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MECHANISMS BRANCH

1955 DEC 25 AM 9 20

Nuclear Products  
21 December 1965

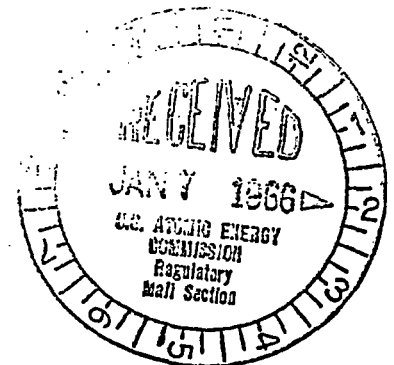
Ref: AMXDO-DCE

Duane Voeller  
Engineering Technician  
Mechanisms Branch 650  
U.S. Army Materiel Command  
Harry Diamond Laboratories  
Washington, D. C. 20438

Dear Mr. Voeller:

Thank you for your letter of 6 December 1965. We will be very happy to manufacture an experimental self-luminous source in line with your drawing B-11006314. This source will be fabricated from lucite and the luminous material ( $Pm^{147}$ ) will be sealed in the holes by means of an epoxy sealant. This method of construction is basically identical to our LC2 series source which is on file with the AEC. We will not be able to provide you with brightness as high as those indicated in your letter. I would like to suggest the following alternate arrangement with the number of millicurie of  $Pm^{147}$  required:

<u>Hole Number</u>	<u>Microlamberts</u>	<u>mc <math>Pm^{147}</math></u>
1	200	6
2	200	6
3	500	17
4	500	17
5	750	27
6	750	27
7	750	27
8	1000	37
9	1000	37
10	1000	37
11	1500	63
12	1500	63
13	1500	63



B-34

Duane Voeller

-2-

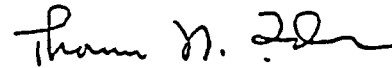
21 Dec 65

This is a total of about 427 millicuries of  $Pm^{147}$  divided up among the 13 spots. Each of these spots comprises an individual sealed source. The spots will be numbered and the brightness of each spot will be determined and provided to you. We will not be able to guarantee any brightness levels before construction but will provide this to you on a best effort basis and will advise you as to the brightness of each individual spot.

The price for a single device of this type will be \$390 FOB, St. Paul, Minnesota. Our terms are net 30 days and this letter comprises our quote No. 5579.

I hope that these arrangements are satisfactory and that we may receive a purchase order from you very soon. If you have any questions on this, please feel free to contact me at any time.

Very truly yours,



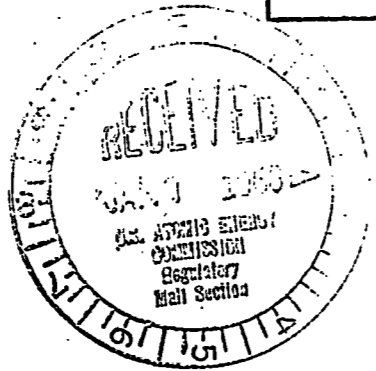
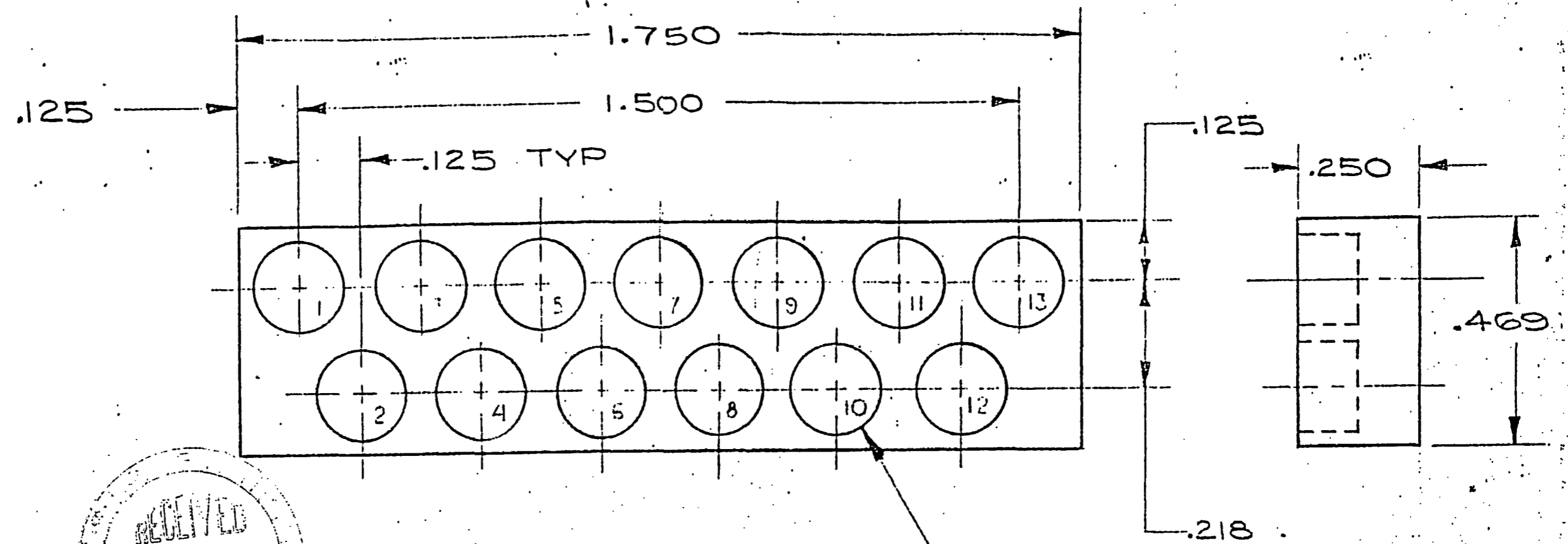
T. N. Lahr  
Supervisor  
Radiochemical Products  
TCAAP-575

from *ag*

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Sketch # 1

REVISIONS		DATE	APPROVAL
SYM	DESCRIPTION		



.188 DIA  
.125 DEEP  
13 HOLES  
EQUALLY SPACED

NOTES  
1 MIL-A-2550 AND MIL-STD-12 APPLY  
2 MATERIAL: PLASTIC SHEET (LUCITE, CLEAR)

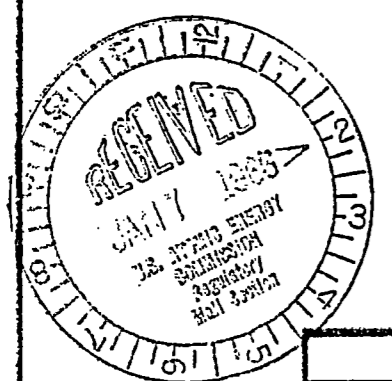
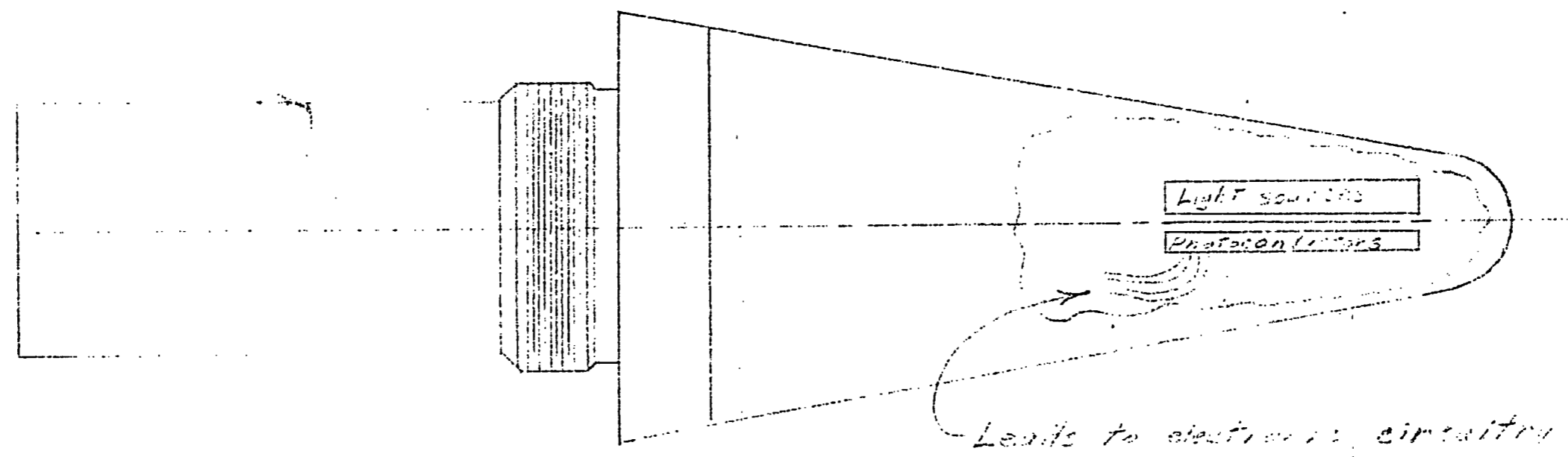
PART NO. CODE IDENT. NO. 19202

SEE ENGINEERING RECORDS		PHYSICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED			ORIGINAL DATE OF DRAWING 1 DEC 65		HOLDER, LIGHT SOURCE	U.S. ARMY MATERIEL COMMAND HARRY DIAMOND LABORATORIES WASHINGTON, D.C. 20438	
NEXT ASSY	USED ON		YP	DIMENSIONS ARE IN INCHES			DRAFTSMAN RSM		CHECKER	DWG SIZE B
APPLICATION		TS	TOLERANCES ON:			TRACER	CHECKER		SHEET	
DO NOT	APPLY PART NO.	EL 2	FRACTIONS	DECIMALS	ANGLES	ENGR	ENGR			SCALE 4-1
NO	AS SPECIFIED	RA	±.005			SUBMITTED			UNIT WT	
		BH	MATERIAL			APPROVED BY ORDER OF THE				
		RH	SEE NOTE 2			CO, ANC				
			HEAT TREATMENT			ANC				
			FINAL PROTECTIVE FINISH			ANC				

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*Sketch # 2*

SYM	DESCRIPTION	DATE	APPROVAL
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PART NO.

CODE IDENT. NO.

SEE ENGINEERING RECORDS		PHYSICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED:		ORIGINAL DATE OF DRAWING		<i>Outline of fuze assembly showing position of radio-active light sources.</i>	U.S. ARMY MATERIEL COMMAND HARRY DIAMOND LABORATORIES WASHINGTON, D.C. 20438		
		YP		DIMENSIONS ARE IN INCHES		DRAFTSMAN	CHECKER				
NEXT ASSY		TS		TOLERANCES ON:		TRACER	CHECKER		Dwg Mkx <b>B</b>	SHEET	OF
USED ON		EL 2		FRACTIONS	DECIMALS	ENGR	ENGR				
APPLICATION		RA		ANGLES		SUBMITTED			SCALE	UNIT WT	
DO NOT DO	APPLY PART NO. AS SPECIFIED	BH		MATERIAL		APPROVED BY ORDER OF THE CO, AMC					
		RH		HEAT TREATMENT							
				FINAL PROTECTIVE FINISH							

*Incl 3*