481**

11. Zweck der Einfuhr / Verwendung
Wiedereinfuhr von vorübergehend ausgefuhrten wissenschaftlichen Instrumenten (Ausfuhranzeige von 15.11.04)

12. Ort der Einfuhr
Mainz
13. Zollamt
211204
14. Erklärung des Einführers
Überlassung zum freien Verkehr gem. Art. 78 der VO (EWG) Nr. 2913/92 mit Auftragsnummer 02/2005/3382 v. 22.02.05

15. Unterschrift und Firmenstempel des Einführers
Johannes Gutenberg-Universität Mainz
Becherweg 21
Institut für Physik der Atmosphäre
55099 Mainz

Hauptzollamt
Frankfurt am Main-Flughafen
Zollamt Fracht - LCC
24. FEB. 2005
3302



DIESELEINLEITUNG...

Qualitätskontrolle für TSI-Aerosolneutralisator Modell 3077
gemäß Bauartzulassung Nr. NW.825/98 nach § 23 Abs. 1 StrlSchV

TSI GmbH
Neuköllner Str. 4
52068 Aachen
Telefon 02471 53333-0

Serien-Nummer: 77-0035

Herstellungsdatum: 1 6 01

Lieferdatum: 5 12 01

Kundenschrift: Universität Mainz
Inst. f. Physik der
Atmosphäre/Raum: 4341/513
zu. Hd. Dr. rer. nat. Bormann
Joh.-Joachim-Becher-Weg 21
55128 Mainz

Sichtkontrolle:	<input checked="" type="checkbox"/> unbeschädigt	<input type="checkbox"/> beschädigt
Radioaktivitätsaufkleber:	<input checked="" type="checkbox"/> vorhanden	<input type="checkbox"/> nicht vorhanden
Typenschild:	<input checked="" type="checkbox"/> vorhanden	<input type="checkbox"/> nicht vorhanden
Deutsches Handbuch:	<input checked="" type="checkbox"/> beigelegt	<input type="checkbox"/> nicht beigelegt
Prüfprotokoll	<input checked="" type="checkbox"/> vorhanden	<input type="checkbox"/> nicht vorhanden
Bauartzulassungsaufkleber:	<input checked="" type="checkbox"/> angebracht	<input type="checkbox"/> nicht angebracht
Bauartzulassungsurkunde:	<input checked="" type="checkbox"/> beigelegt	<input type="checkbox"/> nicht beigelegt

Ortsdosisleistungsmessung (in 10 cm Abstand): 2.20 $\mu\text{Sv/h}$

geprüft durch: Siegfried Duda

S Duda
Unterschrift

Aachen, den 6 12 01

Max Planck Institute for Chemistry

Otto Hahn Institute



Max Planck Institute for Chemistry · Particle Chemistry Department
P.O. Box 3060 · D-55020 Mainz · Germany

To:

Fernando Renaud
University of Puerto Rico
Fax: 001 -787-764-3875

Dr. Johannes Schneider
Particle Chemistry Department
J.-J.-Becherweg 27
D-55128 Mainz
Tel.: +49 6131 305-686 / -598
Fax: +49 6131 305-687
email: schneider@mpch-mainz.mpg.de

Date: 19.01.2007

No. of pages: 5

Dear Fernando,

The leak test doesn't have to be 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

MANCHESTER

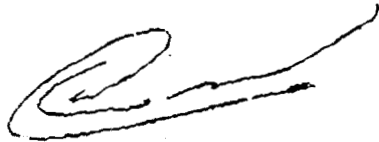
The University
of Manchester

School of Earth, Atmospheric
and Environmental Sciences
The University of Manchester
Sackville Street Building
PO Box 88
Manchester
M60 1QD

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

To whom it may concern,

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



Carl Percival

Radiological Protection Supervisor
Centre for Atmospheric Science

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 ^{90}Sr sources were counted on a Mini-Instrument Geiger monitor, which was calibrated with a $^{90}\text{Sr}/^{90}\text{Y}$ standard source of known activity. The swabs from the ^{241}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

Results

Radionuclide	Ref number/id	Result	Pass/fail
Sr-90	ID527	Bkg count: 1-3cps Swab count:1-3cps	Pass
Sr-90	ID530	Bkg count: 2-5cps Swab count:2-5cps	Pass
Co-60	"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	Pass
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: *Paul J. Patel*

(On behalf of the RPA)

Report to: Dr C. Percival

Dr. C. Percival

Dr. C. Percival