



**U. S. ARMY
COMMUNICATIONS - ELECTRONICS COMMAND
AND
FORT MONMOUTH
RADIOLOGICAL PERMIT**



In reliance on statements and representations made by the applicant, authority is hereby granted to receive, utilize and store the materials and/or devices in Item 5.

1. ACTIVITY GRANTED PERMIT Fort Monmouth Fire Department Attn: SELFM-DPS-F Building 282 Fort Monmouth, NJ 07703	2. POC / RESPONSIBLE INDIVIDUAL John Erichsen	
	3. PERMIT NUMBER 240	4. EXPIRATION DATE 5 December 2005


5. MATERIAL / DEVICE	6. CHEMICAL/ PHYSICAL FORM	7. ACTIVITY
Nickel 63 (Ni-63) incorporated in the APD 2000 Monitor Model : 2428800-10 SN: 1829 FM ID# Ni-18 and Model : 2428800-30 SN: 3234 FM ID# Ni-19	Electroplated Ni-63/Solid	Each APD 2000 – 10.0 mCi Total Activity – 20.0 mCi

8. CONDITIONS:

a. The Ni-63 sources listed in item 5 are used in the APD 2000 Monitor which is a portable, hand-held monitor and detector designed for emergency first response to hazardous chemical spills and terrorist attacks.

b. The authorized place of use for the APD 2000 is at emergency events on Fort Monmouth and mutual aid response to neighboring towns.

c. The APD 2000 will be utilized under the supervision of the individual listed in Item 2. Additional users shall be approved by the Fort Monmouth Radiation Safety Officer (RSO). The individual identified in Item 2 is responsible for ensuring all users meet minimum training and education requirements for operation of the source/item listed in Item 5.

APPROVED: 
CRAIG GOLDBERG
Fort Monmouth
Radiation Safety Officer

DATE: 5 December 2003

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SUPPLEMENTARY SHEET

PERMIT NUMBER: 240

EXPIRATION DATE: 5 December 2005

CONDITIONS:

- d. No unauthorized personnel are allowed in the same area when the source is in use.**
- e. The Ni-63 source may not be removed, reconfigured or modified in any manner without first informing and receiving permission from the installation Radiation Safety Officer.**
- f. Notify the CECOM Directorate for Safety, Attn: AMSEL-SF-RE, Fort Monmouth, NJ 07703-5024, Voice: (732) 427-3112, extensions 6405, 6444 or 6440 as soon as practical concerning any administrative or technical changes to the Radiological Permit Application for the source listed in item 5, to include procuring additional sources.**
- g. The Ni-63 sources shall be leak tested at an interval not to exceed 6 months. The initial leak test for SN: 1829 was performed at the CECOM Radiological Engineering Laboratory on 12 November 2003. The initial leak test for SN: 3234 was performed by the manufacturer on 26 November 2003 and again at CECOM on 4 December 2003.**
- h. The storage area for the APD 2000 Monitors shall be secured at all times or its access controlled by an authorized user.**
- i. The APD 2000 Monitor is to be used IAW the Users Manual dated November 2003, as provided with the Radiological Permit Application, dated 10 November 2003.**
- j. Unless specifically provided otherwise, the monitors/sources listed in item 5 shall be possessed and used IAW statements, representations and procedures contained in the Radiological Permit Application, dated 10 November 2003, and additional paperwork for the second monitor on 2 December 2003 signed by John Erichsen, Chief, FM Fire Department and Emergency Services.**



RADIOLOGICAL PERMIT APPLICATION



Check One

Date 10 November 2003

- Initial Permit Application (assign # 240)
 Application for Amendment to Permit No. _____
 Application for Renewal of Permit No. _____

1. To: CECOM Dir. for Safety
AMSEL-SF-RE
Ft. Monmouth, NJ 07703

2. Organization Applying for Permit:
FT MonMOUTH FIRE Dept
Building 282, Attn: SELFM-DPS-F
FT MonMOUTH NJ 07703

3. Radiation Area Supervisor: Name Scott Gould

4. Radioactive Material:

Element & Mass Number	Chemical Form	Physical Form Activity (mCi)
Nickel 63	Electroplated	10
Incorporated in	Ni-63	
two APD 2000s		
SN: 1829 and 3234		
Model: 2428800-10		

5. Other Sources of Ionizing Radiation Producing Devices:

N/A

6. Authorized Users:

Note: Attached Radiological Permit Supplement must be filled out for each person listed below.

See attached list



RADIOLOGICAL PERMIT APPLICATION



7. Location where source(s) of ionizing radiation will be used (Bldg, rm): On Ft. Monmouth, or as part of mutual aid response to neighboring towns.

8. Describe procedure(s) in which radioisotope(s) and/or other sources of ionizing radiation will be used or attach current SOP. Used ITW Mfg. manual and FD SOGs.

9. Describe laboratory facilities and equipment, (containers, shielding, fume hoods, protective clothing, etc.) Self-contained in a transport case in firetruck.

10. Signature of Director of Responsible Individual:

Name: JOHN ERIC HSEN

Signature *John Eric Hsen*

CECOM Directorate for Safety USE ONLY:

Instrumentation: None required

Dosimetry: None required

Reviewed by: *Hugo Bianchi*

Date: 19 Nov 2003

Approved by: *Cj Gobby*

Date: 11/19/03

FIRE PROTECTION TRAINING RECORD (For use of this form, see AF 420-90; dependent agency is USACE)				1. DATE 8-5-03
2. NAME, GRADE AND TITLE OF INSTRUCTOR <i>David L Gray</i>		3. TIME		
		STARTED <i>0909</i>	FINISHED <i>1205</i>	DURATION <i>3</i>
4. SUBJECT <i>HAZMAT WIND TUBES</i>		5. OBJECTIVE		
6. LOCATION OF TRAINING <i>BLDG 2501</i>		7. EQUIPMENT AND TRAINING AIDS USED <i>APP 2000 CAD/PLUS CAD MULT RA1</i>		
8. AMOUNT OF AGENTS AND FUEL USED				
AGENT	AMOUNT	FUEL	AMOUNT	
9. DESCRIPTION OF TRAINING CONDUCTED <i>Went over operating procedure</i>				
10. NUMBER OF PERSONNEL ATTENDED <i>9</i>		11. TOTAL HOURS <i>27 HOURS</i>		
12. REMARKS (Include Delays, Interruptions)				
13. INSTRUCTOR'S SIGNATURE <i>David L Gray</i>		14. TRAINING OFFICER'S SIGNATURE <i>And R...</i>		15. OFFICER IN CHARGE SIGNATURE
16. DATE RECORDED ON INDIVIDUAL'S TRAINING RECORD				
DATE	NAME, GRADE AND TITLE OF RECORDER		SIGNATURE	

FIRE PROTECTION TRAINING RECORD (For use of this form, see AR 420-90; approval agency is USACE)			1. DATE 8-5-03
2. NAME, GRADE AND TITLE OF INSTRUCTOR David L Gray		3. TIME STARTED 0900 FINISHED 1200 DURATION 3	
4. SUBJECT HAZMAT WIND METERS		5. OBJECTIVE TO LEARN HOW TO OPERATE NEW METERS	
6. LOCATION OF TRAINING ALDG 2601		7. EQUIPMENT AND TRAINING AIDS USED APP 2000 CAD/PLUS CAD MULTI RAY	
8. AMOUNT OF AGENTS AND FUEL USED			
AGENT	AMOUNT	FUEL	AMOUNT
9. DESCRIPTION OF TRAINING CONDUCTED Went over operation presentation			
10. NUMBER OF PERSONNEL ATTENDED 10		11. TOTAL MANHOURS 30	
12. REMARKS (include Delays/Interruptions)			
13. INSTRUCTOR'S SIGNATURE David L Gray		14. TRAINING OFFICER'S SIGNATURE [Signature]	15. OFFICER IN CHARGE SIGNATURE
16. DATA RECORDED ON INDIVIDUAL'S TRAINING RECORD			
DATE	NAME GRADE AND TITLE OF RECORDER	SIGNATURE	

17.

**PERSONNEL ATTENDING
CLASS
AND
EVALUATION GRADE**

NAME (Last, First, MI)	EVAL GR*	SIGNATURE OF ATTENDEE
KELLEY, Robert J.		<i>Robert J. Kelley</i>
Kane Jason W		<i>Jason W. Kane</i>
ROUBEN, JIM B.		<i>Jim B. Rouben</i>
HARRELL, Robert		<i>Robert Harrell</i>
Siciliano Thomas A.		<i>Thomas A. Siciliano</i>
FORBIONE Joseph		<i>Joseph Forbione</i>
Cataldo JOHN R.		<i>John R. Cataldo</i>
Craig John		<i>John Craig</i>
HUHN VIC		<i>Vic Huhn</i>
PALUMBO NICK		<i>Nick Palumbo</i>

EVALUATION LEGEND

- GRADE**
- 1 - FIREFIGHTER I NFPA 1001
 - 2 - FIREFIGHTER II NFPA 1001
 - 3 - FIREFIGHTER III NFPA 1001

- GRADE**
- 1 - FIRE INSPECTOR I NFPA 1031
 - 2 - FIRE INSPECTOR II NFPA 1031
 - 3 - FIRE INSPECTOR III NFPA 1031

*Evaluation grade to be recorded on Individual Training Evaluation Record, DA Form 0001-R.



DEPARTMENT OF THE ARMY
Headquarters
U.S. Army Communications - Electronics Command
and Fort Monmouth
Fort Monmouth, NJ 07703-5024

Reply to
Attention of:

AMSEL-SF-RE(LAB) (11-9f)

17 November 2003

MEMORANDUM FOR ATTN: SELFM-DPS-F, FORT MONMOUTH FIRE DEPARTMENT,
BUILDING 282, FORT MONMOUTH, NJ 07703

SUBJECT: Leak Test(s) of Radioactive Commodities

1. The result for subject test made on 12 November 2003 are provided below.

<u>Serial Number</u>	<u>Nomenclature</u>	<u>Microcuries</u>
D1829	APD2000	
Source	1	≤ LLD

2. LLD is the Estimated Lower Limit of Detection for the instrumentation used to analyze your leak tests. LLD = 5.41E-06 microcuries (Beta)

3. The results for subject leak test(s) are within the limits set forth in U.S. Nuclear Regulatory Commission licenses.

4. Our POC is Nicholas J. Antonelli, Health Physics Technician, New World Technology, Contractor, DSN 987-5370, Commercial (732) 427-5370.

5. CECOM Bottom Line: THE WARFIGHTER.

Stephen G. LaPoint
Director, Directorate for Safety

smiths

Smiths Detection

APD 2000[®]

USERS' MANUAL



November 2003