



**THE CATHOLIC UNIVERSITY OF AMERICA**

*Environmental Health and Safety*  
Washington, DC 20064  
202-319-5789  
Fax 202-319-4446

*Br. 2*

March 25, 2015

U.S. Nuclear Regulatory Commission, Region 1  
2100 Renaissance Boulevard, Suite 100  
King of Prussia, PA 19406-2713

License No. 08-02075-03  
Docket No. 03-00638

Subject: Request for License Amendment

The Catholic University of America respectfully requests the amendment to our byproduct license number 08-02075-03.

Below is the list of items that we wish to amend.

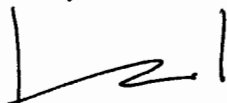
1. Reduce the amount of activity of item G under column number 6 from 2 Curies to 30 millicuries for Sulfur35.
2. Delete item O under column number 6, Cesium 139/Barium 139, activity of 1 curie. Replace the item with Cs 134/Barium 134, activity of 30 millicuries.
3. Remove item BB under column number 6, Cobalt 60 (sealed source (Nuclear Chicago Model RR60, CUA ID S-033, activity of 19.9 millicuries). Attached is copy of disposal for the sealed source in appendix 1.
4. Remove item FF under column number 6, Polonium 210 (sealed source, Monsanto Research Design, Dwg. NS-2, activity 1 curie). No record of such possession. See below an explanation.
5. Remove item GG under column number 6, Polonium 210 (sealed source, Research Model MRC-N-SS-W-PO-BE, 10 curies). No record of such possession in the log book that was started in 1982. Therefore, if we assume that we had a possession of both licensed sources (10 Curies and 1 Curie) of Po-210 (half-life 138.4 days) and calculate the present activity the result will be 6.876033E-027 Ci.
6. Remove item HH under column number 6, Neptunium 237 (encapsulated foils, 3.5 millicuries). Attached is copy of disposal of the encapsulated foils in appendix 2.

*586436*  
**NUREG/REG-1 MATERIALS-002**

7. Remove item II under column number 6, Americium 241 (sealed source, NUMEC Cat. No. 9AMG14, CUA ID S-107, 30 millicuries). Attached is a copy of disposal for the sealed source in appendix 3.
8. Remove item JJ under column number 6, Americium 241 (sealed source, CUA ID S-104, Inventory No. 95-012, 200 millicuries). Attached is a copy of disposal for the sealed source in appendix 3.
9. Remove item KK under column number 6, Californium 252 (plated source, CUA ID S-108, 0.22 microcurie). Attached is copy of disposal for the sealed source in appendix 2.
10. Remove item LL under column number 6, Californium 252 (plated source, CUA ID S-110, 12 microcurie). Attached is copy of disposal for the sealed source in appendix 2.
11. Remove item MM under column number 6, Cesium 137, (sealed source, Amersham Models CDC.93, CDC.192, CDC.PE2, CDC.PE3, CDC.PE4, CDC.PE5, CDC.PE6, CDC.PE7, or CDC.PE8; IPL Model 193, IRL Models 2-4 or 2-10; JL Shephard Model 6810; 3M Models 4P6E, 4F6H, 4D6L, or 4F6S; OR US Nuclear Model 375, 200 millicuries). The calibrator was shipped back to the vendor namely J.L. Shepherd, located in California. A copy of receipt for the Cs-137 source is included in in appendix 4.
12. Remove from item A. through LL. under column number 9 the following paragraph "storage and disposal of licensed material from Trinity College". Trinity College changed its name to Washington Trinity University. Washington Trinity University is not licensed to possess radioactive materials and the Catholic University of America does not have any record of storage and/or disposal radioactive materials from Trinity College.
13. Remove item MM under column 9 (In a J.L. Shepherd & Associates Model No. 28-5, for instrument calibration. The calibrator was shipped back to the original vendor. The radiation survey instruments are calibrated by a locally licensed contractor.

Please feel free to contact myself directly, or Mr. Haleem or Mr. Alar with any inquiries or questions regarding this request. We thank you for your assistance.

Sincerely,



Mr. Jerry Conrad  
Associate Vice President for Facilities Operations

CC: Mr. Louis P. Alar, Director, EHS  
Mr. Mahmoud Haleem, Radiation Safety Officer, EHS  
Dr. Aaron Barkatt, Chairperson, Radiation Safety Committee

# APPENDIX 1

Remove item 8B under column number 6, Cobalt 60 (sealed source Nuclear Chicago Model RR60, CUA ID S-033, activity of 19.9 millicuries)

Detailed listings are prepared in conformance with the information collection request 53-10898. The information is required by DOE in order to support the safe and efficient management and disposal of low-level waste. Detailed information regarding these listings can be obtained from the Office of Environmental Management, Washington, DC 20545-0001, or by internet e-mail to "em-waste@em.doe.gov" and by fax to (301) 903-1010. For more information contact the Office of Environmental Management, Washington, DC 20545. If a waste is used for research or educational purposes, the DOE may not be subject to the same regulatory requirements as those listed herein. For more information, contact the Office of Environmental Management, Washington, DC 20545.

FORM 841												3. MANIFEST NUMBER									
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST												1122881									
CONTAINER AND WASTE DESCRIPTION												PAGE 1 OF 1 PAGE(S)									
Additional Number Regulatory Commission (RRC) Requirements for Control, Transfer and Disposal of Radioactive Waste												4. SHIPPER NAME									
												Cobalt University of America / DCCO Energy									
												DEPARTMENT ID NUMBER									
												1122881									
1. MANIFEST TOTALS												2. SPECIAL NUCLEAR MATERIAL (SNM)									
TOTAL				L-235				L-238				TOTAL									
M3				M3				M3				M3									
M3				M3				M3				M3									
M3				M3				M3				M3									
M3				M3				M3				M3									
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M3				M3				M3				M3									
M3				M3				M3				M3									
3. CONTAINER IDENTIFICATION		4. CONTAINER AND WASTE DESCRIPTION		5. VOLUME		6. WASTE AND CONTAINER WEIGHT		7. SURFACE RADIATION LEVEL		8. SURFACE CONTAMINATION		9. WASTE DESCRIPTION		10. APPROXIMATE WASTE VOLUME IN CONTAINERS		11. PHYSICAL DESCRIPTION		12. CHEMICAL DESCRIPTION		13. WASTE CLASSIFICATION	
15-A00041 (CLA 1) 1800		O-PROCESS TO BE DETERMINED		0.2180 0.2700		4.84 10.00		4.84 10.00		< 1.070E-08 < 1.000E-02		28 100		0.028 0.1000		100 100		C-C-7 C-C-8 M-1124 Sub Total		7.344E-02 1.244E-02 3.700E-08 8.222E-02	
Shipment Total				0.2180 0.2700		4.84 10.00		4.84 10.00								Shipment Total		3.191E+00 3.191E+00		8.222E-02 8.222E-02	

WASTE 5. Classification and Management (RRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

Waste Classifications are determined by the RRC. The RRC is responsible for the safe and efficient management and disposal of low-level waste.

Waste Classifications are determined by the RRC. The RRC is responsible for the safe and efficient management and disposal of low-level waste.

WASTE 6. Material Identification (RRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

Material Identification is determined by the RRC. The RRC is responsible for the safe and efficient management and disposal of low-level waste.

Material Identification is determined by the RRC. The RRC is responsible for the safe and efficient management and disposal of low-level waste.

WASTE 7. Physical Description (RRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

Physical Description is determined by the RRC. The RRC is responsible for the safe and efficient management and disposal of low-level waste.

Physical Description is determined by the RRC. The RRC is responsible for the safe and efficient management and disposal of low-level waste.

WASTE 8. Chemical Description (RRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

Chemical Description is determined by the RRC. The RRC is responsible for the safe and efficient management and disposal of low-level waste.

Chemical Description is determined by the RRC. The RRC is responsible for the safe and efficient management and disposal of low-level waste.

Estimated burden per response to comply with this information collection request: 45 minutes. This burden estimate is based on the information collection requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Burden estimates regarding burden estimates to the recipient and FGD/Private use of this information collection request are not included. For more information, contact the Office of Management and Budget, Paperwork Project, Washington, DC 20503. If it is not possible to respond to an information collection request, please contact the Office of Management and Budget, Paperwork Project, Washington, DC 20503. If it is not possible to respond to an information collection request, please contact the Office of Management and Budget, Paperwork Project, Washington, DC 20503.

<b>FORM 640</b> <b>Energy Solutions / Bear Creek Operations</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		<b>SHIPMENT ID NUMBER</b> T13281		<b>FORM 640 AND 640A FORM 641 AND 641A FORM 642 AND 642A</b> <b>ADDITIONAL INFORMATION</b> PAGE 1 OF 1 PAGE(S) 1 PAGE(S) 2 PAGE(S)		<b>5. MANIFEST NUMBER</b> (Use this number on all continuation pages) T13281	
<b>1. EMERGENCY TELEPHONE NUMBER (Include Area Code)</b> 888-320-1595		<b>2. SHIPPER - NAME AND FACILITY</b> Catholic University of America / DC C/O EnergySolutions 620 Michigan Ave. NE Washington, DC 20064		<b>3. COLLECTOR</b> PROCESSOR GENERATOR TYPE (Specify) TELEPHONE NUMBER (Include Area Code) (202) 319-5209		<b>CONTACT</b> Fred Scholz TELEPHONE NUMBER (Include Area Code) (888) 481-0222	
<b>ORGANIZATION</b> EnergySolutions / Fred Nelson, Airt. Emergency Duty Officer		<b>4. USER PERMIT NUMBER</b> T-7N012-L13 <b>CONTACT</b> Mahmoud Habani EPA ID NUMBER TNR00034086 <b>SHIPPING DATE</b> 07/30/2013 <b>TELEPHONE NUMBER (Include Area Code)</b> 800-233-9633		<b>6. CARRIER - Name and Address</b> Hittman Transport Services 1809 Bear Creek Road Oak Ridge, TN 37830 <b>CONTACT</b> Karen Kirby SIGNATURE: <i>[Signature]</i>		<b>7. CERTIFICATION</b> This is to certify that the herein-named materials are properly identified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are identified, packaged, marked, and labeled and in proper condition for transportation and disposal in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulation.	
<b>8. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "Yes", provide Manifest Number:		<b>9. EPA MANIFEST NUMBER</b> N/A		<b>10. AUTHORITY SIGNATURE</b> <i>[Signature]</i> <b>TITLE</b> Broker/Driver <b>DATE</b> 7/30/13		<b>11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION</b> (Including proper shipping name, hazard class, UN ID number, and any additional information) UN2815, RADIOACTIVE MATERIAL, TYPE A PACKAGE NON-SPECIAL FORM, 7 BEADED SOURCES 1 - METAL PAIL	
<b>12. DOT LABEL "RADIOACTIVE"</b> Yellow II		<b>13. TRANSPORT INDEX</b> 0.6		<b>14. PHYSICAL AND CHEMICAL FORM</b> SOLID/METAL OXIDES CO-57, CO-60 : 8N-119M		<b>15. INDIVIDUAL RADIOISOTOPES</b> CO-57, CO-60 : 8N-119M	
<b>16. TOTAL PACKAGE ACTIVITY</b> mCi 3.1940E+00 (0.6324E-02)		<b>17. LEA/RGO CLASS</b> NA		<b>18. TOTAL WEIGHT OR VOLUME</b> (Use appropriate units) 0.87 ft <sup>3</sup> 10.00 lb		<b>19. IDENTIFICATION NUMBER OF PACKAGE</b> 13-000341 (CUA 1)	

**20. Generator Certification Statement**

A) I hereby certify that the shipment of low-level radioactive waste has been prepared in accordance with the applicable regulations of the Department of Transportation and the Tennessee State regulatory agency and with the requirements of the Tennessee State regulatory agency.

B) I hereby certify that the shipment of low-level radioactive waste has been prepared in accordance with the requirements of the Tennessee State regulatory agency and with the requirements of the Tennessee State regulatory agency.

C) I hereby certify that the shipment of low-level radioactive waste has been prepared in accordance with the requirements of the Tennessee State regulatory agency and with the requirements of the Tennessee State regulatory agency.

D) I hereby certify that the shipment of low-level radioactive waste has been prepared in accordance with the requirements of the Tennessee State regulatory agency and with the requirements of the Tennessee State regulatory agency.

*Mahmoud Habani*  
 Modified Date: 07/30/2013 10:39

Estimated burden per response to comply with this information collection request: 48 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-3752), U.S. Nuclear Regulatory Commission, Washington, DC 20542-0091, or by Internet e-mail to [information@nrc.gov](mailto:information@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NRC-1622, (316-4-1166), Office of Management and Budget, Washington, DC 20503. If a measure used to reduce an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, the NRC may not collect information required by this information collection.

NRC FORM 542 (7-2001)		Energy Solutions / Bear Creek Operations		WASTE COLLECTOR/PROCESSOR		T132341	
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST		SHIPPER USE ONLY				PAGE 1 OF 1 PAGE(S)	
MANIFEST INDEX AND REGIONAL COMPACT TABULATION		SHIPPER USE ONLY					
List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators							
4. GENERATOR IDENTIFICATION NUMBER	5. GENERATOR NAME PERMIT NUMBER (IF APPLICABLE) AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	7. PREPROCESSED WASTE (FOR MATERIAL) VOLUME m <sup>3</sup>	8. MANIFEST NUMBERS UNDER WHICH WASTE (FOR MATERIAL) RECEIVED AND DATE OF RECEIPT	9. WASTE CODE DESCRIBED OR COLLECTED	10. ORIGINATOR COMPANY REPORT NUMBER OR STATE	11. AS PROCESSED/COLLECTED TOTAL
188	Catholic University of America / DC S.F.A.P. (202) 315-3288	525 Michigan Ave. NE Washington, DC 20004	0.028	Catholic Generation 07252615	C	DC	1.162E+00
TOTALS OF ALL PAGES (FORMS 542 AND 542A)							0.028

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPIC SUMMARY**  
For Manifest # T132881  
Energy Solutions / Bear Creek Operations

Isotope	Total Activity			Total SNM	Total Source
	(MBq)	(mCi)	(Ci)	(gm)	(lb)
CO-57	2.7247E+00	7.3640E-02	7.3640E-05	.0000E+00	.0000E+00
CO-60	4.8918E-01	1.2880E-02	1.2880E-05	.0000E+00	.0000E+00
SN-119M	1.4034E-04	3.7930E-06	3.7930E-09	.0000E+00	.0000E+00
<b>Totals:</b>	<b>3.1940E+00</b>	<b>8.6324E-02</b>	<b>8.6324E-05</b>	<b>.0000E+00</b>	<b>.0000E+00</b>



# APPENDIX 2

Remove Items HH (Neptunium 237, encapsulated foils, 3.5 mCi), KK (Californium 252 plated source, CUA ID S-108, 0.22 uCi) and LL (Californium 252 plated source, CUA ID S-110, 12 uCi) under column number 6

APPROVED BY OMB: NO. 3150-0164 Estimated burden per response to comply with this information collection request: 48 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-3 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to [infocollecta@nrc.gov](mailto:infocollecta@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOF-16282, (3150-0164), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

FORM 540A	UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER (CONTINUATION)							EnergySolutions, Bear Creek Processing Operations		8. MANIFEST NUMBER (Use this number on all continuation pages)  T070793  PAGE 2 OF 2 PAGE(S)	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES	16. TOTAL PACKAGE ACTIVITY MBq                      mCi		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE		
Non-Radioactive per DOT DAW	NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	1.3912E-02	(3.7800E-04)	NA	7.50 R <sup>3</sup> 138.00000 lb	07-000268 (C-9)		
Non-Radioactive per DOT DAW	NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	1.3912E-02	(3.7800E-04)	NA	7.50 R <sup>3</sup> 171.00000 lb	07-000269 (C-10)		
Non-Radioactive per DOT METAL	NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	1.3912E-02	(3.7800E-04)	NA	7.50 R <sup>3</sup> 153.00000 lb	07-000270 (C-11)		
Non-Radioactive per DOT METAL	NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	9.0280E-01	(2.4400E-02)	NA	4.00 R <sup>3</sup> 290.00000 lb	07-000271 (C-12)		
Radioactive material, excepted package-limited quantity of material, 7, UN2910 METAL	NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	9.0280E-01	(2.4400E-02)	NA	7.50 R <sup>3</sup> 113.00000 lb	07-000272 (C-13)		
RADIOACTIVE MATERIAL, TYPE A PACKAGE NON-SPECIAL FORM, NON FISSILE OR FISSILE-EXCEPTED, 7, UN2915; FISSILE EXCEPTED SEALED SOURCES	Yellow II	4	SOLID/METAL OXIDES	BI-207 ; C-14 ; CF-252 ; CO-57 ; CS-137 ; NP-237 ; SR-90 ; TH-230 ; U-235	4.0719E+03	(1.1005E+02)	NA	0.68 R <sup>3</sup> 20.00000 lb	07-000306 (C-1A)		



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APPROVED BY OMB: NO. 3150-0164 Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0601, or by Internet e-mail to infocollect@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (3150-0164), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

<b>FORM 540</b> <b>EnergySolutions, Bear Creek Processing Operations</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		<b>5. SHIPPER - NAME AND FACILITY</b> Catholic University of America/DC C/O Duratek 620 Michigan Ave Washington, DC 20064		<b>SHIPMENT ID NUMBER</b> T070793	<b>7. FORM 540 AND 540A</b> PAGE 1 OF 2 PAGE(S) <b>FORM 541 AND 541A</b> 5 PAGE(S) <b>FORM 542 AND 542A</b> 1 PAGE(S) <b>ADDITIONAL INFORMATION</b> 3 PAGE(S)		<b>8. MANIFEST NUMBER</b> (Use this number on all continuation pages) T070793		
<b>1. EMERGENCY TELEPHONE NUMBER (Include Area Code)</b> (865) 220-1555		<b>USER PERMIT NUMBER</b>	<b>SHIPMENT NUMBER</b> T070793	<b>9. CONSIGNEE - Name and Facility Address</b> EnergySolutions, Bear Creek Processing Operations Operated By EnergySolutions 1560 Bear Creek Road Oak Ridge, TN 37830	<b>CONTACT</b> Fred Schutz <b>TELEPHONE NUMBER (Include Area Code)</b> (865) 481-0222				
<b>ORGANIZATION</b> Duratek Attn: Emergency Duty Officer		<b>CONTACT</b> Mahmoud Haleem		<b>TELEPHONE NUMBER (Include Area Code)</b> (202) 319-5206	<b>SIGNATURE - Authorized consignee acknowledging waste receipt</b>				
<b>2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST</b> 14	<b>6. CARRIER - Name and Address</b> Duratek, operated by Hittman 628 Galleher Road Kingston, TN 37830		<b>Truck #:</b> 5437 <b>Trailer #:</b> 730830	<b>EPA I.D. NUMBER</b> TND-98-778-3085	<b>DATE</b> 03/06/2007			
<b>4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "Yes", provide Manifest Number =====>		<b>EPA MANIFEST NUMBER</b> N/A		<b>CONTACT</b> Karen Kirby		<b>TELEPHONE NUMBER (Include Area Code)</b> 800-233-9933			
		<b>SIGNATURE - Authorized carrier acknowledging waste receipt</b> <i>Mahmoud Haleem</i>		<b>DATE</b> 3-6-07	<b>AUTHORIZED SIGNATURE</b> <i>Ch. Doster</i>	<b>TITLE</b> Broker/Driver			
				<b>DATE</b> 3-6-07	<b>10. CERTIFICATION</b> This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and in proper condition for transportation and disposal in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.				
<b>11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION</b> (Including proper shipping name, hazard class, UN ID number, and any additional information)		<b>12. DOT LABEL "RADIOACTIVE"</b>	<b>13. TRANSPORT INDEX</b>	<b>14. PHYSICAL AND CHEMICAL FORM</b>	<b>15. INDIVIDUAL RADIONUCLIDES</b>	<b>16. TOTAL PACKAGE ACTIVITY</b> MBq : mCi	<b>17. LSA/SCO CLASS</b>	<b>18. TOTAL WEIGHT OR VOLUME</b> (Use appropriate units)	<b>19. IDENTIFICATION NUMBER OF PACKAGE</b>
Non-Radioactive per DOT DAW		NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	3.4706E-02 (9.3800E-04)	NA	7.50 R <sup>3</sup> 449.00000 lb	07-000260 (C-1)
Non-Radioactive per DOT DAW		NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	2.7824E-01 (7.5200E-03)	NA	7.50 R <sup>3</sup> 427.00000 lb	07-000261 (C-2)
Non-Radioactive per DOT DAW		NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	1.3912E-01 (3.7600E-03)	NA	4.00 R <sup>3</sup> 386.00000 lb	07-000262 (C-3)
Non-Radioactive per DOT DAW		NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	1.3912E-01 (3.7600E-03)	NA	4.00 R <sup>3</sup> 248.00000 lb	07-000263 (C-4)
Non-Radioactive per DOT DAW		NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	5.5500E-02 (1.5000E-03)	NA	7.50 R <sup>3</sup> 95.00000 lb	07-000264 (C-5)
Non-Radioactive per DOT DAW		NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	5.5500E-02 (1.5000E-03)	NA	7.50 R <sup>3</sup> 172.00000 lb	07-000265 (C-6)
Non-Radioactive per DOT DAW		NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	5.5500E-02 (1.5000E-03)	NA	7.50 R <sup>3</sup> 102.00000 lb	07-000266 (C-7)
Non-Radioactive per DOT DAW		NA	NA	SOLID/METAL OXIDES	TH-232 ; U-238	5.5500E-02 (1.5000E-03)	NA	7.50 R <sup>3</sup> 111.00000 lb	07-000267 (C-8)
<b>FOR CONSIGNEE USE ONLY</b> Tennessee "License For Delivery" No. _____ South Carolina Transport Permit No. _____ US Ecology Generator No. _____ US Ecology Permit No. _____		<b>20. Generator Certification Statement</b> A) Radioactive Materials: Certification is hereby made that this shipment of low-level radioactive waste has been prepared in accordance with a radioactive waste management program which has been approved by the Nuclear Regulatory Commission or an Agreement State regulatory agency and with the current revision of the site Material Acceptance Criteria. B) Hazardous Materials: Generator hereby certifies that this material does not contain a hazardous waste as defined in 40 CFR 261. C) Data: Generator hereby represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and site Radioactive Material licenses. D) INFECTIOUS SUBSTANCE: Generator hereby certifies that this material does not contain an infectious substance as defined in 40 CFR 173.134  <i>Mahmoud Haleem</i> <i>Ch. Doster</i> <u>3/6/07</u> Print Name Signature Date							

# APPENDIX 3

Remove items II (Americium 241, sealed source, 30 mCi, NUMEC Cat. No. 9AMG14, CUA ID S-107)  
and JJ (Americium 241, sealed source, 200mCi, CUA ID S-104, inventory No. 95-012) under column number 6

## Los Alamos NATIONAL LABORATORY



**ATRO # 2011:47**

**Off-Site Source Recovery Project  
Authorization to Transfer/Relinquishment of Ownership/Custody**

SOURCE OWNER:	Catholic University of America	TELEPHONE:	202-319-5206
LICENSE:	08-02075-03	FAX:	202-319-4446
CONTACT NAME:	Mahmoud Haleem		
ADDRESS:	Marsit Annex Building, Room 238 620 Michigan Ave NE Washington, DC 20064		

Pursuant to its authority under the Atomic Energy Act, the U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) has directed Los Alamos National Security, LLC (LANS), to recover and store excess, unwanted, abandoned, orphan radioactive sealed sources and other radioactive material sources on behalf of DOE/NNSA.

LANS has determined that the sealed source(s) identified below meet the requirements of the Los Alamos National Laboratory Off-Site Source Recovery Project and, on behalf of DOE/NNSA, authorizes Catholic University of America to transfer the sealed source(s) to the following designated LANS support subcontractor:

NSSI / Sources & Services, Inc.  
Texas Department of State Health Services  
Radioactive Material License No. L02991

Catholic University of America affirms it is the owner/custodian of the sealed source(s) identified below, and hereby irrevocably relinquishes all rights, title and ownership/custody in the sealed source(s) to DOE/NNSA in furtherance of the OSRP. LANS accepts the sealed sources on behalf of DOE/NNSA, pursuant to DOE/NNSA contract no. DE-AC52-06NA25396, upon the execution of the Acknowledgment of Receipt of the source(s) by the designated LANS support subcontractor below.

### SOURCE INFORMATION

Isotope:	Mfr/Model:	Serial No:	SFC No.	Activity (Ci):
241Am	NUMEC/9AMG14	9AMG14	2-0027	3.000E-02
241Am	MRC/2703	MRC-AM-211	2-0027	2.000E-01

SOURCE OWNER:  
OFFICIAL NAME/TITLE: Mahmoud Haleem  
NAME (Please Print or Type)

RSO  
TITLE (Please Print or Type)  
DATE 01/25/2011

SIGNATURE [Signature]

LANS AUTHORIZATION:  
OFFICIAL NAME/TITLE: Rick Rasmussen, Team Leader, Off-Site Source Recovery Project

DATE 2/14/11

SIGNATURE [Signature]

ACKNOWLEDGEMENT OF RECEIPT BY DESIGNATED LANS SUPPORT SUBCONTRACTOR:  
NSSI / Sources & Services, Inc.

OFFICIAL NAME/TITLE: Carlos Rios  
NAME (Please Print or Type)

[Signature]  
TITLE (Please Print or Type)  
DATE 2-20-11

SIGNATURE [Signature]

## APPENDIX 4

Remove item MM under column number 6, Cesium 137, (sealed source, Amersham Models CDC.93, CDC.192, CDC.PE2, CDC.PE3, CDC.PE4, CDC.PE5, CDC.PE6, CDC.PE7, or CDC.PE8; IPL Model 193, IRL Models 2-4 or 2-10; J.L. Shephard Model 6810; 3M Models 4P6E, 4F6H, 4D6L, or 4F6S; OR US Nuclear Model 375, 200 millicuries). The calibrator was shipped back to the vendor namely J.L. Shephard, located in California.

**JL SHEPHERD & ASSOCIATES**  
1010 ARROYO AVE, SAN FERNANDO, CALIFORNIA 91340-1822

818-898-2361 FAX 818-361-8095

### CERTIFICATION OF SOURCE/DEVICE POSSESSION TRANSFER

This document is to certify that on November 11, 2008, J.L. Shephard & Associates received from and took possession of the following source/device:

1 each, Model 28-5A Calibrator, S.N. 10276,  
containing 120 millicuries Cesium-137, J.L. Shephard & Associates Model 6810 Capsule,  
S.N. F249-1497 as of 06/30/1994

from: The Catholic University of America, 620 Michigan Ave., N.E., Washington, D.C.  
20064

This source/device was packaged and transported by The Catholic University of America, under the applicable U.S. Department of Transportation 49 Code of Federal Regulations. This transfer of possession of the source/device took place in accordance with J.L. Shephard and Associates State of California (a U.S. Nuclear Regulatory Commission Agreement State) Radioactive Materials License 1777-19, Amendment 88, Expiration Date 10/11/2018 and in accordance with U.S. Nuclear Regulatory Commission 10CFR40.51.



Mary F. Shephard  
Vice President, Licensing and Special Projects  
J.L. Shephard and Associates  
Date: November 12, 2008

This is to acknowledge the receipt of your letter/application dated

03/25/2015, and to inform you that the initial processing which includes an administrative review has been performed.

08-02075-03 (amendment)

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 586436.  
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.