January 11, 2000

Docket No. 030-29741 Control No. 125664

License No.

29-01022-14

Joseph M. Santarsiero
Acting Director, Safety Risk Management
Department of the Army
U.S. Army Communications Electronics Command
AMSEL-SF-RER
Ft. Monmouth, NJ 07703-5024

Dear Mr. Santarsiero:

Enclosed is the Corrected Copy of Amendment No. 18 for License No. 29-01022-14. In accordance with a telephone call from Barry Silber of your staff, during December 1999. Items 6, 7, 8, and 9 of this license have been changed to add 85 kilograms of depleted uranium as shielding for the CDV-794 instrument calibrator in your possession.

We apologize for any inconvenience this error may have caused.

Sincerely,

Original signed by John D. Kinneman

John D. Kinneman, Chief Nuclear Materials Safety Branch 2 Division of Nuclear Materials Safety

Enclosure: Corrected Copy of Amendment No. 18

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions

DOLY

J. Santarsiero Department of the Army

OFFICE	DNMS/RI		Ν	DNMS/RI	Ν	DNMS/RI			
NAME	JJoustra/jaj	/s/		JKinneman/jdk /s/			<u> </u>		
DATE	01/11/2000			01/11/2000					

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1		
NRC FORM 374	U.S. NUCLEAR REGULAT	ORY COMMISSION PAGE 1 OF 6 PAGES Amendment No. 18
	MATERIALS	LICENSE
of Federal Regulations, Chapter I, Parts 30 heretofore made by the licensee, a license is source, and special nuclear material designateliver or transfer such material to persons au shall be deemed to contain the conditions s	, 31, 32, 33, 34, 35, 36, 3 hereby issued authorizing ated below; to use such m athorized to receive it in ac- pecified in Section 183 of	Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code 39, 40, and 70, and in reliance on statements and representations g the licensee to receive, acquire, possess, and transfer byproduct, naterial for the purpose(s) and at the place(s) designated below; to cordance with the regulations of the applicable Part(s). This license is the Atomic Energy Act of 1954, as amended, and is subject to all mmission now or hereafter in effect and to any conditions specified
Licensee		In accordance with the letter dated
		July 14, 1999,
1. U.S. Army Communication-		3. License number 29-01022-14 is amended in
Electronics Command	The state of the s	its entirety to read as follows:
2. AMSEL-SF	A Section of the sect	4. Expiration date October 31, 2003
Fort Monmouth, New Jersey 0770	3-5024	5. Docket No. 030-29741
	and the second s	Reference No.
Byproduct, source, and/or special nuclear material	7. Chèmical and/or p	ohysical form 8. Maximum amount that licensee may possess at any one time under this license
A. Cobalt 60	A. (
B. Cobalt 60	. В. / 	B
C. Cobalt 60	C. (
D. Krypton 85	D. Sealed sources No. B124-12-8	
E. Strontium 90	E. () E. ()
F. Strontium 90	F. Sealed source: No. SM-B-5090	

NRC FORM 374A	U.S. NUCLEAR REGULAT	TORY COMMISSION		PAGE	2 of	6	PAGES
			License Number 29-01022-14		,		
	ATERIALS LICENSE JPPLEMENTARY SHEET		Docket or Referenc 030-29741	e Number			
·			Amendment N	lo. 18			
		·					
Byproduct, source, a nuclear material	and/or special 7. Chemi	nical and/or physical	form 8.	Maximum amo possess at any license			
G. Strontium 90	G.		G				
H. Strontium 90		ed sources (3M E 921-0474-8)	Dwg. No. H.	Not to excee per source a total			
I. Cesium 137	1.	·	Joseph I.				A Common of the
J. Cesium 137	Services J. J.		J.	l en			e compression de la compressio
				A Section of the sect			
K. Plutonium 239	(Eber	troplated sources rline Instrument el 594-1)		Not to excee (1.4 microcu 0.0115 gram	ıries) per		
L. Americium 241	Radio	ed sources (Ame ochemical Cente rsham Code 208	er,,,,,,	Not to excee source and s			•
M. Americium 241		ed sources (Ame el AMR 8122)	rsham M.	Not to excee source and t total			
N. Americium 241		ed sources (Ame el AMRB 8152)	rsham N.	Not to excee per source a total			
O. Americium 241		ed sources (Ame el AMRB 1659)	rsham O.	Not to excee per source a microcuries t	ind 100	crocu	ıries
P. Thorium 230		roplated source (ument Corp., Mod 2)		Not to excee (20 nanocuri 1 milligram to	ies) per s		

NRC FORM 374A U.S.	NUCLEAR REGULATORY COMMISSION	PAGE 3 of 6 PAGES					
		License Number 29-01022-14					
		Docket or Reference Number 030-29741					
		Amendment No. 18					
Byproduct, source, and/or special nuclear material	al 7. Chemical and/or physical t	form 8. Maximum amount that licensee may possess at any one time under this license					
Q. Thorium 232	Q. Metal foils	Q. Not to exceed 2.7 grams (300 nanocuries) per source and 4.05 kilograms total					
R. Plutonium 239	R. Electroplated sources (Eberline Instrument (Model No. CS-1)	R. Not to exceed 163 nanograms					
S. Thorium 232	S. Solid (Thorium Fluoric coating on optical sys						
T. Cesium 137		T					
U. Cesium 137	U. Sealed Sources (Nucl Chicago Model OCD-						
V. Hydrogen 3	V. Tritiated paint in Lens Compasses (NSN 660 846-7618)						
W. Hydrogen 3	W. Sealed light sources i Lensatic Compasses 6605-00-151-5337)	W. 190 millicuries per compass (NSN- and 5700 curies total					
X. Depleted Uranium	X. Metal	X. 85 kilograms					
9. Authorized use:							
S. Optical coating on thermal T. For use in FEMA Model C U. For use in FEMA Model C V. and W. For Possession, reserve component	DV-794 calibrators for instrument DV-790 calibrators for instrument storage, and distribution to any lents including the U.S. Army, U.S. Agency, the National Guard and	calibrations. calibrations. U.S. Department of Defense elements and S. Navy, U.S. Marine Corps, U.S. Air Force,					
	CONDITIONS						

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NRC:	FORM	3/4A

U.S. NUCLEAR REGULATORY COMMISSION

	PAGE	4	01	О	PAGES
License Number					10.00
29-01022-14					
Docket or Reference Number 19741	oer				

Amendment No. 18

MATERIALS LICENSE SUPPLEMENTARY SHEET

- 10. Licensed material may be used only at the licensee's facilities located at Fort Monmouth, New Jersey, and at Department of Defense installations anywhere in the United States.
- 11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have completed the training described in application dated July 20, 1992 and letter dated May 1, 1998, with enclosures.
 - B. The Radiation Safety Officer for this license is Joseph M., Santarsiero.
- 12. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
 - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
 - C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
 - D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
 - E. Sealed sources and detector cells need not be leak tested if
 - (I) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
 - F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed

NRC FORM:	271A

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 5 of 6 PAGES
License Number
29-01022-14
Docket or Reference Number
030-29741

Amendment No. 18

MATERIALS LICENSE SUPPLEMENTARY SHEET

of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Director, Division of Nuclear Materials Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

- G. The licensee is authorized to collect leak test samples for analysis by licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- 13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- 14. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
- 15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State:
- 16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

NRC FORM 374	A U.S. NUCLEAR REGULATORY COMMISSION	PAGE 6 of 6 PAGE
		License Number 29-01022-14
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-29741
		Amendment No. 18
accorda any enc stateme restrictiv	as specifically provided otherwise in this license, to not with the statements, representations, and prolosures, listed below. The Nuclear Regulatory Conts, representations, and procedures in the license than the regulations.	ocedures contained in the documents, including ommission's regulations shall govern unless the see's application and correspondence are more
A. B. C. D.	Application dated July 20, 1992 Letter dated June 15, 1993 Letter dated April 6, 1994 Letter dated February 28, 1997	
E. F.	Letter dated July 30, 1997 Letter dated August 27, 1997, with attachment	
G.	Letter dated September 10, 1997	
H.	Letter dated May 1, 1998	Company of the Compan
١.	Letter dated July 2, 1998	and the state of t
J.	Letter dated May 13, 1998, with attached surve	
K.	Letter dated July 14, 1999 with attached survey	y report (2)
L.	Letter dated September 1, 1999	
M.	Letter dated September 10, 1999	
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	For the U.	S. Nuclear Regulatory Commission
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	Ju Nu Div Re	dith A. Joustra uclear Materials Safety Branch 2 vision of Nuclear Materials Safety egion I ng of Prussia, Pennsylvania 19406