PAGE <u>1</u> OF <u>5</u> PAGES NRC FORM 374 **U.S. NUCLEAR REGULATORY COMMISSION** Amendment No. 10 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, 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 below. Licensee In accordance with letter dated March 26, 2015, 1. Plastatech Engineering, Ltd. 3. License number 21-26714-01 is amended in its entirety to read as follows: 2. 725 Morley Drive 4. Expiration date January 31, 2022 Saginaw, MI 48601 5. Docket No. 030-34117 Reference No. 6. Byproduct, source, and/or 7. Chemical and/or physical form 8. Maximum amount that licensee may possess at any one time under this license special nuclear material A. Krypton-85 A. Sealed sources registered either A. No single source to exceed the with NRC under 10 CFR 32.210 maximum activity specified in or with an Agreement State and the certificate of registration incorporated in a compatible issued by NRC or an Agreement gauging device as specified in State. Total possession limit of Item 9 of this license 300 millicuries B. Strontium-90 B. Sealed sources registered either B. No single source to exceed the with NRC under 10 CFR 32.210 maximum activity specified in or with an Agreement State and the certificate of registration incorporated in a compatible issued by NRC or an Agreement gauging device as specified in State. Total possession limit of Item 9 of this license 300 millicuries 9. Authorized use: A. To be used in Betacontrol of America Model MK 1.0 source holder for thickness measurements. B. To be used in Eckert & Ziegler Model SIF.D1 beta source to be used in gauging devices for thickness and/or fill level measurements. CONDITIONS A. Licensed material listed in Subitem 6.A. shall be used only at the licensee's facilities located at 10. Building 825 Morley Drive, Saginaw, Michigan, located at the licensee's contiguous campus at 725 Morley Drive, Saginaw, Michigan. B. Licensed material listed in Subitem 6.B. shall be used only at the licensee's facilities located at Building 831 Morley Drive, Saginaw, Michigan, located at the licensee's contiguous campus at 725 Morley Drive, Saginaw, Michigan.

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11.	Α.	The Radiation Safety Officer (RSO) for this license is	Keith A. Goodale.				
	В.	The Alternate Radiation Safety Officer (ARSO) for this license is Michael Matthews.					
12.	Α.	Licensed material shall be used by, or under the supervision of, Crint A. LaBrosse, Michael Matthews, or Keith A. Goodale.					
	В.	Licensed material may also be used by, or under the supervision of individuals who have successfully completed the training described in section entitled, "Authorized Users" in NUREG-1556, Vol. 4, dated October 1998. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.					
13.	Α.	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 under equivalent regulations of an Agreement State.					
	B .	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.					
	C.	Sealed sources need not be tested if they contain only a radioactive gas; or they contain not more than 100 microcuries of beta and/or gamma emitting material.					
	D.	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.					
·	E.	The leak test shall be capable of detecting the presen- radioactive material on the test sample. If the test rev (185 becquerels) or more of removable contamination Regulatory Commission in accordance with 10 CFR 3 immediately from service and decontaminated, repaire Commission regulations.	ce of 0.005 microcurie (185 becquerels) of eals the presence of 0.005 microcurie a, a report 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				
	F.	Tests for leakage and/or contamination, including leak performed by persons specifically licensed by the U.S Agreement State to perform such services. The licens Analysis of leak test samples must be performed by per or an Agreement State to perform such services.	t test sample collection and analysis, shall be . Nuclear Regulatory Commission or an see is not authorized to perform the analysis. ersons specifically licensed by the Commission				
	G.	The licensee is authorized to collect leak test samples the Commission or an Agreement State to perform suc	for analysis by persons specifically licensed by ch services.				
	H.	Records of leak test results shall be kept in units of mi	icrocuries and shall be maintained for three				

years.

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14. Seale holde	d sources containing licensed material shall not be o s by the licensee, except as specifically authorized.	pened or sources re	moved	fron	n soi	urce	

- 15. The licensee shall conduct a physical inventory every six months, or at other interval 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 five 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.
- 16. 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.
- 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. This survey shall be performed only by persons authorized to perform such services by the U.S. Nuclear Regulatory Commission or an Agreement State.
- 18. The licensee shall operate each gauge within the manufacturer's specified temperature and/or environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
- 19. The licensee shall assure that the shutter mechanism 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 gauge is obtained to incorporate the device manufacturer's recommendations.
- 20. 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 6 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 mechanism (shutter) and indicator test, the requirement does not apply to gauges that are stored, not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic test shall be tested before use.
- 21. The licensee shall develop, implement and maintain operating and emergency procedures that meet the criteria in the section entitled "Radiation Safety Program Operating and Emergency Procedures," in NUREG-1556, Vol. 4, dated October 1998.

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22.	Except for authorization source, der indicated in 32.210 or b	maintaining labeling as required by 10 CFR Pa on from the U.S. Nuclear Regulatory Commiss vice or source-device combination that would a n the respective certificate of registration issue by an Agreement State.	art 20, or 71, the licensee shall obtain ion before making any changes in the sealed alter the description or specifications as d either by the Commission pursuant to 10 CFR			
23.	The license Nuclear Re	ee may initially mount a gauge if permitted by t egulatory Commission or an Agreement State a	he certificate of registration issued by the U.S. and under the following conditions:			
	A. the gau	uge must be mounted in accordance with writte	en instructions provided by the manufacturer;			
	B. the gau "Limita Nuclea	uge must be mounted in a location compatible tions and/or Other Considerations of Use" in th r Regulatory Commission or an Agreement Sta	with the "Conditions of Normal Use" and ne certificate of registration issued by the U.S. ate;			
	C. the on otherwi	off mechanism (shutter) must be locked in the ise fully shielded;	off position, if applicable, or the source must be			
	D. the gau	uge must be received in good condition (i.e., pa	ackage was not damaged); and			
	E. the gau	uge must not require any modification to fit in th	ne proposed location.			
	Mounting of remain fully person spe operations	does not include electrical connection, activation y shielded and the gauge may not be used unt ecifically licensed by the U.S. Regulatory Comr	n or operation of the gauge. The source must il it is installed and made operational by a nission or an Agreement State to perform such			
			같은 방법에서 전체가 가지 않는 것이 있다. 가지 않는 것이 있는 것이 없는 것이 없 것이 없는 것이 없 않는 것이 없는 것이 없다. 것이 없는 것이 없 것이 없는 것이 없 않이			
24.	A. The licensee may maintain, repair, or replace device components that are not related to the radiological safety of the device containing byproduct material and that do not result in the potential for any portion of the body to come into contact with the primary beam or in increased radiation levels in accessible areas.					
	B. The lice source shieldir otherwi	ensee may not maintain, repair, or replace any , the source holder, source drive mechanism, on ng, or any other component related to the radio ise by specific condition of this license.	of the following device components: the sealed on off mechanism (shutter), shutter control, or plogical safety of the device, except as provided			
25.	The license 10 CFR Pa	ee is authorized to transport licensed material i art 71, "Packaging and Transportation of Radio	n accordance with the provisions of active Material."			

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26.	6. 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 unles the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.						
	A. Applicat Officers	ions dated July 6, 2011 (with attachments, ex in Item 7.1), and August 18, 2014; and	cluding request to self-appoint Radiation Safe	ty			
	B. Letters of to Memo	dated November 21, 2011 (with attachments) prandum of Understanding/Delegation of Auth	, December 21, 2011, November 7, 2014 (limit hority), and March 26, 2015 .	ed			
		가 있는 것 같은 것 같					
· .		FOR THE	U.S. NUCLEAR REGULATORY COMMISSIO	N			
Dat	e JUN 1	6 2015 _{Bv}	ara a. Forster				
201		Sar	ra A. Forster, M.S.				
		Ma Reg	terials Licensing Branch gion III				

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