

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

June 21, 2005

License No. 47-01876-01

Docket No. 03006660 Control No. 137009

Richard F, Bonar Radiation Safety Officer E. I. DuPont P.O. Box 1217 Washington, WV 26181-1217

SUBJECT: E. I. DUPONT, LICENSE AMENDMENT, CONTROL NO. 137009

Dear Mr. Bonar:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are available at the NRC web site at <u>http://www.nrc.gov/materials/miau/mat-toolkits.html</u> and <u>http://www.nrc.gov/who-we-are/governing-laws.html</u> or by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 9:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

Original signed by Jenny Johansen

Jenny Johansen Health Physicist Materials Security and Industrial Branch Division of Nuclear Materials Safety

Enclosure: Amendment No. 53 R. Bonar E. I. DuPont

DOCUMENT NAME: E:\Filenet\ML051750227.wpd

To receive a copy	y of this document, in	dicate in the box	: "C" = Copy w/o attach/encl	"E" = Copy w/ attach/encl	"N" = No copy

OFFICE	DNMS/RI	Ν	DNMS/RI	DNMS/RI	
NAME	JJohansen / <b>JMJ</b> /				
DATE	6/21/05				

## OFFICIAL RECORD COPY

NRC FORM 374 U.S.	ORM 374 U.S. NUCLEAR REGULATORY COMMISSI				
	MATERIALS I	LICENSE			
Pursuant to the Atomic Energy Act of 1954, as ar of Federal Regulations, Chapter I, Parts 30, 31, heretofore made by the licensee, a license is her source, and special nuclear material designated deliver or transfer such material to persons author shall be deemed to contain the conditions specifi applicable rules, regulations, and orders of the N below.	32, 33, 34, 35, 36, 3 eby issued authorizing below; to use such ma ized to receive it in acc ed in Section 183 of th	49, 40, and 70, and in the licensee to receiv aterial for the purpose cordance with the regu he Atomic Energy Ac	reliance on statements and representations e, acquire, possess, and transfer byproduct, (s) and at the place(s) designated below; to lations of the applicable Part(s). This license t of 1954, as amended, and is subject to all		
Licensee		In accordance wi	th the letter dated		
		April 29, 2005,			
1. E.I. DuPont		3. License number 4	7-01876-01 is amended in		
	LEAR R	its entirety to rea	d as follows:		
2. P.O. Box 1217	1	4. Expiration date M	ay 31, 20014		
Washington, West Virginia 26181-12	217	5. Docket No. 030-	06660		
6		Reference No.	P		
<u>41</u> S		1	1		
<ul> <li>Byproduct, source, and/or special 7 nuclear material</li> <li>A. Cesium 137</li> </ul>	<ul> <li>Chemical and/or pl</li> <li>A. Sealed Source</li> </ul>		<ul><li>8. Maximum amount that licensee may possess at any one time under this license</li><li>A. No single source to exceed the</li></ul>		
A. Cesium 137	X.8, X.9, CDC- CDC-810, CDC CDC.711M, CE CDC.93, CDC. CKC.P4, Gamm NEN NER-570 Ohmart A-2096	91, CDC-808, C.700, DC.800, PE2, CKC.PI, ma Ind. VDHP; J, Type-375; G, A-2102, A- els 225, A3402, 4D6L, 4D6P,	maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State		
B. Cesium 137 E	3. Sealed Source 4F6S and 4P6 Dwg. Lab-710)	N and USRC	B. No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State		
C. Cobalt 60	C. Sealed Source Model R-31)	s (Tracer Lab	C. No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State		

NR	C FORM 374A U.S	U.S. NUCLEAR REGULATORY COMMISSION						
				License Number 47-01876-01				
	MATERIA SUPPLEME			Docket or Reference	Number			
				Amendment N	lo. 53			
6.	Byproduct, source, and/or specia nuclear material	al 7.	Chemical and/or physical t	form 8.	Maximum amount that licensee may possess at any one time under this license			
D.	Cesium 137		Sealed Sources (ICN Nos. 375 or 76149)	Model D.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State			
E.	Strontium 90	ζ E.	Sealed Sources (Am Model SIF.D2)	ersham E.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State			
F.	Nickel 63	E	Foil or plated source detector cells (IPL NI Prosentry-IMS, HP 6	ER-004R;	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State			
G.	Americium 241	G.	Sealed Sources (Am AMN.17. AMN.18, Al CVN.1, CVN.2, CVN CVN.4, CVN.5; Gam AN-HP; Frontier Tec FTC Model 10 series Model 100 series)	MN.19, .3, matron hnology	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State			
Н.	Cesium 137	H.	Sealed Sources (CP CPN-131)	N Model H.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State			
Ι.	Americium 241	I.	Sealed Sources (CP CPN-131)	N Model I.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State			

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 3 of 6 PAGES						
		License Number 47-01876-01						
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-06660						
		Amendment No. 53						
9. Authorize								
A. and E.	been registered either with the U.S. Nuclear Re with an Agreement State and have been distributed by the state and have been distribute	x and/or Ronan fixed gauging devices that have gulatory Commission under 10 CFR 32.210 or uted in accordance with a Commission or stribution to persons specifically authorized by a						
В.	For use in custom built devices, as described in application dated December 23, 1993, for materials measurements.							
C. and D.	For calibration of licensee's portable survey meters.							
F.	For use in electron capture detector cells in gas chromatography units and mass spectrometers that are distributed under a specific license issued by the U.S. Nuclear Regulatory Commission or any Agreement State.							
G.	For use in Radiation Monitoring Devices, Inc. Model 200 series gauge to measure glass content of materials.							
H. and I.	In Campbell Pacific Nuclear Company Model No. MCM-2 and MC Series Portaprobe portable gauging devices for measuring physical properties of materials.							
	1, 19 4							
	CONDITIONS	4						
	material may be used or stored only at the licens urg, West Virginia at 8480 State Route 892 (DuF							
	material shall be used by, or under the supervisi ops, R.G. Sims, Anthony J. Playtis, and/or Steven							
12. The Radi	ation Safety Officer for this license is Richard F. Bonar.							
material f	on to the possession limits in Item 8, the licensee shall further restrict the possession of licensed to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing iissioning financial assurance.							
mon	ealed sources shall be tested for leakage and/or contamination at intervals not to exceed six onths or at the intervals specified in the certificate of registration issued by the U.S. Nuclear egulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement							

NRC FORM 374A		M 374A	374A U.S. NUCLEAR REGULATORY COMMISSION								PAGE	4	of 6	; P	PAGES
									License Number 47-01876-01						
			MATERIALS LICENSE SUPPLEMENTARY SHEET						Docket or Referen	ce Number	-				
									Amendment	No. 53					
	B. In the absence of a certificate from a transferor indicating that a leak test has been made within t intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commis under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer sealed source received from another person shall not be put into use until tested and the test reserved.									ission fer, a					
	C. Sealed sources need not be tested if they are in storage and are not being used; however, when are removed from storage for use or transferred to another person and have not been tested with the required leak test interval, they shall be tested before use or transfer. No sealed source share stored for a period of more than 10 years without being tested for leakage and/or contamination								ithin all be						
	D The leak test shall be capable of detecting the present radioactive material on the test sample. If the test reve (185 becquerels) or more of removable contamination, Regulatory Commission in accordance with 10 CFR 30 immediately from service and decontaminated, repaire Commission regulations.					reveals the presence of 0.005 microcurie tion, a report shall be filed with the U.S. Nuclear R 30.50(c)(2), and the source shall be removed					ear				
	E. Tests for leakage and/or contamination, limited to leak to the licensee or by other persons specifically licensed by an Agreement State to perform such services. The licen analysis; analysis of leak test samples must be performe U.S. Nuclear Regulatory Commission or an Agreement					d by the U.S. Nuclear Regulatory Commission or licensee is not authorized to perform the ormed by persons specifically licensed by									
	F.	Records	s of leak t	est result	is shall	l be kep	ot in units	of m	icrocuries and	d shall I	be mair	ntaine	ed for	5 ye	ears.
15.	5. Sealed sources or source rods containing licensed material shall not be opened or sources removed source holders or detached from source rods or gauges by the licensee, except as specifically authority														
16. The licensee shall conduct a physical inventory every six months, or at other intervals U.S. Nuclear Regulatory Commission, to account for all sources and/or devices receiv under the license. Records of inventories shall be maintained for 5 years from the dat and shall include the radionuclides, quantities, manufacturer's name and model number the inventory.					red ai te of	nd po each	inve	ssed entory							
17.	A.	if any, a registrat	at intervals	not to e d by the	xceed U.S. N	6 mont luclear	ths or at su Regulator	uch	of the on-off m longer interva ommission put	ils as sp	ecified	in th	e cer	tifica	ate of
	<ul> <li>B. Notwithstanding the periodic on-off mechanism apply to gauges that are stored, not being used position. The gauges exempted from this period</li> </ul>					ing used, a	and	have the shut	tter lock	mecha	anism				

NRC	NRC FORM 374A		U.S. NUCLEAR REGULATORY COMMISSION	PAGE 5 of 6 PAGES				
				License Number 47-01876-01				
			MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-06660				
				Amendment No. 53				
18.	A.	sources Sims, A applica	tion, initial radiation surveys, relocation, or ren s shall be performed only by, R.F. Bonar, D.L.I Anthony J. Playtis, and/or Steven A. Middleton tion dated December 23, 1993, or by persons tory Commission or an Agreement State to pe	, in accordance with procedures specified in specifically licensed by the U.S. Nuclear				
	B. Maintenance and repair of devices, installation and replacement of sealed sources listed in sub 6.B., 7.B., 8.B., and 9.B. shall be performed only by, R.F. Bonar, D.L.Bloomer, D.M. Rexroad, M Hoops, R.G. Sims, Anthony J. Playtis, and/or Steven A. Middleton, in accordance with procedur specified in application dated December 23, 1993, or by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.							
	C.	shall be	nance and repair of devices and installation, re e performed only by persons specifically licens greement State to perform such services.	eplacement, and disposal of sealed sources ed by the U.S. Nuclear Regulatory Commission				
19.	the dete This	source of ermine ra s survey	or removal of the shieldi <mark>ng, the</mark> licensee shall a adiation levels in accessi <mark>ble areas</mark> around, abo	tling, alignment, or any other activity involving assure that a radiological survey is performed to ove, and below the gauge with the shutter open. d to perform such services by the U.S. Nuclear				
20.	tem	perature	e shall operate each device containing license e and environmental limits such that the shield promised.	d material within the manufacturer's specified ing and shutter mechanism of the source holder				
21.	. The licensee shall assure that the shutter mechanism, for each device containing licensed material, is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify, as appropriate, its "lock-out" procedures whenever a new device is obtained to incorporate the device manufacturer's recommendations.							
22.	. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthoriz or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport or storage, or when not under the direct surveillance of an authorized user.							
23.	rod	from the	es that requires detaching the source or source acturer or by other persons specifically licensed nent State to perform such services.					

NRC	NRC FORM 374A		U.S. NUCLEAR REGULATO	ORY COMMISSI	PAGE 6 of 6 PAGES			
					License Number 47-01876-01			
			MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Number 030-06660			
					Amendment No. 53			
24.	A.	below the second	he surface, the licensee shall us es above the surface and other e becoming lodged below the su	se surface o appropriate urface. If it nplement pr	hielded sealed sources extended more than 3 feet casing that extends from the lowest depth to e procedures to reduce the probability of the source is not feasible to extend the casing 12 inches rocedures to ensure that the cased hole is free of			
	B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U.S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent.							
25.			e is authorized to transport licen 71, "Packaging and Transporta		al in accordance with the provisions of dioactive Material."			
26.	acc any the mor A. B.	ordance enclosu statemen e restrict Applica	with the statements, representations, representations, listed below. The U.S. Nuc	ations, and clear Regula dures in the ML0334603	e, the licensee shall conduct its program in procedures contained in the documents, including atory Commission's regulations shall govern unless licensee's application and correspondence are 07)			
				For the	U.S. Nuclear Regulatory Commission			
Date June 21, 2005		Jun	e 21, 2005	By M I	<b>Original signed by Jenny Johansen</b> Jenny Johansen Materials Security and Industrial Branch Division of Nuclear Materials Safety Region I King of Prussia, Pennsylvania 19406			