## 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, 37, 39, 40, 70 and 71, 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 below.

## Licensee

- 1. BASF Colors and Effects USA, LLC
- 2. 1209 Orange Street · Wilmington, DE 19801

- dated November 27, 2019,
- 3. Licens 3. License number: 07-20696-017is amended in its entirety to read as follows:
- 4. Expiration Date: July 31, 2024
- 5. Docket No : 030-20734 Reference No.:

- Byproduct, source, and/or special nuclear material
- Cesium-137

- 7. Chemical and/or physical form
- A. Sealed Sources (3M Model 4D6L; 4D6P; 4F6S; 4F6ST Gamma Industries. Model VDHP; Isotope Products Laboratories, Model 225: HEG-060: HEG-1370 HEGL-60:

PHI Series capsule A3224: PO4 Series; QSA Global, Model CDC.700, CDC.711m. CDC.711M, CDC.800, CDC.93. CDC.PE2, CKC.PI, CKC.P4:

CDC.PE2; CKC.P6, CKC.P1)

- Maximum amount that licensee may possess at any one time under this license
- 1500 millicuries per source and 1500 millicuries total
- 9. Authorized use
- A. For use in Ronan Engineering Company Model SA-1 and GS-400 Series fixed gauging devices to perform level and density measurements.

## CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at 205 South James Street, Newport, Delaware.

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11.	ga	ted June 5, 2014, and have been desi	or under the supervision of, individuals of gnated in writing by the Radiation Safety the last use of licensed material by the	Officer. The licensee shall main	described in the application ntain records of individuals	
12.	Th	e Radiation Safety Officer (RSO) for the	nis license is Keith Mobley.			
13.	A.	registration issued by the U.S. Nucle	akage and/or contamination at intervals ar Regulatory Commission under 10 CF s shall be tested for leakage and/or con	R 32.210 or by an Agreement S	tate. In the absence of a	
	B.	registration issued by the U.S. Nucle	transferor indicating that a leak test has ar Regulatory Commission under 10 CF person shall not be put into use until tes	R 32.210 or by an Agreement S	tate prior to the transfer a	
	C.	or transferred to another person, and	they are in storage and are not being used have not been tested within the require tored for a period of more than 10 years	d leak test interval, they shall be	e tested before use or	
	D.	filed with the U.S. Nuclear Regulator	ecting the presence of 185 becquerels (0 nce of 185 becquerels (0.005 microcuries y Commission in accordance with 10 CF raminated, repaired, or disposed of in ac	s) or more of removable contam R 30.50(c)(2), and the source s	ination, a report shall be hall be removed	

E. Analysis of leak test samples and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is authorized to collect leak test samples but not perform

the analysis.

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F	. Records of leak test results shall be k	tept in units of microcuries and shall be in $\mathbb{R}^{\mathbb{R}}$	maintained for 3 years.	
14. S	ealed sources containing licensed mater	rial shall not be opened or sources		;
s	pecifically authorized.	That shall horbe opened of sources remo	yed from source holders by the I	icensee, except as
45 -				
15. II	5. 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 resolved and processed and 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 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.			
da				
16. A.	Fach gauge shall be tested for the ore	M. E. M.		•
	16. A. Each gauge shall be tested for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed months or at such longer intervals as specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or the equivalent regulations of an Agreement State.			
B.	Notwithstanding the periodic on off me			
υ.	not being used, and have the shutter l	echanism (shutter) and indicator test, the	e requirement does not apply to g	jauges that are stored,
not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic to before use. Records of test results shall be maintained for 3 years from the date of each test.				lodic test shall be tested
17. A.				
π. Α.	or Scott Powell, or or other individuals	elocation, removal from service, alignment who have completed the training specificated lives 5, 2014	nt, shall be performed only by Ma	ark Lobach, Keith Mobley,
	radiation calety) and the application (	daled June 5, 2014, or by persons speci	fically licensed by the U.S. Nucle	19, 2018 (UNSH-IH-P007, ear Regulatory
	Commission or an Agreement State to	perform such services.	•	
B.	The following services shall not be per	formed by the licensee: Installation, initi	al radiation curvous, releastion, r	ama a contra de la contra del contra de la contra del la contra de la contra del la cont
B. The following services shall not be performed by the licensee: Installation, initial radiation surveys, relocation, redismantling, alignment, replacement, disposal of the sealed sources, and non-routine maintenance or repair of the radiological safety of the gauge. These particles also be the radiological safety of the gauge. These particles also be the radiological safety of the gauge. These particles also be the radiological safety of the gauge.				
	the radiological safety of the gauge. The Regulatory Commission or an Agreem	riese services snall be performed only by	y persons specifically licensed by	the U.S. Nuclear
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18. The licensee may initially mount a gauge, if permitted by the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State, and under the following conditions:				
A. The gauge must be mounted in acc	A. The gauge must be mounted in accordance with written instructions provided by the manufacturer.			
B. The gauge must be mounted in a lo Use in the certificate of registration	ocation compatible with the Conditions of issued by the U.S. Nuclear Regulatory C	Normal Use and Limitations and/opmmission or an Agreement State	or Other Considerations of e.	
C. The on-off mechanism (shutter) mu	st be locked in the off position, if applicab	e, or the source must be otherwi	se fully shielded.	
	d conditions (e.g., the package was not d	amaged).		
	E. The gauge must not require any modification to fit in the proposed location.			
Mounting does not include electrical commay not be used until it is installed and Agreement State to perform such operations.	nnection activation, or operation of the gamade operational by a person specifically tions.	uge The source must remain ful licensed by the U.S. Nuclear Re	lly shielded, and the gauge egulatory Commission or an	
19. A. The licensee may maintain, repair, licensed material and that do not re increased radiation levels in access	sult in the potential for any portion of the l	t related to the radiological safety body to come into contact with the	y of the device containing e primary beam or result in	
drive mechanism, on-off mechanism	air, or replace any of the following device n (shutter), shutter control, shielding, or a se by specific condition of this license.	components: the sealed source, ny other component related to the	the source holder, source e radiological safety of the	

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20.	Prior to initial use and after installation, reshielding, the licensee shall assure that a and below the gauge with the shutter open Nuclear Regulatory Commission or an Ag	a radiological survey is performed to de en. This survey shall be performed only	ermine radiation levels in accessible a	areas around, above,
21.	The licensee shall operate each device climits such that the shielding and shutter	ontaining licensed material within the neethanism of the source holder are no	anufacturer's specified temperature a t compromised.	nd environmental
22.	The licensee shall assure that the shutter periods when a portion of an individual's appropriate, it's "lock-out" procedures when a portion of an individual's appropriate, it's "lock-out" procedures when a portion of an individual's appropriate, it's "lock-out" procedures when a portion of an individual's appropriate, it's "lock-out" procedures when a portion of an individual's appropriate, it's "lock-out" procedures when a portion of an individual's appropriate, it's "lock-out" procedures when a portion of an individual's appropriate, it's "lock-out" procedures when a portion of an individual's appropriate, it's "lock-out" procedures when a portion of an individual is appropriate, it's "lock-out" procedures when a portion of an individual is appropriate, it's "lock-out" procedures when a portion of an individual is appropriate, it's "lock-out" procedures when a portion of an individual is appropriate, it's "lock-out" procedures when a portion of an individual is appropriate, it's "lock-out" procedures when a portion of an individual is appropriate, it's "lock-out" procedures when a portion of an individual is appropriate, it's "lock-out" procedures when a portion of an individual is appropriate.	body may be subject to the direct radia	ion beam. The licensee shall review a	and modify, as

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representations, and procedures contain those procedures that are required to be regulations shall govern unless the state restrictive than the regulations.  A. Application dated June 5, 2014 (MIB. Letter dated November 19, 2018 (MIB	1E18347B439)	losures, listed below.  This licens ations.  The U.S. Nuclear Regula	se condition applies only to atory Commission's discorrespondence are more	
Date: December 30, 2019	By:	/11/11/1 /10/11/0 d		

Michael Reichard Region 1