NRC FORM 374 U.S. NUCLEAR REGULAT	ORY COMMISSION PAGE1_OF _4_PAGES Amendment No. 12					
MATERIALS LICENSE						
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 hereit and the specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules.						
PC 02/20	3/3/69					
Licensee	In accordance with application dated					
	September 24, 2004,					
1. W. R. Grace & Co.	3. License number 13-11504-02 is renewed in					
	its entirety to read as follows:					
2. 5215 Kennedy Avenue	4. Expiration date February 28, 2015					
East Chicago, IN 46312	E. Pocket No. 030-14415					
EAN	Reference No.					
<ul> <li>6. Byproduct, source, and/or special nuclear material</li> <li>A. Cesium-137</li> <li>B. Cesium-137</li> <li>B. Cesium-137</li> <li>Chemical and/or photon special for the special source, and for the special source, an</li></ul>	<ul> <li>A. No single source to exceed</li> <li>C. under the maximum activity</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the certificate of registration issued by NRC</li> <li>Decified in the</li></ul>					
CONDITIONS						
10. Licensed material shall be used only at the licensee Chicago, Indiana.	e's facilities located at 5215 Kennedy Avenue, East					
11. Licensed material shall be used by, or under the supervision of Martin W. Bourquin, Susan Kolby, Ken Jazyk and/or Maury Govert.						

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12.	A. The Radiation Safety Officer (RSO) for this license is	Martin W. Bourquin.					
	B. Before assuming the duties and responsibilities as Rassuccessfully completed one of the training courses de NUREG-1556, Volume 4, dated October 1998.	SO for this license, future RSOs shall have escribed in Criteria in Section 8.7.1 of					
13.	A. Sealed sources shall be tested for leakage and/or co or at such other intervals as specified by the certifica	ntamination at intervals not to exceed 6 months te of registration referred to in 10 CFR 32.210.					
	B. In the absence of a certificate from a trapsferer reduce 6 months prior to the transfer, a scaled source received until tested.	sting that a leak test has been made within fee from another person shall not be put into use					
	D. Sealed sources need not be leak tested if they are in when they are removed from storage for use or trans tested within the required leak estimaterval, they shall source shall be stored for a plus source than 10 y contamination.	storage, and are not being used. However, iferred to bother person, and have not been I be to before use or transfer. No sealed to be the being tested for leakage and/or O					
	E. The leak test shall be capable of the test sample. If the test results on the test sample. If the test results are filed to the test sample with 10 CFR 30.50(b)(2), and the output shall be the decontaminated, repaired, or the test results are shall be filed within 5 days of the data the test results and shall specify the source involved, the test results, and	Appendix O of 10 CFR Part 20. The report of a corrective action taken.					
	F. Tests for leakage an/or contamination, initiate leaving persons specifically licensed by the U.S. Nuclear Reperform such services. The licensee is not authorized samples must be performed by persons specifically licenset to perform such services.	test sample collection shall be performed by gulatory Commission or an Agreement State to ed to perform the analysis. Analysis of leak test icensed by the Commission or an Agreement					
14.	Sealed sources containing licensed material shall not be by the licensee.	opened or sources removed from source holders					
15.	The licensee shall conduct a physical inventory every 6 m Nuclear Regulatory Commission, to account for all sealed possessed under the license.	nonths, or at other intervals approved by the U.S. I sources and/or devices received and					
16.	A. Each gauge shall be tested for the proper operation if any, at intervals not to exceed 6 months or at such registration issued by the U.S. Nuclear Regulatory C equivalent regulations of an Agreement State.	of the on-off mechanism (shutter) and indicator, longer intervals as specified in the certificate of commission pursuant to 10 CFR 32.210 or the					

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	B.	Notwithstanding the periodic on-off mechanism (shutt apply to gauges that are stored, not being used, and position. The gauges exempted from this periodic tes	ter) and indicator test, the requirement does not have the shutter lock mechanism in a locked st shall be tested before use.
17.	The relo non- seal shie Reg	following services shall not be performed by the licens cation, removal from service, dismantling, alignment, r -routine maintenance or repair of components related led source, the source holder, source drive mechanism elding). These services shall be performed only by per julatory Commission or an Agreement Spate to be for	see: installation, initial radiation surveys, replacement, disposal of the sealed source and to the radiological safety of the gauge (i.e., the n, on-off mechanism (shutter), shutter control, rsons specifically licensed by the U.S. Nuclear n such services
18.	The Nuc	licensee may initially mount a gauge if permitted by the second s	ne certificate of registration issued by the U.S. and under the following conditions:
	Α.	the gauge must be mounted in accordance with writte	en instructions provided by the manufacturer;
	B.	the gauge must be Hounted it was alson competible "Limitations and/of-Other Consistence of Dise" in the Nuclear Regulator Commission Agreement Sta	Conditions of Normal Use" and cate of registration issued by the U.S.
-	C.	the on-off mechanism (short may contact the otherwise fully shielded;	able, or the source must be
	D.	the gauge must be received the company to the	the was not damaged); and
	Ε.	the gauge must not require any modification second to	he proposed to cation.
	Mou rem spe ope	unting does not include electrical connection, activation ain fully shielded and the gauge may not be used unit cifically licensed by the U.S. Regulatory Commission of trations.	n opperation of the gauge. The source must it is installed and made operational by a person or an Agreement State to perform such
19.	Α.	The licensee may maintain, repair, or replace device radiological safety of the device containing byproduct for any portion of the body to come into contact with in accessible areas.	components that are not related to the t material and that do not result in the potential the primary beam or in increased radiation levels
	В.	The licensee may not maintain, repair, or replace any source, the source holder, source drive mechanism, shielding, or any other component related to the radie otherwise by specific condition of this license.	y of the following device components: the sealed on-off mechanism (shutter), shutter control, or ological safety of the device, except as provided

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20. 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. This survey shall be performed only by persons authorized to perform such services by the U.S. Regulatory Commission or an Agreement State.							
21. The licensee shall operate each device con temperature and environmental limits such are not compromised.	taining license that the shieldi	d material within the manuf ng and shutter mechanism	acture of the	er's : e so	spec urce	ified holder	
22. The licensee shall assure that the shorter during periods when a portion of an Individ licensee shall review and modify, as appro obtained to incorporate the device manufa	RREG mechanism of e ual's body may priate, its "lock- cturer's recomm	ach device is locked in the be subject to the direct rad out" procedures whenever hendations.	close iation a nev	d po bea v de	ositio am. vice	n The is	
23. Except for maintaining labeling as the pre- authorization from the U.S. Nuclear source, device or source device com- in the respective certificate of registration by an Agreement State	t by 10 CFR Pa tory Commissi of that would a sucception by	rt 25 21, the licensee sh the same making any chan description or speci mmission pursuant	all ob ges in ficatio to 10	otain n the ons a CFF	e sea as in R 32.	aled dicated .210 or	I
24. In addition to the possession line of item material to quantities below the second in decommissioning financial assuration		Shall in the positive for the positive for estable to the positive for estable to the positive for estable for est	ssess: lishin	ion d g	of lic	ensed	
25. The licensee is authorized to transport lice 71, "Packaging and Transportation of Rad	nsective Materia	actordance with the provi	sions	of 1	0 CI	FR Part	t
26. 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 U.S. 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 September 24, 2004	4.						
	FOR THE	U.S. NUCLEAR REGULAT	FORY	′ CO	MM	ISSION	Í
DateMAR 0 8 2005	By James James Materi Region	R. Mullauer, M.H.S. als Licensing Branch	<u> </u>				