

Docket No.

Control No.

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

October 24, 2002

License No.

19-00915-03

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John T. Jensen Director, Radiation Safety Staff United States Department of Agriculture Office of Human Resources Management Safety & Health management Division Radiation Safety Staff Mail Stop 5510 5601 Sunnyside Avenue

03004530

131983

SUBJECT: UNITED STATES DEPARTMENT OF AGRICULTURE, ISSUANCE OF LICENSE AMENDMENT, CONTROL NO. 131983

Dear Mr. Jensen:

Beltsville, MD 20705-1500

This refers to your letter dated August 16, 2002, requesting authorization to decommission the radioactive waste burial site located at your facilities in Ames, Iowa. Enclosed with this letter is the amended license. Condition No. 33 of the amended license authorizes you to initiate the requested activities in accordance with the plan enclosed with your above referenced letter. Prior to release of the site for unrestricted use, you must submit to this office final radiological survey results of the facility that demonstrate that the facility meets the NRC criteria for release for unrestricted use.

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.

In acccrdance with 10 CFR 2.790, a copy of this letter will be placed in the NRC Public Document Room and will be accessible from the NRC Web site at <u>http://www.nrc.gov/reading-rm.html.</u>

Thank you for your cooperation.

Sincerely,

Original signed by Elizabeth Ullrich

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

Enclosure:

J. Jensen United States Department of Agriculture

Amendment No. 118

cc:

:

James A. Stevens, Director, Safety & Health Management Division

J. Jensen United States Department of Agriculture

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NRC FORM 374	U.S. NUCLEAR REGULATO	RY COMMISSION	PAGE <u>1</u> OF <u>7</u> PAGES Amendment No. 118
	MATERIALS L	ICENSE	
Pursuant to the Atomic Energy Act of 1954, of Federal Regulations, Chapter I, Parts 3 heretofore made by the licensee, a license i source, and special nuclear material design deliver or transfer such material to persons a shall be deemed to contain the conditions applicable rules, regulations, and orders of below.	as amended, the Energy Red 0, 31, 32, 33, 34, 35, 36, 39, s hereby issued authorizing the nated below; to use such mat suthorized to receive it in acco specified in Section 183 of the the Nuclear Regulatory Comr	organization Act of 197 , 40, and 70, and in rel he licensee to receive, terial for the purpose(s irdance with the regulat ne Atomic Energy Act of mission now or hereafte	4 (Public Law 93-438), and Title 10, Code liance on statements and representations acquire, possess, and transfer byproduct,) and at the place(s) designated below; to tions of the applicable Part(s). This license of 1954, as amended, and is subject to all er in effect and to any conditions specified
Licensee	1	In accordance with	the letter dated
		August 16, 2002,	
1. United States Department of Agr	iculture	3. License number 19	0-00915-03 is amended in
Office of Human Resources Man	agement R	ts entirety to read	as follows:
Safety and Health Management I Radiation Safety Staff	Division	-GULA.	
2. Mailstop 5510		4. Expiration date Se	ptember 30, 2005
5601 Sunnyside Avenue		5. Docket No. 030-02	1530
Beltsville, Maryland 20705, 1500		Reference No.	2
F			0
 Byproduct, source, and/or special nuclear material A. Any byproduct material with atomic numbers 1 through 83 and a half-life less than or equal to 120 days 	7: Shemical and or phy numerical and or phy numeric	vsical control 8.	Maximum amount that licensee may possess at any one time under this license Assneeded
B. Any byproduct material with atomic numbers 1 through 83 and a hall-life greater than 120 days	B. Anytexceptise	ed soulces	See Condition 12
C. Any byproduct material with atomic numbers 1 through 83	C. Sealed sources	C	. Not to exceed 250 millicuries per source and 10 curies total
D. Hydrogen 3	D. Plated sources o	r foils D	Not to exceed 1 curie per source and 4 curies total
E. Iron 55	E. Sealed sources	E.	Not to exceed 15 millicuries per source and 150 millicuries total
F. Nickel 63	F. Plated sources o	r foils F.	Not to exceed 20 millicuries per source and 4 curies total
G. Cadmium 109	G. Sealed sources	G	. Not to exceed 50 millicuries per source and 1 curie total
H. Cesium 137	H. Sealed sources	H.	Not to exceed 15 millicuries per source and 20 curies total

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	C.	In the ab months p be put in	osence prior to ito use	of a c the tr until f	ertific ansfe ested	cate f er, a : I.	from seale	a tra ed so	ansfe ource	eror e or	indica detec	atin ctor	ng tha r cell	at a l rece	leak eivec	test I fror	has n an	bee othe	n ma er pei	ade v rson	/ithir shal	n six I not	•

NR	C FOR	M 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 4 of 7 PAGES
				License Number 19-00915-03
			MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-04530
				Amendment No. 118
				<u> </u>
	D.	Each leaka	sealed source fabricated by the licensee shall bage, and contamination prior to any use or transfe	e inspected and tested for construction defects, er as a sealed source.
	E.	Seale	ed sources and detector cells need not be leak te	ested if:
		(i)	they contain only hydrogen-3; or	
		(ii)	they contain only a radioactive gas, or HEG	
		(iii)	the half-life of the isotope is 30 days or less; or	A P
		(iv)	they contain not more than 100 microcuries of be than 10 microcuries of alpha emitting material; o	eta and/or gamma emitting material or not more
		(v)	they are not designed to emit alpha particles, are when they are removed i on slorage for Dee or tested within the required leakyest interval, they sealed source or detector cellisitall bestered for tested for leakage and/or contanibation set of	e nastorage, and are not being used. However, tansfer to another person, and have not been stialibe tested before use or transfer. No aperiod of more than 10 years without being
	F.	The t test s conta detec of in a the le Nucle report	est shall be capable of detecting the presence of ample. If the test reveals the presence of the mination, a report shall be filled with the DIS. Not tor cell shall be repoved immediately from servic accordance with Commission regulations. The re eak test result is known with the U.S. Nuclear Reg ar Materials Safety Branch, 475 Allendale Boad; t shall specify the source or detector cell involved	0.005 microcurie of radioactive material on the microcurie or more of removable clear Regulatory Commission and the source or ce and decontaminated, repaired, or disposed eport shall be filed within five days of the date gulatory Commission, Region I, ATTIN: Chief, King of Prussia, Pennsylvania 19406. The d, the test results, and corrective action taken.
1	G.	The li tests Comr	censee is authorized to collect leak test samples for leakage and/or contamination may be perform nission or an Agreement State to perform such s	for analysis by the licensee. Alternatively, ned by persons specifically licensed by the services.
19.	Sea from	led so n sourc	urces or detector cells containing licensed materice holders by the licensee.	ial shall not be opened or sources removed
20.	The has equi	licens been ivalerit	ee shall not acquire licensed material in a sealed registered with the U.S. Nuclear Regulatory Com regulations of an Agreement State.	d source or device unless the source or device mission pursuant to 10 CFR 32.210 or
21.	The devi	licens ces co	ee shall conduct a physical inventory every six m ontaining licensed material received and possess	nonths to account for all sealed sources and sed under the license.

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 5 of 7 PAGES
		License Number 19-00915-03
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-04530
		Amendment No. 118
	· · · · · · · · · · · · · · · · · · ·	<u></u>
22. A. Detec conju temp 10 Cl	tor cells containing a titanium tritide foil or a sca nction with a properly operating temperature cor eratures from exceeding that specified in the cer FR 32.210.	Indium tritide foil shall only be used in ntrol mechanism which prevents the foil rtificate of registration referred to in
B. Wher the o	in use, detector cells containing a titanium tritid utside.	le foil or a scandium tritide foil shall be vented to
23. Each port or acciden locked wh	able nuclear gauge shall have a lock or outer loc ital removal of the sealed source from its shielde en in transport, storage or when not under the d	ked container designed to prevent unauthorized ed position. The gauge or its container must be lirect surveillance of an authorized user.
24. Any clean performed Agreemer	ing, maintenance, or repair of the gauge(s) that in I only by the manufacturer or by other persons sp it State to perform such services.	requires removal of the source rod shall be pecifically licensed by the Commission or an
25. The licens days for d	ee is authorized to hold racioactive material with ecay-in-storage before disposal in ordinary trash	Raphysical half-life of less than or equal to 120 provided:
A. Waste	e to be disposed of initials manner shall be held	for decay a minimum of ten half-lives.
appro deterr remov	priate survey instrument set on its most sensitive mine that its radioactivity cannot be distributished ved or obliterated.	escale and with no interposed shielding to the background. All radiation labels shall be
C. A reco years placed the d: perfor	ord of each such disposal permitted under this Li . The record must include the date of disposal, t d in storage, the radionuclides disposed, the sur ose rate measured at the surface of each waste rmed the disposal.	icense Condition shall be retained for three the date on which the byproduct material was vey instrument used, the background dose rate, container, and the name of the individual who
26. Radioactiv procedure October 1	e waste generated shall be stored in accordance s included with the waste storage plan describec 7, 1994.	e with the statements, representations, and I in the licensee's application dated
27. Pursuant t incineratio Appendix I locations s	o 10 CFR 20.1302 and 20.2004 the licensee is a n provided the gaseous effluent from incineration B, Table 2, 10 CFR Part 20. The licensee is aut specified in Section 11.2 of the licensee's applica	authorized to dispose of licensed material by n does not exceed the limits specified for air in horized to utilize the incinerators at the ation dated October 17, 1994.

NRC FORM 37	4A U.S. NUCLEAR REGULATORY COMMISSION	PAGE 6 of 7 P	AGES
		License Number 19-00915-03	
	MATERIALS LICENSE	Docket or Reference Number 030-04530	
	SUFFLEMENTART SHEET	Amendment No. 118	
 Pursual with Atcomprovide are no gravide are no gravide are no gravide are no gravide. 204, the 20, App The lice shall more radioac The lice 10 CFR On or b dated S Researd Commis Division Notwith 	In to 10 CFR 20.2002, the licensee may dispose of omic Nos. 1 through 83, except the radionuclides in d the concentration of the radionuclides (in microco- greater than the values in Table II, Column 2, 10 C 14, aluminum-26, chlorine-36, silver-108m, niobiur e concentration can be no greater than one-tenth of endix B. Insee shall maintain control of each site where it di- onitor the Beltsville burial site in accordance with le- tive material are authorized by this license. Insee is authorized to transport licensed material in Part 71, "Packaging and Transportation of Radioa efore June 30, 1999, the licensee shall submit to the eptember 3, 1998 for remediation of the radioaction of Nuclear Materials Sately standing the requirements of LCCE630 36(d), the	f incinerator ash containing radioactive mate dentified below, as ordinary waste in a landfi uries per gram of ash) at the time of disposa FR Part 20, Appendix B. For hydrogen-3, m-94, iodine-129, technetium-99, and thallin of the value in Table II, Column 2, 10 CFR P sposed of radioactive material by burial and etter dated duly 2, 1992. No additional burial accordance with the provisions of active Material."	erials ill al m- eart I ls of etter re
a. The	e licensed material used at the site was daily in the	form sealed sources; and	
b. The	e total activity used at the site did not at any time,	exceed one curie; and	
c. All to t	sealed sources to be removed from the site have b heir removal date;	peen leak tested within the six months prior	
d. No pre	leak test of any source, performed while the sourc sence of 0.005 microcurie or more of removable co	e was possessed at the site, revealed the ontamination; and	·
e. The	e licensee maintains documentation indicating the l	location and dates of licensed material usag	je.
33. A. The loca	e licensee is authorized to initiate activities to decor ated at its facilities in Ames, Iowa.	mmission its radioactive waste burial site	
B. The Pla	e decommissioning activities shall be conducted in n dated August 15, 2002, and the letter dated Sep	accordance with the Interim Removal Action tember 11, 2002.	n
C. The Co	e licensee shall not release the burial site for unres mrnission.	tricted use unless specifically authorized by	the

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISS	ION PAGE 7 of 7 PAGES
{		19-00915-03
	MATERIALS LICENSE	Docket or Reference Number
	SUPPLEMENTARY SHEET	030-04530
		Amendment No. 118
	· · · · · · · · · · · · · · · · · · ·	
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34. Except as	specifically provided otherwise in this license	e, the licensee shall conduct its program in
accordant	sures listed below. The Nuclear Regulatory	Commission's regulations shall govern unless the
statement	s, representations, and procedures in the lice	ensee's application and correspondence are more
restrictive	than the regulations.	
	a data d lubr 0, 1000 with analoguess	
A. Lette	cation dated October 17, 1994	Gu
C. Lette	r received June 23, 1995	
D. Lette	r dated February 19, 1991	APT -
E. Lette	r dated November 27, 1995	ČΟ,
G. Lette	r dated March 1991 1999	T.
H. Lette	r dated June 16/1999	a L
I. Lette	r dated April AQ, 2000	
J. Lette	r dated August 16, 2002, and enclosures	G i
L. Elect	ronic mail dated September 25, 2002 future	
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	For the	U.S. Nuclear Regulatory Commission
		Original signed by Elizabeth Ullrich
DateOcto	Der 24, 2002 By	
		Elizabeth Ullrich
		Nuclear Materials Satety Branch 2
		Region I
	1	King of Prussia, Pennsylvania 19406
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