

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

July 18, 2006

License No. 39-23004-01

 Docket No.
 03020159

 Control No.
 138988

William B. House V.P., Regulatory Affairs EnergySolutions, LLC d.b.a. Duratek, Inc. 140 Stoneridge Drive Columbia, SC 29210

## SUBJECT: ENERGYSOLUTIONS, LLC, D.B.A. DURATEK, INC., LICENSE AMENDMENT, CONTROL NO. 138988

Dear Mr. House:

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 included on the NRC's website at <u>www.nrc.gov</u>; select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material;** then **Toolkit Index Page.** Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

Original signed by Sattar Lodhi, Ph.D.

Sattar Lodhi, Ph.D. Senior Health Physicist Materials Security and Industrial Branch Division of Nuclear Materials Safety

Enclosure: Amendment No. 14 W. House EnergySolutions, LLC, d.b.a. Duratek, Inc.

cc:

Mark S. Whittaker, C.H.P., Radiation Safety Officer

W. House EnergySolutions, LLC, d.b.a. Duratek, Inc.

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SUNSI Review Complete: <u>MBeardsley</u> After declaring this document "An Official Agency Record" it <u>will</u> be released to the Public.

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

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DATE	7/18/2006		7/31/2006			

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			(2) (3) (4) (5) (6)	Decontamination of facilities, equ Treatment of soil, water, or other resource recovery, or other simila Packaging for transport, and; Any activity related to site charac drilling wells, obtaining and analy Environmental remediation.	upment and containers; wastes, by solidification, chemical treatment, ar operations; exterization studies (which is intended to include vzing samples, etc.), and		
10	٨	Licor	and material	shall be used only at temporary jok	sites of the licensee anywhere in the United		
10.	10. A. Licensed material shall be used only at temporary job sites of the licensee anywhere in the United Sates where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.						
	B. At least 14 days before initiating activities at a temporary job site, the licensee shall notify, in writing, the Regional Administrator, NRC, Region I, ATTN: Division of Nuclear Materials Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The notification shall include:						
		(1) (2) (3) (4) (5)	Estimated ty The specific A description The estimate The name ar individual.	pe, quantity, and physical/chemical site location; of planned activities including was ed start date and completion for the nd title of a point of contact for the j	form(s) of licensed material to be used; te management and disposition; job, and ob, including information on how to contact the		
	C.	Radio samp to an comp	oactive mater ples for analys authorized re pleted.	ial originating at each temporary jo sis may be transferred to authorized ecipient or remain at the site after a	o site may be possessed. Environmental d recipients. Materials must either be transferred ctivities authorized by this license are		
	D. Licensee owned calibration sources, reference standards, and radioactively contaminated equipment may be possessed at, and transferred from the temporary job site to authorized recipients.						
11.	The	Radi	ation Safety C	Officer for this license is Mark S. Wh	nittaker, CHP.		
12.	<ol> <li>Licensed material shall be used by, or under the supervision and in the physical presence of, Mark S. Whittaker or any individual trained as specified in application dated January 5, 2000, and designated in writing by the licensee's Safety Review Board.</li> </ol>						

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13.	In ao and in pa	ccordano transpoi ackaged	ce with the licensee's letter dated November 4 rt not more than 18 curies of byproduct materi RH-TRU waste and loaded into the CNS 10-7	, 2005, the licensee is authorized to possess al, with atomic numbers 93 and above, received 160B Type B packaging.				
14.	This	license	does not authorize the import of packages co	ntaining byproduct material wastes.				
15.	15. This license does not authorize Chem-Nuclear Systems (the licensee) to use licensed materials which are specifically authorized on the customer's NRC or Agreement State license. If a customer holds an NRC or Agreement State license, the notification required by License Condition No. 10. B. shall include a written agreement between the licensee and the customer specifying which licensee activities shall be performed under the customer's license and supervision, and which licensee activities shall be performed under the licensee's supervision pursuant to this license. The agreement shall include a commitment by the licensee and the customer to ensure safety and any commitments by the licensee to help the customer clean up the temporary job site if there is an accident.							
16.	16. In an emergency, the licensee may temporarily deviate from the terms and conditions of this license and take reasonable actions, which is immediately needed to protect health and safety. These emergency actions shall be taken only after approval of the Radiation Safety Officer (RSO) identified in Condition No. 11 of this license and only after the RSO has determined that no other action, which is consistent with all license conditions and which can provide adequate or equivalent protection, is immediately apparent. The licensee shall notify the NRC before, if practicable, and in any case, immediately after taking such emergency action using the reporting procedure specified in 10 CFR 30.50(c).							
17.	7. A. The licensee shall submit a quarterly report to the Regional Administrator, U.S. Nuclear Regulatory Commission, Region I, ATTN: Division of Nuclear Materials Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406; identifying temporary job site locations and summarizing the activitie which took place at each site within thirty (30) days after each calendar quarter.							
	B. At the completion of activities at each job site location, the licensee shall notify the Regional Administrator, U.S. Nuclear Regulatory Commission, Region I, ATTN: Division of Nuclear Material Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406, of the temporary job site status and the disposition of the licensed material.							
18.	8. Pursuant to the provisions of 10 CFR 30.35(g), 40.36(f) and/or 70.25(g), the licensee shall maintain records of information important to safe and effective decommissioning at each temporary job site. At the completion of activities at a temporary job site, the licensee shall transfer these records to the sustomer for retention until the site is released for unrestricted use.							
19.	9. Pursuant to 10 CFR 30.11, 40.14, 70.14 and License Condition No. 10., the licensee is exempted from the requirements of 10 CFR 30.35, 40.36, and 70.25 to establish decommissioning financial assurance.							

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20.	0. Notwithstanding the requirements of 10 CFR 30.32(i), 4031(j), and 70.22(i), the licensee is not required t establish an emergency plan for responding to a release of radioactive materials. Before taking possession of licensed material at a temporary job site in quantities requiring an emergency plan the licensee shall either:							ed to						
	A.	Obtain v by these	written NRC e regulation	approval s, or	of its eva	aluation d	emons	trating that a	an emerg	jency pl	lan is	not i	requi	red
	B.	Submit v Conditio existing	written conf on No. 10. E emergency	irmation to 5., that lice plan app	o the Reg ensee per roved by	gional Adr rsonnel ha the NRC	ministra ave be or an <i>i</i>	ator, Region en trained a Agreement S	I, at the nd will fo State for t	address llow the the tem	s spe e pro\ pora	ecifiec /ision ry job	l in s of site	an
21.	21. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.							ne sed ntory te of						
22.	2. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.							d						
23.	<ol> <li>The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."</li> </ol>													
24.	4. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six more or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.					onths y								
	В.	Notwiths particles	standing Pa s shall be te	ragraph A sted for le	A of this C eakage ar	Condition, nd/or cont	sealeo tamina	d sources de tion at interv	esigned to als not to	o prima o excee	rily e d 3 r	mit al nonth	pha is.	
	C.	C. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.						the ssion er, a sults						

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	D.	Sealed gas; or t	sources need not be tested if they contain only the half-life of the isotope is 30 days or less; o	y hydrogen-3; or they contain only a radioactive or they contain not more than 100 microcuries o	∋ of
	E.	Sealed are rem the requ stored for	sources need not be tested if they are in stora loved from storage for use or transferred to an uired leak test interval, they shall be tested bef or a period of more than 10 years without bein	age and are not being used; however, when the other person and have not been tested within fore use or transfer. No sealed source shall be ng tested for leakage and/or contamination.	y
	F.	The leal radioact (185 be Regulat immedia Commis	k test shall be capable of detecting the presen tive material on the test sample. If the test rev cquerels) or more of removable contamination tory Commission in accordance with 10 CFR 3 ately from service and decontaminated, repaire ssion regulations.	the of 0.005 microcurie (185 becquerels) of veals the presence of 0.005 microcurie $n$ , a report shall be filed with the U.S. Nuclear $30.50(c)(2)$ , and the source shall be removed ed, or disposed of in accordance with	
	G.	Tests fo perform Commis	or leakage and/or contamination, including leak ed by the licensee or by other persons specific ssion or an Agreement State to perform such s	k test sample collection and analysis, shall be cally licensed by the U.S. Nuclear Regulatory services.	
25.	H. The lice any the Exa corr mod lice rest Red	Records licensee nse amer changes licensee amples of responde del proce nsee's we trictions s quiremen	s of leak test results shall be kept in units of m e's Safety Review Board may make minor char indment provided that: the changes are not pol s made are in compliance with applicable regu retains a record of each change until the licen f permissible changes include: editing of proce ence requirements; updating of names, addres edures published in NRC Regulatory Guides; a ork force. Changes in possession limits stated stated in the license conditions or requests for ts require an application and prior issuance of	icrocuries and shall be maintained for 5 years. nges to the Radiation Safety Program without tentially important to safety, it is assured that lations and the provisions of the license, and use is amended, renewed or terminated. edures for clarity and conformance with local ases, telephone numbers, etc.; adoption of and reassignment of specific tasks among the d in the license; special authorizations or deviation from Regulatory or License a license amendment.	

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26. Exact and the model of the	Accept as sp coordance by enclosu e statemer ore restrict Applicat Letter d Letter d Letter d	becifically provided otherwise in the with the statements, representation res, listed below. The U.S. Nucleants, representations, and proceduative than the regulations. tion dated January 5, 2000 (ADAM ated July 14, 2000 (ML003733146 ated October 5, 2005 (ML052910) ated November 4, 2005 (ML05312)	his license, to ar Regulato res in the lice AS Accession 147) 20094)	he licensee shall conduct its program in commission's regulations shall govern unless ensee's application and correspondence are				
			For the U.	S. Nuclear Regulatory Commission				
Date _	July	<sup>,</sup> 18, 2006	Or By	Original signed by Sattar Lodhi, Ph.D.				
			Sa Ma Div Re Kir	ttar Lodhi, Ph.D. Iterials Security and Industrial Branch vision of Nuclear Materials Safety gion I Ig of Prussia, Pennsylvania 19406				