

## Parker, Bryan

---

**From:** Hill, Dan (NPS Q&R) <dan.hill01@cardinalhealth.com>  
**Sent:** Thursday, May 08, 2014 12:39 PM  
**To:** Parker, Bryan  
**Subject:** RE: 34-29200-01MD NRC Amendment request  
**Attachments:** 140425 Remove Cs-137 calibrators and 3P fees.pdf; ATT00001.txt

Bryan,

We are sending the attached amendment request which may roll into the next amendment that you are preparing, as I discussed with you previously. Either way, even if it is a separate amendment, it is attached for your review. The original letter should arrive in your office next week.

Thanks,

Dan



**Dan Hill**  
Quality and Regulatory  
Nuclear Pharmacy Services  
614.757.5074 dir | 614.652.4598  
fax

**From:** Parker, Bryan [<mailto:Bryan.Parker@nrc.gov>]  
**Sent:** Wednesday, April 30, 2014 6:03 PM  
**To:** Regits, Willie  
**Cc:** Hill, Dan (NPS Q&R)  
**Subject:** NRC Amendment question

Hey Willie,

From our phone discussion earlier re: Condition 12.B. (1) and (2) of Lic. No. 34-29200-01MD, I wanted to verify that the people that are listed under 12.B.(2) are trained in accordance with the approved training program noted in 12.B.(1).

The individuals below (with the exception of Evan Western and Dan Hill) have been listed on the license since before the self-approval was granted with Amendment No. 11 dated 3/20/07, so can you verify that these folks have been trained in a similar manner and approved by the RSC?

If they are, then I will pull them all off the license and remove 12.B.(2) altogether, as we discussed.

Btw – these are the names left after deleting the ones requested by you in letter dated 02/25/14.

Tony Adamo	Asma Abbasi	Cami Still
T. John Alexander	Anjuni Mingus	Michael Koniski
Kory Kodimer, Ph.D.	Matthew Komornik	W. Dan Hill
Edward A. Corros	Robert E. Lewis	Michael Young
W. Robert Davis	Evan T. Western	Adam J. Fleshner
Tara J. Simonian	Robert Lapena	James T. Chimelewski, Jr.

Candice Goodyear  
Dean Polar  
Jason Luper  
Paul Friedenber  
Lisa Frantz

Corey W. Woods  
Jason K. Steincamp  
Elias Garcia  
John Haag  
Alonzo Keys

Carl Collier  
Willie Regits, Ph.D.  
Lonze Townsend  
Richard B. Hasselkus  
Andrew Fu

Thanks.  
Bryan

*Bryan A. Parker*  
Health Physicist  
USNRC - Region III

[bryan.parker@nrc.gov](mailto:bryan.parker@nrc.gov)  
678-828-7050  
630-515-1078 (fax)



Cardinal Health  
Nuclear Pharmacy Services  
7200 Cardinal Place  
Dublin, OH 43017  
614.757.5000 main



cardinalhealth.com

April 25, 2014

U.S. Nuclear Regulatory Commission  
Region III – Division of Nuclear Materials Safety  
2443 Warrenville Rd, Suite 210  
Lisle, IL 60532-4352

Re: Amendment Request for Radioactive Materials License 34-29200-01MD, Cardinal Health Nuclear Pharmacy Services, Dublin, OH.

Radioactive Materials Licensing:

Cardinal Health 414, LLC (Nuclear Pharmacy Services, hereafter Cardinal Health) requests the Cesium-137 instrument calibrator sealed sources be removed from the above referenced license, items 6.H., 7.H., 8.H., 9.H and 6.I., 7.I., 8.I., 9.I., as follows:

- Victoreen model 726 calibrator, formerly at Cardinal Health, Kansas City, MO; and
- Victoreen gamma survey instrument calibrator, model 773, formerly at Cardinal Health, Indianapolis, Indiana.

Both Cs-137 sealed sources were returned to the manufacturer. Please remove the category 3.P. and associated billing from the annual license fees. Documentation of the transfer of the sealed sources to the manufacturer for disposal is enclosed in Attachment A.

If you have any questions regarding this request, please contact Dan Hill at 614.757.5074.

Sincerely,

A handwritten signature in blue ink, appearing to read "Willie Regits".

Willie Regits, Ph D.  
Corporate Radiation Safety Officer  
Director, Health Physics  
Nuclear Pharmacy Services

/dh

Enclosure: Attachment A – Cs-137 Transfer Documents

cc: Consolidated NRC File (3)

Amanda Jehl, RSO, Loc. 7010  
Asma Abassi, RSO, Loc. 7028

John Alexander, RSO, Loc. 7002  
Steven Miller, RSO, loc. 7011  
Mathew Svejek, RSO, Loc. 7013  
Christie Holland, RSO, Loc. 7016  
Sharon Thompson, RSO, Loc. 7025  
Earl Robertson, RSO, Loc. 7030  
Jay Simmons, RSO, Loc. 7088  
Brian Porter, RSO, Loc. 7109  
Dane Dishman, RSO, Loc. 7120  
John A. Miller, RSO, Loc. 7128  
Bruce Jorgensen, RSO, Loc. 7172  
Mark Peters, RSO, Loc. 7200  
Nate Johnson, RSO, Loc. 7201  
William Balogh, Loc. 7231  
Mark Rotman, RSO, Loc. 7306  
Doug Sopp, RSO, Loc. 7341  
Justin Goodnite, RSO, Loc. 7545  
Michael Chee, RSO, Loc. 7232

# **ATTACHMENT A**

## **Sealed Source Transfer Documents**



6765 Langley Drive  
Baton Rouge, Louisiana 70809  
Telephone: 225-751-5893  
Fax: 225-756-0365

Date: April 24, 2014

Amanda Jehl, RHP, RSO  
Cardinal Health NPS #10  
7920 Georgetown Road  
Suite #100  
Indianapolis, IN 46268

Reference: 2014-026

This is to advise that the material detailed below has been received by QSA Global, Inc as of 4-24-14 and we have taken possession of this device and source.

Manufacturer	Model	Source S/N	Isotope	Activity
Technical Operations	773 s/n 138	S-445	Cs-137	154 mci

Please retain this record for your files. Should you require further assistance, please contact us at QSA Global, Inc.

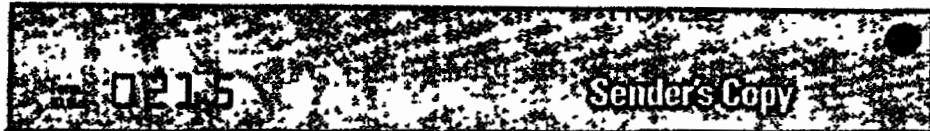
Regards,

A handwritten signature in cursive script that reads "Rusty Barrett".

Rusty Barrett  
Technical Service Manager

**fedEx** US Airbill  
Express

FedEx Tracking Number **8729 9828 8914**



From *Please print and press hard.*

Date **April 22 2014**

Sender's FedEx Account Number **SENDER'S FEDEX ACCOUNT NUMBER ONLY 1088-1975-7**

Sender's Name **Amanda Jehl** Phone **(317) 872-3301**

Company **CARDINAL HEALTH**

Address **7720 GEORGETOWN RD STE 100**

City **INDIANAPOLIS** State **IN** ZIP **46268**

Your Internal Billing Reference  
Print characters will appear on invoice.

OPTIONAL

To Recipient's Name **Rusty Barrett** Phone **800, 225-1383**

Company **QSA Global Inc (RA# 2014-26)**

Address **6765 Langley Drive**

Address  
Use this line for the HOLD location address or for continuation of your shipping address.

City **Baton Rouge** State **LA** ZIP **70809**

0422346225

**4a Express Package Service** \*To most locations.

Packages up to 150 lbs.

- FedEx Priority Overnight  
Next business morning.\* Priority shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight  
Next business afternoon.\* Sunday Delivery NOT available.
- FedEx First Overnight  
Earliest next business morning delivery to select locations.\*
- FedEx 2Day  
Second business day.\*\* Tuesday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver  
Third business day.\* Saturday Delivery NOT available.

**4b Express Freight Service** \*\*To most locations.

Packages over 150 lbs.

- FedEx 1Day Freight  
Next business day.\*\* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. **CALL 1 800.332.6887**
- FedEx 2Day Freight  
Second business day.\*\* Tuesday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight  
Third business day.\*\* Saturday Delivery NOT available.

**5 Packaging** \*Declared value limit \$500.

- FedEx Envelope\*
- FedEx Pak\*  
Includes FedEx Small Pak and FedEx Large Pak.
- FedEx Box
- FedEx Tube
- Other

**6 Special Handling and Delivery Signature Options**

- SATURDAY Delivery  
NOT available for FedEx, Standard Overnight, FedEx Express Saver, or FedEx 2Day Freight.
- No Signature Required  
Package may be left without obtaining a signature for delivery.
- Direct Signature  
Shipper or recipient's address may sign for delivery. Not applicable.
- Indirect Signature  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Not applicable.

**Does this shipment contain dangerous goods?**

- No
  - Yes  
As per attached Shipper's Declaration.
  - Yes  
Shipper's Declaration not required.
  - Dry Ice  
Dry Ice, 6, UN 1845
  - Cargo Aircraft Only
- Dangerous goods (including dry ice) cannot be shipped to FedEx packaging or placed in a FedEx Express Drop Box.

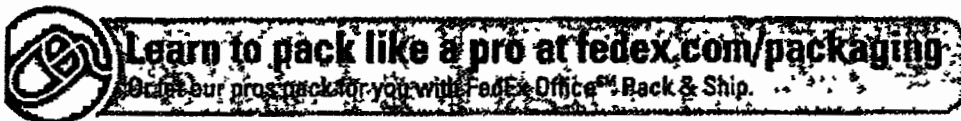
**7 Payment Billed to:**

- Sender  
Sender FedEx Acct. No. or Credit Card No. below.
- Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages **1** Total Weight **60** lbs. Total Declared Value! **1500**

Your liability is limited to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and the current FedEx Service Guide, including terms that limit our liability.

**605**



**SHIPPER'S DECLARATION FOR DANGEROUS GOODS**

(Provide at least three copies to the airline.)

Shipper Cardinal Health 7929 Georgetown Road Suite 100 Indianapolis, IN 46268	Air Waybill No <b>872998288914</b>  Page 1 of 1 Pages Shipper's Reference Number
--	---

Consignee  
 QSA Global Inc  
 6765 Langley Drive  
 Baton Rouge, LA 70809

Two completed and signed copies of this Declaration must be handed to the operator

**WARNING**

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

**TRANSPORT DETAILS**

This shipment is within the limitations prescribed for (delete non applicable)

PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY
------------------------------	---------------------

Airport of Departure  
**IND**

Airport of Destination: **SHOPLA**

Shipment type (delete non-applicable)  
 NON-RADIOACTIVE  RADIOACTIVE

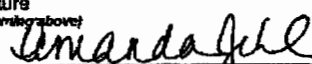
**NATURE AND QUANTITY OF DANGEROUS GOODS**

Dangerous Goods Identification				Quantity and type of packaging	Packing Inst.	Authorization
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack-Ing Group			
UN 2915	Radioactive Material, Type A Package	7		Cs-137, Inorganic Salt, Solid, 1 Type A package, 2.566 GBq	II-Yellow, TI 0.5, DIM 28 x 15.5 x 41 cm	

**Additional Handling Information**

Emergency Spill-Leak-Fire-Exposure or Accident Contact  
 Emergency Telephone Number **CHEMTREC 800.424.9300** Customer #204503

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable International and National Governmental Regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory  
 Amanda Jehl, Radiation Safety Officer  
 Place and Date  
 Cardinal Health, Indianapolis, 04-22-14  
 Signature  
*(see warning above)*  


FOR RADIOACTIVE MATERIAL SHIPMENT ACCEPTABLE FOR PASSENGER AIRCRAFT, THE SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN OR INCIDENT TO RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT



THIS SOURCE WAS TESTED FOR  
EXTERNAL CONTAMINATION OR LEAKAGE

ards  
atory  
t



Tech/Ops, Inc.

Radiation Products Division  
Burlington, Massachusetts 01803

DATE 9-27-83 MICROCURIES 5000 BY R/LK  
DATE 9-27-83 MICROCURIES 5000 BY R/LK  
TECHNICAL OPERATIONS INC

GAMMA RAY SOURCE CALIBRATION

Isotope                      Test No.                      Date Measured  
CS-137                      26069                      27 Sept. 83

Source Identification                      Roentgens/Hr. at 1 Meter                      Curies  
S-445                      0.0493                      0.154

Source decay correction factors

Cobalt-60		Iridium-192		Cesium-137
years	mos	weeks	days	years
1.000	1.000	1.000	1.000	1.000
.877	.989	.937	.991	.977
.768	.978	.877	.981	.955
.674	.967	.821	.972	.933
.590	.957	.769	.963	.912
.518	.946	.721	.954	.892
.454	.936	.675	.945	.871
.398	.926	.632	.937	.852
.349	.916	.592		.832
.306	.905	.554		.813
.268	.895	.519		.795
.235	.886	.486		.777
.206	.877	.455		.759
5.26y		74.0d		30.2y
1.30		0.55		0.32

The gamma-ray emission of the sealed source herein described was intercompared with the radiation from a reference standard cobalt-60 source whose intensity had been established relative to a National Bureau of Standards calibrated cobalt-60 source. Comparison was made either with an uncollimated plastic-lined ionization chamber encased in a 3-mm thick aluminum container sealed against atmospheric pressure, or with an NBS-calibrated Victoreen R-meter whose readings were compensated for atmospheric pressure and temperature. All readings were corrected for air scattering and absorption. The source was measured with its axis of symmetry parallel with/perpendicular to the line joining source and detector. The reported output is believed to be accurate within  $\pm 3$  percent, the stated uncertainty of the reference NBS sources. Precision is believed to be better than  $\pm 1$  percent.

Signed Robert L. Kelly

Calibration performed for: NUCLEAR ASSOCIATES  
Div. of Victoreen, Inc.

Model 773, S/N 138

100 Voice Rd.  
Carle Place, NY 11514



6765 Langley Drive  
Baton Rouge, Louisiana 70809  
Telephone: 225-751-5893  
Fax: 225-756-0365

Date: April 24, 2014

Asma Abbasi  
Cardinal Health NPS  
9668 Marion Ridge  
Kansas City, MO 64137

Reference: 2014-023

This is to advise that the material detailed below has been received by QSA Global, Inc as of 4-24-14 and we have taken possession of this device and source.

Manufacturer	Model	Source S/N	Isotope	Activity
Victoreen	726 s/n 154	S-268	Cs-137	96.1mci

Please retain this record for your files. Should you require further assistance, please contact us at QSA Global, Inc.

Regards,

A handwritten signature in cursive script that reads "Rusty Barrett".

Rusty Barrett  
Technical Service Manager

Job No:

Customer:

CARDINAL HEALTH, KANSAS CITY, MO

### Source Return Inquiry Approval Form

Please fill out all applicable sections of the Source Detail Forms.  
This information will be used to determine if disposal services  
can be provided by QSA Global Inc.



6765 Langley Drive Ph 800-225-1383  
Baton Rouge, LA 70809 Fx 225-756-0365

## Part I - SOURCE DETAILS

Source Details	Source 1	Source 2	Source 3	Source 4
1 Radionuclide	Cs-137	Cs-137		
2 Total Radioactivity- Specify Units (e.g. MBq or Ci)	96.1 mCi	less than 10 uCi		
3 Reference date for activity	1/25/1978	5/24/1979		
4 Source manufacturer (if known)	Victoreen	Dosimeter Corp of America		
5 Source serial number and model number (if known)	SN #8268 Model #726	SN# 020 Model #3060		
6 Physical dimensions of source or source holder (Specify Units)	See Picture	See Picture		
7 Is source mounted in equipment?(if yes, attach drawings/photographs, give manufacturer and model number)	See Picture	See Picture		
8 Date of most recent leak test (attach copy of results)	N/A	N/A		
9 Is source damaged or discolored or leaking or contaminated? (if yes, describe in detail)	NO	NO		
10 Does the source have a special form approval? (if yes, specify certificate number.)	NO	NO		
11 Company Name & Address: Cardinal Health NPS 9668 Marion Ridge Kansas City, MO 64137	12. Contact Person Asma Abbasi	13. Telephone 816-966-2020		
14 Address of Source Location: ( If different from above address)	15. Contact Person:	16. Telephone:		

Standards  
Laboratory  
Report

2-1-78

4005

P.R.

## GAMMA RAY SOURCE CALIBRATION

2-1-78

4005

P.R.

Technical Operations, Inc.  
Boston, Massachusetts 02108

Boston, Massachusetts 02108

Isotope

Test No.

Date Measured

Cs<sup>137</sup>22091-25-78Source  
IdentificationRoentgens/Hr.  
at 1 Meter

Curies

S-268.03075.0961

## Source decay correction factors

Age in:	Cobalt-60		Iridium-192		Caesium-137
	years	mos	weeks	days	
0	1.000	1.000	1.000	1.000	1.000
1	.877	.980	.937	.991	.977
2	.768	.978	.877	.981	.955
3	.674	.967	.821	.972	.933
4	.590	.957	.769	.963	.912
5	.513	.946	.721	.954	.892
6	.454	.936	.675	.945	.871
7	.398	.926	.632	.937	.852
8	.349	.916	.592	.928	.832
9	.306	.905	.554	.918	.813
10	.268	.895	.519	.909	.795
11	.235	.886	.486	.900	.777
12	.206	.877	.455	.891	.759
T <sub>1/2</sub>	5.26y		74.0d		90.3y
Rem/ci	1.10		0.55		0.55

The gamma-ray emission of the sealed source herein described was intercompared with the radiation from a reference standard cobalt-60 source whose intensity had been established relative to a National Bureau of Standards calibrated cobalt-60 source. Comparison was made either with an uncollimated plastic-lined ionization chamber encased in a 3-mm thick aluminum container sealed against atmospheric pressure, or with an NBS-calibrated Victoreon R-meter whose readings were compensated for atmospheric pressure and temperature. All readings were corrected for air scattering and absorption. The source was measured with its axis of symmetry parallel with/perpendicular to the line joining source and detector. The reported output is believed to be accurate within  $\pm 3$  percent, the stated uncertainty of the reference NBS sources. Precision is believed to be better than  $\pm 1$  percent.

Signed Paul D. PendronCalibration performed for: Chambers Trucking Inc.  
Mod. # 726 #10 154 1734 E. 63 St.  
Kansas City, Mo.

**SHIPPING PAPER FOR DANGEROUS GOODS**

CARRIER: SAME AS SHIPPER

ORIGIN: 4/22/2014 12:00pm

Bill No.: RMA-2014-023

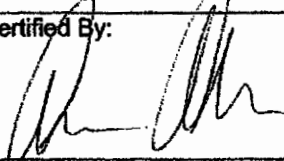

<p><b>SHIPPER:</b></p> <p>Cardinal Health 9668 Marion Ridge Kansas City, MO 64137 816.966-2020</p>	<p><b>CONSIGNEE NAME AND ADDRESS:</b></p> <p>QSA Global 8765 Langley Drive Baton Rouge, LA 70809 800.225.1383</p>
--	---

<u>Proper Shipping Name</u>	<u>Hazard Class</u>	<u>UN No.</u>
Radioactive Material, Type A Package	7	UN 2915

NATURE AND QUANTITY OF DANGEROUS GOODS				
NO. PIECES WITHIN BOX	RADIONUCLIDE	CHEMICAL FORM/PHYSICAL STATE	ACTIVITY - GBq	ACTIVITY - mCi
1	CS-137	Sealed Source	1.706	( 46.100 )
			0.000	
			0.000	
			0.000	
			0.000	
			0.000	
			0.000	
			0.000	
Total Activity Contained in one (1) box:			1.706	( 46.100 )

<b>RADIOACTIVE LABEL CATEGORY:</b>		
White-I	<u>Yellow-II</u>	Transport Index: <u>0.5</u>
<b>Emergency Spill-Leak-Fire-Exposure or Accident Contact: CHEMTREC 800-424-9300</b>		

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to applicable regulations for the Department of Transportation.

Certified By: 		Courier Signature: 		Consignee Signature:	
Date: 4/22/14	Time: 11:35	Date: 4/22/14	Time: 10:10	Date: 4/22/14	Time:

Run:

Route:

Box:

**PACKAGE DELIVERED**  
(not in vehicle)

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

(Provide at least three copies )

Shipper  Cardinal Health Nuclear Pharmacy 9668 Marlon Ridge Kansas City, MO 64137 (816) 966-2020		Air Waybill No  Page 1 of 1 Pages Shipper's Reference Number	
Consignee  QSA Global 6765 Langley Drive Baton Rouge, LA 70809 800-225-1383		This shipment of radioactive material is intended for use in, or incident to, research, medical diagnosis or treatment	
Two completed and signed copies of this Declaration must be handed to the operator.		WARNING  Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.	
TRANSPORT DETAILS			
This shipment is within the limitations prescribed for (delete non-applicable)  <table border="1"> <tr> <td><del>PASSENGER AND CARGO AIRCRAFT ONLY</del></td> <td>CARGO AIRCRAFT ONLY</td> </tr> </table>	<del>PASSENGER AND CARGO AIRCRAFT ONLY</del>		CARGO AIRCRAFT ONLY
<del>PASSENGER AND CARGO AIRCRAFT ONLY</del>	CARGO AIRCRAFT ONLY		
Airport of Destination		Shipment type: (delete non-applicable) <del>NON-RADIOACTIVE</del> RADIOACTIVE	

NATURE AND QUANTITY OF DANGEROUS GOODS

Proper shipping name, Class or Division, UN Number or Identification Number, Packing Group (if required), and all other required information

**UN 2915, Radioactive Material, Type A Package, 7, Cs-137 Sealed Source, One Type A package, 1.706 GBq, Yellow-II, TI 0.5, Dim 14 11/16 x 18 1/4 inches**

Additional Handling Information

Emergency Telephone Number **010 271 5000**  
**CHEMTREC 800-424-9300**

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to the applicable international and national government regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory

Place and Date  
 Kansas City, MO 64137 04-22-2014

Signature  
 (see warning above)

**Asma Abbasi, RSO**



SHIPPER'S DECLARATION FOR DANGEROUS GOODS

(Provide at least three copies )

<p>Shipper</p> <p>Cardinal Health Nuclear Pharmacy 9668 Marlon Ridge Kansas City, MO 64137 (816) 966-2020</p>	<p>Air Waybill No</p> <p>Page 1 of 1 Pages</p> <p>Shipper's Reference Number</p>
---	--

<p>Consignee</p> <p>QSA Global 6765 Langley Drive Baton Rouge, LA 70809 800-225-1383</p>	<p>This shipment of radioactive material is intended for use in, or incident to, research, medical diagnosis or treatment</p>
--	---

<p>Two completed and signed copies of this Declaration must be handed to the operator.</p>		<p>WARNING</p> <p>Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.</p>		
<b>TRANSPORT DETAILS</b>				
<p>This shipment is within the limitations prescribed for <i>(delete non-applicable)</i></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"><del>PASSENGER AND CARGO AIRCRAFT ONLY</del></td> <td style="width: 50%; text-align: center;">CARGO AIRCRAFT ONLY</td> </tr> </table>	<del>PASSENGER AND CARGO AIRCRAFT ONLY</del>	CARGO AIRCRAFT ONLY	<p>Airport of Departure</p>	
<del>PASSENGER AND CARGO AIRCRAFT ONLY</del>	CARGO AIRCRAFT ONLY			

<p>Airport of Destination</p>	<p>Shipment type: <i>(delete non-applicable)</i></p> <p><b>NON-FLAMMABLE RADIOACTIVE</b></p>
-------------------------------	--

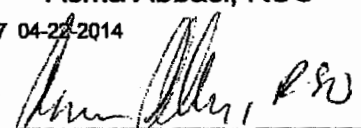
**NATURE AND QUANTITY OF DANGEROUS GOODS**  
*Proper shipping name, Class or Division, UN Number or Identification Number, Packing Group (if required), and all other required information*

**UN 2915, Radioactive Material, Type A Package, 7, Cs-137 Sealed Source, One Type A package, 1.706 GBq, Yellow-II, TI 0.5, Dim 14 11/16 x 18 1/4 inches**

Additional Handling Information

---

Emergency Telephone Number **910 271 5000**  
**CHEMTREC 800-424-9300**

<p>I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to the applicable international and national government regulations. I declare that all of the applicable air transport requirements have been met.</p>	<p>Name/Title of Signatory</p> <p style="text-align: right;"><b>Asma Abbasi, RSO</b></p> <p>Place and Date</p> <p>Kansas City, MO 64137 04-23-2014</p> <p>Signature</p> <p><i>(see warning above)</i> </p>
---	---