

CMLRD-11D-HP

23 July 1962

SUBJECT: Suspected Overexposure of Individual to Radiation

THRU: Commanding Officer  
U. S. Army Chemical Corps Materiel Command  
ATTN: CMLMC-RA  
Army Chemical Center, Maryland

TO: Director of Compliance Division  
Region I  
U. S. Atomic Energy Commission  
376 Hudson Street  
New York 14, New York

## 1. References:

- a. Telephone call 16 July 1962 between Mr. Roeder, your office and Mr. Darwin Taras of the Army Chemical Center.
- b. Investigation conducted by Mr. Brown, your office, at the Army Chemical Center on the 18th and 19th of July 1962.
- c. Telephone call, 20 July 1962, between Mr. Roeder, your office and Mr. Wright, Health Physics Office, U. S. Army Chemical Corps Nuclear Defense Laboratory, Army Chemical Center, Maryland.

2. The following information is submitted concerning the possible overexposure of Sp4 Harold Stephens to an extremely high neutron dose:

a. A complete investigation has been conducted by the Health Physics Office, U. S. Army Chemical Corps Nuclear Defense Laboratory. We concluded that Sp4 Stephens did not receive the overexposure indicated on film #006w since:

- (1) He does not recall being near any source of neutrons for the period in question.
- (2) He exhibited no symptoms of radiation sickness.

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Record Group 112

Accession #: 67A-4511

Box #: 43

File: Over exposure Second U.S. Army

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(3) None of the articles worn by him, such as jewelry, belt buckle, keys etc. show readings above normal background.

(4) A sample of his blood counted in 256 channel gamma analyzer showed negligible activity.

(5) His blood counts for 16, 17 and 18 July 62 were normal.

b. The exposed film (006w) was forwarded to Lexington Signal Depot on the 6th of July 62 along with 26 neutron films used for an environmental survey of the Nuclear Defense Laboratory positive ion accelerator (750 KV Cockcroft-Walton). The Lexington Signal Depot report (Incl 1) shows that none of the environmental films exhibited significant exposure doses. An inaccuracy must exist, since film #150 (see Incl 2) should have shown an extremely high neutron dose from exposure in the accelerator room for the period 21 June - 5 July 62. We believe that film #006w was worn by Sp4 Stephens for the period 7 - 20 June 62 and was turned over to the Dosimetry Section of the Health Physics Office, 21 June 1962. The film was then removed from the holder and inadvertently placed with the environmental film to be exposed for the period 21 June - 5 July 62. Apparently film #006w was then placed in holder #150 and subsequently exposed in the accelerator room to 14 mev neutrons plus gamma radiation of undetermined energy and intensity.

FOR THE COMMANDER:

3 Incls

1. Photodosimetry Report  
(3 pages)
2. Film Badge Stations
3. Neutron Badge Stations

EARL G. WRIGHT  
Chief, Health Physics Office

WRIGHT/ner/5110

## DISTRIBUTION:

- Orig & 2 cys - fwd
- 1 cy - MATCOM
- ✓ 1 cy - Surgeon General
- 1 cy - Post Surgeon
- 1 cy - Mr. Mitchell
- 1 cy - Health Physics Office
- 1 cy - MR
- 1 cy - Reading

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EXPOSURE REPORT  
EXPOSURE TO IONIZING RADIATION

DOSE CONTROL NO.

TO BE FILLED IN BY USING INSTALLATION

TO BE FILLED IN BY PROCESSOR

1. NAME & ADDRESS <b>Health Physics Section U.S. Army Cold War Lab Army Chemical Center, Maryland Environmental Monitoring Film</b>		2. FILM TYPE	7. EMULSION NO.	8. DATE SHIPPED
2. DATE <b>6 July 62</b>		9. DEV	10. NO. SHIPPED	11. DATE RET
3. FROM: <b>58 June - 5 July 62</b>		12. READ	13. NO. RET	14. DATE REPORT MAILED <b>17 Jul 62</b>

4. PERIOD LETTER <b>Y</b>	5. INSTALLATION SYMBOL <b>E</b>	15. EVAL	16. NO. USED
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17. CONTROL FILM		18. TYPED	19. DEWS SER NO.
NO.	DENSITY		

NAME, RANK AND SERIAL NUMBER	FILM NUMBER	TYPE & ENERGY OF RADIATION	DOSE RECEIVED REM	FILTERS			
				1	2	3	4
<b>Environmental Monitoring Film</b>	<b>147</b>	<b>Accelerator max. 14 mev</b>	<b>0</b>				
"	148	"	0				
"	149	"	0				
"	150	"	0				
"	151	"	0				
"	152	"	.030				
"	153	"	.030				
"	154	"	.054				
"	155	"	0				
"	156	"	.126				
"	157	"	0				
"	158	"	0				
"	159	"	0				
"	160	"	0				
"	161	"	.028				
"	162	"	0				
"	163	"	0				
"	164	"	0				
"	165	"	0				
"	166	"	0				

FORM 787  
AUG 59

*Incl 1 - pages!*

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Record Group 112  
Accession #: 67A-4511  
Box #: 43  
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Second U.S. Army







Table 1

Medicine Dredge Stations

Station No.	Badge No.	Dose Received Rem
1	Y-147	0
2	Y-148	0
3	Y-149	0
4	Y-150	0
5	Y-151	0
6	Y-152	.030
7	Y-153	.030
8	Y-154	.054
9	Y-155	0
10	Y-156	.126
11	Y-157	0
12	Y-158	0
13	Y-159	0
14	Y-160	0
15	Y-161	.024
16	Y-162	0
17	Y-163	0
18	Y-164	0
19	Y-165	0
20	Y-166	0

Station No.	Badge No.	Dose Received Rem
21	Y-167	.024
22	Y-168	0
23	Y-169	.018
24	Y-170	0
25	Y-171	0
26	Y-172	0

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Record Group 112

Accession #: 67A-4511

Box #: 43

File: Over exposure Second U.S. Army

100-100

27

Director of Compliance Division  
100-100  
100-100  
New York, New York

Enclosure:

The enclosed information is forwarded in accordance with telephone request from Mr. Jack Robbins, 16 July 1962.

A final report on this subject will be forwarded to Director of Compliance Division on or before 16 August 1962.

Sincerely,

1 Incl  
Preliminary Report  
(2 copies)

CHARLES ROBBINS  
Colonel, GAC  
Special Asst to the Counselor  
for Radiological Affairs

File Attached  
100-100-501

100-100-501

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