NRC FORM 374	PAGE1_OF3_PAGES Amendment No. 36			
MATERIALS LICENSE Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified helow				
Licensee	In accordance with letter dated			
	February 26, 2009,			
1. Ashland Inc.	3. License number 24-03060-01 is amended in its			
Ashland Hercules Water Technologies Division	entirety to read as follows:			
2. 11083 Highway D	4. Expiration date September 30, 2010			
Louisiana, MO 63353	5. Docket No. 030-05086			
	Reference No.			
 6. Byproduct, source, and/or special nuclear material 7. Chemical and/or physical form nuclear material 8. Maximum amount that licensee may possess at any one time under this license 				
A. Cesium-137 A. Sealed sour either with I CFR 32.210 Agreement incorporate compatible as specified license.	rces registered NRC under 10 0 or with an State and ed in a gauging deviceA.No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State. Total possession limit of 800 millicuries.			
 Authorized Use: A. For use in fixed gauging devices manufactured by Ohmart/Vega Corp. Models SH-F1A, SHRM-PA, SHLG-1, SHLG-2, SHLD-1 and Amersham (Kay Ray) Model 7062B. 				
CONDITIONS				
 Licensed material shall be used only at the licensee's facilities located at 11083 Highway D, Louisiana, Missouri. 				
11. Licensed material shall be used by, or under the supervision of individuals who have received the training described in application dated August 22, 2000. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.				
12. A. The Radiation Safety Officer for the activities authorized by this license is Minh Hoac.				
B. The Alternate Radiation Safety Officer for the activities authorized by this license is Tony McCallister.				

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			License Number 24-03060-01
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		SUPPLEMENTARY SHEET	Amondmont No. 36
			Amendment No. 50
13.	A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State.		ntamination at intervals not to exceed the ed by the U.S. Nuclear Regulatory Commission
	B.	In the absence of a certificate from a transferor indication intervals specified in the certificate of registration issuunder 10 CFR 32.210 or by an Agreement State, prior another person shall not be put into use until tested at	ting that a leak test has been made within the ed by the U.S. Nuclear Regulatory Commission r to the transfer, a sealed source received from nd the test results received.
	 C. Sealed sources need not be tested if they are in storage and are not being used. However, when the are removed from storage for use or transferred 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination. D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. 		
			ce of 0.005 microcurie (185 becquerels) of eals the presence of 0.005 microcurie (185 port shall be filed with the U.S. Nuclear 0.50(c)(2), and the source shall be removed ed, or disposed of in accordance with
	E. The licensee is authorized to collect leak test samples for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.		
	F.	Records of leak test results shall be kept in units of mi	crocuries and shall be maintained for 3 years.
14.	 Sealed sources containing licensed material shall not be opened or removed from the gauges by the licensee. 		
15.	5. The following services shall not be performed by the licensee: installation, initial radiation surveys, relocation, removal from service, dismantling, alignment, replacement, disposal of the sealed source and non-routine maintenance or repair of components related to the radiological safety of the gauge (i.e., the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, shielding). These services shall be performed only by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.		
16.	The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sealed 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.		
17.	Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open.		

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	FU.	(M 3/4A 0.5. NOCEAN REDUCTION	License Number 24-03060-01
		MATERIALS LICENSE	Docket or Reference Number 030-05086
		JUFFLEMENTARY UNLE.	Amendment No. 36
	Thi Re	is survey shall be performed only by persons authorized gulatory Commission or an Agreement State.	to perform such services by the U.S.
18.	The terr are	 licensee shall operate each device containing licensee nperature and environmental limits such that the shieldi not compromised. 	d material within the manufacturer's specified ng and shutter mechanism of the source holder
19.	9. The licensee shall assure that the shutter mechanism of each device 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.		
20	The licensee shall perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20.		
21.	The eac	 licensee shall implement and maintain procedures for ch manufacturer's or distributor's written recommendatic 	routine maintenance of gauges according to ons and instructions.
22.	. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."		
23.	3. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.		
	A.	Application dated August 22, 2000, (excluding referen	ice to letter dated May 14, 1979);
	B.	Letters dated September 1, 2000, October 31, 2001, A attachment), February 8, 2008 (with attachments), Jur 2009 ; and	August 22, 2006, October 4, 2006 (with ne 19, 2008, November 25, 2008, February 26,
	C.	Facsimile letter dated October 30, 2008.	
		FUR THE U	J.S. NUCLEAR REGULATORY COMMISSION
Date	;	MAR 2 5 2009 By	ren f. Huster
		Materia Region	Is Licensing Branch