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3943

DEC 9 1971

Gen W. Roy, Chief, Materials and Fuel Facilities
Branch, Division of Compliance, HQ

CO INQUIRY REPORT NO. 7101
DEPARTMENT OF THE ARMY
U.S. ARMY ELECTRONICS COMMAND
FORT MONMOUTH, NEW JERSEY 07703
LEAKING SOURCE - 1.76 C1 Po-210

The subject inquiry report is forwarded for your information.

The licensee's handling of the situation appears adequate. Compliance's evaluation of the bioassay data reported indicates no over-exposures to airborne concentrations.

Further information will be obtained during the next inspection, scheduled for the first quarter of 1972.

Paul R. Nelson
Senior Radiation Specialist

Enclosure:
Subject Inquiry Report (Orig & 2 cys)

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions ~~FOIA b 7~~
FOIA- 2006-0238

HH/4

OFFICE ▶	CO					
SURNAME ▶	Brandkamp/nvk	Ryan	Nelson			
DATE ▶	12/09/71		12/09/71			

CG INQUIRY REPORT NO. 7101

Licensee: Department of the Army, U.S. Army
Electronics Command
Fort Monmouth, New Jersey

License No. 29-01022-06

Descriptive Title: Leaking Source - 1.76 Ci
Po-210 as of October 13, 1971

Prepared by: Fred N. Brandkamp, Radiation Specialist

October 29, 1971
Date

A. Date and Manner AEC was Informed:

Mr. J. M. Garner, Jr., RSO, telephoned Region I Office on October 8, 1971 to report the fact that a Po-210 sealed source, 8.1 Ci as of December 8, 1970, was found to be leaking. A copy of a written report of the situation, dated October 8, 1971 and addressed to DML, was received at Region I on October 14, 1971.

B. Description of Particular Event or Circumstance:

The subject source was found to be leaking upon analysis of a routine wipe test taken on October 6, 1971. Closer inspection of the source on October 8, 1971 revealed the fact that the alpha window had become separated from the source assembly. The source was promptly wrapped in protective material, packaged, and then placed in storage as contaminated waste.

C. Action by Licensee:

The personnel involved and the area where the source was handled were monitored and only limited decontamination was found necessary. Contamination found on the personnel was limited to the gloves they were wearing. Fecal and urine samples were provided by both men involved. The RSO informed Region I of the results of the analyses by telephone on November 3, 1971.

TELEPHONE INCIDENT REPORT

calling for
D. W. Ramm R PC
201-596-1550

Notify caller if secretary takes notes of conversation

Date of Call: 10/8
 Time: 4:27 PM
 Receiver: JB

Reported by: J. M. Garner, RSO
 Title: _____
 Phone No: 532-7493; Extension: 3926

Company: Fort Monmouth N.J.
 Address: _____
 License No: 29-1022-06

Person Involved:	Dose:
Title: <u>...</u>	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> 2561 Charles Wood asst </div>
Person:	
Title:	
Person:	Dose:
Title:	

Describe Licensed Material Involved:
Po 210 - sealed source
orig 8.1 Ci as of 12/8/70

How Dose Determined: FB #'s & Dates:

 FB Supplier & Address:

Describe Incident:	Date Occurred:	Time:
<p><u>Source prev. leak tested June '71 - failing to leak test</u> <u>again before use 10/6/71 - ~ 1:30 PM (2 researchers leak</u> <u>tested source - found 9×10^2 mc. for one area. Ex 6</u> <u>Sides & back of source wiped again - all surface dust</u> <u>removed - got a sense out of activity - wore gloves;</u> <u>contain - but none on person.</u></p>		
Present Status of Facility:	(Continue on back)	
<u>Met in storage</u>		
Cause of Incident:	<u>Mech Fail.</u>	
Corrective Action Taken:	_____	
Any Publicity Release:	<u>No</u>	
Other Agencies Notified:	<u>Army Mat Comm.</u>	

Instructions & Requests to Reporter of Incident:
Review 20.403 & 20.405

Type of Incident: _____	Persons Assigned to Investigate: _____					
<table border="1" style="width: 100%;"> <tr><td>Dir:</td></tr> <tr><td>Sr. Rwr</td></tr> <tr><td>Sr. Insp.</td></tr> <tr><td>Inves.</td></tr> <tr><td>File</td></tr> </table>		Dir:	Sr. Rwr	Sr. Insp.	Inves.	File
Dir:						
Sr. Rwr						
Sr. Insp.						
Inves.						
File						

did another work cell day - can no longer
shine - discolored - window off - in container
taped window back with tape. & returned to
plastic storage cont - into plastic glove
into shipping vault for waste -

Checked themselves for contamination & Baird-Atton
Model 420E with a mica end window $1.4 \text{ to } 2$
 mg/cm^2 returned to lab - removed paper cover to
hot waste. Surveyed area, found 3 hot spots
& paper towels - Mesonite table top container
will be disposed

77. Wammouth

230 P.M. 10/27

samples were sent to
AEHA office at
Edgewood Arsenal

mailed 10/13 - recd 10/14
on 10/26 AEHA decided to

run same - will be run
2:30 PM - 24 hr. samples completed

these will be out today today
hope for add'l info tomorrow or
Fri

Army Environmental
Hygiene Agency

Mr. Jones will be doing analyses
(301) 584-3526

1. LICENSEE: _____ DOCKET NO. _____ PRIORITY AND/OR CATEGORY _____
 FACILITY: _____ LICENSE NO. _____
 REGION MAKING INSPECTION: _____ INSPECTOR: _____

INSP./INVEST. DATES: FROM _____ TO _____ REPORT NO.: _____

2. TYPE OF REPORT: INSP: () INIT, () REINSP; () INVEST; () INQUIRY; () VENDOR.

3. REPORT ACTION: () CLEAR; () DRL/DML FOR INFO; () 592; () CDN; () HQS FOR ACTION.

4. CHARACTER OF ENFORCEMENT ACTION: () SAFETY ITEM: () NONCONFORMANCE:
 () NONCOMPLIANCE - W/LIC COND _____ IOCFR _____

5. FIELD ACTION AS A RESULT OF INQUIRY: () CONDUCT INVESTIGATION; () REVIEW NEXT INSP.;
 () REFER TO _____; () NO FURTHER ACTION.

6. A	B	C
<p><u>REASON INSP. REPORT TO HQS FOR ACTION:</u></p> <ul style="list-style-type: none"> () IMMED. THREAT TO H & S COMPLEX ITEM INVOLVING: <ul style="list-style-type: none"> () NONCOMPLIANCE () LICENSING PROBLEM () POLICY MATTER () INTERPRETATION () SAFETY ITEM () COSTLY TO CORRECT () >190 DAYS TO CORRECT () UNCORRECTED N/C () NO CORRECTIVE ACTION PLANNED () INADEQ. CORRECT ACTION PLANNED () 592, CDN NO REPLY RECEIVED () 592, CDN INADEQ REPLY () UNREVIEWED SAFETY ITEM () DESIGN CHANGE W/O DRL APPR. () APPROPRIATE FOR HQS ACTION () DISCRETION OF REG. OFFICE () REVIEW () OTHER 	<p><u>SUBJECT OF INQUIRY OR INVESTIGATION:</u></p> <p>TYPE () A , () B</p> <ul style="list-style-type: none"> () OVEREXPOSURE <ul style="list-style-type: none"> () INT () EXT () RELEASE () LOSS OF FACILITY () PROPERTY DAMAGE 10 CFR 20.405 <ul style="list-style-type: none"> () OVEREXPOSURE <ul style="list-style-type: none"> () INT () EXT () EXCESSIVE RAD LEVELS () EXCESSIVE CONC LEVELS () CRITICALITY () LOSS OR THEFT () CONTAMINATION () UNSAFE OPERATION () FIRE, EXPLOSION () HUMAN/OPERATOR ERROR () COMPLAINT () PUBLIC INTEREST () LEAKING SOURCE () TRANSPORTATION () EXPIRED LICENSE () OTHER 	<p><u>HQS ACTION ON INSPECT. AND INVEST. REPORTS:</u></p> <ul style="list-style-type: none"> () NO ACTION () LETTER - CLEAR () LETTER - N/C () LETTER - SAFETY ITEM () PART 2 NOTICE () PART 2 NOTICE AS RESULT OF FOLLOWUP TO 592, CDN () ORDER () LICENSE AMENDMENT () ENFORCEMENT VISIT () APPLICATION DENIAL () REFER TO DRL FOR RESOLUTION () REFER TO DRL FOR INFORMATION () OTHER <ul style="list-style-type: none"> () EXPOSURE REPORTED AND FOUND INVALID () CONST./EQUIP. DEFICIENCY () EQUIPMENT FAILURE () EXCEED LIC/TECH SPEC REQ'S () DEPARTURE FROM FSAR/TS'S

7. REGIONAL OFFICE ACTION DATES:
 ISSUE 592 OR CDN _____
 TRANSMIT REPORT TO HQS _____
 RECEIVE LICENSEE REPLY _____

8. HQS ACTION DATES:
 ISSUE NOTICE, ORDER _____
 FORWARD REPORT _____
 RECEIVE LICENSEE REPLY _____

9. CHARACTER OF LICENSEE REPLY: () ADEQ () INADEQ () NOT REQUIRED.

10. COMMENTS:

fecal & urine samples sent from both
from one man
samples collected that week and 10/11-10/12 brought
in later following week - sent to either ~~Water~~ ~~at~~ ~~Edgewood~~ ~~for~~ ~~processing~~
at Edgewood for processing
following week.

Gamer learned, on 10/22, that call on 10/15 came in -
not processed - want 24 hr samples -
men balked - see no need
Orig. Gamer asked for samples -

Dr. Ramu is responsible as RPO. - Gamer just
sending a hand. Ramu has heavy accent
Surgeon General handles bioassay data
Capt Jos. Mc Groaty - at Base Hosp. 532-3462

Ref of Surgeon General
Capt Martin - Sanitary Eng. - teammate

CO: I

October 21, 1971

Your Ref: AMSEL-TL-NC

29-1022-6

United States Army Electronics Command
ATTN: Mr. Wolfgang J. Farn
Radiological Protection Officer
Fort Monmouth, New Jersey 07703

Gentlemen:

Thank you for your letter dated October 8, 1971, informing us of your detection of removable contamination on a polonium 210 source. So that our records will be complete, we would appreciate your completing those portions of the enclosed forms which we have marked and returning one copy of the completed form to us.

Very truly yours,

Gen W. Roy, Chief
Materials and Fuel Facilities Branch
Division of Compliance

Enclosure:
Leaking Source Report Forms

cc: Department of the Army
ATTN: Chief, FEMA
Execution Division
Deputy Chief of Staff for
Logistics
Washington, D. C. 20310

bcc: PDR)
NSIC) w/cpy ltr dtd
SLR) 10/8/71
DML:MB)
Leaking Source)

CO: I ✓
DR Central File

OFFICE ▶	CO RHandler:akb	CO GWRoy				
SURNAME ▶						
DATE ▶	10/20/71					

AMSEL-TL-NC

SUBJECT: Leaking Polonium Source

TO: Director
Division of Materials Licensing
U.S. Atomic Energy Commission
Washington, D.C. 20575

1. Under A.E.C. License 29-1022-6, an 8.1 curie Polonium 210 sealed source was being used in a laboratory, Building 45, Evans Area, Fort Monmouth, New Jersey. The source is a Monsanto Research Corporation MRC-A-SS-P-P, No. Po411, Assay 8 December 1970.

2. On 6 October, the source was removed from the authorized storage vault for use by

using the source, the exterior (except window) was wiped and the smear indicated contamination. Visual inspection of the source revealed the window had dislodged. The window was taped in place and the source was sealed and put in contaminated waste storage. Forceps, scissors, and protective paper and plastic gloves were placed in "hot" waste containers.] Prior to
EX 6

3. Both personnel who handled the source, decontaminating, etc., were surveyed at each step with a Baird Atomic Model 420E with GM tube detector (1.4-2 mg/cm² mica window). Only their gloves were contaminated.

4. Three spots on the work table beyond the protective paper were contaminated indicated by smears. The rest of the work area was surveyed with a Nuclear Chicago Model 2672 air proportional survey meter with negative results. Decontamination was effected with Radiacwash, but the material in the three spots apparently soaked into the work surface as indicated by the survey meter (smears were negative after washing). The contaminated portions will be disposed of as radioactive waste.

ANSEL-TL-NC

Subject: Leaking Polonium Source

5. No further personnel hazards appears to be involved.

Copies furnished:
Director, Region 1 ✓
Division of Compliance
USAEC, 970 Broad St
Newark, NJ 07102

WOLFGANG J. RAHN
Radiological Protection Officer

CG, USAMC
Attn: (AMCSF-P)
Washington, DC 20315

Ch, Safety Office
U.S. Army Electronics Command
Attn: (ANSEL-SF)
Fort Monmouth, NJ

Dir, ET&DL, ANSEL-TL
Fort Monmouth, NJ

1. LICENSEE: _____ DOCKET NO. _____ PRIORITY AND/OR CATEGORY _____
 FACILITY: _____ LICENSE NO. _____
 REGION MAKING INSPECTION: _____ INSPECTOR: _____

INSP./INVEST. DATES: FROM _____ TO _____ REPORT NO.: _____

2. TYPE OF REPORT: INSP: INIT, REINSP; INVEST; INQUIRY; VENDOR.

3. REPORT ACTION: CLEAR; DRL/DML FOR INFO; 592; CDN; HQS FOR ACTION.

4. CHARACTER OF ENFORCEMENT ACTION: SAFETY ITEM; NONCONFORMANCE;
 NONCOMPLIANCE - W/LIC COND _____ IOCFR _____

5. FIELD ACTION AS A RESULT OF INQUIRY: CONDUCT INVESTIGATION; REVIEW NEXT INSP.;
 REFER TO _____ ; NO FURTHER ACTION.

6. A

REASON INSP. REPORT TO HQS FOR ACTION:

- IMMED. THREAT TO H & S
- COMPLEX ITEM INVOLVING:
- NONCOMPLIANCE
- LICENSING PROBLEM
- POLICY MATTER
- INTERPRETATION
- SAFETY ITEM
- COSTLY TO CORRECT
- >190 DAYS TO CORRECT
- UNCORRECTED N/C
- NO CORRECTIVE ACTION PLANNED
- INADEQ. CORRECT ACTION PLANNED
- 592, CDN NO REPLY RECEIVED
- 592, CDN INADEQ REPLY
- UNREVIEWED SAFETY ITEM
- DESIGN CHANGE W/O DRL APPR.
- APPROPRIATE FOR HQS ACTION
- DISCRETION OF REG. OFFICE
- REVIEW
- OTHER

B

SUBJECT OF INQUIRY OR INVESTIGATION:

- TYPE A , B
- OVEREXPOSURE
- INT EXT
- RELEASE
- LOSS OF FACILITY
- PROPERTY DAMAGE
- 10 CFR 20.405
- OVEREXPOSURE
- INT EXT
- EXCESSIVE RAD LEVELS
- EXCESSIVE CONC LEVELS
- CRITICALITY
- LOSS OR THEFT
- CONTAMINATION
- UNSAFE OPERATION
- FIRE, EXPLOSION
- HUMAN/OPERATOR ERROR
- COMPLAINT
- PUBLIC INTEREST
- LEAKING SOURCE
- TRANSPORTATION
- EXPIRED LICENSE
- OTHER

C

HQS ACTION ON INSPCT. AND INVEST. REPORTS:

- NO ACTION
- LETTER - CLEAR
- LETTER - N/C
- LETTER - SAFETY ITEM
- PART 2 NOTICE
- PART 2 NOTICE AS RESULT OF FOLLOWUP TO 592, CDN
- ORDER
- LICENSE AMENDMENT
- ENFORCEMENT VISIT
- APPLICATION DENIAL
- REFER TO DRL FOR RESOLUTION
- REFER TO DRL FOR INFORMATION
- OTHER
- EXPOSURE REPORTED AND FOUND INVALID
- CONST./EQUIP. DEFICIENCY
- EQUIPMENT FAILURE
- EXCEED LIC/TECH SPEC REQ'S
- DEPARTURE FROM FSAR/TS'S

7. REGIONAL OFFICE ACTION DATES:

ISSUE 592 OR CDN _____
 TRANSMIT REPORT TO HQS _____
 RECEIVE LICENSEE REPLY _____

8. HQS ACTION DATES:

ISSUE NOTICE, ORDER _____
 FORWARD REPORT _____
 RECEIVE LICENSEE REPLY _____

9. CHARACTER OF LICENSEE REPLY: ADEQ INADEQ NOT REQUIRED.

10. COMMENTS: