



DEPARTMENT OF THE ARMY  
HEADQUARTERS US ARMY COMMUNICATIONS-ELECTRONICS COMMAND  
AND FORT MONMOUTH  
FORT MONMOUTH, NEW JERSEY 07703

REPLY TO  
ATTENTION OF:

August 10, 1984

Safety Office

US Nuclear Regulatory Commission  
Region I  
631 Park Avenue  
King of Prussia, PA 19406

Dear Sir:

In maintaining compliance with paragraph 20.402 of Title 10, Code of Federal Regulation (CFR), Part 20, and with US Nuclear Regulatory Commission Eproduct Material License Number 29-01022-11 authorizing the possession and use of the MX-7338/PDR-27R Radioactive Test Sample by the Department of the Army, the following information is provided:

a. This is a report of one stolen MX-7338/PDR-27R radioactive test source containing five millicuries of 85 Krypton.

b. The MX-7338/PDR-27R is a five inch wand-shaped radioactive source used to check the functional operation of the AN/PDR-27 ( ) standard Army beta-gamma radiation detection instrument (Radiac Set). The AN/PDR-27 ( ) Radiac Set is comprised of a metal carrying case incorporating the radiation detection instrument, the MX-7338/PDR-27R check source, spare Geiger-Mueller tubes and other ancillary components.

c. The MX-7338/PDR-27R and AN/PDR-27 ( ) Radiac Set were assigned to A-6/327th Infantry, Fort Wainwright, Alaska. On 16 Jan 84, the MX-7338/PDR-27R and several other defense items were discovered stolen from the Nuclear, Biological, Chemical (NBC) unit assigned the AN/PDR-27 ( ) Radiac Set (Enclosure 1). The person or persons who unlawfully entered the locked room and performed the larceny is unknown. Therefore, no determination of radiation exposure levels can be ascertained.

d. The NBC unit performed a 100% inventory of the room on 16 Jan 84 and determined the only radioactive material missing from the room was the one MX-7338/PDR-27R check source. As no evidence of forcible entry could be found, the locks on the NBC room have been changed to prevent further theft.

e. In the case of this incident, the unit concerned immediately reported the discovery of the theft to the Military Police, but failed to realize the impact of the loss of radioactive materials. This command was just recently informed of the occurrence.

RECEIVED UNCL. INFO  
WHEN SEPARATED FROM  
CLASSIFIED ENCLOSURES

"FOR OFFICIAL USE ONLY"

1984 AUG 17 PM 1:44

RECEIVED-REGION 1

8409280444 840810  
IE LIC20  
29-01022-11

f. Units have been reminded that any accident or incident involving the loss of radioactive materials must immediately be reported to the installation Radiological Protection Officer (RPO). Additionally, any accident/incident involving radioactive materials which results in exposures in excess of that indicated in Army Regulation 385-40 and as stipulated in paragraph 20.101 of Title 10 CFR Part 20, must immediately be reported to the installation RPO.

Please contact this office at (201) 544-4427 if you have further questions regarding this matter or if additional information is required.

Sincerely,

*Steve A. Howe* for  
BERNARD H. SAVAICO  
Chief, Safety Office

1 Encl  
95

CF:  
Cdr, USAHC, ATTN: ANCSF-P

REMAINDER OF THIS  
DOCUMENT IS UNCLASSIFIED  
DATE 08-11-01 BY 1045

FOR OFFICIAL USE ONLY

AFLG-FMC (22 Jun 84) 1st Ind  
SUBJECT: Report of Loss of Radioactive Materials

HQ FORSCOM, Ft McPherson, GA 30330-6000 2 AUG 1984

TO: Commander, U. S. Army Communications and Electronics Command and Fort  
Monmouth, ATTN: DRSEL-SF-MR, Fort Monmouth, New Jersey 07703

1. This delayed report of theft of a Radioactive Test Sample, Krypton 85, MX 7338 is forwarded in accordance with AR 385-40.
2. Action taken by 172d Infantry Brigade (Alaska), as shown in Inclosure 2, is considered to be adequate.

FOR THE COMMANDER:

2 Incl  
nc

*Chartley M. Monaster*  
CHARTLEY M. MONASTER  
Captain, AGC  
Assistant Adjutant General



DEPARTMENT OF THE ARMY  
HEADQUARTERS, 172D INFANTRY BRIGADE (ALASKA)  
FORT RICHARDSON, ALASKA 99505

AFZT-PTS-C

22 JUN 1984

SUBJECT: Report of Loss of Radioactive Materials

THRU: Commander  
FORSCOM  
ATTN: AFLG-FMC  
Fort McPherson, Georgia 30330

TO: Commander  
CECOM  
ATTN: DRSEC-SF-MR  
Fort Monmouth, New Jersey 07703

1. Reference: a. AR 385-11, Safety Ionizing Radiation Protection, 1 May 1980.  
b. AR 385-40, Safety Accident Reporting and Records, 23 Jun 77.
2. The purpose of this correspondence is to report the theft of radioactive materials IAW the procedures outlined in paragraph 10-4(f) of AR 385-40.
3. The following report is submitted:
  - a. This is a report of a stolen MX 7338/PDR 27R test source, which is a component of AN/PDR 27R, serial number B671, assigned to A-6/327th Infantry, Fort Wainwright, Alaska.
  - b. The theft was discovered on 16 Jan 84.
  - c. The radioactive source was one Radioactive Test Sample, Krypton 85, Gamma MX-7338/PDR-27R, NSN 6665-00-832-6159. Source contains 5 millicuries of Krypton 85 which is a gamma producing radioactive isotope.
  - d. On 7 June 1984, the Chemical NCO, SSG Edge from the 6/327th Infantry, called and notified the installation RPO that sometime prior to 16 Jan 84, the NBC room of A Company, 6th Battalion 327th Infantry was entered and several NBC defense items were stolen. One of the items was a Radiac Set AN/PDR-27R serial number B671 which contained a Krypton 85 test source. The person or persons entering the room and performing the larceny are unknown. Because the amount of radiation in the source is very low and it cannot be determined who performed the larceny, there is no way to determine exposure levels. (See Incl 1 for details)

AFZT-PTS-C

22 JUN 1984

SUBJECT: Report of Loss of Radioactive Materials

e. The unit has reviewed its physical security requirements and changed the locks on the NBC room to prevent further theft.

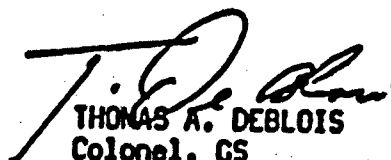
f. Recommendation: The AN/PDR 27 is a common radiation detection instrument. In the case of this incident, the unit reported the theft to the MP's but failed to realize the impact of the loss of radioactive materials. Installations should take positive steps to insure that individuals at all levels recognize that the loss of any radioactive material has the potential to cause harm to individuals and unfavorable publicity to the Defense community.

g. Questions concerning this incident may be directed to Major Ross, Chief, NBC Division, DPISD, Fort Richardson, Alaska 99505, AV 317-862-1294.

FOR THE COMMANDER:

2 Incl

1. Report of Survey
2. 172d Bde Letter



THOMAS A. DEBLOIS  
Colonel, GS  
Director of Plans, Training,  
and Security

## REPORT OF SURVEY

For use of this form, see AR 735-11; the proponent agency is DCELOG.

17 Jan 84

91-84

3. TYPE OF PROPERTY Organizational		4. ADDRESS OF ACCOUNTABLE OFFICER BPDO, 172d LIB, Ft Richardson, Alaska 99505		
5. ORIGINATOR (Accountable officer, or primary hand receipt holder) (MC1QJ2) WENDELL K. SIELTON, CPT, INF, CO-1 WANDER, Co A 6th Bn 327th Inf Reg, Ft Wainwright, AK 99703				
6. NATIONAL STOCK NUMBER	7. ITEM DESCRIPTION	8. QTY	9. UNIT PRICE	10. TOTAL COST
6665-00-856-8037 Q21483	Radiacmeter IM-174/PD RICCI No Residue SER/14325	1ea	\$244.00	\$244.00
6665-00-999-5145 Q21483	Radiacmeter IM-174A/PD RICCI No Residue SER/11550	1ea	\$244.00	\$244.00
6665-00-961-0846 Q19339	Radiac Set AN/PDR-27R RICCI No Residue SER/B671	1ea	\$148.00	\$148.00
4240-01-143-2019 M11895	Mask Prot Med ABC M17A1 RICCI	6ea	\$118.00	\$708.00
GRAND TOTAL				\$1344.00

## 11. DATE AND CIRCUMSTANCES

On 16 January 1984 SGT Brian D. Eastman, 003-52-6152 went to the NBC Room of Co A 6th Bn 327th Inf to check the IM-174/PD against the calibration list published by DSD calibration section. After SGT Eastman entered the NBC room he discovered that the IM-174's were missing. After notifying the NBC Officer 1LT Mark Lowe, 230-94-7821 a 100% inventory of the NBC equipment was conducted, the above items were missing. The loss was reported to the Military Police who are also doing an investigation.

Exhibit A thru I Attached

12. AFFIDAVIT I do solemnly swear (or affirm) that (to the best of my knowledge and belief) the articles of public property shown above and/or on attached sheets were lost, destroyed, damaged, or worn out in the manner stated, while in the public service.		SIGNATURE AND DATE <i>Wendell K. Sieton</i> TYPED NAME, GRADE, AND SSN WENDELL K. SIELTON, CPT, INF 401-88-0279		13. Subscribed and sworn to (or affirmed) before me at Ft Wainwright, AK this 17 day of January 1984 NAME AND GRADE (Type and sign) <i>Walter R. Iwing</i> WALTER R. IWING, 1LT, INF, ADJ	
14. DATE 29 Jan 84	15. NAME, GRADE, AND SIGNATURE OF ACCOUNTABLE OFFICER <i>Edward G. Ross</i> EDWARD G. ROSS, C/3, USA, Brigade Property Book Officer			16. DOCUMENT NUMBER MC1QJ2 4019-580	
17. APPOINTING AUTHORITY I have received the evidence pertaining to the lost, damaged, or destroyed property, and have determined that the following action is required. a. <input type="checkbox"/> No further investigation is required. There is no positive evidence of negligence. I do not suspect willful misconduct or deliberate unauthorized use. I hereby forward this document to the approving authority for final action. (Proceed to block 21.) b. <input checked="" type="checkbox"/> The circumstances surrounding the lost, damaged or destruction warrants further investigation. (Proceed to block 21.) c. <input type="checkbox"/> Conduct an investigation according to AR 15-6. Attach this document, as an exhibit, to the investigation and forward it to the approving authority.					
18. DATE JAN 84	19. TYPED NAME, GRADE, AND TITLE OF APPOINTING AUTHORITY DAVID R. E. HALE, LTC, INF, Commander 6/327th			20. SIGNATURE <i>DR Hale</i>	

On the morning of 17 Jan. '54, a Health and Welfare inspection was conducted in Alpha Company by the order of Capt. Shelton, (Exhibit E), no missing equipment was found.

The CID had been called into investigate on 16 Jan. under the supervision of SA MARK W PROUTY, (Exhibit F).

A statement was made by SSG MARVEL D. CORNELL, (216-60-9431), in regards to insecure keys by the previous NBC NCO, (Exhibit G).

The Battalion S-2, SSG FRED COX, was contacted and investigated on the adequacy of the security of the NBC room and its equipment therein, (Exhibit H).

A policy of the security standards within the Battalion is included, (Exhibit I).

**RECOMMENDATIONS:** That none of the above person(s) be held liable for property accountability and responsibility of the missing NBC equipment, due to the fact that the most probable cause of theft could have been the result of a duplicate key in the hands of a third party, neither of which can be shown or traced.

In conclusion, my observation is that, 1. a more secure locking assembly (possibly two locks), be placed on the outer NBC room door, 2. tighter control of the NBC room key's be kept within the company. End of report.

*Timothy L. Cory*

TIMOTHY L. CORY 1ST INF  
SURVEYING OFFICER

23. APPOINTING AUTHORITY 27 STATION 28 DATE

24. NAME, GRADE OF SURVEYING OFFICER

25. YOU ARE APPOINTED SURVEYING OFFICER BY ORDER OF, David R.E. Hale LTC, Inf. Commanding  
(Typed name, grade of Appointing Authority)

26. FINDINGS AND RECOMMENDATION

I have examined all available evidence as shown in Exhibits A to 1 and as indicated below have personally investigated the same and it is my belief that the article(s) listed hereon and/or attached to sheets, total cost \$ 1344.00 cannot be accounted for and do not hold any certain individual responsible or accountable due to willfull misconduct or negligence.

On 16 JAN 1984, the Alpha Company NBC NCO, SGT Brian D. Eastman, 003-52-6152, discovered equipment to be missing during a calibration check in the NBC room after recieving a request from SFC Beers Battalion Commo, for two instruments to be calibrated: 1 radiac meter, IM174 and 1 radiac set AN/PDR-27R. SGT Eastman noticed no evidence of break-in or forced entry at that time. (Exhibit B). The original inventory sheets, DA form 2062 (Exhibit A), show what NBC equipment should be on hand; the following equipment was found to be missing: 2 Radiacmeters IM174/PD SER/11580, 14323, 1 Radiac set AN/PDR-27R SER/ B671, and 6 Protective mask M17A1. The following day during a 100% inventory it was also found that 1 box of combat filters were also missing.

SGT. Eastman informed 1LT. Mark S. Lowe 230-94-7821, the NBC Officer of the missing equipment (Exhibit C). After thorough checks were made 1LT Lowe informed the Company Commander, Cpt. Shelton of the situation (Exhibit D).

SEE CONTINUING STATEMENT

27. RECOMMEND PECUNIARY CHARGE a. ACTUAL LOSS b. AMOUNT CHARGED c. LOSS TO GOVERNMENT  
\$ 1344.00 \$ 1344.00

28. DATE 29a. TYPED NAME, GRADE OF SURVEYING OFFICER b. SIGNATURE  
27 JAN 84 Timothy L. Cory 1LT, Inf. Timothy L. Cory

29. I have examined the findings and recommendations of the Surveying Officer on the report of survey and the exhibit is to and ☐ desire to make a statement which is attached hereto; ☐ do not desire to make a statement. I am aware of my right to legal advice in preparing the statement and, if a pecuniary charge is finally approved, to make appeal and (if an enlisted man) my right to request removal or discharge. I am/ am not the accountable officer for the lost or damaged property. The property was/was not my personal arms or equipment.

31. DATE 32a. TYPED NAME, GRADE OF INDIVIDUAL BEING CHARGED b. SIGNATURE

33. RECOMMENDATION BY THE APPOINTING AUTHORITY ☒ CONCUR ☐ NONCONCUR 34. COMMENTS  
The available evidence is insufficient to substantiate negligence and proximate cause for any individual involved. Additional investigation appears to lack the potential of establishing proximate cause.

35. DATE 36a. TYPED NAME, GRADE & TITLE OF APPOINTING AUTH b. SIGNATURE  
31 JAN 84 David R.E. Hale LTC, INF, Commanding R.E. Hale

37. APPROVING AUTHORITY a. ☐ REJECTED. Investigation is required. Appoint a survey officer. Date Initials b. ☐ REJECTED. Investigation incomplete. Additional information required. Date Initials c. ☒ APPROVED BY AUTHORITY OF THE SECRETARY OF THE ARMY.  
Relieve all persons concerned or any pecuniary liability and responsibility. Property accountability will be discontinued.  
38. PECUNIARY CHARGE  
a. ACTUAL LOSS \$ 1344.00  
b. AMOUNT CHARGED 0  
c. LOSS TO GOVERNMENT \$ 1344.00

39. DATE 40a. TYPED NAME, GRADE & TITLE OF APPROVING AUTH b. SIGNATURE  
7 Feb 84 James D. James. COL, INF, Commanding [Signature]



## DETAILS

About 1705, 16 Jan 84, the undersigned received telephonic notification from MP Desk SGT Kit KAHN, 172D Military Police Company, Fort Mainwright, AK, (FWA) of a reported larceny of six (6) M17-A2 Protective Masks; two (2) IM-174 Radiacmeters and one (1) AN-PDR 27 Radiac Set from the NBC Room at Bldg 3411, FWA. KAHN further advised that the items were discovered to be missing during an inventory of the NBC Equipment.

About 1720, 16 Jan 84, the undersigned contacted SGT KAHN at the MP Desk, FWA. KAHN provided additional information that 1LT Mark S. LOWE, 230-94-7821, Co A, 6th BN, 327th Inf Bgnt, FWA was the assigned Officer in Charge, (OIC) and that LOWE had made the complaint to the Military Police.

About 1725, 16 Jan 84 the undersigned arrived at Bldg 3411, FWA. The undersigned met with 1LT LOWE and SGT Brian D. EASTMAN, 003-52-6152, A/6/327, FWA, the assigned Non-Commissioned Officer, (NCO). LOWE and EASTMAN related that the last accountability inventory had been conducted on or about 16 Nov 83 after the unit had returned from a field exercise. It was further learned that only two (2) keys to the NBC Room are issued and that during the entire time period one key was in the possession of SGT EASTMAN, while the second key was either in the possession of 1LT LOWE or secured in his assigned quarters while he was on leave. No other keys to the NBC Room are known to exist.

The following are activities and observations pertinent to the crime scene examination of the NBC Room, Bldg 3411, FWA on 16 Jan 84.

**CHARACTER OF THE SCENE:** The NBC Room is located on the basement level of Bldg 3411, a three story brick barracks building. The room, which is used for the storage of all unit NBC equipment, is accessible through one entrance/exit way. The door is of metal construction and is secured by a hasp and locking device. The door also contained an intergal locking device at the door handle which was operational.

**CONDITION OF THE SCENE:** Examination of the NBC Room revealed that there were no signs of forced entry. The door, door frame and locking device failed to show any signs of tampering. On the West wall of the room were five (5) windows at ground level. The windows were secured and did not appear to have been recently opened. Examination of the interior of the room revealed that no items appear to have been disturbed or moved about within the room.

**FACTORS PERTINENT TO ENTRY/EXIT:** Entry or exit to the room could have been made by the single doorway or by the windows. Neither the door or windows appeared to have been tampered with. As previously stated, the two existing keys to the room were in the hands of the assigned personnel and had not been lent out or lost.

REPORT AGENT'S NAME AND SEQUENCE NUMBER

SA MARK M. PHILIP, 2497

ORGANIZATION

Ft Mainwright Resident Agency, Sixth FWA  
USACIDC, Ft Mainwright, AK 99703

SIGNATURE

DATE

EXHIBIT

20 Jan 84

CID FORM 91

1 FEB 83

PROTECTIVE MARKING IS EXCLUDED FROM  
AUTOMATIC TERMINATION (Para 12, AR 309-16)  
(When Date is Filled)

PREVIOUS EDITIONS OF THIS FORM  
WILL BE USED UNTIL EXHAUSTED.

WD-10-111

EXHIBIT "F" TO A "CO" R/S # 91-84

**DETAILS:**

**SCENE PHOTOGRAPHY:** No photographs of the NBC Room were obtained due to the lack of evidentiary items.

**COLLECTION OF PHYSICAL EVIDENCE:** There were no items of physical evidence noted.

**SEARCH FOR LATENT IMPRESSION:** Due to the time frame involved and the number of personnel in and out of the NBC Room, no search for latent impressions was conducted.

About 1735, 16 Jan 84, while at Bldg 3411, FMA information was obtained from SGT EASTMAN that the missing protective masks had allegedly been returned in their canvas carriers and placed in the surplus section of wall where the masks are stored. EASTMAN advised that in Dec 83 he had conducted an inventory of the NBC Room, but that he had not physically opened each carrier to insure that it contained a mask. On this date EASTMAN and LOWE had removed each carrier from the wall and found that the six masks were in fact missing. Subsequent checks revealed that the Radiac Set and Radiac Set were also missing from their storage location. It could not be determined if the masks were new or if they were masks that had been stripped for repairs. EASTMAN also provided information that the serial numbers of the Radiac meters were 14325 and 11580. The serial number of the AX-PDR-27 was listed as 671. 1LT LOWE estimated that the protective masks were valued at \$400.00, (66.00 ea); The Radiac meters at \$488.00, (244.00 each) and the Radiac Set at \$144.00.

About 0900, 17 Jan 84, the undersigned briefed CPT Paul A. CHAGAN, Office of the Staff Judge Advocate, FMA concerning this incident.

About 1400, 17 Jan 84, the undersigned contacted 1LT LOWE. Arrangements were made to interview him at 0900, 18 Jan 84 and SGT EASTMAN at 1000, 18 Jan 84. It should be noted that the interviews were not conducted the night of the incident due to the need to finish the unit inventory. No interview could be conducted on 17 Jan 84 due to a previously scheduled field exercise involving 1LT LOWE.

About 1300, 19 Jan 84, the undersigned discussed this matter with 1LT CORY, the assigned Report of Survey Officer concerning this matter. Arrangements were made to discuss this incident in detail with 1LT CORY on 23 Jan 84. No interviews of 1LT LOWE or SGT EASTMAN were conducted this date due to operational requirements. The interviews will be scheduled at a later date.

About 1500, 20 Jan 84, the undersigned contacted the Direct Support Detachment, FMA. Information was obtained that the M17A2 Protective Mask is valued at \$118.00 each. This price is increased in the last two months from \$98.00 each. The IX-174 is valued at \$89.00 each and the AX-PDR-27 is valued at \$148.00 each. No further information was obtained at this time.///LAST ENTRY///

TYPED NAME AND SIGNATURE NUMBER

EA MARK W PKUTY, 2497

ORGANIZATION

Ft Wainwright Resident Agency, Sixth S. Co.  
USACIDC, Ft Wainwright, AK 99703

SIGNATURE

*MP*

DATE

20 Jan 84

EXHIBIT

CD FORM 91

1 FEB 83

PROTECTIVE MASKING IS EXCLUDED FROM  
ALTERNATE TERMINATION (Para 12, AR 110-16)  
(When Date is Filled)

EXCLUDED FROM USE OF THIS FORM  
WILL BE USED UNTIL EXHAUSTED.

11-NC-27-151



DEPARTMENT OF THE ARMY  
HEADQUARTERS, 172D INFANTRY BRIGADE (ALASKA)  
FORT RICHARDSON, ALASKA 99505

DEPLY TO  
ATTENTION OF

AFZT-PTS-C

14 JUN 1984

SUBJECT: Loss of Radioactive Materials

SEE DISTRIBUTION


1. Reference: a. AR 385-11, Safety Ionizing Radiation Protection, 1 May 1980.  
b. AR 385-40, Safety Accident Reporting and Records, 23 Jun 77.

2. Recently a unit reported the theft of a radioactive test source. Unfortunately the report was six months late. Chapter 10 of AR 385-40 specifically states that any loss of radioactive materials must be reported to the license holder immediately with follow-up reports within 30 days.

3. Units are reminded that any accident or incident involving the loss of any radioactive materials (excluding watches and compasses) must be reported to the Installation Radiological Protection Officer (RPD). Additionally, any accident involving radioactive materials which results in exposure in excess of that outlined in Chapter 10 of AR 385-40 must be reported immediately to the Installation RPD. Reports should be forwarded through channels to: Commander, 172d Infantry Brigade (AK), ATTN: AFZT-PTS-C, Fort Richardson, Alaska 99505; Phone: 862-1294.

4. POC is Major Ross, Installation Radiological Protection Officer, 862-1294.

FOR THE COMMANDER:

  
THOMAS A. DEBLOIS  
Colonel, GS  
Director of Plans, Training,  
and Security

DISTRIBUTION:

Inc-2