

GENVAC Aerospace Corporation  
110 Alpha Park  
Cleveland, OH 44143  
January 17, 2019

U. S. Nuclear Regulatory Commission  
Materials Safety Licensing Branch  
Division of Materials Safety, Security, State, and Tribal Programs  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555-000

ATTN: Ms. Shirley S. Xu

SUBJECT: GENVAC AEROSPACE, REQUEST FOR ADDITIONAL INFORMATION  
FOR A NEW EXEMPT DISTRIBUTION LICENSE

REF: Letter from Ms. Xu dated 18 December 2018

Dear Ms. Xu:

The following is the additional information that you requested, in response to your letter referenced above.

1. *“Provide information on the method of containment or bonding of the byproduct material in the product.”*

The gas carrying the Kr85 contains 5 mCi / liter (5 uCi/ml) of Kr85. The light bulb containing the Kr85 gas has an internal volume of 1 ml and is filled with 60 torr of gas containing Kr85. It is filled with the gas, sealed, and tested to verify that the light bulb is operating properly.

If a significant amount of the gas has leaked out of the light bulb, the bulb will not operate properly and will be scrapped.

The quantity of Kr85 in a light bulb is too small to pose a significant radiation hazard to anyone, in the unlikely event that it leaks out slowly enough to be undetected by the operational test of the light bulb.

2. *“Provide the proposed method of labeling, or marking each unit, and its container with the identification of the manufacturer, or initial transferor, of the product and the byproduct material in the product.”*

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A monogram is placed on each lamp, as pictured in attachment 1 and attachment 2. There is also a label on the outside of the lamp package, as shown in attachment 3. In attachment 4, we have included a larger copy of the monogram that appears on each lamp.

Please do not hesitate to contact us should you require further information.

Sincerely,

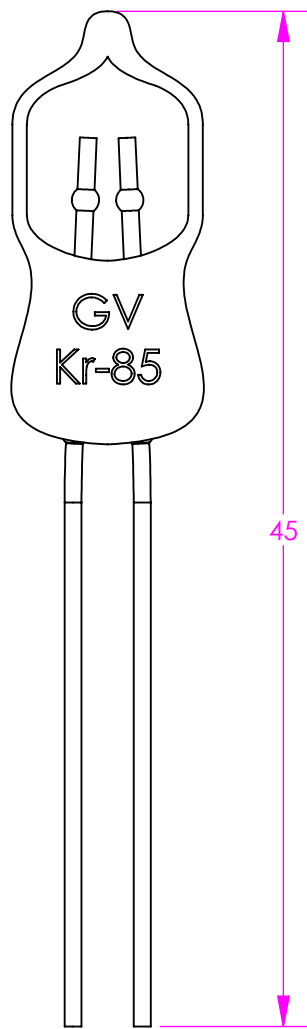
A handwritten signature in black ink, reading "Abbas Lamouri". The signature is written in a cursive style with a large, stylized 'A' and 'L'.

Abbas Lamouri  
Technology Officer



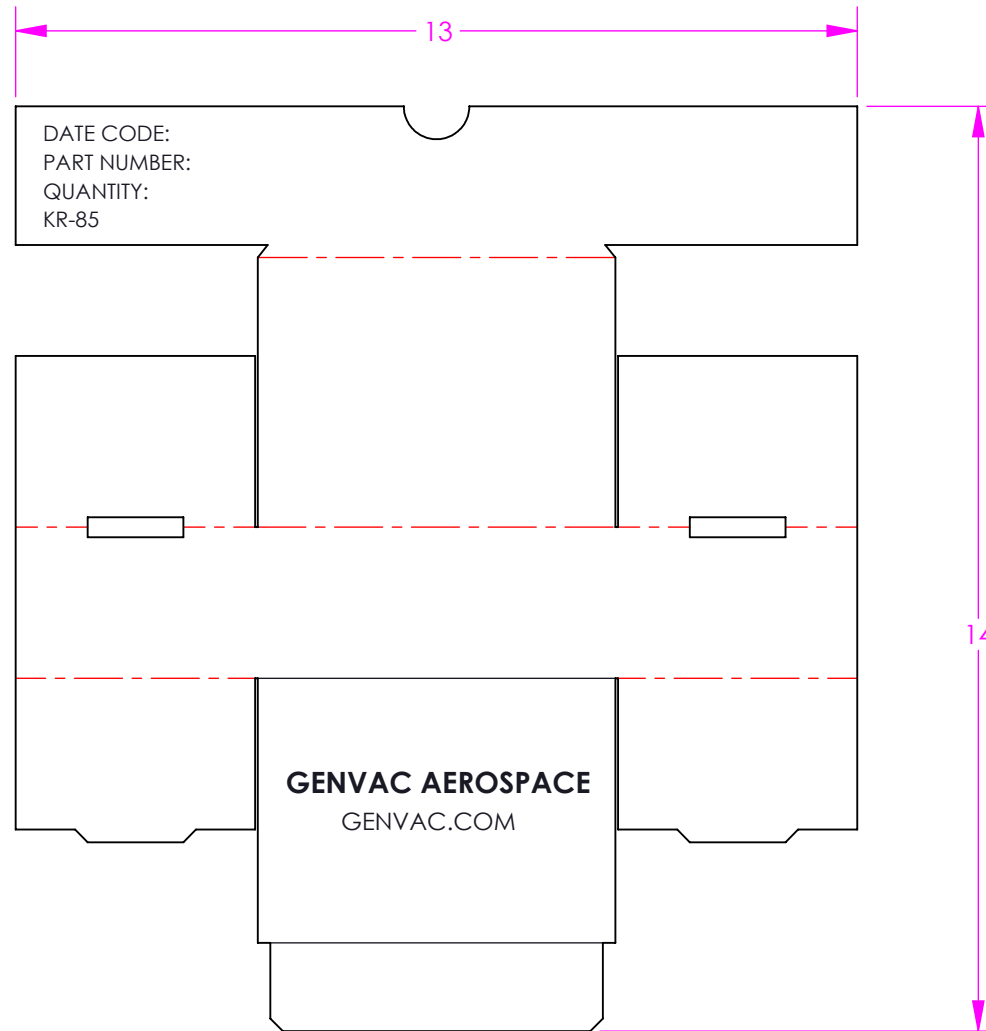
GV  
Kr-85

A high-vacuum tube, likely a Geiger-Müller tube, with a glass envelope and two metal leads. The tube is filled with Kr-85 gas. The text "GV" and "Kr-85" is printed on the glass envelope. The tube is shown against a dark background.



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MM	QUANTITY:	PROJECT:		TITLE:			
	ENGINEER A. LAMOURI	DATE: 1/16/2019					
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# CARDBOARD BOX UNFOLDED HOLDS 100 UV LIGHT SOURCES



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE  $\pm 0.003$  AND SURFACE FINISH IS 125.

QUANTITY:

PROJECT:

PROJECTION:

TITLE:

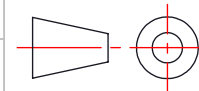
GENVAC

TECHNOLOGY FOR  
AN ADVANCED PLANET

AEROSPACE INC.

ENGINEER  
A. LAMOURI

DATE:  
1/17/2019



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VENDOR:

MATERIAL:  
CARDBORAD

SCALE: 1:3

DRAWING SIZE:

**A**

DRAWING NO:  
UV Source Carton

REV.:



NOT TO SCALE

GV  
Kr-85

4 mm MAX

5 mm MAX

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE  $\pm 0.003$  AND SURFACE FINISH IS 125.

QUANTITY:

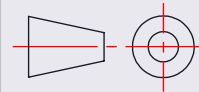
PROJECT:

PROJECTION:

TITLE:

ENGINEER  
A. LAMOURI

DATE:  
11/8/2018



VENDOR:

MATERIAL:

SCALE: 1:4

DRAWING SIZE:

**A**

DRAWING NO:  
**Monogram**

REV.:

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