NOTE: All areas indicated in field notes are not required to be addressed during each inspection

INDUSTRIAL/ACADEMIC/RESEARCH INSPECTION FIELD NOTES
Region I

Inspection Report No. 95-001

License No. 29-01022-06-14
-10-01

Licensee (Name & Address):
Dept of The Army
Ft. Monmouth, NJ

Docket No. 030-05248
030-29741
030-09718
030-06989

Licensee Contact Joe Santarsiero

Telephone No. 908-427-3112

Last Amendment No. various

Date of Amendment _____

Priority: 2+3's
Program Code 0360, 3222, 3511

Date of Last Inspection 8/1993
Date of This Inspection ~~8/15/95~~ 8/9-11/95 and 8/15/95

Type of Inspection:
( ) Announced (✓) Unannounced
(✓) Routine ( ) Special
( ) Initial ( ) Reinspection

Next Inspection Date 8/98 ( ) Normal ( ) Reduced (✓) Extended

Summary of Findings and Action:

(✓) No violations cited, Clear 591 issued
( ) Violation(s), 591 issued
( ) Violation(s), Regional letter issued
( ) Followup on Previous Violations

Were non-cited violations identified during this inspection? ( ) Y (~~✓~~) N

Was proprietary information reviewed by or received by the inspector? ( ) Y (~~✓~~) N

Inspector: _____ (Signature) Date 8/18/95

Approved: _____ (Signature) Date 8/18/95

AA/88

1. INSPECTION HISTORY ( ) N/A - Initial inspection

A. Violations were identified during any of the last two inspections or two years, whichever is longer ( ) Y (✓) N

B. Response letter(s) or 591(s) dated _____

C. Open violations from previous inspections:

Requirement	Violation	Corrective Action Taken (Y/N)	Status Open/Closed

D. Explain any previous violation(s) not corrected or repeated ( ) N/A

2. ORGANIZATION AND SCOPE OF PROGRAM

A. Organizational Structure

Chief of Staff
↓
Steve Horne, Chief CECOM Safety Office
↓
* Joe Santisi, Div. Chief
↓
* Rich Lovell, Acting Branch Chief Staff Hp
↓
* 10 HP/Techs

William Hules - acting or Steve Horne

+ Individuals contacted during inspection
* Individuals present at exit meeting

1. Meets license requirements [L/C] (✓) Y ( ) N
2. Multiple authorized locations of use and/or laboratories Field site at Letterkenny (✓) Y ( ) N
   If yes, may use **ATTACHMENT A** as a guide for location(s) or lab(s) inspected and note lab numbers where violations are found. inspected in Chambersburg, PA ( ) N/A
3. Briefly describe scope of activities, including types and quantities of use involving byproduct material, frequency of use, staff size, etc.

-14 commodities license US wide + world wide: TM Lenses, Kr check sources, + calibrators Pu 239 + Sr 90 check sources
-06, -07, 10 at Ft. Monmouth
CECOM is a tenant at Ft. Monmouth + Evans area.
Sealed sources only - Pool irradiator currently being used.

B. Radiation Safety Committee required [L/C] (✓) Y ( ) N

1. RSC fulfills license requirements [L/C] (✓) Y ( ) N
2. Records maintained [L/C] (✓) Y ( ) N

Cs + Co irradiators used at Evans

UDM1 - Co 60 calibrator sources } used worldwide
or UDM1A - Cs 137
TMDE inspects not to exceed 18 months

/ req'd to be inspected. However if they possess a lot of either, then Army inspects any way.

4. **INTERNAL AUDI[illegible] REVIEWS OR INSPECTIONS**

A. Audits are required [L/C] (✓) Y ( ) N

B. Audits or inspections are conducted (✓) Y ( ) N

(1) Audits conducted by CECOM or TMDE

(2) Frequency at least every 18 months all installations inspected

C. Content and implementation of the radiation protection program reviewed annually by the licensee [20.1101(c)] (✓) Y ( ) N

D. Records maintained [20.2102] (✓) Y ( ) N

Audits are extremely thorough & include reports w/ identified deficiences & require response letter

5. **FACILITIES**

A. Facilities as described in license application [L/C] (✓) Y ( ) N

B. Describe any Self-contained dry-source-storage irradiators [Part 36] and/or survey instrument calibrators (model, radionuclide, activity, use, etc.) ( ) N/A

Pool irradiator currently being used. Doubly interlocked. Checked & surveyed monthly. Interlock

1. Maintenance of safety-related components performed by authorized persons [L/C] (✓) Y ( ) N
2. Access to keys and/or material controlled [20.1801, 1802, L/C] (✓) Y ( ) N
3. Access to high/very high radiation areas controlled [20.1601, 1602, L/C] (✓) Y ( ) N
4. Adequate protection of shield integrity, fire protection [L/C] (✓) Y ( ) N

Remarks: fire emergency response drills for irradiator are held annually.

6. **MATERIALS** - also see p. E-12 item 18

A. Isotope, chemical form, quantity and use as authorized [L/C] (✓) Y ( ) N

B. Licensed materials secured to prevent unauthorized removal or access [20.1801, 1802] (✓) Y ( ) N

C. Leak tests and Inventories [L/C] see attach inventory records

1. Performed as required ( ) N/A (✓) Y ( ) N
2. Adequate analysis methodology and sensitivity ( ) N/A (✓) Y ( ) N
3. Records maintained [L/C] (✓) Y ( ) N

Remarks: Main Storage area is at Letterkenny in Chambersburg, PA. - Rad Safety Program + secured storage location

Krypton sources attached to survey meters (called radiac devices) are required to be secured as stated

in TM + inspected.

UDM 1/1A, 2, + 6 are calibrators with Co, Cs, Sr-90, + Pu-239 + are required to be secured as stated in TM + inspected.

[Left margin:] H[illegible] in use not required were to be leak tested or inventoried. However once per year accountability for sources is sent to CECOM. Licensee does maintain receipt records.

[Right margin:] Thorium optical lenses are properly secured due to the devices that they are [illegible] Krypton - night [illegible] [illegible]

7. RADIATION SURVEY

A. Instruments and equipment:

1. Appropriate operable survey instrumentation possessed and readily accessible [L/C] (✓) Y ( ) N
2. Calibrated as required [20.1501, L/C] (✓) Y ( ) N
3. Calibration records maintained [20.2103(a)] (✓) Y ( ) N

B. Briefly describe area survey requirements [20.1501(a), L/C]:

monthly surveys conducted & rad levels documented
for thorium lenses, QA is done to see if there is chipping.

C. Performed as required [20.1501(a), L/C] (✓) Y ( ) N

1. Contamination found Sloney N/A ( ) Y ( ) N
2. Corrective action taken and documented ( ) Y ( ) N

D. Records maintained [20.2103, L/C] (✓) Y ( ) N

E. Protection of members of the public

1. Licensee made adequate surveys to demonstrate either (1) that the TEDE to the individual likely to receive the highest dose does not exceed 100 mrem in a year, or (2) that if an individual were continuously present in an unrestricted area, the external dose would not exceed 2 mrem in any hour and 50 mrem in a year [20.1301(a)(1), 1302(b)] (✓) Y ( ) N
2. Unrestricted area radiation levels do not exceed 2 mrem in any one hour [20.1301(a)(2)] (✓) Y ( ) N
3. Records maintained [20.2103, 2107] (✓) Y ( ) N

Remarks:

8. RADIOACTIVE WASTE ( ) N/A

A. Disposal ( ) N/A

1. Decay-in-storage (✓) N/A

a. Procedures approved [20.2001(a)(2), L/C] ( ) Y ( ) N
b. In accordance with [L/C] ( ) Y ( ) N
c. Labels removed or defaced [20.1904(b)] ( ) Y ( ) N

2. Special procedures performed as required [L/C] ( ) Y ( ) N
3. Liquid scintillation (LS) media and animal carcasses per [20.2005] ( ) N/A ( ) Y ( ) N
4. Improper/unauthorized disposals [20.2001] ( ) Y ( ) N
5. Records maintained [20.2103(a), 2108, L/C] ( ) Y ( ) N

b. Description of effluent monitoring program

1. Monitoring system hardware equipment adequate ( ) Y ( ) N
2. Equipment calibrated as appropriate ( ) Y ( ) N
3. Air samples/sampling technique (charcoal, HEPA, etc.) analyzed with appropriate equipment ( ) Y ( ) N

Remarks:

C. Waste Management ( ) N/A

1. Waste compacted [L/C] ( ) Y (✓) N
2. Storage area(s) ( ) N/A

a. Protection from elements and fire [L/C] (✓) Y ( ) N
b. Control of waste maintained [20.1801] (✓) Y ( ) N
c. Containers properly labeled and area properly posted [20.1902, 1904] (✓) Y ( ) N
d. Package integrity maintained [L/C] (✓) Y ( ) N

3. Packaging, Control and Tracking [App. F.III] [20.2006(d)]:

Note: The licensee's waste is likely to be Class A.

a. Not packaged for disposal in cardboard or fiberboard boxes [61.56(a)] (✓) Y ( ) N
b. Liquid wastes solidified, i.e., less than 1% freestanding liquid, and void spaces minimized [61.56(a), (b)] ( ) Y ( ) N N/A
c. Does not generate harmful vapors [61.56] ( ) Y ( ) N N/A
d. Structurally stable (will maintain its physical dimensions and form under expected disposal conditions) [61.56(b)] (✓) Y ( ) N
e. Packages properly labeled [App. F.III.A.2] (✓) Y ( ) N
f. Licensee conducts a QC program to ensure compliance with [61.55, 56] and includes management evaluation of audits [App. F.III.A.3] ( ) Y ( ) N N/A
g. Shipments not acknowledged within 20 days after transfer are investigated and reported [App. F.III.A.8] (✓) N/A ( ) Y ( ) N

4. Transfers to land disposal facilities ( ) N/A

a. Transferred to person specifically licensed to receive waste [30.41, 20.2001(b)] (✓) Y ( ) N
b. Each shipment accompanied by a manifest prepared as specified in Section I of Appendix F [20.2006(b), App. F.III.A.4] (✓) Y ( ) N
c. Manifests certified as specified in Section II of Appendix F [20.2006(c)] (✓) Y ( ) N

(including Krypton sources in Radiacsets)

All waste still goes to ACALA Army Chemical Armament Logistics Agency) who also maintains records. ECOM has access to these disposal records — See attached fax

D. Records of surveys and material accountability are maintained [20.2103, 2108] (✓) Y ( ) N

Remarks:

9. RECEIPT AND TRANSFER OF RADIOACTIVE MATERIAL

A. Describe how packages are received and by whom: ( ) N/A

Only one distribution center now located at Letterkenny in Chambersburg, PA. → ships to temporary job sites

B. Written package opening procedures established and followed [20.1906(e)] (✓) Y ( ) N

C. All incoming packages with DOT labels wiped, unless exempted (gases and special form) [20.1906(b)(1)] (✓) Y ( ) N

D. Incoming packages surveyed per [20.1906(b)(2)] (✓) Y ( ) N

E. Monitoring in (C) and (D) above, performed within time specified [20.1906(c)] (✓) Y ( ) N

F. Transfer(s) between licensees performed per [30.41] (✓) Y ( ) N

G. All sources surveyed before shipment and transfer [20.1501(a), 49 CFR 173.475(i), L/C] (✓) Y ( ) N

H. Records of surveys and receipt/transfer maintained [20.2103(a), 30.51] (✓) Y ( ) N

I. Transfers within licensee's authorized users or locations performed as required [L/C] ( ) N/A (✓) Y ( ) N

J. Arrangements made for packages containing quantities of radioactive material in excess of Type A quantity [20.1906(a)] ( ) Y ( ) N N/A

K. Package receipt/distribution activities evaluated for compliance with 20.1301 [20.1302] ( ) N/A (✓) Y ( ) N

Remarks:

10. TRANSPORTATION (10 CFR 71.5(a) and 49 CFR 170-189) ( ) N/A

A. Licensee shipments are:

( ) delivered to common carriers
( ) transported in licensee's own private vehicle
( ) both
( ) no shipments since last inspection

C. External Dosimetry ( ) N/A

1. Licensee monitors workers [20.1502(a), L/C] (✓) Y ( ) N
2. External exposures account for contributions from airborne activity [20.1203] (✓) N/A ( ) Y ( ) N
3. Supplier Army Frequency Q
4. Supplier is NVLAP-approved [20.1501(c)] (✓) Y ( ) N
5. Dosimeters exchanged at required frequency [L/C] (✓) Y ( ) N

D. Internal Dosimetry (✓) N/A

1. Licensee monitors workers [20.1502(b), L/C] ( ) Y ( ) N
2. Briefly describe licensee's program for monitoring and controlling internal exposures [20.1701, 1702, L/C]:

3. Air sampling performed ( ) Y ( ) N
4. Monitoring/controlling program implemented ( ) Y ( ) N
5. Respiratory protection equipment [20.1703, L/C] ( ) Y ( ) N

E. Reports ( ) N/A

1. Reviewed by RSO at each site Frequency upon receipt
2. Inspector reviewed personnel monitoring records for period 1994 to 1995
3. Prior dose determined for individuals likely to receive doses [20.2104] ( ) Y ( ) N N/A
4. Maximum exposures TEDE M Other
5. Maximum CDEs — Organs —
6. Maximum CEDE —
7. Licensee sums internal and external [20.1202] ( ) Y ( ) N N/A
8. TEDEs and TODEs within limits [20.1201] (✓) Y ( ) N
9. NRC Forms or equivalent [20.2104(d), 2106(c)]

   a. NRC-4 NI ( ) Y ( ) N Complete: ( ) Y ( ) N
   b. NRC-5 (✓) Y ( ) N Complete: (✓) Y ( ) N

10. Worker declared her pregnancy in writing during inspection period (review records) ( ) N/A NI ( ) Y ( ) N
    If yes, licensee in compliance with [20.1208] ( ) Y ( ) N
    and records maintained [20.2106(e)] ( ) Y ( ) N

F. Who performed PSEs at this facility (number of people involved and doses received) [20.1206, 2104, 2105, 2204] (✓) N/A

G. Records of exposures, surveys, monitoring, and evaluations maintained [20.2102, 2103, 2106, L/C] (✓) Y ( ) N

Remarks:

16. BULLETINS AND INFORMATION NOTICES

A. Bulletins, Information Notices, NMSS Newsletters, etc., received by the Licensee (✓) Y ( ) N

B. Licensee took appropriate action in response to Bulletins, Generic Letters, etc. (✓) Y ( ) N

Remarks:

17. SPECIAL LICENSE CONDITIONS OR ISSUES (✓) N/A

A. Special license conditions or issues to be reviewed:

B. Evaluation:

18. CONTINUATION OF REPORT ITEMS Addl info: (✓) N/A

TMFI lenses: 1 storage location at Anadston army Depot, Alabama
- no specific training required.
- the only users or those who have access to these lenses are those authorized to possess night vision devices in tanks - heavy security & contro

19. VIOLATIONS, NCVs, AND OTHER ISSUES (✓) N/A

Note: Briefly state (1) the requirement and (2) how and when the licensee violated the requirement. For non-cited violations, indicate why the violation was not cited.

20. DEBRIEF WITH LICENSING STAFF

Inspection findings discussed with licensing staff (✓) N/A ( ) Y ( ) N

Items discussed:

21. EPA REFERRAL FORM

EPA referral form for air effluents sent to appropriate EPA regional office per IP 87102 ( ) Y ( ) N (✓) N/A

these lenses do not have serial numbers. Thus current possession are those that are either fielded or stored in Alabama =

Facsimile Header Sheet

U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND SAFETY OFFICE

FROM: Richard J. Lovell
DATE: 15 August 1995
TIME: 7:40

TO: **Sheri Arredondo**

FAX # (610) 337-5269

#PAGES 10 plus this cover sheet

SUBJECT: Fort Monmouth, NJ NRC License 29-01022-14 Thorium disposal

Ms. Arredondo-

Provided at the following pages is a sample of 70 pages of disposal records which are being mailed to us. Upon receipt, these records will be transferred to your office as agreed last week.

If these faxed records sufficiently meet your needs, please contact us at (908) 532-9723, ext. '0' and leave a message with our operator. Otherwise the remaining records, when received, will be mailed to you.

If there are any questions please do not hesitate to contact us.

Sincerely,
Richard Lovell

RADIOLOGICAL ENGINEERING BRANCH

U.S. Army Communications Electronics Command
ATTN: AMSEL-SF-RER (R. Lovell)
Building 9045
Fort Monmouth, New Jersey 07703-5024

VOICE: (908) 427-3112 DSN: 987-3112
EXT: 6441
FAX: COM (908) 542-7161

P.01

AUG-14-95 MON 12:19

08/15/95 06:39 FAX 908F 7161 CECOM SAFETY OFC 002/011

BARNWELL WASTE MANAGEMENT FACILITY

Operated by CHEM-NUCLEAR SYSTEM, INC.
PO Box 726, Barnwell, South Carolina 29812
(803) 259-1781

RADIOACTIVE SHIPMENT MANIFEST FORM

(1) GENERATOR NAME CNSI
FACILITY DEFENSE CONSOLIDATION FACILITY
ADDRESS Hwy 64
CITY Snelling STATE SC ZIP CODE 29812
CONTACT RICHARD THATCHER PHONE (803) 259-1119
EMERGENCY RESPONSE CONTACT: CNSI SECURITY PHONE (803) 259-1000
(2) BILL TO: DEFENSE SERVICES CONTROLLER
CONTRACT/P.O. NO.

(3A) RADIOACTIVE WASTE TRANSPORTATON PERMIT NO. 0243-39-94-X

(4) USE THIS NUMBER ON ALL CONTINUATION PAGES — SHIPMENT I.D. NUMBER 0594-2780 — PAGE 1 OF 4

(3B) NUMBER OF GENERATORS 12

(5) CARRIER CN
TELEPHONE 8
SHIPMENT TYP
CASK IDENTIFIC
SHIPMENT NO.
LINER SERIAL N
DRIVER SIGNAT

(6) TOTAL FOR EACH CLASS NO. OF PACKAGES	WEIGHT (POUNDS)	PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	I.D. NUMBER	Reportable Quantity or Fissile Exempt
		Radioactive Material, excepted package - empty packaging, 7	UN2910	
		Radioactive Material, fissile, n.o.s., 7	UN2918	
6	31500	Radioactive Material, low specific activity, n.o.s., 7	UN2912	
7	3546	Radioactive Material, n.o.s., 7	UN2982	RQ
		Radioactive Material, excepted package, limited quantity of material, 7	UN2910	
		Radioactive Material, special form, n.o.s., 7	UN2974	
		Radioactive Material, excepted package - instruments or articles, 7	UN2910	
		Other (Specify)		

(7) SHIPMENT TOTALS

Disposal Volume (ft.³)	Total No. of Packages	ACTIVITY (10CFR20.311) Millicuries All Isotopes	Tritium	C-14	Tc-99
636.0	13	3618103.3	3617010	11.01	NP

(9) MINIMUM WASTE PACKAGE % FILL 95
(10) SOLIDIFICATION AGENT CNSI Cement
(11) NU OF

(12) WASTE DESCRIPTION IBA (meters, indicators, dials, devices, lamps, lenses, compasses, watches) DAW (paper, plastic, metal, wood, glass, soil, sand, cloth) Sealed check sources
(13) PHYSICAL FORM Solid, Gas
(14) CHEMICAL FORM Oxides, Tritium
(15) NAME AND % OF CHELATING AGENT(S)

(16 B) (X) Yes ( ) No This waste(s) must be disposed in South Carolina Department of Health and Environmental Control Approved Structural Overpack(s) to meet stability requirements.

(17) (✓) Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE. LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT.

(18) IMPORTANT: "This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Signature [signature]
Company CNSI Date 5/25/94

(19) "Certification is hereby made to the South Carolina Department o radioactive waste has been inspected in accordance with the requi amended, and the Nuclear Regulatory Commission's License No. Criteria within 48 hours prior to shipment, and further certification with all applicable laws, rules and regulations."

Date 5/25/94 Signature [signature]
Title and Organization Supervisor, CNSI
Telephone No. (803) 259-1119

CNSI USE ONLY

☐ This material meets all license requirements.
☐ This material was disposed of in accordance with license.
☐ Discrepancy.

Date

Crane ☐ Forklift ☐
Shielded ☐ Personnel Barrier ☐
Overpack S/N
Overpack Lid S/N
Other

Arrival Date
Date/Time Buried
Trench No. Locati
Waste Class Code
Trench No. Locati
Waste Class Code

I ADDRESS BARNWELL, SC

-259-1781 SHIPPING DATE 5/25/94

VAN SHIPMENT SURFACE EXPOSURE 23 mR/hr

ON NO. USA / NA /

F-199 LINER TYPE 60gal HIC's

4B4172-3; 483952-17, 18, 22, 25

Nancy n Biggs DATE 5-25-94

	Source (Pounds)	(8) TOTAL SNM		
		Isotope	Grams	No. Packages
-129		U-233	Ø	Ø
		U-235	19.5	3
IP	565.3	Total	19.5	3

5 60gal HIC's

R AND TYPE
ITAINERS 6 metal boxes, 2 drums

(16 A)
WASTE FORM CLASS
☒ AU ☐ AS ☒ B ☐ C

NONE

alth and Environmental Control that this shipment of low-level
nts of South Carolina Radioactive Material License No. 097 as
3536-01 as amended, and the effective Barnwell Site Disposal
ade that the inspection revealed no items of non-compliance

Form No. CNS-201
(7-93)
SEE INSTRUCTIONS ON REVERSE SIDE
FOR FILLING OUT THIS FORM

Arrival Survey No.

H.P Initial

ode

ode

08/15/95 08:40 FAX 9087 7161 CECOM SAFETY OFC 003/011

BARNWELL WASTE MANAGEMENT FACILITY
Operated by: CHEM-NUCLEAR SYSTEMS, INC.

CONTINUATION SHEET

USE T[illegible]
ALL C[illegible]
PAGE

BROKER NAME CHEM NUCLEAR SYSTEMS, INC.

20 a CONTAINER NUMBER	20 b PERMIT NUMBER	(21) RADIO-NUCLIDE EACH CONTAINER	(22) PERCENT OF ACTIVITY OR mCi OF EACH NUCLIDE	(23) ACTIVITY EACH CONTAINER (mCi)	(24) PHYSICAL FORM	(25) CHEMICAL FORM AND NAME & % OF CHELATING AGENT	(26) WASTE DESCRIPTION	(27) WASTE FORM CLASS	(28) SPECIAL NUCLEAR MATERIAL (grams)	(29) SOURCE MATERIAL (pounds)	DISPOSAL (30) CONTAINER WEIGHT (pounds)	(31) GENERATOR VOLUME (Cu. Ft.)	(32) CONTAIN TYPE
1889	NY07	RA226	1.355	1.355	Solid	OXIDES 0	METERS,INDICATORS,DIALS,DEVICES-METERS,INDICATORS,GAUGES	Au	NP	NP	340	7.50	Drum
1950	PA01	CO60	5.287E+02	5.287E+02	Solid	OXIDES 0	SEALED CHECK SOURCE ~~DAW(PLASTIC,METAL,GLASS)~~ ér	BS	NP	NP	800	7.50	Dr
2349	NC05	U235	1.959E-02	1.013E-01	Solid	OXIDES 0	DAW(PAPER,PLASTIC,METAL,WOOD)	Au	9.6350000	NP	7400	95.00	meta
		U238	8.175E-02		↓	OXIDES 0	DAW(PAPER,PLASTIC,METAL,WOOD)		NP	0.5400000			box
2350	NC05	U235	4.800E-03	2.830E-02	Solid	OXIDES 0	DAW(PAPER,PLASTIC,METAL,WOOD)	Au	2.4000000	NP	(5360) 836	15.00	meta
		U238	2.350E-02		↓	OXIDES 0	DAW(PAPER,PLASTIC,METAL,WOOD)		NP	0.1600000			box
	NC08	AG110	1.000	.530E+02	Solid	OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)	Au	NP	NP	4484	90.00	
		C14	1.101E+01			OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND) CONTAMINATED SOIL		NP	NP			
		CO60	2.015			OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)		NP	NP			
		CR51	2.423E+01			OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)		NP	NP			
		H3	1.604E+01			OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)		NP	NP			
		I125	2.87 E			OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)		NP	NP			
		P32	6.820E+01			OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)		NP	NP			
		P33	6.430E-01			OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)		NP	NP			
		S35	3.093E+01			OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)		NP	NP			
		ZN65	2.015		↓	OXIDES 0	DAW(GLASS,PAPER,PLASTIC,SAND)		NP	NP			
2355	AZ04	DU	9.976E+01	9.976E+01	Solid	OXIDES 0	CONTAMINATED SOIL DAW(PAPER,PLASTIC,METAL,WOOD)	Au	NP	439.3000000	5500	95.00	Box
5				~~?.809E+03~~ ?07			PAGE TOTALS		12.03500000	440.00000000	19640	320.00	

NUMBER ON
NUATION PAGES

SHIPMENT I.D. NUMBER
0594-2280

DCF-199

OF 4

AINER (33) RADIATION LEVELS CONTAINER SURFACE ~~mR/hr~~ R/HR	(T.I.) 1 METER mR/HR	(34) CONTAMINATION CONTAINER SURFACE (DPM/100cm2) alpha	beta/gamma	(35) FISSILE CLASS	(36) LABELS/ MARKINGS USED
~~2.00~~ 160.2	~~0.00~~ 0.7	<22	<200	N/A	Radioactive- YELLOW II
~~0.00~~ 60	~~0.00~~ 3.0	<22	<200	N/A	Radioactive- YELLOW III
~~0.00~~ 1.2	~~0.00~~ 0.5	<22	<200	EXEMPT N/A Pu	Radioactive- LSA
					Radioactive-
~~0.00~~ 0.1	~~0.00~~ 0.08	<22	<200	EXEMPT N/A Pu	Radioactive- LSA
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
~~0.00~~ 0.5	~~0.00~~ 0.1	<22	<200	N/A	Radioactive- LSA
	3.7 TOTAL				

BARNWELL WASTE MANAGEMENT FACILITY
Operated by: CHEM-NUCLEAR SYSTEMS, INC.
CONTINUATION SHEET

USE THI
ALL CO
PAGE

BROKER NAME CHEM NUCLEAR SYSTEMS, INC.

(20a) CONTAINER NUMBER	(20b) PERMIT NUMBER	(21) RADIO-NUCLIDE EACH CONTAINER	(22) PERCENT OF ACTIVITY OR mCI OF EACH NUCLIDE	(23) ACTIVITY EACH CONTAINER (mCi)	(24) PHYSICAL FORM	(25) CHEMICAL FORM AND NAME & % OF CHELATING AGENT	(26) WASTE DESCRIPTION	(27) WASTE FORM CLASS	(28) SPECIAL NUCLEAR MATERIAL (grams)	(29) SOURCE MATERIAL (pounds)	(30) CONTAINER WEIGHT (pounds)	(31) GENERATOR VOLUME (Cu. Ft.)	(32) CONTAINER TYPE
~~2385~~	~~NC06~~	~~U235~~	~~1.500E-02~~	~~0.620E-02~~		OXIDES 0	DAW(PAPER,PLASTIC,METAL,WOOD)		7.4900000	NP	5400	35.00	
		~~U238~~	~~8.020E-02~~			OXIDES 0	DAW(PAPER,PLASTIC,METAL,WOOD)		NP	0.5400000			
2388	N35	DU	1.088E+01	1.086E+01	SOLID	OXIDES 0	CONTAMINATED WOOD	AU	NP	66.4400000	2600	95.00	Box
2389	IN05	DU	9.360	9,360	SOLID	OXIDES 0	CONTAMINATED WOOD CONTAMINATED CLOTH	AU	NP	57.7700000	(4800) 3740	74.00	metal
	KY01	AM241	2.010E-06	4.523E-03	↓	OXIDES 0	DAW(PAPER,PLASTIC,GLASS,METAL,WOOD)		NP	NP	200	4.00	Box
		CO60	4.500E-08			OXIDES 0	DAW(PAPER,PLASTIC,GLASS,METAL,WOOD)		NP	NP			
		CS137	1.980E-02			OXIDES 0	DAW(PAPER,PLASTIC,GLASS,METAL,WOOD)		NP	NP			
		NI63	4.500E-03			OXIDES 0	DAW(PAPER,PLASTIC,GLASS,METAL,WOOD)		NP	NP			
		RA226	1.800E-06			OXIDES 0	DAW(PAPER,PLASTIC,GLASS,METAL,WOOD)		NP	NP			
		SR90	1.589E-07		↓	OXIDES 0	DAW(PAPER,PLASTIC,GLASS,METAL,WOOD)		NP	NP			
	KY04	CO57	4.000E-04	4.000E-04	SOLID	OXIDES 0	DAW(PAPER,PLASTIC,GLASS)		NP	NP	100	2.00	
	CC93	THNAT	2.551E-02	2.551E-02	SOLID	OXIDES 0	~~WINDOWS~~ DAW (GLASS metal)		NP	0.5200000	760	15.00	
2392	CC03	H3	1.088E+05	1.088E+05	GAS	TRITIUM 0	COMPASSES	BS	NP	NP	(455) 300	6.80	HIC
	TX19	H3	8.500E+05	8.500E+05	GAS	TRITIUM 0	LAMPS		NP	NP	156	3.40	
		THNAT	3.000E-04		SOLID	OXIDES 0	LENSES		NP	0.0030000			
2394	AL01	H3	8.000E+05	8.000E+05	GAS	TRITIUM 0	MUZZLE REFERENCE SENSORS	BS	NP	NP	(500) 150	2.50	HIC
	CC03	H3	1.483E+05	1.483E+05	GAS	OXIDES 0	COMPASSES		NP	NP	350	7.30	
4				~~1.008E+06~~			PAGE TOTALS		~~7.4900000~~ 0	~~125.2700000~~ 124.73	~~12956~~ 9555	~~245.40~~ 209.4	

JMBER ON
UATION PAGES

SHIPMENT I.D. NUMBER
0594-2780

(DCF-199)

OF 4

(33) RADIATION LEVELS: CONTAINER SURFACE mR/hr / mSv/hr	(33) RADIATION LEVELS: (1.1) 1 METER mR/hr / mSv/hr	(34) CONTAMINATION CONTAINER SURFACE (DPM/100cm2): alpha	(34) CONTAMINATION CONTAINER SURFACE (DPM/100cm2): beta/gamma	(35) FISSILE CLASS	(36) LABELS/ MARKINGS USED
					Radioactive-
0.00	0.00			N/A	
					Radioactive-
0.00 mR/hr 1.3	0.00 mR/hr 0.3	<22	<200	N/A FISSILE	Radioactive- LSA
0.00 mR/hr 0.1	0.00 mR/hr 0.08	<22	<200	N/A	Radioactive- LSA
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
					Radioactive-
0.00 mR/hr 1.3	0.00 mR/hr 0.1	<22	<200	N/A	Radioactive- YELLOW II
					Radioactive-
					Radioactive-
					Radioactive-
0.00 mR/hr 2.08	0.00 mR/hr 0.08	<22	<200	N/A	WHITE-I
					Radioactive-
	0.1				

BARNWELL WASTE MANAGEMENT FACILITY
Operated by: CHEM-NUCLEAR SYSTEMS, INC.
CONTINUATION SHEET

BROKER NAME CHEM NUCLEAR SYSTEMS, INC.

20a CONTAINER NUMBER	20b PERMIT NUMBER	(21) RADIO-NUCLIDE EACH CONTAINER	(22) PERCENT OF ACTIVITY OR mCi OF EACH NUCLIDE	(23) ACTIVITY EACH CONTAINER (mCi)	(24) PHYSICAL FORM	(25) CHEMICAL FORM AND NAME & % OF CHELATING AGENT	(26) WASTE DESCRIPTION	(27) WASTE FORM CLASS	(28) SPECIAL NUCLEAR MATERIAL (grams)	(29) SOURCE MATERIAL (pounds)	DISPOSAL (30) CONTAINER WEIGHT (pounds)	(31) GENERATOR VOLUME (Cu. Ft.)	(32) CONTAINER TYPE
2385	AL01	H3	2.000E+05	2.000E+05	GAS	TRITIUM 0	MUZZLE REFERENCE SENSORS	BS	NP	NP	(495) 45	1.00	HIC
	OC03	H3	1.863E+05	1.863E+05	GAS	~~GASEOUS~~ TRITIUM 0	COMPASSES		NP	NP	450	9.20	
2386	OC07	H3	1.521E+05	1.521E+05	GAS	~~GASEOUS~~ TRITIUM 0	COMPASSES	BS	NP	NP	(454) 380	9.00	HIC
	TX19	H3	7.011E+05	7.011E+05	GAS	TRITIUM 0	DIALS,POSTS,LAMPS		NP	NP	58	1.20	
2387	OC03	H3	1.906E+05	1.906E+05	GAS	TRITIUM 0	COMPASSES WATCHES	BS	NP	NP	(520) 450	9.20	HIC
	TX19	H3	2.788E+05	2.788E+05	GAS	TRITIUM 0	DIALS,POSTS,LAMPS		NP	NP	70	1.00	
2385	NC06	U235	0.015	0.0752	SOLID	OXIDES	DAW (PAPER, PLASTIC, METAL, WOOD)	AL	2.49		5400	35	BOX
		U238	0.0802		↓	↓	↓			0.54			
	SC09	U235	1E-4	2E-4	SOLID	OXIDES			0.001			60	
		U238	1E-4		↓	↓	↓			4E-4			
4				~~1.705E+05~~			PAGE TOTALS		7.5	0.54	1.0.21	1.32	

UMBER ON
JUATION PAGES

SHIPMENT I.D. NUMBER
0594-2780
(DCF-M9)

OF 4

INER (33) ADIATION LEVELS CONTAINER SURFACE mR/H R/HR	(33) (T.I.) METER mR/HR	(34) CONTAMINATION CONTAINER SURFACE (DPM/100cm2) alpha	beta/gamma	(35) FISSILE CLASS	(36) LABELS/ MARKINGS USED
~~0.00~~ ET 0.08	~~0.00~~ ET 0.08	<22	<200	N/A	Radioactive WHITE-I
					Radioactive
~~0.00~~ ET 0.3	~~0.00~~ ET 0.08	<22	<200	N/A	Radioactive WHITE-I
					Radioactive
~~0.00~~ ET 0.08	~~0.00~~ ET 0.08	<22	<200	N/A	Radioactive WHITE-I
					Radioactive
0.2	B	<22	<200	EXEMPT	Radioactive LSA
					Radioactive
					Radioactive
					Radioactive
					Radioactive
					Radioactive
					Radioactive
					Radioactive
					Radioactive
					Radioactive
					Radioactive
	NA				

GENERATOR VOLUME AND ACTIVITY FORM
(BROKER / PROCESSOR FORM)

SHIPPER: CHEM NUCLEAR SYSTEMS INC-OCF

WASTE GENERATOR CITY AND STATE	PERMIT NUMBER	WASTE DESCRIPTION & PERCENT	WASTE VOLUME (ft 3)	NUCLIDE	NUCLIDE ACTIVITY (mCi)	TOTAL ACTIVITY (mCi)	WASTE CLASS	TOTAL WEIGHT (lbs)	SPECIAL NUCLEAR MATERIAL (grms)	SHIP
ANNISTON ARMY DEPOT AL AL01 ANNISTON USA 98-93 47099 A0049	0132-00-94-E	MUZZLE REFERENCE SENSORS (I & A)	3.00	H3	1.000E+06	1.000E+06	BS	185	NP	NP
YUMA PROVING GROUNDS AZ AZ04 YUMA USA 12-94 47109 - A0056	0132-00-94-E	CONTAMINATED SOIL DAW(PAPER,PLASTIC,METAL,WOOD)	95.00	DU	9.875E+01	9.875E+01	A	5500	NP	
JEFFERSON PROVING GROUNDS IN IN05 MADISON USA 39-94 47114 A0063	0132-00-94-E	CONTAMINATED WOOD CONTAMINATED CLOTH	189.00	DU	2.022E+01	2.022E+01	A	6549	NP	
LEXINGTON BLUEGRASS DEPOT KY KY01 LEXINGTON USA 39-94 47114 A0063	0132-00-94-E	DAW(PAPER,PLASTIC,GLASS,METAL,WOOD)	4.00	AM241 CO60 CS137 NI63 RA226 SR90	2.31GE-05 4.50GE-09 1.96GE-09 4.50GE-09 1.80GE-08 1.55GE-07	4.523E-08	A	200	NP	NP
FT KNOX KY KY04 FT KNOX USA 39-94 47114 A0063	0132-00-94-E	DAW(PAPER,PLASTIC,GLASS)	2.00	CO57	4.000E-04	4.000E-04	A	100	NP	NP

T.I.D. NO. 0594-2780 (DCF-199)

PAGE 1 OF 4

E S	CONTAINER TYPE	WOG CODE (CNSI USE ONLY)
	HIC	
COO	metal box	
COO	metal box	
	metal box	
	metal box	

SCREEN: QU 19-1 TOTAL ASSET VISIBILITY DATE: 08/10/95
PAGE 001 OF 001 TOTAL ARMY ASSETS TIME: 10:29:47
LIN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4
NSN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG
DODAC: MGR: B16 SC: 7G TOT QTY O/H: 54630 TOT MRO QTY: 475

------MACOM------	QTY O/H	SUB IND	MRO IND	------MACOM------	QTY O/H	SUB IND	MRO IND
ARMY MATERIEL CMD	8044		*	SPECIAL OP CMD	1146	*	
ARMY NATIONAL GD	18772	*	*	TRG AND DOC CMD	951	*	*
CORPS OF ENG	0			US ARMY CENT CMD	41		
CRIMINAL INV CMD	0			US ARMY EUROPE	3796	*	*
EIGHTH US ARMY	1835	*		US ARMY PACIFIC	1856	*	*
FORCES CMD	13660	*	*	US ARMY RESERVES	4078	*	*
HEALTH SVCS CMD	0			US ARMY RWANDA	0		
INFO SYSTEMS CMD	69		*	US ARMY SOUTH	251		*
INTEL & SEC CMD	84		*	OTHER ACTIVE ARMY	0		
MEDICAL CMD	0			UNIDENTIFIED	0		
MIL DISTRICT WASH	47	*	*				
MIL TRFC MGT CMD	0	*					

*** SELECT MACOM WITH CURSOR AND PRESS ENTER ***
___ PAGE SEL-MENU PREV-SCR LOGOFF MAIN-MENU CTLG-SEL HELP

192.172.7.66 10:33:16

(1)

IN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O 1835
SN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: B16
ORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WA5TAA	KO	98F			A	A	3	0	
WBAAAA	KO	975			A	A	74	0	
WBAOAA	KO	977			A	A	12	0	
WBJ2AA	KO	975			A	A	5	0	
WBXFAA	KO	98Z			A	A	24	0	
WBXLAA	KO	99W			A	A	11	0	
WBXPAA	KO	98Z			A	A	38	0	
WBXYAA	KO	98Z			A	A	31	0	
WBX2AA	KO	99W			A	A	3	0	

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192.172.7.66 10:35:43

REEN: QU 5-1 TOTAL ASSET VISIBILITY DATE: 08/10/95
GE 005 OF 011 CLASS VII ASSETS TIME: 10:33:32

N: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
N: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: B16
RCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

NIT/ ON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WBYFAA	KO	98Z			A	A	38	0	
WB1WAA	KO	97V			A	A	2	0	
WB3XAA	KO	99L			A	A	1	0	
WB4JAA	KO	99M			A	A	18	0	
WB4JQ1	KO	97			A	A	3	0	
WB42AA	KO	99L			A	A	1	0	
WB44AA	KO	99L			A	A	1	0	
WB5CAA	KO	99L			A	A	1	0	
ACBRAA	KO	99U			A	A	7	0	

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REEN: QU 5-1 TOTAL ASSET VISIBILITY DATE: 08/10/95
GE 006 OF 011 CLASS VII ASSETS TIME: 10:33:40

N: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
N: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: B16
RCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

NIT/ IN-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
CCJAA	KO	99A			A	A	6	0	
CK3AA	KO	98U			A	A	4	0	
CK8AA	KO	99U			A	A	14	0	
CLYAA	KO	97R			A	A	2	0	
CNSAA	KO	99M			A	A	2	0	
CYMAA	KO	98X			A	A	4	0	
[illegible]	KO	98X			A	A	[illegible]	[illegible]	

FORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1[illegible]

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
BTE	K0		WKB	BTE	B	A	23	0	
BTE	K0		WKB	BTE	B	B	5	0	
BTE	K0		WKB	BTE	B	G	17	0	
WAH499	K0	979			A	A	7	0	
WAH5AA	K0	977			A	A	45	0	
WAH7AA	K0	977			A	A	74	0	
WAH8AA	K0	973			A	A	4	0	
WAJAAA	K0	976			A	A	13	0	
WAJBAA	K0	977			A	A	26	0	

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SCREEN: QU 5-1 TOTAL ASSET VISIBILITY DATE: 08/10/95
PAGE 002 OF 011 CLASS VII ASSETS TIME: 10:32:59

LIN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
NSN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: B16
FORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WAJDAA	K0	977			A	A	39	0	
WAJEAA	K0	977			A	A	38	0	
WAJFAA	K0	974			A	A	4	0	
WAJHAA	K0	975			A	A	42	0	
WAJJAA	K0	973			A	A	105	0	
WAJMAA	K0	978			A	A	44	0	
WAJPAA	K0	974			A	A	105	0	
WAJRAA	K0	976			A	A	9	0	
WAJVAA	K0	973			A	A	25	0	

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SCREEN: QU 5-1 TOTAL ASSET VISIBILITY DATE: 08/10/95
PAGE 003 OF 011 CLASS VII ASSETS TIME: 10:33:11

LIN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
NSN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: B16
FORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WAJWAA	K0	973			A	A	25	0	
WAJXAA	K0	976			A	A	77	0	*
WAJYAA	K0	977			A	A	108	0	
WALBAA	K0	974			A	A	137	0	*
WAWLAA	K0	976			A	A	48	3	
WAWYAA	K0	97V			A	A	14	0	
WAX4AA	K0	98L			A	A	2	0	
WAYGAA	K0	98X			A	A	4	0	

NSN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: [illegible]6
FORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: [illegible]5

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WDC1AA	KO	99Y			A	A	5	0	
WDE9AA	KO	980			A	A	3	0	
WDKGAA	KO	978			A	A	9	0	
WDKHAA	KO	97C			A	A	1	0	
WDKKAA	KO	974			A	A	6	0	
WDQLAA	KO	98L			A	A	2	0	
WDU5AA	KO	98X			A	A	8	0	
WDYAAA	KO	99U			A	A	14	0	
WD8LAA	KO	98L			A	A	2	0	

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SCREEN: QU 5-1 TOTAL ASSET VISIBILITY DATE: 08/10/95
PAGE 008 OF 011 CLASS VII ASSETS TIME: 10:34:04

LIN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
NSN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: 816
FORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WEH8AA	KO	99F			A	A	7	0	
WEMEAA	KO	99H			A	A	7	0	
WENGAA	KO	99H			A	A	3	0	
WENHAA	KO	99H			A	A	5	0	
WEPPAA	KO	97F			A	A	8	0	
WET2AA	KO	99L			A	A	3	0	
WET6AA	KO	99L			A	A	1	0	
WET7AA	KO	99L			A	A	1	0	
WE1NAA	KO	98F			A	A	6	0	

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SCREEN: QU 5-1 TOTAL ASSET VISIBILITY DATE: 08/10/95
PAGE 009 OF 011 CLASS VII ASSETS TIME: 10:34:14

LIN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
NSN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: 816
FORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WE7KAA	KO	99M			A	A	3	0	
WE7RAA	KO	99M			A	A	1	0	*
WE7YAA	KO	978			A	A	14	0	
WGAVAA	KO	99M			A	A	2	0	
WHMRAA	KO	976			A	A	13	0	
WHNVAA	KO	976			A	A	6	0	
WHN6AA	KO	99R			A	A	2	0	
WJNTAA	KO	98F			A	A	3	0	

IN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
SN: 5855-00-629-5334 NSN NOM NI VI AN/PVS-4 W/IMG MGR: B
ORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WHP6AA	KO	98F			A	A	3	0	
WHP8AA	KO	99M			A	A	3	0	
WHQ0AA	KO	977			A	A	24	0	
WHQPAA	KO	975			A	A	6	0	
WHUVAA	KO	99U			A	A	15	0	
WHU6AA	KO	99U			A	A	3	0	
WHZZAA	KO	97D			A	A	7	0	*
WH5NAA	KO	976			A	A	11	0	
WH7NAA	KO	976			A	A	56	0	

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CREEN: QU 5-1 TOTAL ASSET VISIBILITY DATE: 08/10/95
AGE 011 OF 011 CLASS VII ASSETS TIME: 10:34:35

IN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
SN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: B16
ORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY---- --O/H--	-MRO-	SUB IND
WH8NAA	KO	977			A	A	19	0	
WKB	KO	97	WKB		A	S	1	0	
WKB	KO	97	WKB	MR2	M	F	2	0	
W07PAA	KO	98K			A	A	1	0	*
W1ABAA	KO	976			A	A	46	0	

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*** LAST PAGE OF DATA ***
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CREEN: QU 5-5 TOTAL ASSET VISIBILITY DATE: 08/10/95
AGE 001 OF 011 CLASS VII ASSETS TIME: 10:35:03

IN: N04732 LIN NOMEN: NI VIS SIGHT AN/PVS-4 TOTAL LIN QTY O/H 1835
SN: 5855-00-629-5334 NSN NOMEN: NI VI AN/PVS-4 W/IMG MGR: B16
ORCE LEVEL: MACOM=8TH ARMY NSN QTY O/H: 1835

UNIT/ NON-UNIT	MACOM	INSTL CD	RIC	PROJ CD	O/P	COND CD	----QUANTITY----	SUB
BTE	#	PAGE 001 OF 001	--- BTE	DESCRIPTIVE DATA ---				#
LTC	#							#
BTE	#	UNIT-DESC: DEC STK						#
WAH499	#	HOME-LOC-CD:	ASGN-CD: P8	MACOM: EIGHTH US ARMY				#
WA-5AA	#	STA-CD: JA998	STA-NM: DP ZAMA	TPEN:				#
WAM7AA	#	INSTL-CD:	INSTL/ORG:					#
WAH8AA	#	TYPSVC:	SRC-NO:					#

L/N-4-5 DAN/PN-NVEO

AWARD/CONTRACT	1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)	RATING DO-A7	PAGE 1 OF PAGES 589
2. CONTRACT (Proc Inst Ident) NO. DAAB07-90-C-F101	3. EFFECTIVE DATE 90 MAR 23	4. REQUISITION/PURCHASE REQUEST PROJECT NO. SEE SCHEDULE B	

5. ISSUED BY CODE (W1SP7T)
US ARMY CECOM
NV/LASER BRANCH, PROC DIV #2
ATTN: AMSEL-PC-C-B-NV-1 (PON)
FORT MONMOUTH, NJ 07703-5000
PHONE: (201) 532-4602

6. ADMINISTERED BY (If other than Item 5) CODE (S4402A)
DCASMA, DALLAS
P.O. BOX 50500
DALLAS, TX 75250-5050
PAS: None

7. NAME AND ADDRESS OF CONTRACTOR (No., Street, city, country, State and ZIP Code)
VARO ELECTRON DEVICES
2203 W. WALNUT STREET
GARLAND, TX 75046

8. DELIVERY
(X) FOB ORIGIN ( ) OTHER (See below)

9. DISCOUNT FOR PROMPT PAYMENT
NET

10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN: ITEM

CODE 27777 FACILITY CODE

11. SHIP TO/MARK FOR CODE ( )
SEE SCHEDULE F.

12. PAYMENT WILL BE MADE BY CODE (S4403A)
DCASR DALLAS
1200 MAIN TOWER
DALLAS, TX 75202-4399

13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:
(X) 10 U.S.C. 2304(c)(3) ( ) 41 U.S.C. 253(c)( )

14. ACCOUNTING AND APPROPRIATION DATA
SEE SCHEDULE B.

15A. ITEM NO.	15B. SUPPLIES/SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
	Second GENERATION NIGHT VISION DEVICES	(SEE SCHED B)			

15G. TOTAL AMOUNT OF CONTRACT: $ 31,206,566.00

16. TABLE OF CONTENTS

(X)	SEC	DESCRIPTION	PAGE(S)	(X)	SEC	DESCRIPTION	PAGE(S)
		PART I - THE SCHEDULE				PART II - CONTRACT CLAUSES	
(X)	A	SOLICITATION/CONTRACT FORM		(X)	I	CONTRACT CLAUSES	
(X)	B	SUPPLIES OR SERVICES AND PRICES/COSTS				PART III-LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS	
(X)	C	DESCRIPTION/SPECS/WORK STATEMENT		(X)	J	LIST OF ATTACHMENTS	
(X)	D	PACKAGING AND MARKING				PART IV - REPRESENTATIONS AND INSTRUCTIONS	
(X)	E	INSPECTION AND ACCEPTANCE		( )	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	
(X)	F	DELIVERIES OR PERFORMANCE					
(X)	G	CONTRACT ADMINISTRATION DATA		( )	L	INSTRS., CONDS., AND NOTICES TO OFFERORS	
(X)	H	SPECIAL CONTRACT REQUIREMENTS		( )	M	EVALUATION FACTORS FOR AWARD	

CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE

17. (X) CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return one (1) copy to issuing office). Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)

18. ( ) AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents:(a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.

19A. NAME AND TITLE OF SIGNER (Type or Print)

20A. NAME OF CONTRACTING OFFICER
ELLIOTT D. HAWKINS, JR.

19B. NAME OF CONTRACTOR	19C. DATE SIGNED	20B. UNITED STATES OF AMERICA	20C. DATE SIGNED
BY _____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

PREVIOUS EDITION UNUSEABLE

STANDARD FORM 26 (REV. 3-7-85)

NAME OF OFFEROR OR CONTRACTOR

Varo Electron Devices

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	FIRST PROGRAM YEAR				
0001	NSN: 5855-00-629-5334) AN/PVS-4 INDIVIDUAL WEAPON SIGHT IAW SECTION C.65 SOW AND SECTION J, ATTACHMENTS 3 (MIL-N-49063C), 4 (MIL-L-49366A(CR)), 5 (MIL-L-49368(CR) AND ATTACHMENT 20, EXCEPTIONS TO DRAWINGS AND SPECIFICATIONS	(5855)			
0001AA	AN/PVS-4 PRESERVATION, PACKAGING AND MARKING IAW SUBSECTION D.5.1 DELIVERY: SEE SECTION F. INSP: S ACCPT: S FOB: S Document No.:W26AAN00810076 PWD: 750P007675CA APPR: 21 02035 05D5D04P5295 31AA S28043 ACRN: AA AMS-CD: 52953946 SHIP TO: W62G2R TRANSPORTATION OFFICER SACRAMENTO ARMY DEPOT SACRAMENTO, CA 95813-5037	5852	EA	$1839.00	$10,761,828.00
0001AB	AN/PVS-4 PRESERVATION, PACKAGING AND MARKING IAW SUBSECTION D.5.1 DELIVERY: SEE SECTION F INSP: S ACCPT: S FOB: S Document No: W26AAN00810066 PWD: 7503006675 APPR: 57 0 3080 1706308815997 0000000000000000503300 ACRN: AB AMS-CD: DC000000000 SHIP TO: FB2065 Warner Robbins Air Logistics Center Robbins Air Force Base Marietta, GA 31098	3	EA	$1839.00	$ 5,517.00

CONTINUATION SHEET | REFERENCE NO. OF DOCUMENT BEING CONTINUED: Contract DAAB07-90-C-F101 | PAGE 4 OF 589 PAGES

NAME OF OFFEROR OR CONTRACTOR: Varo Electron Devices

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	FIRST ARTICLE REQUIREMENT (INITIAL PRODUCTION SAMPLES) SECURITY CLASS: U. FULL IPT REQUIRED ON AN/PVS-4, PVS-4 95 MM OBJECTIVE LENS, AND PVS-4 EYEPIECE IAW ITEM FOR NEGOTIATION, EC-003-1, AND VARO PROPOSAL IN RESPONSE TO SOLICITATION DAAB007-89-R-F113. FIRST ARTICLE CONSISTS OF (SEE C.7), QUALITY ASSURANCE STATEMENT OF WORK, TABLE 1) MANUFACTURED IAW REQUIREMENTS CITED FOR CLIN 0001. APPROVED FIRST ARTICLE UNITS MUST BE DELIVERED AS PART OF THE PRODUCTION QUANTITY. SEE SUBSECTIONS C.11 AND C.17 FOR FIRST ARTICLE DISPOSITION. SEE SUB-SECTIONS C.6 AND I.20.1 FOR APPROVAL OF FIRST ARTICLE. SEE MILITARY SPECIFICATIONS MIL-N-49063C, MIL-L-49366A AND MIL-L-49368 FOR REQUIRED INSPECTIONS AND TEST. FIRST ARTICLE IS BROKEN DOWN INTO THREE CATEGORIES: FABRICATION, TEST PLAN AND TESTING AND TEST REPORT; AS SET FORTH IN SLINS 0002AA THRU 0002AC.				
0002AA	FABRICATION OF FIRST ARTICLE UNDER THIS SLIN, INCLUDE ALL CHARGES FOR LABOR AND MATERIALS AND ALL OTHER COSTS ALLOCABLE TO THE FABRICATION OF FIRST ARTICLE UNITS. FOR UNITS THAT WILL BE DELIVERED AS PART OF THE PRODUCTION QUANTITY ONLY INCLUDE COSTS OVER AND ABOVE THE COSTS COVERED BY CLIN 0001. INCLUDE COST OF REFURBISHMENT THAT MAY BE REQUIRED AFTER TESTING FOR ACCEPTANCE AS PRODUCTION QUANTITY. SEE SUBSECTION G.16 FOR PAYMENT PROCEDURES. SUBJECT TO ACCEPTANCE OF FIRST ARTICLE TEST REPORT. INSP: S ACCPT: S FOB.: S	1	LO	$ NSP	NSP

NAME OF OFFEROR OR CONTRACTOR

Varo Electron Devices

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002AB	FIRST ARTICLE INSPECTION PROCEDURE, INITIAL PRODUCTION TESTING PROCEDURES IAW DI-T -4901 AND DD FORM 1423. SECTION J, ATTACHMENT 1, SUBATTACHMENT 11, SEQUENCE 1102. INSP: D ACCPT: D FOB: D PACKAGING, PACKING AND MARKING IAW D.3	1	LO	$ NSP	$ NSP
0002AC	FIRST ARTICLE INSPECTION REPORT, INITIAL PRODUCTION TESTING REPORT IAW DI-T-4902 AND DD FORM 1423, SECTION J, ATTACHMENT 1, SUBATTACHMENT 11, SEQUENCE 1103. FIRST ARTICLE TEST REPORT IAW C.6 AND I.20-1. INSPECTION AND ACCEPTANCE TESTING EFFORT: SOURCE (SUBJECT TO APPROVAL OF FIRST ARTICLE TEST REPORT)-TEST REPORT: DESTINATION INSP: D ACCPT: D FOB: D PACKAGING, PACKING AND MARKING IAW D.3	1	LO	$ NSP	$ NSP
0003	WARRANTY FOR AN/PVS-4 INDIVIDUAL WEAPON SIGHT, CLIN 0001. REQUIREMENTS SET FORTH IN SLIN'S 0003AA AND 0003AB.				
0003AA	WARRANTY FOR AN/PVS-4 WARRANTY REQUIREMENTS ARE SET FORTH IN SECTION C.69 INSP: S ACCPT: S FOB: S	5,855	EA	$ NSP	$ NSP
0003AB	WARRANTY STATUS REPORT TECHNICAL DATA IAW OT-89-12338 AND DD FORM 1423, EXHIBIT C, SEQUENCE C001. INSP: D ACCPT: D FOB: D PACKAGING, PACKING AND MARKING IAW SUBSECTION D.3	1	LO	$ NSP	$ NSP

NAME OF OFFEROR OR CONTRACTOR

Varo Electron Devices

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	NSN: 5855-00-629-5334 AN/PVS-4 INDIVIDUAL WEAPON SIGHT 50% OPTION ON CLIN 0001 IAW SECTION C.65 SOW AND H.138 OPTION FOR INCREASED QUANTITY				
0004AA	AN/PVS-4 INSP: S ACCPT: S FOB: S PRESERVATION, PACKAGING AND MARKING IAW SUBSECTION D.5.1 DELIVERY WILL BE IAW SECTION H.138. THIS SLIN REMAINS UNDEFINITIZED UNTIL OPTION IS EXERCISED. IF EXERCISED, PRICE WILL BE * IAW VARO PROPOSAL IN RESPONSE TO SOLICITATION DAAB07-89-R-F113 INSP: S ACCPT: S FOB: S	2,928	EA.	$ U	$ U * $1837.00 ea. for qty 1 - 878 $1835.00 ea for qty 879-1757 $1833.00 ea for qty 1758-2635 $1824.00 ea for qty 2636-2928

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	Contract DAAB07-90-C-F101	25	579 PAGES

NAME OF OFFEROR OR CONTRACTOR

Varo Electron Devices

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECOND PROGRAM YEAR				
0035	NSN: 5855-00-5334 AN/PVS-4 INDIVIDUAL WEAPON SIGHT IAW C.65 SOW AND SECTION J, ATTACHMENTS 3 (MIL-N-49063C), 4 (MIL-L-49366A(CR)) 5 (MIL-L-49368(CR)) AND ATTACHMENT 20 EXCEPTIONS TO DRAWINGS AND SPECIFICATIONS.				
0035AA	AN/PVS-4 PRESERVATION, PACKAGING AND MARKING IAW SUBSECTION D.5.1. DELIVERY: SEE SECTION F INSP: S ACCPT: S FOB: S	5,727	EA.	$1,839.00	$10,531,953.0
0036	WARRANTY FOR AN/PVS-4 INDIVIDUAL WEAPON SIGHT, SLIN 0035AA. REQUIREMENTS SET FORTH IN SLINS 0036AA AND 0036AB..				
0036AA	WARRANTY FOR AN/PVS-4 WARRANTY REQUIREMENTS ARE SET FORTH IN SECTION C.69. INSP: S ACCPT: S FOB: S	5,727	EA.	$ NSP	$ NSP
0036AB	WARRANTY STATUS REPORT TECHNICAL DATA IAW OT-89-12338 AND DD FORM 1423, EXHIBIT C, SEQUENCE 0001. INSP: D ACCPT: D FOB: D PACKAGING, PACKING & MARKING IAW SUBSECTION D.3.	1	LO	$NSP	$NSP
0037	NSN: 5855-00-629-5334 AN/PVS-4 INDIVIDUAL WEAPON SIGHT 50% OPTION ON CLIN 0035 IAW SECTION C.64 SOW AND H.138 OPTION FOR INCREASED QUANTITY.				
0037AA	AN/PVS-4 PRESERVATION, PACKAGING AND MARKING IAW SUBSECTION D.5.1.	2,864	EA.	U	U

NAME OF OFFEROR OR CONTRACTOR: Varo Electron Devices

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0037AA (Cont)	DELIVERY WILL BE IAW SECTION H.138. THIS SLIN REMAINS UNDEFINITIZED UNTIL OPTION IS EXERCISED. IF EXERCISED, PRICE WILL BE * IAW VARO PROPOSAL IN RESPONSE TO SOLICITATION DAAB07-89-R-F113.			* $1837.00 ea for qty of 1 -859 $1835.00 ea for qty of 860-1718 $1833.00 ea for qty of 1719-2578 $1824.00 ea for qty of 2579-2864	
	INSP: S ACCPT: S FOB: S				
0038	WARRANTY FOR AN/PVS-4 INDIVIDUAL WEAPON SIGHT, OPTION QUANTITY, CLIN 0037. REQUIREMENTS SET FORTH IN SLINS 0038AA AND 0038AB.				
0038AA	WARRANTY FOR AN/PVS-4 WARRANTY REQUIREMENTS SET FORTH IN SECTION C.69.	2,864	EA.	U	U
	INSP: S ACCPT: S FOB: S				
	OPTION WARRANTY PRICE: NSP				
0038AB	WARRANTY STATUS REPORT, TECHNICAL DATA IAW OT-89-12338. AND DD FORM 1423, EXHIBIT C, SEQUENCE C001.	1	LO	$NSP	$NSP
	INSP: D ACCPT: D FOB: D PACKAGING, PACKING & MARKING IAW SUBSECTION D.3.				
0039	NSN: 5855-01-096-0872 AN/VVS-2(V)2A, DRIVER'S VIEWER IAW C.66 SOW AND SECTION J, ATTACHMENTS 10 (MIL-V-49082C(CR)), 11 (MIL-L-49148B(CR)), 12 (MIL-L-49147B(CR)), 13 (MIL-M-49361B(CR)), 14 (MIL-E-49149B(CR)), 15 (MIL-E-49150B(CR)), 16 (MIL-P-49151B(CR)) AND ATTACHMENT 20 EXCEPTIONS TO DRAWINGS.				
0039AA	AN/VVS-2(V)2A PRESERVATION, PACKAGING AND MARKING IAW SUBSECTION D.5.1.	616	EA.	$3,269.00	$2,013,704.00
	DELIVERY: SEE SECTION F				
	INSP: S ACCPT: S FOB: S				

CONTINUATION SHEET | Contract DAAB07-90-C-F101 | 36 | 57 PAGES

NAME OF OFFEROR OR CONTRACTOR

Varo Electron Devices

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	THIRD PROGRAM YEAR				
0064	NSN: 5855-00-629-5334 AN/PVS-4 INDIVIDUAL WEAPON SIGHT IAW C.65 SOW AND SECTION J, ATTACHMENT 3 (MIL-N-49063C) 4 (MIL-L-49366A(CR)) 5 (MIL-L-49368(CR)) AND ATTACHMENT 20, EXCEPTIONS TO DRAWINGS AND SPECIFICATIONS.				
0064AA	AN/PVS-4 PRESERVATION, PACKAGING AND MARKING IAW SUBSECTION D.5.1 DELIVERY: SEE SECTION F INSP: S ACCPT: S FOB: S	10,269	EA.	$ 1,839.00	$18,884,691.00
0065	WARRANTY FOR AN/PVS-4 INDIVIDUAL WEAPON SIGHT. REQUIREMENTS SET FORTH IN SLINS 0065AA AND 0065AB				
0065AA	AN/PVS-4 WARRANTY REQUIREMENTS ARE SET FORTH IN SECTION C.69 INSP: S ACCPT: S FOB: S	10,269	EA.	$NSP	$NSP
0065AB	WARRANTY STATUS REPORT TECHNICAL DATA IAW OT-89-12338 AND DD FORM 1423, EXHIBIT C, SEQUENCE CODE. INSP: D ACCPT: D FOB: D PACKAGING, PACKING & MARKING IAW SUBSECTION D.3.	1	LO	$NSP	$NSP
0066	NSN: 5855-00-629-5334 AN/PVS-4, INDIVIDUAL WEAPON SIGHT 50% OPTION ON CLIN 0064 IAW SECTION C.64 SOW AND H.138 OPTION FOR INCREASED QUANTITY.				

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0066AA	AN/PVS-4 PRESERVATION, PACKAGING AND MARKING IAW SUBSECTION D.5.1 INSP: S ACCPT: S FOB: S DELIVERY WILL BE IN ACCORDANCE WITH SECTION H.138. THIS SLIN REMAINS UNDEFINITIZED UNTIL OPTION IS EXERCISED. IF EXERCISED PRICE WILL BE * IAW VARO PROPOSAL IN RESPONSE TO SOLICITATION DAAB07-89-R-F113.	5,135	EA.	U * $1837.00 ea for qty of 1 - 1541 $1835.00 ea for qty of 1542-3081 $1833.00 ea for qty of 3082-4622 $1824.00 ea for qty of 4623-5135	U
0067	WARRANTY FOR AN/PVS-4, DRIVER'S VIEWER, OPTION QUANTITY, SLIN 0066AA REQUIREMENTS ARE SET FORTH IN SLINS 0067AA AND 0067AB				
0067AA	WARRANTY FOR AN/PVS-4 WARRANTY REQUIREMENTS ARE SET FORTH IN SECTION C.69 INSP: S ACCPT: S FOB: S WARRANTY OPTION: NSP	5,135	EA.	U	U
0067AB	WARRANTY STATUS REPORT, TECHNICAL DATA IAW OT-89-12338 AND DD FORM 1423, EXHIBIT C, SEQUENCE CDG1. INSP: D ACCPT: D FOB: D PACKAGING, PACKING & MARKING IAW SUBSECTION D.3.	1	LO	$NSP	$NSP
0068	NSN: 5855-01-096-0872 AN/VVS-2(V)2A, DRIVER'S VIEWER IAW C.66 SOW AND SECTION J, ATTACHMENT 10 (MIL-V-49082C(CR)), 11 (MIL-L-49148B(CR)), 12 (MIL-L-49147B(CR)), 13 (MIL-M-49361B(CR)), 14 (MIL-E-49149B(CR)), 15 (MIL-E-49150B(CR)), 16 (MIL-P-49151B(CR)) AND ATTACHMENT 20, EXCEPTIONS TO DRAWINGS AND SPECIFICATIONS				

Th 232

NVS
FGD
SOURCES

National Stock Number

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5855010616751		DT 594 /UA		TH232	7.40E 1	B16
5855010616751		NTN		TH232	7.40E 1	B64
5855010623115		NTN		TH232	7.40E 3	B16
5855010623116		NTN		TH232	1.48E 3	B16
5855010623117		NTN		TH232	1.48E 3	B16
5855010623121		NTN		TH232	1.11E 2	B16
5855010623124		NTN		TH232	1.48E 2	B16
5855010623126	5855010616751	NTN	DT594/UA	TH232	7.40E 1	B16
5855010631347		NTN		TH232	1.85E 3	B16
5855010631393		NTN		TH232	3.70E 3	B14
5855010677741		NTN		TH232	2.22E 2	B64
5855010677772		NTN		TH232	2.22E 2	B64
5855010677802		NTN		TH232	1.11E 3	B64
5855010703805		NTN		TH232	1.48E 2	B64
5855010709552		SU108/TAS		TH232	4.07E 2	B64
5855010709552	5855010308595	SU108/TAS	DT591UA	TH232	3.70E 1	B16
5855010709552	5855010308601	SU108/TAS	SU97/UA	TH232	3.70E 2	B16
5855010709552	5855010308601	SU108TAS	SU97UA	TH232	3.70E 2	B64
5855010748961		NTN		TH232	1.11E 3	B14
5855010823679		NTN		TH232	3.70E 3	B14
5855010823685		NTN		TH232	1.07E 3	B16
5855010823685	14300119023O4	NTN		TH232	4.07E 2	S9G
5855010823685	14300119116G9	NTN		TH232	4.44E 2	B64
5855010823685	UNKNOWN	NTN		TH232	2.22E 2	S9G
5855010823685A		SU121/UA		TH232	1.07E 3	B16
5855010823685B		NTN		TH232	7.40E 2	B64
5855010839051		ANUAS 11		TH232	2.11E 3	B64
5855010839051	5855010298730	NTN		TH232	2.22E 2	B64
5855010839051	5855010377340	NTN	ANTAS 6	TH232	1.89E 3	B64
5855010839052		ANUAS 11 V2		TH232	2.11E 3	B64
5855010839052	585010377340	NTN	ANTAS 6	TH232	1.89E 3	B64
5855010839052	5855010298730	ANUAS 11 V2	SU93/TAS	TH232	2.22E 2	B64
5855010839052	5855010308596	ANUAS 11 V2	SU95/TAS6	TH232	1.48E 3	B64
5855010839052	5855010709552	ANUAS 11 V2	SU108/TAS	TH232	4.07E 2	B64
5855010839053		ANUAS 12		TH232	2.11E 3	B64

5855010839053	5855010298730	NTN	SU93/TAS	TH232	2.22E 2	B64
5855010839053	5855010377339	A70349	ANTAS 4	TH232	1.89E 3	B64
5855010933080		NTN		TH232	3.70E 3	UNK
5855011091807		DT 617 /UA		TH232	7.40E 1	B16
5855011096433		SU 93ATAS		TH232	2.22E 2	B64
5855011109558		SU 95		TH232	1.48E 3	B64
5855011109558	5855010677802	SU 95		TH232	1.11E 3	B64
5855011109558	5855011474784	SU 95		TH232	3.70E 2	B64
5855011113962		NTN		TH232	1.48E 3	B64
5855011127723		NTN		TH232	1.48E 3	B64
5855011127725		NTN		TH232	4.07E 2	B64
5855011127725	5855010308595	NTN	DT591UA	TH232	3.70E 2	B64
5855011127725	5855010308601	NTN	SU97UA	TH232	3.70E 1	B64
5855011182227		SU 94BTAS		TH232	1.48E 3	B64
5855011182227		SU 94BTAS		TH232	2.59E 3	B64
5855011182227	5855010677802	SU 94BTAS		TH232	1.11E 3	B64
5855011299760		NTN		TH232	3.70E 2	B64
5855011346733	5855011091807	NTN	DT617/UA	TH232	7.40E 1	B16
5855011433182		SU108ATAS		TH232	4.07E 2	B64
5855011433182	5855011299760	SU108ATAS	SU97AUA	TH232	3.70E 2	B64
5855011433182	5855011729992	SU108ATAS		TH232	3.70E 1	B64
5855011433183		ANTAS 4A		TH232	1.89E 3	B64
5855011433183	5855011096433	ANTAS 4A	SU93A/TAS	TH232	2.22E 2	B64
5855011433183	5855011433182	ANTAS 4A	SU108/TAS	TH232	4.07E 2	B64
5855011433183	5855011439390	ANTAS 4A	SU94/TAS	TH232	1.48E 3	B64
5855011439390		SU 94DTAS		TH232	1.48E 3	B64
5855011439390	5855010677802	SU 94DTAS		TH232	1.11E 3	B64
5855011439390	5855011474782	SU 94DTAS		TH232	3.70E 2	B64
5855011474784		NTN		TH232	3.70E 2	B64
5855011474784	5855010677741	NTN		TH232	2.22E 2	B64
5855011474784	5855010703805	NTN		TH232	1.48E 2	B64
5855011528781		ANUAS 12A		TH232	2.11E 3	B64
5855011528781	5855011096433	ANUAS 12A		TH232	2.22E 2	B64
5855011528781	5855011433183	ANUAS 12A	ANTAS 4A	TH232	1.89E 3	B64
5855011541402		ANTAS 4B		TH232	1.89E 3	B64
5855011541402	5855011099643	ANTAS 4B	SU93A/TAS	TH232	2.22E 2	B64
5855011541402	5855011433182	ANTAS 4B	SU108/TAS	TH232	4.07E 2	B64
5855011541402	5855011439390	ANTAS 4B	SU94/TAS	TH232	1.48E 3	B64
5855011729992		DT 591A/UA		TH232	3.70E 1	B16
5855011729992		DT 591 /UA		TH232	3.70E 1	B16
5855011730808		ANUAS 12B		TH232	2.11E 3	B64
5855011730808	5855011096433	ANUAS 12B	SU93A/TAS	TH232	2.22E 2	B64
5855011730808	5855011541402	ANUAS 12B	ANTAS4B	TH232	1.89E 3	B64
5855012100503		DT 617A/UA		TH232	7.40E 1	B16
5855012124996		ANUAS 12D		TH232	2.11E 3	B64
5855012124996	5855011096433	ANUAS 12D	SU93/TAS	TH232	2.22E 2	B64
5855012124996	5855012181646	ANUAS 12D	ANTAS 4D	TH232	1.89E 3	B64
5855012124997		ANUAS 12C		TH232	2.11E 3	B64
5855012124997	5855011096433	ANUAS 12C		TH232	2.22E 2	B64
5855012124997	5855012186992	ANUAS 12C	ANTAS4C	TH232	1.89E 3	B64
5855012181646		ANTAS 4D		TH232	1.89E 3	B64

5855012181646	5855012102995	ANTAS	4D	SU108/TAS	TH232	4.07E 2	B64
5855012181646	5855012408783	ANTAS	4D	SU94/TAS	TH232	1.48E 3	B64
5855012186992		ANTAS	4C		TH232	1.89E 3	B64
5855012186992	5855011096433	ANTAS	4C	SU93A/TAS	TH232	2.22E 2	B64
5855012186992	5855011433183	ANTAS	4C	SU108/TAS	TH232	4.07E 2	B64
5855012186992	5855011439390	ANTAS	4C	SU93/TAS	TH232	1.48E 3	B64
5855012444976		NTN			TH232	2.11E 3	B64
5855012449785		ANUAS	11A		TH232	2.11E 3	B64
5855012449785	5855010298730	NTN			TH232	2.22E 2	B64
5855012449785	5855012444976	NTN		ANTAS 6A	TH232	1.89E 3	B64
5855012458689	5855012502343	ANUAS	12A	ANTAS4A	TH232	2.11E 3	B64
5855012485722		NTN			TH232	1.48E 3	UNK
5855012485724		NTN			TH232	2.22E 2	UNK
5855012502343		ANTAS	4A		TH232	2.11E 3	B64
5855012502343		NTN			TH232	2.11E 3	B64
5855012502343	5855011096433	ANTAS	4A	SU93A/TAS	TH232	2.22E 2	B64
5855012502343	5855011433182	ANTAS	4A	SU108ATAS	TH232	4.07E 2	B64
5855012502343	5855011439390	ANTAS	4A	SU94D/TAS	TH232	1.48E 3	B64
5855012525423		NTN			TH232	7.40E 1	UNK
5855012819699		ANTAS	4C		TH232	2.11E 3	B64
5855012819699	5855012485720	ANTAS	4C	SU108/TAS	TH232	4.07E 2	B64
5855012819699	5855012485722	ANTAS	4C	SU94/TAS	TH232	1.48E 3	B64
5855012819700		ANUAS	12C		TH232	2.11E 3	B64
5855012819700	5855012485724	ANUAS	12C	SU93A/TAS	TH232	2.22E 2	B64
5855012819700	5855012819699	ANUAS	12C	ANTAS 4C	TH232	1.89E 3	B64
5855012819700	5855012894650	ANTAS	4C	SU108/TAS	TH232	4.07E 2	B64
5855012911126		NTN			TH232	7.40E 1	B16
5855013008215		ANTAS	4C		TH232	1.89E 3	B64
5855013008215	5855013074517	ANTAS	4C	SU108/TAS	TH232	4.07E 2	B64
5855013008215	5855013074519	ANTAS	4C	SU94/TAS	TH232	1.48E 3	B64
5855013010158		ANUAS	12C		TH232	2.11E 3	B64
5855013010158	5855011096433	ANUAS	12C	SU93/TAS	TH232	2.22E 2	B64
5855013010158	5855013008215	ANUAS	12C	ANTAS 4C	TH232	1.89E 3	B64
5855013062056		NTN			TH232	7.40E 3	B17
5855013062056	1240011700860	NTN			TH232	1.59E 2	B17
5855013062056	1270011716199	NTN			TH232	5.55E 3	B17
5855013062056	5855012014857	NTN			TH232	5.92E 2	B17
5855013062056	6650001718538	NTN			TH232	3.33E 1	B17
5855013062056	6650011716908	NTN			TH232	1.26E 2	B17
5855013062056	6650011716909	NTN			TH232	1.18E 2	B17
5855013062056	6650011718539	NTN			TH232	1.04E 2	B17
5855013062056	6650011722212	NTN			TH232	2.48E 2	B17
5855013062056	6650011727864	NTN			TH232	4.81E 2	B17
5855013062056	6760011700861	NTN			TH232	7.03E 1	B17
5855013065655		NTN			TH232	4.07E 3	B17
5855013065655	1240011700860	NTN			TH232	1.59E 2	B17
5855013065655	1270011716199	NTN			TH232	5.55E 3	B17
5855013065655	6650011716908	NTN			TH232	1.26E 2	B17
5855013065655	6650011716909	NTN			TH232	1.18E 2	B17
5855013065655	6650011718538	NTN			TH232	3.33E 1	B17
5855013065655	6650011718539	NTN			TH232	1.04E 2	B17

5855013065655	6650011722212	NTN		TH232	2.48E 2	B17
5855013065655	6650011727864	NTN		TH232	4.81E 2	B17
5855013065655	6760011700861	NTN		TH232	7.03E 1	B17
5865010764101		NTN		TH232	2.96E 2	B16
5865010764102		NTN		TH232	2.96E 2	B16
5865010776320	5865010764102	ANALQ147A V1	MD1074	TH232	2.96E 2	B16
5865010776321	5865010764101	ANALQ147A V2		TH232	2.96E 2	B16
5985012795321		DT616/ANVDR2		TH232	3.70E 1	B16
6260001700430		NTN		TH232	1.55E 2	B16
6260002704060		NTN		TH232	1.55E 2	B16
6650010623116		NTN		TH232	0.00E 0	B14
6650010623117		NTN		TH232	0.00E 0	B14
6650010623122		NTN		TH232	2.96E 2	B14
6650010623124		NTN		TH232	0.00E 0	B14
6650010787713		NTN		TH232	0.00E 0	B14
6650010787714		NTN		TH232	0.00E 0	B14
6650010787715		NTN		TH232	0.00E 0	B14
6650010787716		NTN		TH232	0.00E 0	B14
6650011555216		NTN		TH232	2.22E 2	B64
6650011774247		NTN		TH232	1.63E 3	B64
6650011774247		NTN		TH232	1.63E 3	B64
6665002118695		ANPDR 56F		TH232	8.70E 3	B16
6665005421587		ANPDR 60	CS12	TH232	4.44E 4	B16
6665008029126		CS 12		TH232	3.70E 2	B16
6665009651516	6665008029126	ANPDR 60	CS12	TH232	3.70E 2	B16
6665011139530		ANPDR 56F		TH232	8.70E 3	B16
6665012221425		ANVDR 2		TH232	3.70E 1	B16
6665012221425	5985012795321	ANVDR 2	DT616/VDR	TH232	3.70E 1	B16
6720006644007	6760008638661	KE-4	LA-131A	TH232	1.04E 4	B16
6760000873737		LA-372A		TH232	1.04E 4	B16
6760007535152	6760008638661	KA-30A	LA-131A1	TH232	1.04E 4	B16
6760008638661		LA-131A1		TH232	1.04E 4	B16
6760011625258		NTN		TH232	2.59E 2	B64
6760011700860		NTN		TH232	1.59E 2	B64

```
NSN:    6665-00-543-1435  NSN NOMEN: RADIAC ST AN/PDR-27 J  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                          NSN QTY O/H:       4

UNIT/      MACOM  INSTL   RIC   PROJ   O/P   COND   ----QUANTITY----    SUB
NON-UNIT ##################################################################
 WAWYAA  #  PAGE  001 OF 001   --- WB1WAA DESCRIPTIVE DATA ---             #
 WB1WAA  #                                                                 #
         #    UNIT-DESC: 0003/00  CS CO MNT PATRIOT                        #
         #    HOME-LOC-CD: KS   ASGN-CD: PS  MACOM: EIGHTH US ARMY         #
         #    STA-CD: KS789  STA-NM: SUWON        TPSN: 31163              #
         #    INSTL-CD: 97V   INSTL/ORG: 1ST BN 43RD ADA & 3RD MAINT CO    #
         #    TYPSRC: 1   SRC-NO: 43607L000100                             #
         #                                                                 #
         #                                                                 #
         ###################################################################

                        DODAAC(S)      EXIT-WINDOW

                                         192.172.7.66  14:43:04

CREEN: QU 5-5               TOTAL ASSET VISIBILITY
AGE 003 OF 006                 CLASS VII ASSETS                DATE: 08/09/95
                                                               TIME: 14:42:02

IN:    Q19339  LIN NOMEN: RADIAC SET AN/PDR-27     TOTAL LIN QTY O/H        15
SN:    6665-00-856-3456  NSN NOMEN: RADIAC ST AN/PDR-27 L  MGR: B16
ORCE LEVEL: MACOM=8TH ARMY                          NSN QTY O/H:       0

NIT/     MACOM  INSTL   RIC   PROJ   O/P   COND   ----QUANTITY----    SUB
ON-UNIT ##################################################################
WCBR02  #  PAGE  001 OF 001   --- WCBR02 DESCRIPTIVE DATA ---             #
        #                                                                 #
        #    UNIT-DESC: 0175/00  CS CO STK REC AC                         #
        #    HOME-LOC-CD: KS   ASGN-CD: PS  MACOM: EIGHTH US ARMY         #
        #    STA-CD: KS208  STA-NM: CP HUMPRY    TPSN: 32008              #
        #    INSTL-CD: 97    INSTL/ORG: KOREA (MANUAL)                    #
        #    TYPSRC: 1   SRC-NO:                                          #
        #                                                                 #
        #                                                                 #
        ###################################################################

                        DODAAC(S)      EXIT-WINDOW

                                         192.172.7.66  14:44:17

REEN: QU 5-5                TOTAL ASSET VISIBILITY
GE 004 OF 006                  CLASS VII ASSETS                DATE: 08/09/95
                                                               TIME: 14:42:29

N:    Q19339  LIN NOMEN: RADIAC SET AN/PDR-27     TOTAL LIN QTY O/H        15
N:    6665-00-761-0846  NSN NOMEN: RADIAC SET AN/PDR-27K  MGR: B16
RCE LEVEL: MACOM=8TH ARMY                           NSN QTY O/H:       /

IT/     MACOM  INSTL   RIC   PROJ   O/P   COND   ----QUANTITY----    SUB
N-UNIT ##################################################################
AJBAA  #  PAGE  001 OF 001   --- WAJBAA DESCRIPTIVE DATA ---             #
AJXAA  #                                                                 #
ATM99  #    UNIT-DESC: 0002/00  IN H-C SUPPORT CO                        #
AWYAA  #    HOME-LOC-CD: KS   ASGN-CD: PS  MACOM: EIGHTH US ARMY         #
-N699  #    STA-CD: KS041  STA-NM: CP CASEY     TPSN: 04002              #
J7PAA  #    INSTL-CD: 977   INSTL/ORG: DISCOM, 2ND INFANTRY DIV          #
       #    TYPSRC: 1   SRC-NO: 
```

```
NSN:    6665-00-961-0846   NSN NOMEN: RADIAC SET AN/PDR-27R  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                          NSN QTY O/H:        7

UNIT/      MACOM  INSTL   RIC    PROJ   O/P   COND   ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WAJBAA   #  PAGE  001 OF 001   --- WAJXAA DESCRIPTIVE DATA                 #
 WAJXAA   #                                                                 #
 WATM99   #    UNIT-DESC: 0122/00  SC BN HVY DIV                            #
 WAWYAA   #    HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY         #
 WHN699   #    STA-CD: KS041   STA-NM: CP CASEY    TPSN: 04002              #
 WO7PAA   #    INSTL-CD: 978    INSTL/ORG: DIV TRPS,2ND INFANTRY DIV        #
          #    TYPSRC: 1  SRC-NO: 11065L000200                              #
          #                                                                 #
          #                                                                 #
          ###################################################################

                       DODAAC(S)      EXIT-WINDOW

                                            192.172.7.66  14:44:54

SCREEN: QU 5-5                  TOTAL ASSET VISIBILITY           DATE: 08/09/95
PAGE 004 OF 006                    CLASS VII ASSETS              TIME: 14:42:52

LIN:    Q19339  LIN NOMEN: RADIAC SET AN/PDR-27    TOTAL LIN QTY O/H          15
NSN:    6665-00-961-0846  NSN NOMEN: RADIAC SET AN/PDR-27R  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                          NSN QTY O/H:        7

UNIT/      MACOM  INSTL   RIC    PROJ   O/P   COND   ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WAJBAA   #  PAGE  001 OF 001   --- WATM99 DESCRIPTIVE DATA ---             #
 WAJXAA   #                                                                 #
 WATM99   #    UNIT-DESC: 0175/00  HQ HHC ARMY AUG                          #
 WAWYAA   #    HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY         #
 WHN699   #    STA-CD: KS976  STA-NM: YONG SAN     TPSN: 32008              #
 WO7PAA   #    INSTL-CD: 98K    INSTL/ORG: HQ'S 8TH ARMY                    #
          #    TYPSRC: 2  SRC-NO: P8WATM9900                                #
          #                                                                 #
          #                                                                 #
          ###################################################################

                       DODAAC(S)      EXIT-WINDOW

                                            192.172.7.66  14:45:06

SCREEN: QU 5-5                  TOTAL ASSET VISIBILITY           DATE: 08/09/95
PAGE 004 OF 006                    CLASS VII ASSETS              TIME: 14:43:00

LIN:    Q19339  LIN NOMEN: RADIAC SET AN/PDR-27    TOTAL LIN QTY O/H          15
NSN:    6665-00-961-0846  NSN NOMEN: RADIAC SET AN/PDR-27R  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                          NSN QTY O/H:        7

UNIT/      MACOM  INSTL   RIC    PROJ   O/P   COND   ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WAJBAA   #  PAGE  001 OF 001   --- WAWYAA DESCRIPTIVE DATA ---             #
 WAJXAA   #                                                                 #
 WATM99   #    UNIT-DESC: 0043/01  BN PATRIOT (6 BTY)                       #
 WAWYAA   #    HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY         #
 WHN699   #    STA-CD: KS506  STA-NM: OSAN         TPSN: 20183              #
 WO7PAA   #    INSTL-CD: 97V   INSTL/ORG: 1ST BN 43RD ADA & 3RD MAINT CO    #
          #    TYPSRC: 1  SRC-NO: 44635L200200                              #
```

```
NSN:   6665-00-961-0846  NSN NOMEN: RADIAC SET AN/PDR-27R  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                          NSN QTY O/H:        7

UNIT/      MACOM  INSTL   RIC    PROJ   O/P   COND    ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WAJBAA  #  PAGE  001 OF 001   --- WHN699 DESCRIPTIVE DATA ---              #
 WAJXAA  #                                                                  #
 WATM99  #   UNIT-DESC: 0191/00  AV BN 04 CO A AUG                          #
 WAWYAA  #   HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY           #
 WHN699  #   STA-CD: KS660  STA-NM: SEOUL        TPSN: 30614                #
 W07PAA  #   INSTL-CD: 99R   INSTL/ORG: 4TH BN, 58TH AVN                    #
         #   TYPSRC: 2  SRC-NO: CZWHN69900                                  #
         #                                                                  #
         #                                                                  #
         ############################################################# #####

                    DODAAC(S)      EXIT-WINDOW


                                     192.172.7.66   14:45:43

SCREEN: QU 5-5              TOTAL ASSET VISIBILITY
PAGE 004 OF 006               CLASS VII ASSETS                 DATE: 08/09/95
                                                               TIME: 14:43:39

LIN:    Q19339  LIN NOMEN: RADIAC SET AN/PDR-27     TOTAL LIN QTY O/H      15
NSN:    6665-00-961-0846  NSN NOMEN: RADIAC SET AN/PDR-27R  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                          NSN QTY O/H:        7

UNIT/      MACOM  INSTL   RIC    PROJ   O/P   COND    ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WAJBAA  #  PAGE  001 OF 001   --- W07PAA DESCRIPTIVE DATA ---              #
 WAJXAA  #                                                                  #
 WATM99  #   UNIT-DESC: W07P/  8TH ARMY HONOR GD CO                         #
 WAWYAA  #   HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY           #
 WHN699  #   STA-CD: KS976  STA-NM: YONG SAN     TPSN: 56571                #
 W07PAA  #   INSTL-CD: 98K   INSTL/ORG: HQ'S 8TH ARMY                       #
         #   TYPSRC: 3  SRC-NO: P8W07PAA00                                  #
         #                                                                  #
         #                                                                  #
         ####################################################################

                    DODAAC(S)      EXIT-WINDOW


                                     192.172.7.66   14:45:54

SCREEN: QU 5-5              TOTAL ASSET VISIBILITY
PAGE 005 OF 006               CLASS VII ASSETS                 DATE: 08/09/95
                                                               TIME: 14:44:39

LIN:    Q19339  LIN NOMEN: RADIAC SET AN/PDR-27     TOTAL LIN QTY O/H      15
NSN:    6665-00-975-7222  NSN NOMEN: RADIAC ST AN/PDR-27 P  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                          NSN QTY O/H:        2

UNIT/      MACOM  INSTL   RIC    PROJ   O/P   COND    ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WDCT9D  #  PAGE  001 OF 001   --- WDCT9D DESCRIPTIVE DATA ---              #
 WDE999  #                                                                  #
 WHN699  #   UNIT-DESC: 0020/00  SPT GP HHC SKA SUP P                       #
         #   HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY           #
         #   STA-CD: KS054  STA-NM: CPCARROLL    TPSN: 32447                #
         #   INSTL-CD: 97    INSTL/ORG: KOREA (MANUAL)                      #
         #   TYPSRC: 1  SRC-NO:                                             #
```

```
UNIT/      MACOM  INSTL   RIC   PROJ   O/P   COND    ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WDCT9D   #  PAGE  001 OF 001   --- WDE999 DESCRIPTIVE DATA ---            #
 WDE999   #                                                                #
 WHNA99   #    UNIT-DESC: 0034/00  LG HHC AUG G                            #
          #    HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY        #
          #    STA-CD: KS199  STA-NM: HIALEAHCD   TPSN: 32447              #
          #    INSTL-CD: 98D   INSTL/ORG: 34TH SUPPORT GRP                 #
          #    TYPSRC: 2  SRC-NO: P8WDE99900                               #
          #                                                                #
          #                                                                #
          ##################################################################

                     DODAAC(S)      EXIT-WINDOW

                                          192.172.7.66   14:47:23

SCREEN: QU 5-5               TOTAL ASSET VISIBILITY              DATE: 08/09/95
PAGE 005 OF 006                CLASS VII ASSETS                  TIME: 14:45:20

LIN:    Q19339  LIN NOMEN: RADIAC SET AN/PDR-27     TOTAL LIN QTY O/H        15
NSN:    6665-00-975-7222  NSN NOMEN: RADIAC ST AN/PDR-27 P  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                        NSN QTY O/H:        2

UNIT/      MACOM  INSTL   RIC   PROJ   O/P   COND    ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WDCT9D   #  PAGE  001 OF 001   --- WHN699 DESCRIPTIVE DATA ---            #
 WDE999   #                                                                #
 WHN699   #    UNIT-DESC: 0191/00  AV BN 04 CO A AUG                       #
          #    HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY        #
          #    STA-CD: KS660  STA-NM: SEOUL        TPSN: 30614             #
          #    INSTL-CD: 99R   INSTL/ORG: 4TH BN, 58TH AVN                 #
          #    TYPSRC: 2  SRC-NO: C2WHN69900                               #
          #                                                                #
          #                                                                #
          ##################################################################

                     DODAAC(S)      EXIT-WINDOW

                                          192.172.7.66   14:47:35

SCREEN: QU 5-5               TOTAL ASSET VISIBILITY              DATE: 08/09/95
PAGE 006 OF 006                CLASS VII ASSETS                  TIME: 14:46:08

LIN:    Q19339  LIN NOMEN: RADIAC SET AN/PDR-27     TOTAL LIN QTY O/H        15
NSN:    6665-01-080-4418  NSN NOMEN: RADIAC SET AN/PDR-27S  MGR: B16
FORCE LEVEL: MACOM=8TH ARMY                        NSN QTY O/H:        0

UNIT/      MACOM  INSTL   RIC   PROJ   O/P   COND    ----QUANTITY----    SUB
NON-UNIT ####################################################################
 WAJBAA   #  PAGE  001 OF 001   --- WAJBAA DESCRIPTIVE DATA ---            #
          #                                                                #
          #    UNIT-DESC: 0002/00  IN HHC SUPPORT CO                       #
          #    HOME-LOC-CD: KS   ASGN-CD: P8  MACOM: EIGHTH US ARMY        #
          #    STA-CD: KS041  STA-NM: CP CASEY    TPSN: 04002              #
          #    INSTL-CD: 977   INSTL/ORG: DISCOM,  2ND INFANTRY DIV        #
          #    TYPSRC: 1  SRC-NO: 63C02L000200                             #
          #
```

NSN	NOUN	ISOTOPE	ACTIVITY
6665-00-767-7497	AN/UDM-6 CALIBRATOR	PU 239	1.4 [illegible] Ci

DESCRIPTION:
HALF LIFE 24,360 YRS C/C F TM 9-6665-203-10

SERIAL NUMBERS: A-
1007 1008 1012 1018 1023 1029 1030 1031 1033 1034 1036 1037 1042
1044 1050 1054 1055 1056 1058 1061 1069 1070 1079 1088 1090 1101
1102 1103 1104 1106 1117 1118 1135 1140 1143 1147 1148 1153 1157
1162 1163 1167 1170 1171 1176 1177 1183 1184 1188 1189 1192 1193
1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1207
1208 1209 1210 1213 1215 1216 1221 1222 1223 1231 1232 1233 1234
1235 1236 1237 1238 1240 1241 1242 1243 1244 1245 1246 1247 1248
1250 1251 1254 1255 1258 1259 1261 1262 1263 1266 1269 1270 1271
1272 1273 1274 1275 1277 1381 1503

QUANTITY:
111 EACH

* BOLD NUMBERS ARE IN CONDITION CODE D

NSN	NOUN	ISOTOPE	ACTIVITY
6665-01-084-7777	AN/UDM-7 CALIBRATOR	PU 239	50.2 UCi

DESCRIPTION:
HALF LIFE 24,360 YRS CC/F TM 11-6665-247-10

SERIAL NUMBERS: C-
1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
66 67 68 69 71 72 73 74 75 76 77 78 79 80 81 83
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115
116 117 118 119 121 122 123 124 125 126 127 128 129 130 131 132
133 134 135 136 137 138 139 141 142 144 145 146 147 148 149 150
151 152 153 154 155 156 157 158 159 160 161 162 163 165 166 167
168 169 170 171 172 173 174 175 177 178 179 180 181 182 183 184
185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200
201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216
217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232
233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248
249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264
265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280
281 282 283 284 285 286 287 288 289 290 291 293 294 295 296 297
298 299 300

QUANTITY:
291 EACH Storage for disposal

RADIOACTIVE SOURCE STORAGE BLDG 441
LETTERKENNY ARMY DEPOT
as of 18 Jan 95

NSN	NOUN	ISOTOPE	ACTIVITY
6665-00-669-0077	AN/UDM-1 CALIBRATOR	CO 60	10.7 Ci

DESCRIPTION:
HALF LIFE 5.26 YRS SEALED SOURCE CC/F TM 11-6665-217-15

SERIAL NUMBERS:
70 76 95 97 99 73

QUANTITY:
6 EACH

NSN	NOUN	ISOTOPE	ACTIVITY
6665-00-556-8825	AN/UDM-1A CALIBRATOR	CS 137	120 Ci

DESCRIPTION:
HALF LIFE 30 YRS SEALED SOURCE CC/F TM 11-6665-217-15

SERIAL NUMBERS:
D2 D5 D6 G10 BE2192 EC3128 B725

QUANTITY:
7 EACH

NSN	NOUN	ISOTOPE	ACTIVITY
6665-00-179-9037	AN/UDM-2 CALIBRATOR	SR 90	180 MCi

DESCRIPTION:
HALF LIFE 27.2 YRS SEALED SOURCE CC/F TM 11-6665-227-12

SERIAL NUMBERS:
017 018 021 022 024 026 032 033 034 035 040 042 044 047 049 051
053 055 059 060 061 067 069 071 072 073 078 079 081 082 083 086
088 090 091 092 094 098 099 100 103 111 113 119 123 125 137 146
153 156 157 159 168 175 181 183 187 191 198 203 206 207 208 212
223 227 231 236 249 260 262 266 279 282 284 285 288 291 295 296
298 302 303 305 308 312 327 329 330 331 334 335 343 344 351 353
355 359 363 366 367 370 371 380 381 385 389 391 397 399 401 402
403 407 410 415 420 425 426 427 430 431 435 442 443 444 445 446
447 449 454 456 458 462 463 467 468 474 484 486 490 492 497

SOURCE IN CASE:

SOURCE #	332	075	358
CASE #	448	349	011

EMPTY CASE:
#276 #354

MISSING PARTS:
#375

#381 (DUPLICATE S/N)

QUANTITY:
147 EA

* SERIAL NUMBERS IN BOLD WERE CALIBRATED THE FIRST WEEK OF DECEMBER 1994. (53 EA)

WIPPRF5	0
PRIRPO	MEYER, STEPHANIE CPT.
ALTRPO	PEIFFER, KEN CW3
ADDRESSEE	STATE SAFETY OFFICE
ADDRESS1	DEPT OF MILITARY AFFAIRS Building 9-68
ADDRESS2	ATTN: SAFETY OFFICE(MEYER)

EDIT ;<F:>;CALMASTE ;Rec: 565/1095 ;Ins ; Caps

ADDRESS2	ATTN: SAFETY OFFICE(MEYER)
CITY	ANNEVILLE
STATE	PA
ZIP	17003-5002
AVCOMPHONE	491-8895
COMPHONE	717-861-8895
PROPBKOFF	NG
DODAAC	W25KYC
TLDLOCCODE	JZP
LOCATION	
COMMANDLOC	
DATEOFINV	2 NOV 93, CW3 JOSEPH COLAQUORI

EDIT ;<F:>;CALMASTE ;Rec: 565/1095 ;Ins ; Caps

R 1700										
74	X-14	DIFFRACTOMETER	N/A	N/A	2700-2C201	ETDL,SLANE	U	N/A	062	MODEL:PH
ILLIPS PW1840										
75	X-15	INDUSTRIAL X-RAY UNIT	N/A	N/A	9401	EW/RSTA,KRONENBERG	U	N/A	87-02	MODEL:IS
OVOLT 320D										
83	X-16	ELECTRON BEAM LITHOGRAPHY	N/A	N/A	2700-4D130	ETDL,POLI	U	N/A	085	MODEL:EB
MF 10.5										
84	X-17	TEM, JEOL	N/A	N/A	2700-1B123	COLE	U	N/A	099	MODEL: J
EM-2010										
152	X-18	X-RAY,RAD MOBILE TO 299MA	N/A	N/A	1075	B7143T	U	N/A	N/A	MODEL: 4
6270954 GI										
153	X-19	X-RAY,RAD MOBILE TO 299MA	N/A	N/A	1075	C3874	U	N/A	N/A	MODEL: 4
6-329267GI										
154	X-20	X-RAY, RF, ABOVE 500 MA	N/A	N/A	1075	B6499	U	N/A	N/A	MODEL: M
PV60										
155	X-21	X-RAY,RADIO, ABOVE 500 MA	N/A	N/A	1075	B8350	U	N/A	N/A	MODEL: N
ONE GIVEN										
156	X-22	X-RAY, R/F ABOVE 500 MA	N/A	N/A	1075	B9076	U	N/A	N/A	MODEL: N
ONE GIVEN										
157	X-23	X-RAY, MAMMOGRAPHY	N/A	N/A	1075	C3940	U	N/A	N/A	MODEL: Z
FOODMR										
158	X-24	X-RAY, DENTAL INTRA-ORAL	N/A	N/A	814 ROOMF1	SN: 9200294	U	N/A	N/A	MODEL: O
RALIX 70										
159	X-25	X-RAY, DENTAL PANO STAT.	N/A	N/A	814 ROOMF1	SN: 2095J	U	N/A	N/A	MODEL: 2
480-750X										
160	X-26	X-RAY, DENTAL INTRA-ORAL	N/A	N/A	814 ROOMD2	SN: 08774 S02	U	N/A	N/A	MODEL: 5
337241X1341										

SERIALNUMB	9487
EQUIPMENT	AN/UDM-2
WIPSCH1	4
WIPSCH2	10
WIPSCH3	0
WIPSCH4	0
WIPSCH5	0
WIPPRF1	0
WIPPRF2	0
WIPPRF3	0
WIPPRF4	0
WIPPRF5	0
PRIRPO	ROLAND, MARK
ALTRPO	COLE, JOSEPH
ADDRESSEE	CHIEF
ADDRESS1	USADTSC LETTERKENNY ARMY DEPOT
ADDRESS2	ATTN:AMXTM-GA-L BLDG 431

TSC
Buddy Deffort, Center Chief

EDIT ;<F:>:CALMASTE ;Rec: 914/1095 ;Ins ; Caps

ADDRESS2	ATTN:AMXTM-GA-L BLDG 431
CITY	CHAMBERSBURG
STATE	PA
ZIP	17201-4185
AVCOMPHONE	540-8336
COMPHONE	717-267-8336
PROPBKOFF	
DODAAC	W80KFZ
TLDLOCCODE	KBH
LOCATION	
COMMANDLOC	
DATEOFINV	

EDIT ;<F:>:CALMASTE ;Rec: 914/1095 ;Ins ; Caps

SERIALNUMB	9015
EQUIPMENT	AN/UDM-2
WIPSCH1	4
WIPSCH2	10
WIPSCH3	0
WIPSCH4	0
WIPSCH5	0
WIPPRF1	0
WIPPRF2	0

SERIALNUMB	EQUIPMENT	ADDRESS1	CITY	STATE	ZIP	COMPHONE	PROPBKOFF
9013	AN/UDM-2	CECOM SAFETY OFFICE	FT MONMOUTH	NJ	07703-5036	908-544-3112	
9015	AN/UDM-2	DEPT OF MILITARY AFFAIRS	ANNEVILLE	PA	17003-5002	717-861-8895	NG
9029	AN/UDM-2	NRC CORP,DOVER DIV. BOX 937	DOVER	NJ	07801-	201-361-5600	JOE TOMEI
9054	AN/UDM-2	NRC CORP,DOVER DIV. BOX 937	DOVER	NJ	07801-	201-361-5600	TERRY SCHWAGER
9065	AN/UDM-2	US ARMY DISTRICT TMDE SUP CTR	TOBYHANNA	PA	18466-5104	717-894-7820	
9105	AN/UDM-2	EW/RSTA, SENSOR SYSTEMS DIV.	FT MONMOUTH	NJ	07703-5000		
9106	AN/UDM-2	CECOM SAFETY OFFICE	FT MONMOUTH	NJ	07703-5024	908-544-5370	
9122	AN/UDM-2	ATTN:CAL COORDINATOR	NEW CASTLE	DE	19720	302-324-7356	NG
9139	AN/UDM-2	US ARMY TMDE SUPPORT OPERATION	FT DIX	NJ	08640-6120	609-562-3613	
9336	AN/UDM-2	US ARMY TMDE SUPPORT OPERATION	FT DIX	NJ	08640-5280	609-562-3613	
9450	AN/UDM-2	US ARMY DISTRICT TMDE SUP CTR	TOBYHANNA	PA	18466-5104	717-894-7820	
9487	AN/UDM-2	USADTSC LETTERKENNY army DEPOT	CHAMBERSBURG	PA	17201-4185	717-267-8336	
9499	AN/UDM-2	USADTSC LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4185	717-267-8336	
A0026	AN/UDM-6	CECOM SAFETY OFFICE	FT. MONMOUTH	NJ	07703-5024	908-427-5370	
A1002	AN/UDM-6	NUCLEAR RSRCH CORP,DOVER DIV.	DOVER	NJ	07801-0937	201-361-5600	TERRY SCHWAGER
A1003	AN/UDM-6	CECOM SAFETY OFFICE	FT MONMOUTH	NJ	07703-5024	908-427-5370	
A1045	AN/UDM-6	US ARMY DISTRICT TMDE SUP CTR	TOBYHANNA	PA	18466-5104	717-895-7594	
A1110	AN/UDM-6	USACRC LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4185	717-267-8336	
A1111	AN/UDM-6	USACRC LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4185	717-267-8336	
A1160	AN/UDM-6	CECOM SAFETY OFFICE	FT. MONMOUTH	NJ	07703-5000	908-427-5370	
A1501	AN/UDM-6	US ARMY TMDE SUPPORT OPERATION	FT DIX	NJ	08640-6120	609-562-3613	

TMDE
TMDE

Worldwide
Inventory for Calibration Sources

Record#	SERIALNUMB	EQUIPMENT	ADDRESS1	CITY	STATE	ZIP	COMPHONE
934	0120	AN/UDM-1A	US ARMY CECOM	FORT MONMOUTH	NJ	07703-5036	908-427-5370
935	021	AN/UDM-1	US ARMY CECOM	FORT MONMOUTH	NJ	07703-5036	908-427-5370
1042	03188	AN/UDM-1A	LETTERKENNY ARMY DEPOT			-	
1043	070	AN/UDM-1	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
930	073	AN/UDM-1	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
1044	076	AN/UDM-1	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
938	095	AN/UDM-1	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
929	096	AN/UDM-1	U.S. ARMY CAL & REPAIR CENTER	LEXINGTON	KY	40511-5102	606-293-3954
1045	097	AN/UDM-1	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
1046	099	AN/UDM-1	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
939	0B725	AN/UDM-1A	LETTERKENNY ARMY DEPOT	CHAMBERSBURG,	PA	17201-4150	- -
937	0BE2192	AN/UDM-1A	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
931	0CCSE120M	AN/UDM-1A	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
936	0D1	AN/UDM-1A	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
1047	0D2	AN/UDM-1A	USA CHEMICAL SCHOOL	FORT MCCLELLAN	AL	36205-5020	205-848-4115
933	0D3	AN/UDM-1A	US ARMY CECOM	FORT MONMOUTH	NJ	07703-5036	908-427-3112
932	0D4	AN/UDM-1A	DISTRICT TMDE SUP CTR-ABERDEEN	ABERDEEN PROVING GRO	MD	21005-5001	301-671-3267
1048	0D5	AN/UDM-1A	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
1049	0D6	AN/UDM-1A	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	
1050	0LBAD2	AN/UDM-1A	LETTERKENNY ARMY DEPOT	CHAMBERSBURG	PA	17201-4150	

Ft. Monmouth / Evans Area Installation Inventory

Record#	ID	NOMENCLATR	ISOTOPE	MILLICURIE	LOCATION	COMMENTS	CONDITION	LIC_DARA	RWP	COMMENT2
32	A-03	VEX (SN:3843)	Am-241	9.90	9045		U	29-01022-14	N/A	
33	A-04	VEX (SN:3841)	Am-241	9.90	9041		U	29-01022-14	N/A	
34	A-05	VEX (SN:3842)	Am-241	9.90	9045		U	29-01022-14	N/A	
35	A-06	CHECK SOURCE (SF01)	Am-241	<2.5E-05	9045		U	29-01022-06	N/A	
36	A-07	CHECK SOURCE	Am-241	<2.6E-05	9045		U	29-01022-06	N/A	
60	A-08	M43A1 CHEM AGENT MON.	Am-241	2.5E-01	9045	TEACHING AID-SAV AD	U	12-00722-13	N/A	SN: ZO3-D-33711
63	A-09	CALIBRATION STANDARD	Am-241	1.3E-05	9045	FILTER PAPER STD	U	29-01022-06	N/A	
65	A-10	EPA QC SAMPLE	Am-241	9.14E-08	9045	AM-241 IN SOLUTION	U	29-01022-06	N/A	
79	A-12	CALIBRATION STANDARD	Am-241	5.9E-03	9045	SN:S1285003-4	U	29-01022-06	N/A	
82	A-13	M43A1 CHEM AGENT MON.	Am-241	2.5E-01	9045	TEACHING AID SAV AD	U	12-00722-13	N/A	SN: ZO3-D-33884
85	A-14	CALIBRATION STANDARD	Am-241	1.468E-05	9045	SN R-452 (389-44-2)	U	29-01022-06	N/A	32,600 dpm
109	A-15	CALIBRATION SOURCE	Am-241	1.79E-05	9383	SN:V-009	W	29-01022-06	N/A	39,800 D PM ON 15OCT92
131	A-16	CALIBRATION SOURCE	Am-241	3.25E-05	9401	SOURCE #1	U	29-01022-06	N/A	CAL DATE 8 FEB 94
132	A-17	CALIBRATION SOURCE	Am-241	1.27E-05	9401	SOURCE #3	U	29-01022-06	N/A	CAL DATE 8 FEB 94
133	A-18	CALIBRATION SOURCE	Am-241	1.30E-05	9401	SOURCE #4	U	29-01022-06	N/A	CAL DATE 8 FEB 94
172	A-19	CALIBRATION SOURCE	AM-241	1.927E-05	9045	DD-408	U	29-01022-06	N/A	
173	A-20	CALIBRATION SOURCE	AM-241	1.883 E-5	9045	DD-409	U	29-01022-06	N/A	
174	A-21	CALIBRATION SOURCE	AM-241	1.804 E-5	9045	DD-410	U	29-01022-06	N/A	
175	A-22	CALIBRATION SOURCE	AM-241	1.905 E-5	9045	DD-411	U	29-01022-06	N/A	
176	A-23	CALIBRATION SOURCE	AM-241	1.903 E-5	9045	DD-412	U	29-01022-06	N/A	
8	C-02	SOURCE, NEN #048	C-14	5.0E-05	9045		U	29-01022-06	N/A	
77	C-03	PACKARD STANDARD	C-14	<1.0E-04	9045		U	29-01022-06	N/A	
78	C-04	CHECK SOURCE-PHOTOMETER	C-14	5.0E01	2700-4D312	MR. MORTON X44790	U	29-01022-06	N/A	TOTAL OF 4 SOURCES, 200 mCi TOTAL ACTY.
89	C-05	PACKARD STANDARD	C-14	<1.0E-04	9045		U	29-01022-06	N/A	
100	C-06	ULTIMA GOLD STANDARD	C-14	6.04E-04	9045	SN:9000238	U	29-01022-06	N/A	134,000 DPM PER VIAL, 10 VIALS TOTAL
101	C-07	ULTIMA GOLD STANDARD	C-14	6.04E-04	9045	SN:9000239	U	29-01022-06	N/A	134,000 DPM PER VIAL, 10 VIALS TOTAL
167	C-08	UNQUENCHED STANDARD	C-14	1.95E-04	9045	SN: 406295	U	29-01022-06	N/A	C14 STANDARD, 10 ml. MOBILE LAB #2
168	C-09	UNQUENCHED STANDARD	C-14	1.86E-05	9045	SN: 406294	U	29-01022-06	N/A	C14 STANDARD, 10 ml. MOBILE LAB #2
169	C-10	UNQUENCHED STANDARD	C-14	1.01E-04	9045	SN: 406295	U	29-01022-06	N/A	C14 STANDARD, 15 ml. MOBILE LAB #2
170	C-11	UNQUENCHED STANDARD	C-14	5.60E-05	9045	SN: 406294	U	29-01022-06	N/A	C14 STANDARD, 15 ml. MOBILE LAB #2
6	CO-02	MOSSBAUER SOURCE	Co-57	1.9E-01	2700-4D110	ETDL - MYER CENTER	U	A29-10-01	026	

41	CO-04	GE SOURCE	Co-60	6.616E04	9401	ACTY DATE 09AUG93	U	29-01022-07	N/A	VAULT
52	CO-10	POOL IRRADIATOR	Co-60	7.079E06	9401	ACTY-DATE, 03OCT91	U	29-01022-10	N/A	
43	CS-01	AN/UDM-1A (SN:D3)	Cs-137	5.36E04	9401	ISOTOPE ROOM-CENTER	U	29-01022-14	N/A	
44	CS-02	AN/UDM-1A (SN:12)	Cs-137	5.71E04	9401	ISOTOPE ROOM-WALL	U	29-01022-14	N/A	
45	CS-04	AMERSHAM	Cs-137	3.186E05	9401	ACTY DATE 09AUG93	U	29-01022-07	N/A	VAULT
48	CS-05	LOW RANGE SOURCE SN:CS478	Cs-137	3.91	9401	PM NBC DEFENSE SYS	U	29-01022-06	XXXXX	MOVED TO 9401 04 APR 95 BY DR K.
7	CS-06	SMALL CALIBRATION SOURCE	Cs-137	6.4E01	9383		U	29-01022-06	N/A	ASSAY DATE-14JUN88, ORIG ACTY-69.1mCi
53	CS-07	JL SHEPHERD LOW RANGE	Cs-137	1.11E02	9401		U	29-01022-06	N/A	
64	CS-08	CALIBRATION STANDARD	Cs-137	1.4E-05	9045	IPL FILTER	U	29-01022-06	N/A	
67	CS-09	PICKER SOURCE	Cs-137	1.0E-03	9045	CAL SOURCE	U	29-01022-06	N/A	
68	CS-10	PICKER SOURCE	Cs-137	1.0E-03	9045	CAL SOURCE	U	29-01022-06	N/A	
149	CS-11	CALIBRATION STANDARD	Cs-137	1.25E-05	9045	IPL SN:BB-960	U	2901022-06	N/A	27,900 dpm ON 15NOV94
105	EPA-19	EPA QC SAMPLE	MIXED	<6.0E-07	9045	AIR FILTERS (4)	U	29-01022-06	N/A	28 AUGUST 1992 TO TOAD 09SEP93
118	EPA-20	EPA QC SAMPLE	H-3	<1.5E-05	9045	H3 IN WATER	U	29-01022-06	N/A	23 OCTOBER 1992
119	EPA-21	EPA QC SAMPLE	H-3	<1.5E-05	9045	H3 IN WATER	U	29-01022-06	N/A	02 JULY 1993
127	EPA-22	EPA QC SAMPLE	MIXED	<6.0E-7	9045	AIR FILTERS (3)	U	29-01022-06	N/A	27 AUGUST 1993
130	EPA-23	EPA QC SAMPLE	H-3	<1.5E-05	9045	H3 IN WATER	U	29-01022-06	N/A	05 NOVEMBER 1993
136	EPA-24	EPA QC SAMPLE	H-3	<1.5E-05	9045	H3 IN WATER	U	29-01022-06	N/A	04 MARCH 1994
137	EPA-25	EPA QC SAMPLE	H-3	<1.5E-05	9045	H3 IN WATER	U	29-01022-06	N/A	05 AUGUST 1994
138	EPA-26	EPA QC SAMPLES AIR FILTER	MIXED	<6.0E-7	9045	AIR FILTERS (3)	U	29-01022-06	N/A	04 NOVEMBER 1994
161	EPA-27	EPA QC SAMPLE	H-3	<1.55-05	9045	H3 IN WATER	U	29-01022-06	N/A	10 MARCH 1995
120	EX-1	METER IM-174/PD S/N 8528	Ra-226	0.001	BLDG 116	EXCESS		29-01022-06		
121	EX-2	METER IM-174/PD S/N 5312	Ra-226	0.001	BLDG 116	EXCESS		29-01022-06		
122	EX-3	M43A1 S/N Z03-D-00955	Am-241	0.25	BLDG 116	EXCESS		12-00722-13		
123	EX-4	M43A1 S/N Z03-D-01222	Am-241	0.250	BLDG 116	EXCESS		12-00722-13		
124	EX-5	ANNUC ANTI-INTRUSION 7196	Pm-147		BLDG 116	EXCESS		EXCESS		
125	EX-6	ANNUC ANTI-INTRUSION 7187	Pm-147		BLDG 116	EXCESS		EXCESS		
126	EX-7	ANNUC ANTI-INTRUSION 7016	Pm-147		BLDG 116	EXCESS		EXCESS		
16	H-02	6 QUENCHED STANDARDS	H-3	<1.0E-03	9045	LSC	U	29-01022-06	N/A	
12	H-03	PACKARD STANDARD	H-3	<2.0E-04	9045		U	29-01022-06	N/A	MOBILE LAB #2
90	H-07	PACKARD STANDARD	H-3	<2.0E-04	9045		U	29-01022-06	N/A	
91	H-08	10 QUENCHED STANDARDS	H-3	1.16E-03	9045	PACKARD STANDARDS	U	29-01022-06	N/A	

DPM PER VIAL, 10 VIALS TOTAL										
103	H-10	UI MA GOLD STANDARD	H-3	9.67E-04	9045	SN: 9000237	U	29-01022-06	A	214,700
DPM PER VIAL, 10 VIALS TOTAL										
104	H-11	UNQUENCHED STANDARDS	MIXED	5.96E-05	9045	H3 AND C14 STDS.	U	29-01022-06	N/A	H3, C14,
AND BKG STANDARDS, 10 ml.										
106	H-12	UNQUENCHED STANDARDS	MIXED	1.72E-04	9045	H3 AND C14 STDS.	U	29-01022-06	N/A	H3, C14,
AND BKG STANDARDS, 15 ml.										
112	H-14	H3 GAS, OVERHOFF SOURCE	H-3	<1E-06	9045	SN: 1563	U	29-01022-06	N/A	CALIBRAT
ION STANDARD										
113	H-15	TRITIUM TARGET	H-3	7.37E3	9383	SN; S680	U	29-01022-06		
162	H-16	ULTIMA GOLD STANDARD	H-3	1.14E-3	9045	SN: 05	U	29-01022-06	N/A	253,200
DPM PER VIAL, 10 VIALS TOTAL / MOBILE LAB #2										
163	H-17	UNQUENCHED STANDARDS	H-3	3.84E-5	9045	SN: 406295	U	29-01022-06	N/A	H3 STAND
ARD, 10 ml.		MOBILE LAB #2								
164	H-18	UNQUENCHED STANDARD	H-3	3.84E-5	9045	SN: 406294	U	29-01022-06	N/A	H3 STAND
ARD, 10 ml.		MOBILE LAB #2								
165	H-19	UNQUENCHED STANDARD	H-3	1.30E-4	9045	SN: 406295	U	29-01022-06	N/A	H3 STAND
ARD, 15 ml.		MOBILE LAB #2								
166	H-20	UNQUENCHED STANDARD	H-3	1.30E-4	9045	SN: 406294	U	29-01022-06	N/A	H3 STAND
ARD, 15 ml.		MOBILE LAB #2								
171	H-21	H-3 WASTE	H-3	3.84E-2	9383	IN BOXED AS MARKED	W	29-01022-06	N/A	513 VIAL
S										
42	K-01	MX-7338 (SN:K-2410)	Kr-85	1.67	9401	VAULT	U	29-01022-14	N/A	
17	K-03	MX-7338 (SN:K-4451)	Kr-85	1.70	FD-MAIN P.	WITH METER #10087	U	29-01022-14	N/A	
11	K-07	MX-7338 (SN:K-13524-7)	Kr-85	1.70	SAC AD		U	29-01022-14	N/A	
139	K-08	MX-7338 (SN:N-0042)	Kr-85	5.00	290	54TH EOD	U	29-01022-14	N/A	
140	K-09	MX-7338 (SN:K-10402)	Kr-85	5.00	290	54TH EOD	U	29-01022-14	N/A	
141	K-10	MX-7338 (SN:K-3639)	Kr-85	5.00	290	54TH EOD	U	29-01022-14	N/A	
142	K-11	MX-7338 (SN:K-2476)	Kr-85	5.00	290	54TH EOD	U	29-01022-14	N/A	
143	K-12	MX-7338 (SN:K-777)	Kr-85	5.00	290	54TH EOD	U	29-01022-14	N/A	
144	K-13	MX-7338 (SN:322)	Kr-85	5.00	290	54TH EOD	U	29-01022-14	N/A	
13	MG-01	AMERSHAM-MARINELLI	MIXED	1.2E-03	9045	MIX GAMMA	U	29-01022-06	N/A	
14	MG-02	AMERSHAM-UK	MIXED	1.0E-03	9045	MIXED GAMMA	U	29-01022-06	N/A	
76	MG-03	MIXED GAMMA SOURCE	Eu-154	5.0E-03	9045	EU155,SB125.	U	29-01022-06	N/A	
93	MG-04	MIXED GAMMA SOURCE	MIXED	1.50E-03	9045	MARINELLI	U	29-01022-06	N/A	
94	MG-05	MIXED GAMMA SOURCE	MIXED	1.54E-03	9045	MARINELLI	U	29-01022-06	N/A	
95	MG-06	MIXED GAMMA SOURCE	MIXED	1.53E-03	9045	MARINELLI	U	29-01022-06	N/A	
96	MG-07	MIXED GAMMA SOURCE	MIXED	1.53E-03	9045	MARINELLI	U	29-01022-06	N/A	
128	MG-08	MIXED GAMMA SOURCE (W)	MIXED	1.0E-3	9045	CAL SOURCE	U	N/A	N/A	
129	MG-09	MIXED GAMMA SOURCE (S)	MIXED	1.0E-3	9045	CAL SOURCE	U	29-01022-06	N/A	
22	N-01	PLASTIC SOURCE	Ni-63	<2.0	9010A	TO-ED GROEBER-901019	U	29-01022-06	N/A	
58	N-02	CHEM AGENT MONITOR(CAM)	Ni-63	1.0E01	9045	IRRAD. SOURCE-CRDEC	U	12-00722-14	N/A	
9	PM-02	SOURCE NEN #O64	Pm-147	5.1E-05	9045		U	29-01022-06	N/A	

92	PM-03	DETECTOR, BAM	PM-147	1.25E-05	9045		U			
80	PO-01	CALIBRATION STANDARD	Po-210	1.158E-05	9045	SER.#N-275	U	29-01022-06	N/A	
86	PO-02	CALIBRATION STANDARD	Po-210	1.387E-05	9045	SN R-453(389-45-1)	U	29-01022-06	N/A	30800 dpm
108	PO-03	CALIBRATION SOURCE	Po-210	1.369E-05	9045	T-988	U	29-01022-06	N/A	
110	PO-04	CAL SOURCE	Po-210	1.22E-05	9045	T-991	U	29-01022-06	N/A	
111	PO-05	CAL SOURCE	Po-210	1.46E-05	9045	U-954	U	29-01022-06	N/A	
134	PO-06	CHECK SOURCE	Po-210		9045		U	29-01022-06	N/A	
135	PO-07	CHECK SOURCE	Po-210		9045		U	29-01022-06		
150	PO-08	CALIBRATION STANDARD MOBILE LAB #2	Po-210	1.31E-05	9045	IPL SN:BB-961	U	29-01022-06	N/A	29,100 dpm ON 15NOV94
28	PU-04	AN/UDM-6 (SN:A1002)	Pu-239	1.4E-03	NRC CORP.	EW/RSTA-IRA KAPLOW.	U	29-01022-14	N/A	POC TERRY SCHWAGER, 215-343-5900, AT WARRINGTON, PA
29	PU-05	EBERLINE 94-1 SN:A0026	Pu-239	1.4E-03	9045		U	29-01022-14	N/A	
30	PU-06	AN/UDM-6 (SN:A1003)	Pu-239	1.4E-03	9045		U	29-01022-14	N/A	
31	PU-07	AN/UDM-7C (SN:C165)	Pu-239	5.02E-02	9401		U	29-01022-14	N/A	SENT TO DEPOT (TURNED IN)
54	PU-09	AN/UDM-6 (SN:A1160)	Pu-239	1.4E-03	9401	FROM CCAD	U	29-01022-14	N/A	
87	PU-10	CALIBRATION STANDARD	Pu-238	9.74E-05	9045	SN R-451 (389-44)	U	29-01022-06	N/A	
145	PU-11	CKECK SOURCE CS-1-1	Pu-239	1.00E-7	290	54TH EOD	U			
146	PU-12	CHECK SOURCE CS-1-2	Pu-239	1.00E-7	290	54TH EOD	U			
46	R-01	RA-BE NEUTRON SOURCE	Ra-226	1.97E01	9401	ISOTOPE ROOM	U	A29-10-01	N/A	
55	R-07	METER MOVEMENTS	Ra-226	<3.0E-03	9045	TRAINING AIDS-4 EACH	U	A29-10-06	N/A	
57	R-08	RADON STANDARD	Ra-226	8.1E-05	9045	PYLON STANDARD	U	A29-10-06	N/A	
50	S-01	AN/UDM-2 (SN:054)	Sr-90	1.65E02	NRC CORP.	EW/RSTA-IRA KAPLOW.	U	29-01022-14	N/A	POC JOE TOMEI, 215-343-5900, AT DOVER, NJ
18	S-02	AN/UDM-2 (SN:106)	Sr-90	1.40E02	9401	EW/RSTA	U	29-01022-14	N/A	
51	S-03	AN/UDM-2 (SN:029)	Sr-90	1.65E02	NRC CORP.	EW/RSTA-IRA KAPLOW.	U	29-01022-14	N/A	POC JOE TOMEI, 215-343-5900, AT DOVER, NJ
19	S-05	MODEL 3FIG	Sr-90	3.582E01	9045	EW/RSTA	U	29-01022-14	N/A	
114	S-06	CHECK SOURCE	Sr-90	3.0E-04	9401	VAULT-CONTROL ROOM	U	29-01022-06	N/A	
115	S-07	CHECK SOURCE	Sr-90	3.0E-04	9401	VAULT-OUTDOOR MOUND	U	29-01022-06	N/A	
116	S-08	CHECK SOURCE	Sr-90	5.0E-03	9401	VAULT-IN EXPOSURE RM	U	29-01022-06	N/A	
117	S-09	CHECK SOURCE	Sr-90	3.0E-04	9401	POOL-RESIN FILTER	U	29-01022-06	N/A	
20	S-12	CHECK SOURCE	Sr-90	<2.0E-05	9045	NEN	U	29-01022-06	N/A	
21	S-13	CHECK SOURCE	Sr-90	<2.0E-05	9045	NEN	U	29-01022-06	N/A	
10	S-14	SOURCE, NEN #046	Sr-90	5.0E-05	9045		U	29-01022-06	N/A	
61	S-15	CALIBRATION STANDARD	Sr-90	1.3E-05	9383	FILTER PAPER STD	W	29-01022-06	N/A	IN LAB HOOD
66	S-16	EPA QC SAMPLE	Sr-90	1.3E-07	9045	SR-90 IN SOLUTION	U	29-01022-06	N/A	

m		MOBILE LAB #2									
99	S-20	C BRATED STANDARD	Sr-	1.8E-05	9045		U	29-01022-06	\	40,100 D	
PM SR-90											
151	S-21	CALIBRATION STANDARD	Sr-90	1.35E-05	9383	IPL SN:BB-959	W	29-01022-06	N/A	29,900 d	
pm ORIG ACTY ON 5NOV94 IN LAB HOOD											
47	SET-01	CHECK SET	MIXED	<1.0E-02	9401	NEN #14G	U	29-01022-06	N/A		
37	SET-03	GAMMA CHECK SET	MIXED	<1.0E-02	9045	ICNC #13	U	29-01022-06	N/A		
38	SET-04	BETA CHECK SET	MIXED	<1.0E-02	9045	ICNC #12	U	29-01022-06	N/A		
39	SET-06	BETA CHECK SET	MIXED	<1.0E-02	9045	NEN #16	U	29-01022-06	N/A		
56	SET-07	GAMMA CHECK SET	MIXED	<8.0E-03	9045	ISOTOPE PROD LAB SET	U	29-01022-06	N/A		
49	SET-08	GAMMA CHECK SET NEN#15G	MIXED	1.0E-03	9401	EW/RSTA	U	29-01022-06	N/A	MOVED TO	
9401 12 MAR 93 BY B CUMMINGS											
69	SET-09	BETA REFERENCE SET	MIXED		9045		U	29-01022-06	N/A		
70	SET-10	GAMMA REFERENCE SET	MIXED		9045		U	29-01022-06	N/A		
23	TH-02	CHECK SOURCE IN PLASTIC	Th-232	2.94E-03	9045	KRONENBERG	U	29-01022-06	N/A		
24	TH-03	CHECK SOURCE IN PLASTIC	Th-232	2.94E-03	9045	KRONENBERG	U	29-01022-06	N/A		
25	TH-04	METAL SLUGS-2 EACH	Th-232	2.18E-02	9401	TO DR. K-91.04.08-JA	U	29-01022-06	N/A		
26	TH-06	CALIBRATED DISK	Th-232	1.00E-03	9045	KRONENBERG	U	29-01022-06	N/A		
15	TH-07	EBERLINE CALIB. DISC	Th-230	<1.0E-03	9045	W/PRM-5-3,SN#3028	U	29-01022-14	N/A		
59	TH-08	OPTICS	Th-232	UNK	9045	TEACHING AID	U	A29-10-12	N/A		
27	TH-09	CHECK SOURCE (CS-1)	Th-230	<2.0E-05	9045	AC-3-7 PROBE	U	29-01022-14	N/A		
147	TH-10	CHECK SOURCE (2039)	Th-230	1.00E-7	290	54TH EOD	U				
148	TH-11	CHECK SOURCE (CS-12-1)	Th-230	1.00E-7	290	54TH EOD	U			SN:1405	
177	Th-12	LENSES	TH-232	5.0 E-3	9383	5 LENSES	W		N/A		
81	U-01	M829,PENETRATOR	DU	1.97E1	9383	1315-01-168-6108	U	SUC-1380	N/A		
97	U-02	CALIBRATED STANDARD	U-238	1.23E-06	9045	SN: T-303	U	29-01022-06	N/A	2,740 DP	
M											
98	U-03	CALIBRATED STANDARD	U-238	1.23E-06	9045	SN: T-304	U	29-01022-06	N/A	2,740 DP	
M											
107	U-04	CALIBRATION SLAB	U-238	<1.0	9045	SN: 1084/92	U	29-01022-06	N/A		
2	X-02	SPECTROMETER DOUBLE-CRYS.	N/A	N/A	2700-2C129	ETDL,ECKERT	U	N/A	080	MODEL:DO	
UBLE CRYSTAL SPECTROMETER, PROTOTYPE											
3	X-05	SEM AMRAY 1610	N/A	N/A	2700-2C131	ETDL,ECKERT	U	N/A	028	MODEL:AM	
RAY 1610											
5	X-06	FLUOROSCOPE	N/A	N/A	2700-4D135	ETDL,HAKIM	U	N/A	025	MODEL:TO	
RREX 150											
4	X-08	ION ACCELERATOR	N/A	N/A	2700-2D139	ETDL,PFEFFER	U	N/A	031	MODEL:TA	
NDETRON 4117A											
1	X-09	STEM, PHILLIPS	N/A	N/A	2700-1B121	ETDL,COOK	U	N/A	030	MODEL:PH	
ILLIPS 420											
62	X-10	ION IMPLANTER	N/A	N/A	2700-4D130	ETDL,WIDUTA	U	N/A	044	MODEL:VE	
ECO 2100											
71	X-11	X-RAY IRRADIATOR	N/A	N/A	2700-2D312	ETDL,FILLER	U	N/A	051	MODEL:AR	
ACOR 4100											
72	X-12	SEM ISI WB-6	N/A	N/A	2700-4D135	ETDL,SARTORE	U	N/A	074	MODEL:IS	

APPENDIX A
INDUSTRIAL/ACADEMIC/RESEARCH INSPECTION FIELD NOTES

Region_

Inspection Report No. 99-001 License No. 29-01022-06

Licensee (Name & Address): Docket No. 030-05216

Department of the Army
Communications-Electronics Command
Ft. Monmouth, NJ 07703-5024

Licensee Contact Joe Santoriello Telephone No. 732-427-3112 Ext. 6

Amendments Issued Since Last Inspection: (Numbers) 44 45 46 47
Dates of Above Amendments: 8/24/98; 8/25/98; 8/30/98; 2/26/99

Priority: _____
Program Code 3610

Date of Last Inspection 7/16/98
Date of This Inspection 5/27/99

Type of Inspection:
(X) Announced ( ) Unannounced
( ) Routine (X) Special
( ) Initial ( ) Reinspection

Next Inspection Date 7/2000 (X) Normal ( ) Reduced ( ) Extended

Justification for change in normal inspection frequency:

This inspection was limited to the use of ~~radioactive~~ licensed material by individuals not designated in writing by the Radiation Safety Committee (RSC) at the Evans Area

Summary of Findings and Action:

( ) No violations cited, Clear NRC Form 591 or regional letter issued
( ) Violation(s), NRC Form 591 issued
(X) Violation(s), regional letter issued
( ) Followup on previous violations

Inspector: _____ Date 6/7/99
(Signature)

Approved: _____ Date 6/7/99
(Signature)

AA/99

Field notes are to be used by the inspector to assist with the performance of the inspection. Note that all areas indicated in the field notes are not required to be addressed during each inspection. However, for those areas not covered during the inspection, a notation ("Not Reviewed") should be made in each section where applicable. Additionally, all areas covered during the inspection should be documented in sufficient detail to describe what activities and/or records the inspector observed. For example, the types of records that were reviewed and the time periods covered by those records should be noted. If the licensee demonstrates any practices at your request, describe those demonstrations. The observations and demonstrations you describe in this report, along with measurements and some records review, should substantiate your inspection findings.

NOTE: For inspections of radioactive drug distributors, ensure that all applicable sections (regarding 10 CFR Part 32) of the radiopharmacy field notes are completed.

1. **INSPECTION, LICENSING, AND INCIDENT HISTORY** Not addressed

A. Violations were identified during any of the last two inspections or two years, whichever is longer. (N/A = Initial insp.) ( ) N/A ( ) Y ( ) N

B. Response letter(s) or 591(s) dated _____

C. Violations from previous inspection(s):

REQUIREMENT CITED	STATUS

D. Any repeat violation(s) identified? ( ) Y ( ) N
If "Yes," explain:

During a site visit the inspector became aware of the use of licensed material by individuals not designated in writing by the RSC. The inspector's visit was transformed into an inspection of this issue only. The licensee prepared an approved a Radiation Work Permit (RWP), authorizing the individuals to perform the work at the Evans Area.

It should be noted that the initial purpose of the visit was not inspection.

E. License amendments issued since last inspection, or program changes noted in the license:

N/A the rest of the notes

AMENDMENT #	DATE	SUBJECT

F. During this inspection, was the licensee's implementation of all of the above amendments or program changes inspected/observed? ( ) N/A ( ) Y ( ) N

G. During this inspection, were any violations identified involving any of the above amendments or program changes? ( ) N/A ( ) Y ( ) N

H. List any incidents or events reported to NRC since the last inspection (Note: "None" indicates that regional event logs, event files, and the licensing file have no evidence of any incidents or events since the last inspection): ( ) None

INCIDENT OR EVENT

I. During this inspection, were the incidents/events reviewed with the licensee, and was the licensee's follow-up to the incidents/events examined? ( ) N/A ( ) Y ( ) N

J. Describe the licensee's follow-up in response to the events/incidents listed in 1.H.:

Comments:

2. **ORGANIZATION AND SCOPE OF PROGRAM**

A. Describe the licensee's organizational structure to indicate the "chain-of-command" from senior management to authorized users of licensed material. Show or describe where the RSO and Chairperson of the RSC are located in the licensee's organization and to whom they report:

B. Identify licensee personnel contacted during the inspection (including those individuals contacted by telephone).

(Use the following identification symbols:)
Individuals present at entrance meeting
* Individuals present at exit meeting
+ Individuals contacted by telephone

C. Authorized for multiple locations of use ( ) Y ( ) N
If yes, may use ATTACHMENT A as a guide for inspecting laboratories.

D. Authorized for multiple permanent field office locations ( ) Y ( ) N
(1) Inspection performed at multiple field offices ( ) Y ( ) N
(2) If "Yes," list office locations inspected:

E. Authorized for temporary job site locations ( ) Y ( ) N
(1) Inspection performed at temporary job site(s) ( ) Y ( ) N
(2) If not, describe why not:

F. Briefly describe scope of activities, including types and quantities of use involving licensed material, frequency of use, staff size, etc.

3. MANAGEMENT OVERSIGHT

A. Radiation Safety Committee (RSC) required [L/C][1] ( ) Y ( ) N

(1) RSC fulfills license requirements [L/C] ( ) Y ( ) N
(2) Records maintained [L/C] ( ) Y ( ) N

B. Radiation Safety Officer (RSO)

(1) Authorized on license [L/C] ( ) Y ( ) N
(2) Fulfills duties as RSO ( ) Y ( ) N

C. Audits, Reviews, or Inspections

(1) Audits are required [L/C] ( ) Y ( ) N
(2) Audits or inspections are conducted ( ) Y ( ) N
Audits conducted by _____
Frequency _____
(3) Content and implementation of the radiation protection program reviewed annually by the licensee [20.1101(c)][2] ( ) Y ( ) N
(4) Records maintained [20.2102] ( ) Y ( ) N

D. Use by authorized individuals [L/C] ( ) Y ( ) N

E. If supervision permitted by the license or by regs, authorized users supervise adequately [L/C] ( ) Y ( ) N

---

[1] Here and throughout the field notes, "L/C" means "license condition."

[2] Here and throughout the field notes, sections of 10 CFR are referenced only by their section numbers.

4. **FACILITIES**

A. Facilities as described in license application [L/C] ( ) Y ( ) N
B. Facilities are secured to prevent unauthorized access [L/C] ( ) Y ( ) N
C. Describe any self-contained dry-source-storage irradiators and/or survey instrument calibrators (model, radionuclide, activity, use, etc.) ( ) N/A

(1) Maintenance of safety-related components performed by authorized persons [L/C] ( ) Y ( ) N
(2) Access to keys and/or material controlled [20.1801-1802, L/C] ( ) Y ( ) N
(3) Access to high/very high radiation areas controlled [20.1601-1602, L/C] ( ) Y ( ) N
(4) Adequate protection of shield integrity, fire protection [L/C] ( ) Y ( ) N

Basis for Findings:

5. **EQUIPMENT AND INSTRUMENTATION**

A. Instruments and equipment:

(1) Appropriate operable survey instrumentation possessed and readily accessible [L/C] ( ) Y ( ) N
(2) Calibrated as required [20.1501, L/C] ( ) Y ( ) N
(3) Calibration records maintained [20.2103(a)] ( ) Y ( ) N

B. Procedures established to identify and report safety component defects [21.21] ( ) Y ( ) N

Basis for Findings:

6. **MATERIALS RECEIPT, USE, TRANSFER, AND CONTROL**

A. Isotope, chemical form, quantity, and use, as authorized [L/C] ( ) Y ( ) N

B. Licensed materials secured to prevent unauthorized removal or access [20.1801-1802] ( ) Y ( ) N

(1) Licensed material in storage in controlled or unrestricted areas is secured from unauthorized removal or access [20.1801] ( ) Y ( ) N

(2) Licensed material in controlled or unrestricted areas and not in storage is controlled and under constant surveillance [20.1802] ( ) Y ( ) N

(3) Access to restricted areas is limited [20.1003] ( ) Y ( ) N

C. Describe how packages are received and by whom: ( ) N/A

D. Written package opening procedures established and followed [20.1906(e)] ( ) Y ( ) N

E. All incoming packages with DOT labels wiped, unless exempted (gases and special form) [20.1906(b)(1)] ( ) Y ( ) N

F. Incoming packages surveyed [20.1906(b)(2)] ( ) Y ( ) N

G. Monitoring in (E) and (F) above, performed within time specified [20.1906(c)] ( ) Y ( ) N

H. Transfer(s) between licensees performed [30.41] ( ) Y ( ) N

I. All sources surveyed before shipment and transfer [20.1501(a), L/C] ( ) Y ( ) N

J. Records of surveys and receipt/transfer maintained [20.2103(a), 30.51] ( ) Y ( ) N

K. Transfers among licensee's authorized users or locations performed as required [L/C] ( ) N/A ( ) Y ( ) N

L. Arrangements made for packages containing quantities of radioactive material in excess of Type A quantity [20.1906(a)] ( ) N/A ( ) Y ( ) N

M. Package receipt/distribution activities evaluated for compliance with 20.1301 [20.1302] ( ) N/A ( ) Y ( ) N

Basis for Findings:

7. TRAINING, RETRAINING, AND INSTRUCTIONS TO WORKERS

A. Instructions to workers/students [10 CFR 19.12] ( ) Y ( ) N
B. Training program required [L/C] ( ) Y ( ) N

(1) If so, briefly describe training program:

(2) Training program implemented ( ) Y ( ) N
(3) Periodic training program required ( ) Y ( ) N
(4) Periodic training program implemented ( ) Y ( ) N
(5) Records maintained ( ) Y ( ) N

C. Individual's understanding of procedures and regulations is adequate ( ) Y ( ) N

(1) Current operating procedures ( ) Y ( ) N
(2) Emergency procedures ( ) Y ( ) N
(3) Use of survey instrumentation ( ) Y ( ) N

D. Revised Part 20
Workers cognizant of requirements for:

(1) Radiation safety program [20.1101] ( ) Y ( ) N
(2) Annual dose limits [20.1301-1302] ( ) Y ( ) N
(3) New NRC Forms 4 and 5 ( ) N/A ( ) Y ( ) N
(4) 10% monitoring threshold [20.1502] ( ) Y ( ) N
(5) Dose limits to embryo/fetus and declared pregnant worker [20.1208] ( ) Y ( ) N
(6) Grave danger posting [20.1902] ( ) N/A ( ) Y ( ) N
(7) Procedures for opening packages [20.1906] ( ) N/A ( ) Y ( ) N
(8) Sewer disposal limits [20.2003] ( ) N/A ( ) Y ( ) N

Basis for Findings:

8. AREA RADIATION SURVEYS AND CONTAMINATION CONTROL

A. Briefly describe area survey requirements [20.1501(a), L/C]:

B. Performed as required [20.1501(a), L/C] ( ) Y ( ) N

(1) Contamination found ( ) Y ( ) N
(2) Corrective action taken and documented ( ) Y ( ) N

C. Records maintained [20.2103, L/C] ( ) Y ( ) N
D. Handling and use of radioactive materials [L/C]

(1) Protective clothing worn ( ) Y ( ) N
(2) Personnel routinely monitor or frisk themselves after procedures or before leaving ( ) Y ( ) N
(3) No eating/drinking/smoking in use/storage areas ( ) Y ( ) N
(4) No food, drink, or personal effects stored in use/storage areas ( ) Y ( ) N
(5) Proper dosimetry worn ( ) Y ( ) N
(6) Radioactive waste disposed in proper containers ( ) Y ( ) N
(7) No pipetting by mouth ( ) Y ( ) N
(8) Use of shielding/distance while using/storing material ( ) Y ( ) N

Basis for Findings:

E. Protection of members of the public

(1) Licensee made adequate surveys to demonstrate either: (1) that the TEDE to the individual likely to receive the highest dose does not exceed 100 mrem in a year; or (2) that if an individual were continuously present in an unrestricted area, the external dose would not exceed 2 mrem in any hour and 50 mrem in a year [20.1301(a)(1), 1302(b)]; **(3) the air emissions to the atmosphere are and within the constraint level [20.1101]** **( ) Y ( ) N**
(2) Unrestricted area radiation levels do not exceed 2 mrem in any one hour [20.1301(a)(2)] ( ) Y ( ) N
(3) Records maintained [20.2103, 20.2107] ( ) Y ( ) N

F. Leak tests and Inventories [L/C]

(1) Performed as required ( ) N/A ( ) Y ( ) N
(2) Adequate analysis methodology and sensitivity ( ) N/A ( ) Y ( ) N
(3) Records maintained [L/C] ( ) Y ( ) N

Basis for Findings:

9. **RADIATION PROTECTION**

A. Licensee performed exposure evaluation [20.1501] ( ) Y ( ) N

B. Licensee incorporated ALARA considerations in the radiation protection program [20.1101(b)] ( ) Y ( ) N

C. External Dosimetry ( ) N/A

(1) Licensee monitors workers [20.1502(a), L/C] ( ) Y ( ) N
(2) External exposures account for contributions from airborne activity [20.1203] ( ) N/A ( ) Y ( ) N

(3) Processor _____ Frequency _____

(4) Processor is NVLAP-approved [20.1501(c)] ( ) Y ( ) N
(5) Dosimeters exchanged at required frequency [L/C] ( ) Y ( ) N

D. Internal Dosimetry ( ) N/A

(1) Licensee monitors workers [20.1502(b), L/C] ( ) Y ( ) N
(2) Briefly describe licensee's program for monitoring and controlling internal exposures [20.1701-1702, L/C]:

(3) Air sampling performed ( ) Y ( ) N
(4) Monitoring/controlling program implemented ( ) Y ( ) N
(5) Respiratory protection equipment [20.1703, L/C] ( ) Y ( ) N

E. Reports ( ) N/A

(1) Reviewed by _____ Frequency _____

(2) Inspector reviewed personnel monitoring records for period _____ to _____

(3) Prior dose determined for individuals likely to receive doses [20.2104] ( ) Y ( ) N

(4) Maximum exposures TEDE _____ Other _____

(5) Maximum CDEs _____ Organs _____

(6) Maximum CEDE _____

(7) Licensee sums internal and external [20.1202] ( ) Y ( ) N

(8) TEDEs and TODEs within limits [20.1201] ( ) Y ( ) N

(9) NRC Forms or equivalent [20.2104(d), 2106(c)]

(a) NRC Form 4 ( ) Y ( ) N Complete: ( ) Y ( ) N
(b) NRC Form 5 ( ) Y ( ) N Complete: ( ) Y ( ) N

(10) Worker declared her pregnancy in writing during inspection period (review records) ( ) N/A ( ) Y ( ) N

If "yes," licensee in compliance with dose to embryo/fetus [20.1208] ( ) Y ( ) N
and records maintained [20.2106(e)] ( ) Y ( ) N

F. Who performed PSEs at this facility (number of people involved and doses received)? [20.1206, 20.2104-2105, 20.2204] ( ) N/A

G. Records of exposures, surveys, monitoring, and evaluations maintained [20.2102-2103, 20.2106, L/C] ( ) Y ( ) N

H. Licensee advises each worker annually of worker's dose [19.13(b)] ( ) Y ( ) N

Basis for Findings:

10. **RADIOACTIVE WASTE MANAGEMENT** ( ) N/A

A. Disposal ( ) N/A

(1) Decay-in-storage ( ) N/A

(a) Procedures approved [20.2001(a)(2), L/C] ( ) Y ( ) N
(b) In accordance with [L/C] ( ) Y ( ) N
(c) Labels removed or defaced [20.1904(b)] ( ) Y ( ) N

(2) Special procedures performed as required [L/C] ( ) Y ( ) N
(3) Liquid scintillation (LS) media and animal carcasses [20.2005] ( ) N/A ( ) Y ( ) N
(4) Improper/unauthorized disposals [20.2001] ( ) Y ( ) N
(5) Records maintained [20.2103(a),20.2108, L/C] ( ) Y ( ) N

B. Effluents ( ) N/A

(1) Release into sanitary sewer [20.2003] ( ) N/A ( ) Y ( ) N

(a) Material is readily soluble or readily dispersible [20.2003(a)(1)] ( ) Y ( ) N

(b) Monthly average release concentrations do not exceed Appendix B values [20.2003] ( ) Y ( ) N

(c) No more than 5 Ci of H-3, 1 Ci of C-14, and 1 Ci of all other radionuclides combined released in a year [20.2003] ( ) Y ( ) N

(d) Procedures to ensure representative sampling and analysis properly implemented [20.1501(a)(2), L/C] ( ) Y ( ) N

(2) Release to septic tanks [20.2003] ( ) N/A ( ) Y ( ) N

(a) Within unrestricted limits [App B, Table 2] ( ) Y ( ) N

(3) Waste incinerated ( ) N/A ( ) Y ( ) N

(a) License authorizes [20.2004(a)(3)] ( ) Y ( ) N

(b) Licensee directly monitors exhaust ( ) Y ( ) N

(c) Airborne releases evaluated and controlled [20.1501, 20.1701] ( ) Y ( ) N

(4) Control of effluents and ashes [20.1201, 20.1301, 20.1501, 20.2001, L/C] {See also IP 87102, RG 8.37} **(N/A)**

(a) Air effluent less than 10 mrem constraint limit [20.1101] **( )Y ( ) N**

(b) If no, licensee reported appropriate information to NRC **( ) Y ( ) N**

1. Corrective actions implemented and on schedule **( ) Y ( ) N**

(c) Description of effluent monitoring program

(i) Monitoring-system hardware equipment adequate ( ) Y ( ) N

(ii) Equipment calibrated as appropriate ( ) Y ( ) N

(iii) Air samples/sampling technique (charcoal, HEPA, etc.) analyzed with appropriate equipment ( ) Y ( ) N

Basis for Findings:

C. Waste Management ( ) N/A

(1) Waste compacted [L/C] ( ) Y ( ) N

(2) Storage area(s) ( ) N/A

(a) Protection from elements and fire [L/C] ( ) Y ( ) N

(b) Control of waste maintained [20.1801] ( ) Y ( ) N

(c) Containers properly labeled and area properly posted [20.1902, 20.1904] ( ) Y ( ) N

(d) Package integrity maintained [L/C] ( ) Y ( ) N

(3) Packaging, Control and Tracking
[Part 20, App. F.III.] [20.2006(d)]:
Note: The licensee's waste is likely to be Class A.

(a) Not packaged for disposal in cardboard or fiberboard boxes [61.56(a)] ( ) Y ( ) N

(b) Liquid wastes solidified, (i.e., less than 1% freestanding liquid) and void spaces minimized [61.56(a), (b)] ( ) Y ( ) N

(c) Does not generate harmful vapors [61.56] ( ) Y ( ) N

(d) Structurally stable (will maintain its physical dimensions and form under expected disposal conditions) [61.56(b)] ( ) Y ( ) N

(e) Packages properly labeled [App. F.III.A.2] ( ) Y ( ) N

(f) Licensee conducts a QC program to ensure compliance with [61.55-56] and includes management evaluation of audits [App. F.III.A.3] ( ) Y ( ) N

(g) Shipments not acknowledged within 20 days after transfer are investigated and reported [App. F.III.A.8] ( ) N/A ( ) Y ( ) N

(4) Transfers to land disposal facilities ( ) N/A

(a) Transferred to person specifically licensed to receive waste [30.41, 20.2001(b)] ( ) Y ( ) N

(b) Each shipment accompanied by a manifest prepared as specified in Section I of Appendix F [20.2006(b), App. F.III.A.4] ( ) Y ( ) N

(c) Manifests certified as specified in Section II of Appendix F [20.2006(c)] ( ) Y ( ) N

D. Records of surveys and material accountability are maintained [20.2103, 2108] ( ) Y ( ) N

Basis for Findings:

11. **RECORDKEEPING FOR DECOMMISSIONING**

A. Records of information important to the safe and effective decommissioning of the facility maintained in an independent and identifiable location until license termination. ( ) Y ( ) N

B. Records include all required information [30.35(g)] ( ) Y ( ) N

(1) List of restricted areas [30.35(g)(3)] indicates that laboratories or other rooms have been released since the last inspection ( ) Y ( ) N

(2) Confirmatory measurements show that each room is within release limits, and licensee records adequately document the basis for releasing each room ( ) Y ( ) N

C. Copies of the licensee's decommissioning cost estimates and funding methods on file ( ) Y ( ) N

D. If the licensee uses a parent company guarantee or a self-guarantee as funding method, does the file contain a copy of the financial test performed for the licensee's most recently completed fiscal year? ( ) N/A ( ) Y ( ) N

E. If "Yes" to D., do the financial test ratios meet the criteria in 10 CFR Part 30, Appendix A, Section II for parent company guarantees and Appendix C, Section II for self guarantees? ( ) Y ( ) N

F. Date that licensee's financial assurance instrument was submitted to NRC, if applicable: _____ ( ) N/A

G. Date that licensee's decommissioning plan was submitted to NRC, if applicable: _____ ( ) N/A

H. Have radiological conditions at the licensee's facility changed since the financial assurance mechanism and/or decommissioning plan was submitted due to:

(1) Incidents or events? ( ) N/A ( ) Y ( ) N

(2) Unplanned process upsets or changes? ( ) N/A ( ) Y ( ) N

(3) Unauthorized material, form, or possession limit changes? ( ) N/A ( ) Y ( ) N

(4) Any other changes? ( ) N/A ( ) Y ( ) N

If "Yes" to any of the above (1)-(4), notify regional management.

Basis for Findings (include comments and measurements on any areas the licensee released for unrestricted use):

12. **COMPLIANCE WITH DECOMMISSIONING TIMELINESS RULE**

A. License to conduct a *principle activity* has expired or been revoked ( ) Y ( ) N

B. Licensee has made a decision to permanently cease *principal activities*, at the entire site, or any separate buildings, or any outdoor areas, including inactive burial grounds ( ) Y ( ) N

C. A 24-month duration has passed in which no *principal activities*, have been conducted under the license at the site, or at any separate buildings, or any outdoor areas, including inactive burial grounds ( ) Y ( ) N

D. If "Yes" to either A or B or C:

(1) Identify Site/Bldg/Area: _____

(2) Date of occurrence of A, B, or C: _____

NOTE: If "No" to A and B and C, decommissioning timeliness rule does not apply. If "Yes" to either A or B or C, then complete Attachment B, "Decommissioning Timeliness Field Notes," for this licensee.

Basis for Findings:

13. **TRANSPORTATION (10 CFR 71.5(a) and 49 CFR 170-189)** ( ) N/A

A. Licensee Transports: *[complete sections (1) - (4), as applicable]*

(1) Limited Quantities, and/or Instruments and Manufactured Articles: (Radioactive Material, excepted package, [additional info], 7, UN 2910) ( ) N/A

(a) Package meets general design requirements [173.410] ( ) Y ( ) N

(b) Radiation level ≤ 0.005 mSv/hr (0.5 mrem/hr) (Exclusive use instruments and articles, 2 mrem/hr) ( ) Y ( ) N

(c) Contamination less than 173.443 limits, QC examination/test performed prior to each shipment [173.475(l)] ( ) Y ( ) N

(d) Limited Quantity Package marked "Radioactive" [173.421(a)(4)] ( ) Y ( ) N

(e) 173.422 certification statement attached/enclosed ("This package conforms to the conditions and limitations specified in...") ( ) Y ( ) N

D. Miscellaneous Requirements

(1) No labeled packages carried in passenger compartments [173.448(c)] ( ) Y ( ) N

(2) Overpack requirements observed, if packages are offered in overpack. Overpack marked w/ proper shipping name and number, package and overpack labeled as needed, marked "inner package complies ...." [173.24] ( ) Y ( ) N

(3) Expanded and changed A1/A2 values from the 4/1/96 rule changes have been implemented [173.435] (verify only once per licensee) ( ) Y ( ) N

(4) Written instructions included with exclusive use shipments [173.403] ( ) Y ( ) N

Basis for Findings:

14. **POSTING AND LABELING**

A. NRC Form 3 "Notice to Workers" is posted [19.11] ( ) Y ( ) N

B. Parts 19, 20, 21, Section 206 of Energy Reorganization Act, procedures adopted pursuant to Part 21, and license documents are posted or a notice indicating where documents can be examined is posted [19.11, 21.6] ( ) Y ( ) N

C. Other posting and labeling per 20.1902 and 20.1904, respectively, and the licensee is not exempted by 20.1903 or 20.1905 ( ) Y ( ) N

Basis for Findings:

15. **GENERIC COMMUNICATION OF INFORMATION**

A. Bulletins, information notices, NMSS Newsletters, etc., received by the licensee ( ) Y ( ) N

B. Licensee took appropriate action in response to bulletins, generic letters, etc. ( ) Y ( ) N

Basis for Findings:

16. **NOTIFICATION AND REPORTS**

A. Licensee in compliance with 19.13, 30.50 (reports to individuals, public and occupational, monitored to show compliance with Part 20) ( ) N/A ( ) Y ( ) N

B. Licensee in compliance with 20.2201, 30.50 (theft or loss) ( ) None ( ) Y ( ) N

C. Licensee in compliance with 20.2202, 30.50 (incidents) ( ) None ( ) Y ( ) N

D. Licensee in compliance with 20.2203, 30.50 (overexposures and high radiation levels) ( ) None ( ) Y ( ) N

E. Licensee aware of NRC Ops Center phone number [(301)-816-5100] ( ) Y ( ) N

F. Licensee in compliance with [20.2203] (constraint on air emissions) ( ) None ( ) Y ( ) N

Basis for Findings:

17. **SPECIAL LICENSE CONDITIONS OR ISSUES** ( ) N/A

A. Special license conditions or issues to be reviewed:

B. Evaluation:

18. **OBSERVATIONS/DEMONSTRATIONS OF LICENSED ACTIVITIES**

Briefly describe the activities and procedures observed and/or demonstrated during the inspection. For example, if you observed licensee personnel working in radiation areas using licensed material or performing functions associated with radiation safety such as receiving or transporting licensed material; conducting or receiving training; disposing of radioactive waste; conducting surveys; or making measurements, then describe what you saw. If the licensee demonstrated any practices at your request, describe those demonstrations. The observations and demonstrations you describe here, and elsewhere in the "Basis for Findings" sections of this report, along with measurements and some records review, should substantiate your inspection findings.

Describe what activities or procedures were observed and/or demonstrated by the licensee during the inspection:

The following sections should be completed in a narrative format by the inspector to briefly describe the measurements performed by the inspector, inspection findings, and any post-inspection communications with regional staff.

19. **NRC INSPECTOR'S MEASUREMENTS** ( ) N/A

A. Survey instrument Serial No. Date of calibration

B. Inspector performed CONFIRMATORY measurements ( ) Y ( ) N
C Inspector performed INDEPENDENT measurements ( ) Y ( ) N

D. Briefly describe the types of measurements performed (i.e., exposure rates, wipe tests, soil samples, air flow measurements, etc.), locations where measurements were taken, the results of these measurements (mR/hr, dpm, etc.), and whether inspector's results conflicted with the licensee's measurements. If independent measurements were not made, justify why they were not performed on this inspection:

20. **CONTINUATION OF REPORT ITEMS** ( ) N/A

21. **VIOLATIONS, NON-CITED VIOLATIONS (NCVs), AND OTHER ISSUES** ( ) N/A

NOTE: Briefly state (1) the requirement and (2) how and when the licensee violated the requirement. For non-cited violations (NCVs), indicate why the violation was not cited. Attach copies of all licensee documents needed to support the violation.

22. **DEBRIEF WITH REGIONAL STAFF**

A. Was inspection feedback provided to regional licensing staff? ( ) Y ( ) N

If "Yes," name of individual on the licensing staff: _____

If "Yes," describe issues discussed:

B. Briefly describe post-inspection communications with other regional staff (inspector's supervisor, Agreement State officer, State liaison officer, etc.):

23. **PERFORMANCE EVALUATION FACTORS (PEFs)**

A.	Lack of senior management involvement with the radiation safety program and/or Radiation Safety Officer (RSO) oversight	( ) Y ( ) N
B.	RSO too busy with other assignments	( ) Y ( ) N
C.	Insufficient staffing	( ) Y ( ) N
D.	Radiation Safety Committee fails to meet or functions inadequately	( ) N/A ( ) Y ( ) N
E.	Inadequate consulting services or inadequate audits conducted	( ) N/A ( ) Y ( ) N

Remarks (consider the above assessment and/or other pertinent PEFs with regard to the licensee's oversight of the radiation safety program):

Regional follow-up on above PEFs citations:

END

Attachments:
A. "Laboratory Inspection Field Notes"
B. "Decommissioning Timeliness Inspection Field Notes"

APPENDIX A - ATTACHMENT A
LABORATORY INSPECTION FIELD NOTES

1. Date _____ Authorized User(s) _____
_____

2. Location(s) Building _____ Room(s) _____

3. Person(s) Contacted _____
_____

4. Describe scope of lab use (nuclides, form, frequency, purpose, etc):

5. Training
   A. Frequency:_____ Conducted by: _____
   B. Individuals interviewed understand safety practices ( ) Y ( ) N

Basis for Findings:

6. Surveys
   A. Types of surveys performed (daily, weekly, monthly, etc.)

   B. Instrumentation properly calibrated and used ( ) Y ( ) N
   C. Efficiency of counting system(s) determined ( ) Y ( ) N
   D. Hood airflow adequate and checked as required ( ) N/A ( ) Y ( ) N
   E. Records maintained: trigger levels established, area diagram, instrument used, individual performing survey, results in proper units, decontamination performed as necessary, etc. ( ) Y ( ) N
   F. Inspector performed independent and/or confirmatory measurements ( ) Y ( ) N

Basis for Findings:

7. Receipt and Transfer

A.	Incoming packages properly surveyed	( ) Y ( ) N
B.	Interlaboratory transfers performed as specified in the license	( ) N/A ( ) Y ( ) N
C.	Records maintained	( ) Y ( ) N

Basis for Findings:

8. Personnel Dosimetry

A.	Appropriate dosimetry assigned and worn	( ) N/A ( ) Y ( ) N
B.	Results available to lab personnel	( ) Y ( ) N
C.	Bioassays performed	( ) N/A ( ) Y ( ) N

Basis for Findings:

9. Handling Waste

A.	Procedures followed	( ) Y ( ) N
B.	Proper storage (area, containers, labeling, etc.)	( ) Y ( ) N
C.	Liquid/solid waste disposal	( ) Y ( ) N
D.	Incineration	( ) N/A ( ) Y ( ) N
E.	Compaction	( ) N/A ( ) Y ( ) N
F.	Sewer discharge	( ) N/A ( ) Y ( ) N
G.	Records maintained	( ) Y ( ) N

Basis for Findings:

10. Inventory

		( ) N/A
A.	Inventory conducted	( ) Y ( ) N
B.	Records maintained	( ) Y ( ) N

Basis for Findings:

11. Storage and use of licensed material

A.	Adequate method to prevent unauthorized access	( ) Y ( ) N
B.	Condition of areas acceptable	( ) Y ( ) N
C.	Personnel wear disposable gloves and protective clothing while handling material	( ) Y ( ) N
D.	Personnel routinely monitor or frisk themselves after procedures or before leaving	( ) Y ( ) N
E.	No eating/drinking/smoking in use/storage areas	( ) Y ( ) N
F.	No food, drink, or personal items stored in use/storage areas	( ) Y ( ) N
G.	Use of shielding/distance while using/storing material	( ) Y ( ) N
H.	RAM is under surveillance and control (when not in storage) in an unrestricted area	( ) Y ( ) N
I.	Proper dosimetry worn	( ) Y ( ) N
J.	Radioactive waste disposed of in proper containers	( ) Y ( ) N
K.	No pipetting by mouth	( ) Y ( ) N

Basis for Findings:

12. Posting and Labeling

A.	NRC Form 3 "Notice to Workers"	( ) Y ( ) N
B.	Parts 19, 20, 21, Section 206 of Energy Reorganization Act, procedures for Part 21, and license documents or a notice indicating where documents can be examined	( ) Y ( ) N
C.	Other posting and labeling requirements met	( ) Y ( ) N

Basis for Findings:

13. Violations Identified:

APPENDIX A - ATTACHMENT B
DECOMMISSIONING TIMELINESS FIELD NOTES

Licensee: _____

Date of Inspection: _____

1. **COMPLIANCE WITH DECOMMISSIONING TIMELINESS RULE**
(NOTE: Repeat the answers given in Section 12 of the main body of the field notes. The issues in subsequent sections are dependent on the answers to these questions.)

A. License to conduct a *principle activity* has expired or been revoked ( ) Y ( ) N

B. Licensee has made a decision to permanently cease *principal activities*, at the entire site, or any separate buildings, or any outdoor areas, including inactive burial grounds ( ) Y ( ) N

C. A 24-month duration has passed in which no *principal activities*, have been conducted under the license at the site, or at any separate buildings, or any outdoor areas, including inactive burial grounds ( ) Y ( ) N

D. If "Yes" to either A or B or C above:

(1) Identify Site/Bldg/Area: _____

(2) Date of occurrence of A, B, or C: _____

2. **NOTIFICATION REQUIREMENTS**

A. Licensee has provided written notification to NRC within 60 days of the occurrence of 1.A., 1.B., or 1.C. above ( ) Y ( ) N

If "Yes," date of notification: _____

B. If the licensee is requesting to delay initiation of the decommissioning process, the licensee has provided written notification to NRC within 30 days of occurrence of 1.A., 1.B., or 1.C. above ( ) N/A ( ) Y ( ) N

If "Yes," date of notification: _____

Comments:

3. **DECOMMISSIONING PLAN/SCHEDULE REQUIREMENTS**

A. Licensee is required to submit a decommissioning plan per 10 CFR 30.36(g), 40.42(g), 70.38(g), or 10 CFR Part 72? ( ) Y ( ) N

If "No" to 3.A., answer the following items B. - F.:

B. The decommissioning work scope is covered by current license conditions ( ) Y ( ) N

C. Decommissioning has been initiated within 60 days of notification to NRC, or NRC has granted a delay ( ) Y ( ) N

D. If licensee has initiated decommissioning, give date the decommissioning was initiated:

Initiation date: _____

E. If decommissioning has been completed, it was completed within 24 months of notification to NRC ( ) N/A ( ) Y ( ) N

F. If decommissioning is still scheduled to be completed, it is on schedule to be completed within 24 months of notification to NRC ( ) N/A ( ) Y ( ) N

Comments:

If "Yes" to 3.A., answer the following items G. - J.:

G. The decommissioning plan has been submitted to NRC within 12 months of notification ( ) Y ( ) N

If "Yes," date of submittal: _____

If NRC approved, date of NRC approval: _____

H. Has the licensee submitted an alternative schedule request? ( ) Y ( ) N

If "Yes," date of submittal: _____

I. If decommissioning has been completed, it was completed within 24 months after approval of the decommissioning plan ( ) N/A ( ) Y ( ) N

J. If decommissioning is still scheduled to be completed, it is on schedule to be completed within 24 months after approval of the decommissioning plan ( ) N/A ( ) Y ( ) N

Comments:

Violations identified, if any:

APPENDIX A
INDUSTRIAL/ACADEMIC/RESEARCH INSPECTION FIELD NOTES

Region I

Inspection Report No. 98-001 License No. 29-01022-07

Licensee (Name & Address): Docket No. 030-06989

DEPARTMENT OF THE ARMY
U.S. ARMY COMMUNICATIONS ELECTRONIC
COMMAND FORT MONMOUTH
NEW JERSEY 07703-5000

Licensee Contact J. SANTARSIERO Telephone No. (732) 532-9723

Amendments Issued Since Last Inspection: (Numbers) 28
Dates of Above Amendments: 4-6-98

Priority: 3E
Program Code 03511

Date of Last Inspection 8-15-95
Date of This Inspection AUGUST 19 & 20, 1998

Type of Inspection:

( ) Announced	(✓) Unannounced
(✓) Routine	( ) Special
( ) Initial	( ) Reinspection

Next Inspection Date 9/2001 (✓) Normal ( ) Reduced ( ) Extended

Justification for change in normal inspection frequency:

Summary of Findings and Action:

(✓) No violations cited, Clear NRC Form 591 or regional letter issued
( ) Violation(s), NRC Form 591 issued
( ) Violation(s), regional letter issued
( ) Followup on previous violations

Inspector: Richard H. Judnic (Signature) Date August 20, 1998

Approved: John R McGrath (Signature) Date 9/21/98

Field notes are to be used by the inspector to assist with the performance of the inspection. Note that all areas indicated in the field notes are not required to be addressed during each inspection. However, for those areas not covered during the inspection, a notation ("Not Reviewed") should be made in each section where applicable. Additionally, all areas covered during the inspection should be documented in sufficient detail to describe what activities and/or records the inspector observed. For example, the types of records that were reviewed and the time periods covered by those records should be noted. If the licensee demonstrates any practices at your request, describe those demonstrations. The observations and demonstrations you describe in this report, along with measurements and some records review, should substantiate your inspection findings.

NOTE: For inspections of radioactive drug distributors, ensure that all applicable sections (regarding 10 CFR Part 32) of the radiopharmacy field notes are completed.

1. **INSPECTION, LICENSING, AND INCIDENT HISTORY**

A. Violations were identified during any of the last two inspections or two years, whichever is longer. (N/A = Initial insp.) ( ) N/A ( ) Y (~~)~~ N

B. Response letter(s) or 591(s) dated _____

C. Violations from previous inspection(s):

REQUIREMENT CITED	STATUS

D. Any repeat violation(s) identified? If "Yes," explain: ( ) Y ( ) N/A

E. License amendments issued since last inspection, or program changes noted in the license:

AMENDMENT #	DATE	SUBJECT
28	7-6-98	ADDITIONAL LOCATION OF CASE

F. During this inspection, was the licensee's implementation of all of the above amendments or program changes inspected/observed?

(✓) N/A ( ) Y ( ) N

G. During this inspection, were any violations identified involving any of the above amendments or program changes?

(✓) N/A ( ) Y ( ) N

H. List any incidents or events reported to NRC since the last inspection (Note: "None" indicates that regional event logs, event files, and the licensing file have no evidence of any incidents or events since the last inspection):

(✓) None

INCIDENT OR EVENT

I. During this inspection, were the incidents/events reviewed with the licensee, and was the licensee's follow-up to the incidents/events examined?

(✓) N/A ( ) Y ( ) N

J. Describe the licensee's follow-up in response to the events/incidents listed in 1.H.: N/A

Comments:

2. **ORGANIZATION AND SCOPE OF PROGRAM**

A. Describe the licensee's organizational structure to indicate the "chain-of-command" from senior management to authorized users of licensed material. Show or describe where the RSO and Chairperson of the RSC are located in the licensee's organization and to whom they report:

No change since last inspection 3/95. For details see attached copy of CECO 05pm organizational chart

B. Identify licensee personnel contacted during the inspection (including those individuals contacted by telephone).

S. HORNE DIRECTOR, SAFETY RISK MANAGEMENT
*C. GOLDBERG - H.P.
#* H. BIANCHI - H.P.
J. SANTARSIERO - RSO
KROENBERG - PHYSICIST
* P. LOVELL - ARSO

(Use the following identification symbols:)
Individuals present at entrance meeting
* Individuals present at exit meeting
+ Individuals contacted by telephone

C. Authorized for multiple locations of use If yes, may use <u>ATTACHMENT A</u> as a guide for inspecting laboratories. (+) Y ( ) N

D.* Authorized for multiple permanent field office locations
(1) Inspection performed at multiple field offices ( ) Y (+) N
(2) If "Yes," list office locations inspected: ( ) Y ( ) N|A

E. Authorized for temporary job site locations
(1) Inspection performed at temporary job site(s) ( ) Y (+) N
(2) If not, describe why not: ( ) Y ( ) N|A

* License Condition lists Building 9401 Cowan area as a place of use. However licensee has yet to begin construction. Only (1) use area Wall Township

F. Briefly describe scope of activities, including types and quantities of use involving licensed material, frequency of use, staff size, etc.

Small(1) program (2) authorized users
J.L. Shepherd Model 81-22 irradiator
Cs-137 - 900 curies
Co-60 - 2100 curies
used for irradiation research & development
device still in testing phase has not been used

3. **MANAGEMENT OVERSIGHT**

A. Radiation Safety Committee (RSC) required [L/C][1] (Y) ( ) N

(1) RSC fulfills license requirements [L/C] (Y) ( ) N
(2) Records maintained [L/C] (Y) ( ) N

B. Radiation Safety Officer (RSO)

(1) Authorized on license [L/C] (Y) ( ) N
(2) Fulfills duties as RSO (Y) ( ) N

C. Audits, Reviews, or Inspections

(1) Audits are required [L/C] (Y) ( ) N
(2) Audits or inspections are conducted (Y) ( ) N
Audits conducted by CECOM
Frequency CYCLE EVERY 24 MONTHS
(3) Content and implementation of the radiation protection program reviewed annually by the licensee [20.1101(c)][2] 24.18
(4) Records maintained [20.2102] (Y) ( ) N

D. Use by authorized individuals [L/C] (Y) ( ) N

E. If supervision permitted by the license or by regs, authorized users supervise adequately [L/C] only (2) (Y) ( ) N

RSC meets Y4
6-25-98 9-11-97 12-17-96
3-19-98 6-19-97 9-26-96
1-15-98 3-25-97

[1] Here and throughout the field notes, "L/C" means "license condition."

[2] Here and throughout the field notes, sections of 10 CFR are referenced only by their section numbers.

4. FACILITIES

A. Facilities as described in license application [L/C] (✓) Y ( ) N

B. Facilities are secured to prevent unauthorized access [L/C] (✓) Y ( ) N

C. Describe any self-contained dry-source-storage irradiators and/or survey instrument calibrators (model, radionuclide, activity, use, etc.) ( ) N/A

J. L. SHEPHERD & ASS MODEL 81-22 (CUSTOM)
Cs-137 = [ ]
Co-60 =
will be used for research by Army & outside organizations. Will be moved to new location end 1999

(1) Maintenance of safety-related components performed by authorized persons [L/C] (✓) Y ( ) N

(2) Access to keys and/or material controlled [20.1801-1802, L/C] (✓) Y ( ) N

(3) Access to high/very high radiation areas controlled [20.1601-1602, L/C] (✓) Y ( ) N

(4) Adequate protection of shield integrity, fire protection [L/C] (✓) Y ( ) N

Basis for Findings:

Inspector toured facility & verified that key control was implemented & adequate shielding. Discussions w user

5. EQUIPMENT AND INSTRUMENTATION

A. Instruments and equipment:

(1) Appropriate operable survey instrumentation possessed and readily accessible [L/C] (✓) Y ( ) N

(2) Calibrated as required [20.1501, L/C] (✓) Y ( ) N

(3) Calibration records maintained [20.2103(a)] (✓) Y ( ) N

B. Procedures established to identify and report safety component defects [21.21] (✓) Y ( ) N

Basis for Findings:

Inspector verified that users had available appropriate & operable survey instrumentation which was in calibration. Procedures established to identify & report safety component defects. Inspector tested interlock systems & area alarm

E2

6. **MATERIALS RECEIPT, USE, TRANSFER, AND CONTROL**

A. Isotope, chemical form, quantity, and use, as authorized [L/C] (Y) ( ) N

B. Licensed materials secured to prevent unauthorized removal or access [20.1801-1802] (Y) ( ) N

(1) Licensed material in storage in controlled or unrestricted areas is secured from unauthorized removal or access [20.1801] ( ) Y ( ) N (A)

(2) Licensed material in controlled or unrestricted areas and not in storage is controlled and under constant surveillance [20.1802] ( ) Y ( ) N (A)

(3) Access to restricted areas is limited [20.1003] (Y) ( ) N

C. Describe how packages are received and by whom: (Y) ( ) N/A

D. Written package opening procedures established and followed [20.1906(e)] ( ) Y ( ) N

E. All incoming packages with DOT labels wiped, unless exempted (gases and special form) [20.1906(b)(1)] ( ) Y ( ) N

F. Incoming packages surveyed [20.1906(b)(2)] ( ) Y ( ) N

G. Monitoring in (E) and (F) above, performed within time specified [20.1906(c)] ( ) Y ( ) N

H. Transfer(s) between licensees performed [30.41] ( ) Y ( ) N

I. All sources surveyed before shipment and transfer [20.1501(a), L/C] ( ) Y ( ) N

J. Records of surveys and receipt/transfer maintained [20.2103(a), 30.51] ( ) Y ( ) N

K. Transfers among licensee's authorized users or locations performed as required [L/C] ( ) N/A ( ) Y ( ) N

L. Arrangements made for packages containing quantities of radioactive material in excess of Type A quantity [20.1906(a)] ( ) N/A ( ) Y ( ) N

M. Package receipt/distribution activities evaluated for compliance with 20.1301 [20.1302] ( ) N/A ( ) Y ( ) N

Basis for Findings:

Inspector verified by observation + record review that possession of isotopes are within limits. There are 3 levels of access control to prevent unauthorize removal or access. Security is remote with 24 hr response

7. **TRAINING, RETRAINING, AND INSTRUCTIONS TO WORKERS**

A. Instructions to workers/students [10 CFR 19.12] (Y) ( ) N
B. Training program required [L/C] (Y) ( ) N

(1) If so, briefly describe training program:
+ 4 hour vendor training
S. TECHNICO - 8-12-98
E. BECHTEL-

(2) Training program implemented (Y) ( ) N
(3) Periodic training program required (Y) ( ) N
(4) Periodic training program implemented ( ) Y ( ) N/A
(5) Records maintained (Y) ( ) N

C. Individual's understanding of procedures and ~~Annual training will be required~~ regulations is adequate (Y) ( ) N

(1) Current operating procedures (Y) ( ) N
(2) Emergency procedures (Y) ( ) N
(3) Use of survey instrumentation (Y) ( ) N

D. Revised Part 20
Workers cognizant of requirements for:

(1) Radiation safety program [20.1101] (Y) ( ) N
(2) Annual dose limits [20.1301-1302] (Y) ( ) N
(3) New NRC Forms 4 and 5 (N/A) ( ) Y ( ) N
(4) 10% monitoring threshold [20.1502] ( ) Y ( ) N (A)
(5) Dose limits to embryo/fetus and declared pregnant worker [20.1208] ( ) Y ( ) N (A)
(6) Grave danger posting [20.1902] (N/A) ( ) Y ( ) N
(7) Procedures for opening packages [20.1906] (N/A) ( ) Y ( ) N
(8) Sewer disposal limits [20.2003] (N/A) ( ) Y ( ) N

Basis for Findings:
Inspector reviewed certificates of training for details see attached copies. Discussions w authorized users.

8. **AREA RADIATION SURVEYS AND CONTAMINATION CONTROL**

A. Briefly describe area survey requirements [20.1501(a), L/C]:
area acceptance survey conducted 8-11-98

B. Performed as required [20.1501(a), L/C] (Y) ( ) N

(1) Contamination found ( ) Y (N)
(2) Corrective action taken and documented ( ) Y ( ) N (NA)

C. Records maintained [20.2103, L/C] (Y) ( ) N
D. Handling and use of radioactive materials [L/C]

(1) Protective clothing worn ( ) Y ( ) N (NA)
(2) Personnel routinely monitor or frisk themselves after procedures or before leaving ( ) Y ( ) N (NA)
(3) No eating/drinking/smoking in use/storage areas ( ) Y ( ) N (NA)
(4) No food, drink, or personal effects stored in use/storage areas ( ) Y ( ) N (NA)
(5) Proper dosimetry worn (Y) ( ) N
(6) Radioactive waste disposed in proper containers ( ) Y ( ) N (NA)
(7) No pipetting by mouth ( ) Y ( ) N (NA)
(8) Use of shielding/distance while using/storing material (Y) ( ) N

Basis for Findings:

Observations + record review by inspector

E. Protection of members of the public

(1) Licensee made adequate surveys to demonstrate either: (1) that the TEDE to the individual likely to receive the highest dose does not exceed 100 mrem in a year; or (2) that if an individual were continuously present in an unrestricted area, the external dose would not exceed 2 mrem in any hour and 50 mrem in a year [20.1301(a)(1), 1302(b)]; **(3) the air emissions to the atmosphere are and within the constraint level [20.1101]** **(Y) ( ) N**
(2) Unrestricted area radiation levels do not exceed 2 mrem in any one hour [20.1301(a)(2)] (Y) ( ) N
(3) Records maintained [20.2103, 20.2107] (Y) ( ) N

F. Leak tests and Inventories [L/C]

(1) Performed as required ( ) N/A (Y) ( ) N
(2) Adequate analysis methodology and sensitivity ( ) N/A (Y) ( ) N
(3) Records maintained [L/C] (Y) ( ) N

Basis for Findings:

Inspector reviewed last inventory 6/29/98 & verified current leak test results. For details see attached.

9. **RADIATION PROTECTION**

A. Licensee performed exposure evaluation [20.1501] (✓) Y ( ) N

B. Licensee incorporated ALARA considerations in the radiation protection program [20.1101(b)] (✓) Y ( ) N

C. External Dosimetry ( ) N/A

(1) Licensee monitors workers [20.1502(a), L/C] (✓) Y ( ) N

(2) External exposures account for contributions from airborne activity [20.1203] (✓) N/A ( ) Y ( ) N

(3) Processor U.S. Army Frequency 4

(4) Processor is NVLAP-approved [20.1501(c)] (✓) Y ( ) N

(5) Dosimeters exchanged at required frequency [L/C] (✓) Y ( ) N

D. Internal Dosimetry (✓) N/A

(1) Licensee monitors workers [20.1502(b), L/C] ( ) Y ( ) N

(2) Briefly describe licensee's program for monitoring and controlling internal exposures [20.1701-1702, L/C]:

(3) Air sampling performed ( ) Y ( ) N

(4) Monitoring/controlling program implemented ( ) Y ( ) N

(5) Respiratory protection equipment [20.1703, L/C] ( ) Y ( ) N

E. Reports (✓) N/A

(1) Reviewed by RSO Frequency 4

(2) Inspector reviewed personnel monitoring records for period JAN 97 to MARCH 98

(3) Prior dose determined for individuals likely to receive doses [20.2104] ( ) Y ( ) N

(4) Maximum exposures TEDE 0 (14) Other

(5) Maximum CDEs Organs

(6) Maximum CEDE

(7) Licensee sums internal and external [20.1202] ( ) Y ( ) N (A)

(8) TEDEs and TODEs within limits [20.1201] ( ) Y ( ) N (4)

(9) NRC Forms or equivalent [20.2104(d), 2106(c)]

(a) NRC Form 4 ( ) Y ( ) N — Complete: (✓) Y ( ) N
(b) NRC Form 5 ( ) Y ( ) N — Complete: (✓) Y ( ) N

(10) Worker declared her pregnancy in writing during inspection period (review records) (✓) N/A ( ) Y ( ) N

If "yes," licensee in compliance with dose to embryo/fetus [20.1208] ( ) Y ( ) N
and records maintained [20.2106(e)] ( ) Y ( ) N

F. Who performed PSEs at this facility (number of people involved and doses received)? [20.1206, 20.2104-2105, 20.2204] (✓) N/A

G. Records of exposures, surveys, monitoring, and evaluations maintained [20.2102-2103, 20.2106, L/C] (✓) Y ( ) N

H. Licensee advises each worker annually of worker's dose [19.13(b)] (✓) Y ( ) N

Basis for Findings:

Discussions w RSO + record reviews by inspector

10. **RADIOACTIVE WASTE MANAGEMENT** (✓) N/A

A. Disposal ( ) N/A

(1) Decay-in-storage ( ) N/A

(a) Procedures approved [20.2001(a)(2), L/C] ( ) Y ( ) N
(b) In accordance with [L/C] ( ) Y ( ) N
(c) Labels removed or defaced [20.1904(b)] ( ) Y ( ) N

(2) Special procedures performed as required [L/C] ( ) Y ( ) N
(3) Liquid scintillation (LS) media and animal carcasses [20.2005] ( ) N/A ( ) Y ( ) N
(4) Improper/unauthorized disposals [20.2001] ( ) Y ( ) N
(5) Records maintained [20.2103(a),20.2108, L/C] ( ) Y ( ) N

B. Effluents

(1) Release into sanitary sewer [20.2003] ( ) N/A ( ) Y ( ) N

(a) Material is readily soluble or readily dispersible [20.2003(a)(1)] ( ) Y ( ) N

(b) Monthly average release concentrations do not exceed Appendix B values [20.2003] ( ) Y ( ) N

(c) No more than 5 Ci of H-3, 1 Ci of C-14, and 1 Ci of all other radionuclides combined released in a year [20.2003] ( ) Y ( ) N

(d) Procedures to ensure representative sampling and analysis properly implemented [20.1501(a)(2), L/C] ( ) Y ( ) N

(2) Release to septic tanks [20.2003] ( ) N/A ( ) Y ( ) N

(a) Within unrestricted limits [App B, Table 2] ( ) Y ( ) N

(3) Waste incinerated ( ) N/A ( ) Y ( ) N

(a) License authorizes [20.2004(a)(3)] ( ) Y ( ) N

(b) Licensee directly monitors exhaust ( ) Y ( ) N

(c) Airborne releases evaluated and controlled [20.1501, 20.1701] ( ) Y ( ) N

(4) Control of effluents and ashes [20.1201, 20.1301, 20.1501, 20.2001, L/C] {See also IP 87102, RG 8.37} **(N/A)**

(a) Air effluent less than 10 mrem constraint limit [20.1101] **( )Y ( ) N**

(b) If no, licensee reported appropriate information to NRC **( ) Y ( ) N**

1. Corrective actions implemented and on schedule **( ) Y ( ) N**

(c) Description of effluent monitoring program

(i) Monitoring-system hardware equipment adequate ( ) Y ( ) N

(ii) Equipment calibrated as appropriate ( ) Y ( ) N

(iii) Air samples/sampling technique (charcoal, HEPA, etc.) analyzed with appropriate equipment ( ) Y ( ) N

Basis for Findings:

C. Waste Management ( ) ~~N/A~~

(1) Waste compacted [L/C] ( ) Y ( ) N

(2) Storage area(s) ( ) N/A

(a) Protection from elements and fire [L/C] ( ) Y ( ) N

(b) Control of waste maintained [20.1801] ( ) Y ( ) N

(c) Containers properly labeled and area properly posted [20.1902, 20.1904] ( ) Y ( ) N

(d) Package integrity maintained [L/C] ( ) Y ( ) N

(3) Packaging, Control and Tracking [Part 20, App. F.III.] [20.2006(d)]:
Note: The licensee's waste is likely to be Class A.

(a) Not packaged for disposal in cardboard or fiberboard boxes [61.56(a)] ( ) Y ( ) N

(b) Liquid wastes solidified, (i.e., less than 1% freestanding liquid) and void spaces minimized [61.56(a), (b)] ( ) Y ( ) N

(c) Does not generate harmful vapors [61.56] ( ) Y ( ) N

(d) Structurally stable (will maintain its physical dimensions and form under expected disposal conditions) [61.56(b)] ( ) Y ( ) N

(e) Packages properly labeled [App. F.III.A.2] ( ) Y ( ) N

(f) Licensee conducts a QC program to ensure compliance with [61.55-56] and includes management evaluation of audits [App. F.III.A.3] ( ) Y ( ) N

(g) Shipments not acknowledged within 20 days after transfer are investigated and reported [App. F.III.A.8] ( ) N/A ( ) Y ( ) N

(4) Transfers to land disposal facilities ( ) ~~N~~/A

(a) Transferred to person specifically licensed to receive waste [30.41, 20.2001(b)] ( ) Y ( ) N

(b) Each shipment accompanied by a manifest prepared as specified in Section I of Appendix F [20.2006(b), App. F.III.A.4] ( ) Y ( ) N

(c) Manifests certified as specified in Section II of Appendix F [20.2006(c)] ( ) Y ( ) N

D. Records of surveys and material accountability are maintained [20.2103, 2108] ( ) Y ( ) N

Basis for Findings:

11. **RECORDKEEPING FOR DECOMMISSIONING**

A. Records of information important to the safe and effective decommissioning of the facility maintained in an independent and identifiable location until license termination. (✓) Y ( ) N

B. Records include all required information [30.35(g)] (✓) Y ( ) N

(1) List of restricted areas [30.35(g)(3)] indicates that laboratories or other rooms have been released since the last inspection (✓) Y ( ) N

(2) Confirmatory measurements show that each room is within release limits, and licensee records adequately document the basis for releasing each room (✓) Y ( ) N

C. Copies of the licensee's decommissioning cost estimates and funding methods on file ( ) Y ( ) N (✓)

D. If the licensee uses a parent company guarantee or a self-guarantee as funding method, does the file contain a copy of the financial test performed for the licensee's most recently completed fiscal year? (✓) N/A ( ) Y ( ) N

E. If "Yes" to D., do the financial test ratios meet the criteria in 10 CFR Part 30, Appendix A, Section II for parent company guarantees and Appendix C, Section II for self guarantees? ( ) Y ( ) N

F. Date that licensee's financial assurance instrument was submitted to NRC, if applicable: _____ (✓) N/A

G. Date that licensee's decommissioning plan was submitted to NRC, if applicable: _____ (✓) N/A

H. Have radiological conditions at the licensee's facility changed since the financial assurance mechanism and/or decommissioning plan was submitted due to:

(1) Incidents or events? (✓) N/A ( ) Y ( ) N

(2) Unplanned process upsets or changes? ( ) N/A ( ) Y ( ) N

(3) Unauthorized material, form, or possession limit changes? (✓) N/A ( ) Y ( ) N

(4) Any other changes? ( ) N/A ( ) Y ( ) N

If "Yes" to any of the above (1)-(4), notify regional management.

Basis for Findings (include comments and measurements on any areas the licensee released for unrestricted use):

discussions w/ PSO

12. **COMPLIANCE WITH DECOMMISSIONING TIMELINESS RULE**

A. License to conduct a *principle activity* has expired or been revoked ( ) Y (~~)~~N

B. Licensee has made a decision to permanently cease *principal activities*, at the entire site, or any separate buildings, or any outdoor areas, including inactive burial grounds ( ) Y (~~)~~N

C. A 24-month duration has passed in which no *principal activities*, have been conducted under the license at the site, or at any separate buildings, or any outdoor areas, including inactive burial grounds ( ) Y (~~)~~N

D. If "Yes" to either A or B or C:

(1) Identify Site/Bldg/Area: _____

(2) Date of occurrence of A, B, or C: _____

NOTE: If "No" to A and B and C, decommissioning timeliness rule does not apply. If "Yes" to either A or B or C, then complete Attachment B, "Decommissioning Timeliness Field Notes," for this licensee.

Basis for Findings:

Records reviews by inspector

13. **TRANSPORTATION (10 CFR 71.5(a) and 49 CFR 170-189)** ( ) N/A

A. Licensee Transports: *[complete sections (1) - (4), as applicable]*

(1) Limited Quantities, and/or Instruments and Manufactured Articles: (Radioactive Material, excepted package, [additional info], 7, UN 2910) ( ) N/A

(a) Package meets general design requirements [173.410] ( ) Y ( ) N

(b) Radiation level ≤ 0.005 mSv/hr (0.5 mrem/hr) (Exclusive use instruments and articles, 2 mrem/hr) ( ) Y ( ) N

(c) Contamination less than 173.443 limits, QC examination/test performed prior to each shipment [173.475(l)] ( ) Y ( ) N

(d) Limited Quantity Package marked "Radioactive" [173.421(a)(4)] ( ) Y ( ) N

(e) 173.422 certification statement attached/enclosed ("This package conforms to the conditions and limitations specified in...") ( ) Y ( ) N

(2) Type A Quantities (Radioactive Material, nos, 7, UN 2982) ( ) N/A

(a) Packaging:

(I) Packaging is proper for contents (i.e., DOT 7A), is unimpaired, and is prepared correctly [173.475(a)-(f)] ( ) Y ( ) N

(ii) All packages meet general design requirements [173.410] ( ) Y ( ) N

(iii) DOT 7A Package meets additional Type A design requirements [173.412, 178.350] ( ) Y ( ) N

(b) Recordkeeping:

(I) Special Form source records [173.476(a)] ( ) Y ( ) N

(ii) DOT 7A performance/design documentation [173.415(a)] ( ) Y ( ) N

(c) Hazards communications requirements (consult the "NRC field reference charts" that correspond to elements (I) through (v), below):

(I) Shipping Papers [172.200-205] ( ) Y ( ) N

(ii) Marking Packages [172.300-338] ( ) Y ( ) N

(iii) Labeling Packages [172.400-450] ( ) Y ( ) N

(iv) Placarding Vehicles [172.500-560] ( ) Y ( ) N

(v) Emergency Response information and guidance [172.600-604] ( ) Y ( ) N

(d) Radiation level/Contamination limits [173.441, 173.443]

(I) Package levels within limits ( ) Y ( ) N

(ii) QC examination/test performed prior to each shipment [173.475(I)] ( ) Y ( ) N

(3) Type B Quantities (Radioactive Material, nos, 7, UN 2982) ( ) N/A

(a) Packaging is proper for contents (i.e., Type B), is unimpaired, and is prepared correctly [173.475(a)-(f)] ( ) Y ( ) N

(b) Inspector must complete Section 2 of NRC Inspection Procedure (IP) 86740

(c) Sections 2.c. and 2.d., shown in the previous section for Type A Quantities, also apply. Complete those sections.

(4) LSA Material and SCO (Radioactive Material, LSA, nos, 7, UN 2912) or (Radioactive Material, SCO, nos, 7, UN 2913) ( ) N/A

(a) If licensee makes significant LSA/SCO shipments, inspector should complete Inspection Requirement 03.02 of Temporary Instruction (TI) 2515/133 (issued 3/15/96)

(b) Otherwise, if licensee has a minor LSA/SCO program:

(i) Licensee properly characterizing material as LSA/SCO [173.403] ( ) Y ( ) N

(ii) All packages meet general design requirements [173.410] ( ) Y ( ) N

(iii) Proper LSA/SCO packaging selected and used [173.475, 173.427] ( ) Y ( ) N

(iv) Placarding exclusive use vehicles, marking package "Radioactive-LSA" or "Radioactive-SCO," as appropriate [173.427(a)(6)] ( ) Y ( ) N

(v) Shipping Papers [172.200-205] (see "NRC field reference chart" for content and exceptions) ( ) Y ( ) N

B. DOT HAZMAT Employee Training Program [49 CFR 172.700-704]:

(1) Each HAZMAT employee receives training and is tested [172.702] ( ) Y ( ) N

(2) Recurrent training at least every 2 years [172.704(c)(4)] ( ) Y ( ) N

(3) HAZMAT employee training includes general awareness, function-specific, and safety training [172.704] ( ) Y ( ) N

(4) HAZMAT employer recordkeeping includes employee name, completion date, description/copy/location of training materials, name and address of training provider, and certification [172.704(d)] ( ) Y ( ) N

C. Carrier Modal Specific Requirements, Highway Transportation [49 CFR Part 177]: ( ) N/A

(1) Driver Training, or CDL w/ HAZMAT endorsement [177.800, 177.816] ( ) Y ( ) N

(2) Incident Reporting to DOT [177.807, see also 171.15 and 171.16] ( ) Y ( ) N

(3) Shipping Paper Accessibility (on seat or in driver's side door pocket, readily visible) ( ) Y ( ) N

(4) Placarded Vehicles Routing and Driver Training requirements [177.825 and 49 CFR 397 Subpart D (i.e., the motor carrier regs)] ( ) Y ( ) N

(5) Sum of total package TIs on non-exclusive use vehicle < 50 [177.842(a)] ( ) Y ( ) N

(6) Packages blocked/braced for transport [177.842(c)] ( ) Y ( ) N

D. Miscellaneous Requirements

(1) No labeled packages carried in passenger compartments [173.448(c)] ( ) Y ( ) N

(2) Overpack requirements observed, if packages are offered in overpack. Overpack marked w/ proper shipping name and number, package and overpack labeled as needed, marked "inner package complies ...." [173.24] ( ) Y ( ) N

(3) Expanded and changed A1/A2 values from the 4/1/96 rule changes have been implemented [173.435] (verify only once per licensee) ( ) Y ( ) N

(4) Written instructions included with exclusive use shipments [173.403] ( ) Y ( ) N

Basis for Findings:

14. **POSTING AND LABELING**

A. NRC Form 3 "Notice to Workers" is posted [19.11] (X) Y ( ) N

B. Parts 19, 20, 21, Section 206 of Energy Reorganization Act, procedures adopted pursuant to Part 21, and license documents are posted or a notice indicating where documents can be examined is posted [19.11, 21.6] (X) Y ( ) N

C. Other posting and labeling per 20.1902 and 20.1904, respectively, and the licensee is not exempted by 20.1903 or 20.1905 (X) Y ( ) N

Basis for Findings:

Observations by inspector verified all posting & labeling in place

15. **GENERIC COMMUNICATION OF INFORMATION**

A. Bulletins, information notices, NMSS Newsletters, etc., received by the licensee (✓) Y ( ) N

B. Licensee took appropriate action in response to bulletins, generic letters, etc. (✓) Y ( ) N

Basis for Findings:

Discussion w RSO

16. **NOTIFICATION AND REPORTS**

A. Licensee in compliance with 19.13, 30.50 (reports to individuals, public and occupational, monitored to show compliance with Part 20) (✓) N/A ( ) Y ( ) N

B. Licensee in compliance with 20.2201, 30.50 (theft or loss) (✓) None ( ) Y ( ) N

C. Licensee in compliance with 20.2202, 30.50 (incidents) (✓) None ( ) Y ( ) N

D. Licensee in compliance with 20.2203, 30.50 (overexposures and high radiation levels) (✓) None ( ) Y ( ) N

E. Licensee aware of NRC Ops Center phone number [(301)-816-5100] ( ) Y ( ) N

F. Licensee in compliance with [20.2203] (constraint on air emissions) **(✓) None ( ) Y ( ) N**

Basis for Findings:

Discussion w RSO

17. **SPECIAL LICENSE CONDITIONS OR ISSUES** (✓) N/A

A. Special license conditions or issues to be reviewed:

B. Evaluation:

18. **OBSERVATIONS/DEMONSTRATIONS OF LICENSED ACTIVITIES**

Briefly describe the activities and procedures observed and/or demonstrated during the inspection. For example, if you observed licensee personnel working in radiation areas using licensed material or performing functions associated with radiation safety such as receiving or transporting licensed material; conducting or receiving training; disposing of radioactive waste; conducting surveys; or making measurements, then describe what you saw. If the licensee demonstrated any practices at your request, describe those demonstrations. The observations and demonstrations you describe here, and elsewhere in the "Basis for Findings" sections of this report, along with measurements and some records review, should substantiate your inspection findings.

Describe what activities or procedures were observed and/or demonstrated by the licensee during the inspection:

Security procedures associated with safe storage device

The following sections should be completed in a narrative format by the inspector to briefly describe the measurements performed by the inspector, inspection findings, and any post-inspection communications with regional staff.

19. **NRC INSPECTOR'S MEASUREMENTS** ( ) N/A

A.

Survey instrument	Serial No.	Date of calibration
Ludlum 14C	6376	3/93

B. Inspector performed CONFIRMATORY measurements (Y) ( ) N

C Inspector performed INDEPENDENT measurements (Y) ( ) N

D. Briefly describe the types of measurements performed (i.e., exposure rates, wipe tests, soil samples, air flow measurements, etc.), locations where measurements were taken, the results of these measurements (mR/hr, dpm, etc.), and whether inspector's results conflicted with the licensee's measurements. If independent measurements were not made, justify why they were not performed on this inspection:

Inspector performed exposure rate measurements in unrestricted area to confirm licensee survey all readings ±.1 mR/hr outside of building. Independent measurements in restricted area were less than ±.2 mR/hr with shield source & table. No conflict

20. **CONTINUATION OF REPORT ITEMS** ( ) N/A

21. **VIOLATIONS, NON-CITED VIOLATIONS (NCVs), AND OTHER ISSUES** ( ) ~~N/A~~

NOTE: Briefly state (1) the requirement and (2) how and when the licensee violated the requirement. For non-cited violations (NCVs), indicate why the violation was not cited. Attach copies of all licensee documents needed to support the violation.

clear

22. **DEBRIEF WITH REGIONAL STAFF**

A. Was inspection feedback provided to regional licensing staff? ( ) Y ( ) N

If "Yes," name of individual on the licensing staff: _____

If "Yes," describe issues discussed:

B. Briefly describe post-inspection communications with other regional staff (inspector's supervisor, Agreement State officer, State liaison officer, etc.):

clear inspection J. McGrath

23. **PERFORMANCE EVALUATION FACTORS (PEFs)**

A.	Lack of senior management involvement with the radiation safety program and/or Radiation Safety Officer (RSO) oversight	( ) Y (✓) N
B.	RSO too busy with other assignments	( ) Y (✓) N
C.	Insufficient staffing	( ) Y (✓) N
D.	Radiation Safety Committee fails to meet or functions inadequately	(✓) N/A ( ) Y ( ) N
E.	Inadequate consulting services or inadequate audits conducted	(✓) N/A ( ) Y ( ) N

Remarks (consider the above assessment and/or other pertinent PEFs with regard to the licensee's oversight of the radiation safety program):

good program

Regional follow-up on above PEFs citations:

END

Attachments:
A. "Laboratory Inspection Field Notes"
B. "Decommissioning Timeliness Inspection Field Notes"

Certificate

May it Known

BY ALL

WHO READ THIS THAT
THIS CERTIFICATE HAS BEEN PRESENTED TO

Dr. Stanley Kronenberg
U.S. ARMY CECOM/FT. MONMOUTH

FOR

COMPLETION OF A TRAINING PROGRAM FOR OPERATION OF THE
J. L. SHEPHERD & ASSOCIATES MODEL 81-22 CALIBRATOR

PRESENTED THIS 12th DAY OF August, 19 98

J L Shepherd & Associates
ORGANIZATION

Mary F. Shepherd
SIGNED

Certificate

May it be known

BY ALL

WHO READ THIS THAT
THIS CERTIFICATE HAS BEEN PRESENTED TO

Edward Bechtel
U.S. ARMY CECOM/FT. MONMOUTH

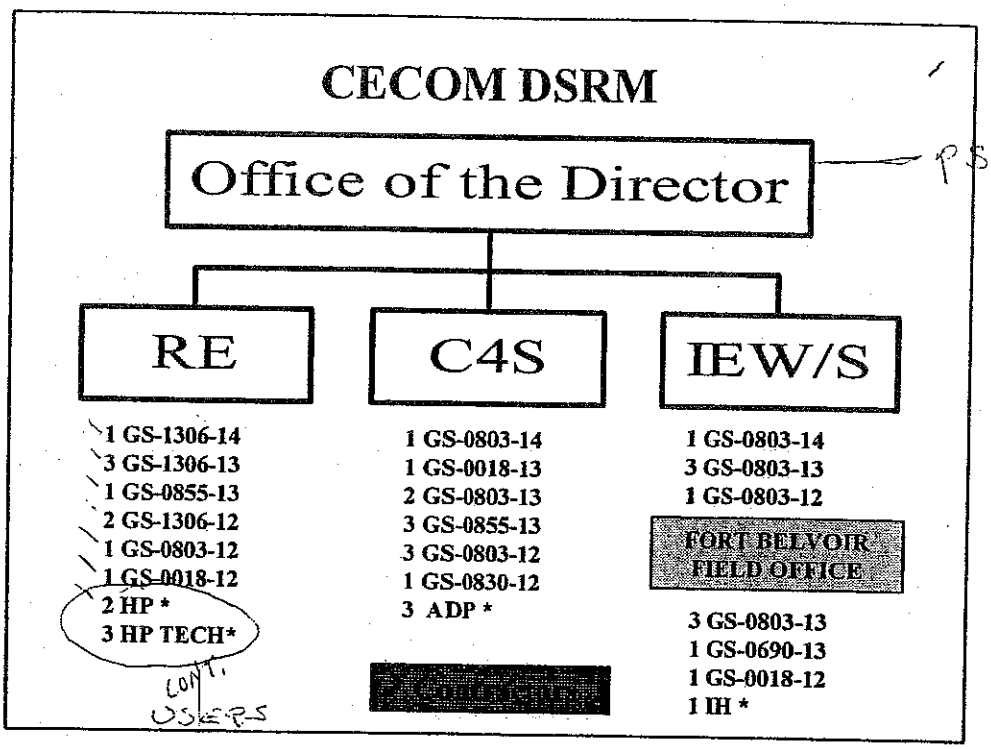
FOR

COMPLETION OF A TRAINING PROGRAM FOR OPERATION OF THE
J. L. SHEPHERD & ASSOCIATES MODEL 81-22 CALIBRATOR

PRESENTED THIS 12th DAY OF August, 19 98

J. L. Shepherd & Associates
ORGANIZATION

Mary F. Shepherd
SIGNED


CECOM DSRM
Office of the Director
RE
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IEW/S
1 GS-1306-14
3 GS-1306-13
1 GS-0855-13
2 GS-1306-12
1 GS-0803-12
1 GS-0018-12
2 HP *
3 HP TECH*
1 GS-0803-14
1 GS-0018-13
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3 GS-0855-13
3 GS-0803-12
1 GS-0830-12
3 ADP *
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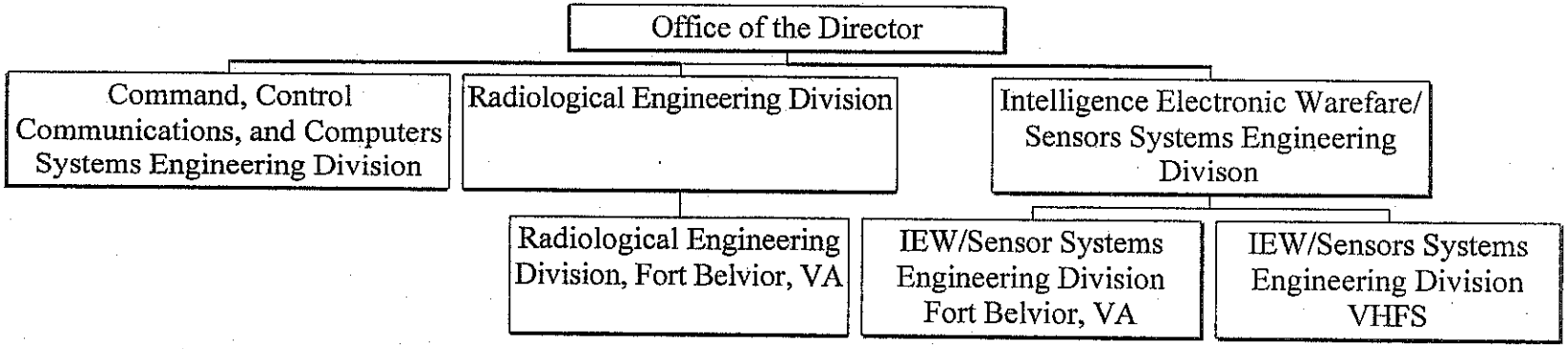
3 GS-0803-13
1 GS-0803-12
FORT BELVOIR FIELD OFFICE
3 GS-0803-13
1 GS-0690-13
1 GS-0018-12
1 IH *


DSRM
System Safety Engineering
Radiological Engineering
We are a Single Source for Safety Risk Management
Safety Training
Emergency Response
Occupational Safety & Health
Environmental Engineering

Directorate of Safety Risk Management



USACEC Directorate of Safety Risk Manag[illegible]t Office
Bldg 2539 ATTN: AMSEL-SF
Fort Monmouth, NJ 07703-5024
19 February 1998

---------- Telephone Numbers ----------
Main: 732-532-9SAF (DSN 992-9SAF) [992-9723]
732-427-4427 (DSN 987-4427)
732-532-0084 (DSN 992-0084)
732-427-3112 (DSN 987-3112)
---------- Facsimile Numbers ----------
Bldg 2539 (Main Office): 732-532-6403 (DSN 992-6403)
732-542-7161 [No DSN]
Bldg 9045 (Evans Area): 732-427-2667 (DSN 987-2667)
-------- MILNET: amsel-sf@cecom3.monmouth.army.mil --------

ID	Ext	Branch
~~BIANCHI, Hugo~~	x6444	RE 1306-12
BOYLAN, Chuck (c)	x6420	SEP
BRENNAN, Tom	x6404	SEC
BRYANT, Alton (c)	x6416	
BURBELO, Andrew	x6415	SEP
CHAN, Steven	x6413	SEP
COCCO, Joe	x6436	SEP
CRAIG, Dave (c)	x75591	RE CONT
FRAMPTON, Alice	x6432	RE 0018-12
GABRIEL, PAUL (c)	X6419	
GOLDBERG, Craig	x6405	RE 1306-13
GRAHAM, Linda	x6429	SE
GRIMES, Jim (c)	x6438	RE CONT.
HANRAHAN, Jay	x6406	SEC
~~HEZEL, KARL~~	~~x6442~~	~~RE~~
****HORNE, Steve****	x6401	SF
KLIMEK, PHIL	x6437	SEP
KIERNAN, David	x6447	SEP
****LASCALA, Rich**	**x6410**	**SEC**
LOVELL, Rich	x6441	RE 1306-13
****MANCINI, Fern**	**x6411**	**SEP**
MANKOWSKI, GRACE (c)	x6448	RE Hp Tech
MCLANE, GEORGE	X6439	SEP
MOY, Elaine	x6408	SEC

ID	Ext	Branch
NOWIK, Bill	x6418	SEP
PHAM, Thang	x6417	SEP
PIAZZA, Frank	x6443	RE 0803-12
PONTOLILLO, Inge (c)	x6421	
POWERS, Mary	x6430	A
PROCTOR, Ken	x6446	RE 0805-13
RUSSO, Leonard	x6414	SEP
****SANTARSIERO, Joe**	x6427	RE 1306-14
SILBER, Barry	x6440	RE 1206-13
SOFFER, Lou	x6434	SEP
TOBIAS, John	x6412	SEP
VEGA, Wilfredo	x6407	SEC
VIDSENS, Gail	x6426	RE Admin
VONSTEENBURG, Al	x6409	SEP
ZIOLA, Gary	x6433	RE 1306-12

Computer Room	x6422
Conference Room	x6402
Training Room	x6403
USAG Safety Ofc	x20083

Notes: 1) Extensions 6xxxx are On-Post Fort Monmouth only, for outside access dial main number and enter 0 for secretary

----------***USACECOM Directorate of Safety Risk Management***----------
Radiation Calibration Facility
ATTN: AMSEL-SF-RE
Bldg 2540
Fort Monmouth, NJ 07703-5024
732-427-5370/5606 (DSN 987-5370/5606)

ID	Ext
CUMMINGS, Burt	6450 (c) Hp Tech
PERRELLA, Al	6452 (c) Hp Tech
Prep Lab	6449

ID	Ext
MANKOWSKI, Grace	6448 (c)
Range	6451

----------***USACECOM Safety Field Office (Ft. Belvior)***----------
Bldg 331 ATTN: AMSEL-SF-FB
10150 Craig Hill Rd., Ste. 12, Fort Belvior VA, 22060-5851
703-704-xxxx (DSN 654-xxxx) *Facsimile* -3431

ID	Ext
BENT, Corey	2094
BUTLER, Debbie	3354
DICKENS, Steph	3417
HAYNES, David	3682

ID	Ext
KAY, Burleigh	1779 (c)
THACKSTON, Joell	2282 (c)
WOO, Thanh	1806 (c)
HO, Gaines	2093

COMPLETED: 6/29/98

ID	NOMENCLATR	ISOTOP	MILLICURIE	LOCATION	COMMENTS	CON	LIC_DARA	RWP	COMMENT2
A-03	VEX (SN:3843)	Am-241	9.90	9401		U	29-01022-14	N/A	
A-04	VEX (SN:3841)	Am-241	9.90	9401		U	29-01022-14	N/A	
A-05	VEX (SN:3842)	Am-241	9.90	9401		U	29-01022-14	N/A	
A-06	CHECK SOURCE (SF01)	Am-241	<2.5E-05	2540/108		U	A29-10-01	N/A	
A-07	CHECK SOURCE	Am-241	<2.6E-05	2540/108		U	A29-10-01	N/A	
A-08	M43A1 CHEM AGENT MON.	Am-241	2.5E-01	2540/108	TEACHING AID-SAV AD	U	12-00722-13	N/A	SN: Z03-D-33711 Z03-C-34830
A-12	CALIBRATION STANDARD	Am-241	5.9E-03	2540/108	SN: S1285003-4	U	29-01022-06	N/A	
A-13	M43A1 CHEM AGENT MON.	Am-241	2.5E-01	2540/108	TEACHING AID SAV AD	U	12-00722-13	N/A	SN: ZO3-D-33884 Z03-C-34805
A-14	CALIBRATION STANDARD	Am-241	1.468E-05	2540/108	SN: R-452 (389-44-2)	U	29-01022-06	N/A	32,600 dpm
A-16	CALIBRATION SOURCE	Am-241	3.25E-05	9401	SOURCE #1	U	29-01022-06	N/A	CAL DATE 8 FEB 94
A-17	CALIBRATION SOURCE	Am-241	1.27E-05	9401	SOURCE #3	U	29-01022-06	N/A	CAL DATE 8 FEB 94
A-18	CALIBRATION SOURCE	Am-241	1.30E-05	9401	SOURCE #8	U	29-01022-06	N/A	CAL DATE 8 FEB 94
A-19	CALIBRATION SOURCE	Am-241	1.927E-05	2540/108	DD-408	U	29-01022-06	N/A	
A-20	CALIBRATION SOURCE	Am-241	1.883 E-5	2540/108	DD-409	U	29-01022-06	N/A	
A-21	CALIBRATION SOURCE	Am-241	1.804 E-5	2540/108	DD-410	U	29-01022-06	N/A	MOBILE LAB #2
A-22	CALIBRATION SOURCE	Am-241	1.905 E-5	2540/108	DD-411	U	29-01022-06	N/A	
A-23	CALIBRATION SOURCE	Am-241	1.903 E-5	2540/108	DD-412	U	29-01022-06	N/A	
A-24	UNQUENCHED STANDARD	Am-241	2.25E-05	2540/108	SN: 89	U	29-01022-06	N/A	10ML
A-25	UNQUENCHED STANDARD	Am-241	2.25E-05	2540/108	SN: 90	U	29-01022-06	N/A	10ML
A-26	UNQUENCHED STANDARD	Am-241	2.25E-05	2540/108	SN: 91	U	29-01022-06	N/A	10ML
A-27	M43A1 CHEM AGENT MON.	Am-241	2.5E-01	2540/108	SN: Z03-D-24825	U	12-00722-13	N/A	Z03-C-26015, TRANSFERRED FROM EXCESS EX-17
A-28	LIQUID ALPHA SOURCE	Am-241	9.00E-06	9045	20 ML OF LIQUID	U	29-01022-06	N/A	BRAC
A-30	SIMULATED LIQUID PLANCHET	Am-241	1.9E-05	9045	53324-435	U	29-01022-06	N/A	BRAC
A-31	SIMULATED LIQUID PLANCHET	Am-241	1.8E-05	9045	53325-435	U	29-01022-06	N/A	BRAC
A-32	SIMULATED LIQUID PLANCHET	Am-241	1.8E-05	9045	53326-435	U	29-01022-06	N/A	BRAC
A-33	SIMULATED LIQUID PLANCHET	Am-241	1.8E-05	9045	53327-435	U	29-01022-06	N/A	BRAC
A-34	SIMULATED LIQUID PLANCHET	Am-241	1.8E-05	9045	53328-435	U	29-01022-06	N/A	BRAC
A-35	SIMULATED LIQUID PLANCHET	Am-241	1.9E-05	9045	53323-435	U	29-01022-06	N/A	BRAC
A-36	LIQUID ALPHA SOURCE	Am-241	8.9E-05	9045	100 ML LIQUID	U	29-01022-06	N/A	BRAC 54021B-435
A-37	SIMULATED LIQUID PLANCHET	Am-24	1.80E-05	9045	SN: 54072-435	U	29-01022-06	N/A	
A-38	SIMULATED LIQUID PLANCHET	Am-241	1.80E-05	9045	SN: 54071-435	U	29-01022-06	N/A	
A-39	SIMULATED LIQUID PLANCHET	Am-241	1.90E-05	9045	SN: 54070-435	U	29-01022-06	N/A	
A-40	SIMULATED LIQUID PLANCHET	Am-241	1.90E-05	9045	SN: 54069-435	U	29-01022-06	N/A	

ID	NOMENCLATR	ISOTOP	MILLICURI	LOCATION	COMMENTS	COI	LIC_DARA	RWP	COMMENT2
A-41	LIQUID ALPHA SOURCE	Am-241	4.56E-04	9045	SN: 54659-435	U	29-01022-06	N/A	
A-42	SIMULATED LIQUID PLANCHET	Am-241	2.80E-05	9045	SN: 55432-435	U	29-01022-06	N/A	
A-43	SIMULATED LIQUID PLANCHET	Am-241	2.70E-05	9045	SN: 55433-435	U	29-01022-06	N/A	
C-02	SOURCE, NEN #048	C-14	5.0E-05	2540/108	SN: 048	U	29-01022-06	N/A	
C-07	ULTIMA GOLD STANDARD	C-14	6.04E-04	2540/108	SN: 9000239	U	29-01022-06	N/A	134,000 DPM PER VIAL, 10 VIALS TOTAL
C-10	UNQUENCHED STANDARD	C-14	1.01E-04	9045	SN: 406295	U	29-01022-06	N/A	C14 STANDARD, 15 ml. MOBILE LAB #2
C-11	UNQUENCHED STANDARD	C-14	5.60E-05	2540/108	SN: 406294	U	29-01022-06	N/A	C14 STANDARD, 15 ml. MOBILE LAB #2
C-13	UNQUENCHED STANDARD	C-14	5.65E-05	9045	SN: 40	U	29-01022-06	N/A	C14 STANDARD, 15 ml.
C-14	UNQUENCHED STANDARD	C-14	5.85E-05	9045	SN: 169	U	29-01022-06	N/A	ASSAY 05 SEP 97
C-15	UNQUENCHED STANDARD	C-14	1.85E-05	9045	SN: 23	U	29-01022-06	N/A	ASSAY 16 FEB 98
CL-01	UNQUENCHED STANDARD	Cl-36	2.25E-05	2540/108	SN: 89	U	29-01022-06	N/A	10ML
CL-02	UNQUENCHED STANDARD	Cl-36	2.25E-05	2540/108	SN: 90	U	29-01022-06	N/A	10ML
CL-03	UNQUENCHED STANDARD	Cl-36	2.25E-05	2540/108	SN: 91	U	29-01022-06	N/A	10ML
CO-03	AN/UDM-1 (SN:21)	Co-60	2.14E01	9401	ISOTOPE ROOM	U	29-01022-14	N/A	DECAY CORRECTED MARCH 97'
CO-11	EPA LIQUID SOURCE	Co-60	2.41E-04	9045		U	29-01022-06	N/A	
CS-01	AN/UDM-1A (SN:D3)	Cs-137		9401	ISOTOPE ROOM	U	29-01022-14	N/A	DECAY CORRECTED MARCH 97'
CS-05	LOW RANGE SOURCE SN:CS478	Cs-137		9401	CECOM NV LAB	U	29-01022-06	N/A	MOVED TO 9401 04 APR 95 BY DR K.,(moved to pool rm - oct96)
CS-06	SMALL CALIBRATION SOURCE	Cs-137		9383		U	29-01022-06	N/A	ASSAY DATE-14JUN88, ORIG ACTY-69.1mCi
CS-07	JL SHEPHERD LOW RANGE	Cs-137		9401		U	29-01022-06	N/A	DECAY CORRECTED MARCH 97'
CS-08	CALIBRATION STANDARD	Cs-137	1.4E-05	9045	IPL FILTER	U	29-01022-06	N/A	
CS-11	CALIBRATION STANDARD	Cs-137	1.25E-05	2540/108	IPL SN:BB-960	U	29-01022-06	N/A	27,900 dpm ON 15NOV94
CS-12	CALIBRATION STANDARD	Cs-137	1.44E-05	9045	IPL SN:FF-049	U	29-01022-06	N/A	31,860 DPM ON 1 NOV 95
CS-13	JL SHEPHARD MODEL 81-14Q	Cs-137		2540/108	ACTY-DATE, MAR 97'	U	29-01022-06	N/A	SN:7140, (5) SOURCES 130 Ci, 5.2 Ci, 200 mCi, 25 mCi, 1 mCi
CS-15	EPA LIQUID SOURCE	Cs-137	1.45E-04	9045		U	29-01022-06	N/A	
CS-18	CC-775 CALIBRATOR	Cs-137	.0681	2540/108		U	29-01022-06	N/A	
CS-92	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 152	U	29-01022-06	N/A	
CS-93	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 232	U	29-01022-06	N/A	
CS-94	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 266	U	29-01022-06	N/A	
CS-95	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 280	U	29-01022-06	N/A	
CS-96	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 314	U	29-01022-06	N/A	
CS-97	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 388	U	29-01022-06	N/A	
CS-98	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 520	U	29-01022-06	N/A	
CS-99	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 619	U	29-01022-06	N/A	

Ex 2

ID	NOMENCLATR	ISOTOP	MILLICURI	LOCATION	COMMENTS	COI	LIC DARA	RWP	COMMENT2
CS-99A	CDV, CALIBRATOR 790	Cs-137	10.0	9383	SN: 838	U	29-01022-06	N/A	
CS-99P	LIQUID SOURCE	Cs-137	9.10E-05	9045	SN: 54619-435	U	29-01022-06	N/A	
CS-99Q	LIQUID BETA SOURCE	Cs-137	4.57E-04	9045	SN: 54660-435	U	29-01022-06	N/A	
CS-99R	SIMULATED LIQUID PLANCHET	Cs-137	2.60E-05	9045	SN: 55434-435	U	29-01022-06	N/A	
CS-99S	SIMULATED LIQUID PLANCHET	Cs-137	8.50E-05	9045	SN: 55435-435	U	29-01022-06	N/A	
EPA-32	EPA QC SAMPLES	H-3	<3.0E-05	9383	H3 IN WATER	U	29-01022-06	N/A	09 AUGUST 1996/ BRAC LAB
EPA-33	EPA QC SAMPLES	MGAM	<1.2E-05	9383	MIXED GAMMA IN WATER	U	29-01022-06	N/A	07 JUNE 1996/BRAC LAB
EPA-34	EPA QC SAMPLES	B/GAM	<3.0E-06	9383	MIXED B/G IN WATER	U	29-01022-06	N/A	16 APRIL 1996/ BRAC LAB
EPA-35	EPA QC SAMPLES	MALPH	<1.2E-06	9383	MIXED ALPHA IN WATER	U	29-01022-06	N/A	16 APRIL 1996/ BRAC LAB
EPA-36	EPA QC SAMPLES	MALPH	<1.5E-06	9383	MIXED ALPHA IN WATER	U	29-01022-06	N/A	27 SEPTEMBER 1996/ BRAC LAB
EPA-37	EPA QC SAMPLES	M A/B	<6.0E-07	9383	MIXED A/B IN WATER	U	29-01022-06	N/A	25 OCTOBER 1996/ BRAC LAB
EPA-38	EPA QC SAMPLES	ALP/BE	<6.0E-07	9383	ALPPHA/BETA IN WATER	U	29-01022-06	N/A	31 JANUARY 1997/ BRAC LAB
EPA-39	EPA QC SAMPLES	M A/B	<1.5E-06	9383	URANIUM/RADIUM WATER	U	29-01022-06	N/A	14 FEBRUARY 1997
EPA-40	EPA QC SAMPLE	H-3	<3.0E-05	2540/108	H-3 IN WATER	U	29-01022-06	N/A	07 MARCH 1997
EPA-41	EPA QC SAMPLE	H-3	<3.0E-05	9383	H-3 IN WATER	U	29-01022-06	N/A	07 MARCH 1997
EPA-42	EPA QC SAMPLE	MALPH	<1.2E-06	9383	MIXED ALPHA IN WATER	U	29-01022-06	N/A	15 APR 97/BRAC LAB
EPA-43	EPA QC SAMPLE	M B/G	<3.0E-06	9383	MIXED B/G IN WATER	U	29-01022-06	N/A	15 APR 97/BRAC LAB
EPA-44	EPA QC SAMPLE	MGAM	<1.2E-05	9383	MIXED GAMMA IN WATER	U	29-01022-06	N/A	06 JUNE 97/BRAC LAB
EPA-45	EPA QC SAMPLE	M A/B	<1.5E-06	9383	URANIUM/RADIUM WATER	U	29-01022-06	N/A	13 JUNE 97/BRAC LAB
EPA-46	EPA QC SAMPLE	H-3	<3.0E-05	9383	H-3 IN WATER	U	29-01022-06	N/A	08 AUGUST 97
EPA-47	EPA QC SAMPLE	H-3	<3.0E-05	9383	H-3 IN WATER	U	29-01022-06	N/A	08 AUGUST 97/BRAC LAB
EPA-48	EPA QC SAMPLE	M A/B	<6.0E-07	9383	MIXED A/B IN WATER	U	29-01022-06	N/A	18 JULY 97/ BRAC LAB
EPA-49	EPA QC SAMPLE	M ALPH	<1.5E-06	9383	MIXED ALPHA IN WATER	U	29-01022-06	N/A	12 SEPTEMBER 97/BRAC LAB
EPA-50	EPA QC SAMPLE	M ALPH	<1.2E-06	9383	MIXED ALPHA IN WATER	U	29-01022-06	N/A	21 OCTOBER 97/ BRAC LAB
EPA-51	EPA QC SAMPLE	M B/G	<3.0E-06	9383	MIXED B/G IN WATER	U	29-01022-06	N/A	21 OCTOBER 97/BRAC LAB
EPA-52	EPA QC SAMPLE	ALP/BE	<6.0E-07	9383	MIXED A/B IN WATER	U	29-01022-06	N/A	31 OCTOBER 97/BRAC LAB
EPA-53	EPA QC SAMPLE	ALP/BE	6.0E-07	9383	MIXED A/B IN WATER	U	29-01022-06	N/A	
EPA-54	EPA QC SAMPLE	H-3	<3.0E-05	9383	H-3 IN WATER	U	29-01022-06	N/A	13 MARCH 1998
EPA-55	EPA QC SAMPLE	H-3	<3.0E-05	2540/108	H-3 IN WATER	U	29-01022-06	N/A	13 MARCH 1998
EPA-56	EPA QC SAMPLE	M ALPH	<1.5E-06	9383	MIXED ALPHA IN WATER	U	29-01022-06	N/A	13 FEBRUARY 1998
EPA-57	EPA QC SAMPLE	U RA	<1.5E-06	9383	URANIUM RA IN WATER	U	29-01022-06	N/A	23 JUNE 1998
EPA-58	EPA QC SAMPLE	GAMMA	<1.2E-06	9383	GAMMA IN WATER	U	29-01022-06	N/A	23 JUNE 1998
EPA-59	EPA QC SAMPLE	BLIND	<3.0E-06	9383	BLIND SAMPLE B	U	29-01022-06	N/A	23 JUNE 1998

ID	NOMENCLATR	ISOTOP	MILLICURIE	LOCATION	COMMENTS	COI	LIC_DARA	RWP	COMMENT2
EPA-60	EPA QC SAMPLE	BLIND	<1.2E-06	9383	BLIND SAMPLE A	U	29-01022-06	N/A	23 JUNE 1998
EPA-61	EPA QC SAMPLE	H-3	<3.00E-05	2540/108	H-3 IN WATER	U	29-01022-06	N/A	7 AUG 98
EPA-62	EPA QC SAMPLE	H-3	<3.00E-05	9383	H-3 IN WATER	U	29-01022-06	N/A	7 AUG 98
EPA-63	EPA QC SAMPLE	ALP/BE	<6.00E-03	9383	ALPHA/BETA IN WATER	U	29-01022-06	N/A	24 JUL 98
EX-09	H3 WATCH	H-3	1.50E01	BLDG 116	EXCESS	E	EXCESS	N/A	
H-08	10 QUENCHED STANDARDS	H-3	1.16E-03	2540/108	SN: 026	U	29-01022-06	N/A	
H-14	H3 GAS, OVERHOFF SOURCE	H-3	<1E-06	2540/108	SN: 1563	U	29-01022-06	N/A	CALIBRATION STANDARD
H-15	TRITIUM TARGET	H-3	7.37E3	9383	SN: S680	U	29-01022-06	N/A	
H-16	ULTIMA GOLD STANDARD	H-3	1.14E-3	9045	SN: 05	U	29-01022-06	N/A	253,200 DPM PER VIAL, 10 VIALS TOTAL
H-19	UNQUENCHED STANDARD	H-3	1.30E-4	9045	SN: 406295	U	29-01022-06	N/A	H3 STANDARD, 15 ml. MOBILE LAB #2
H-20	UNQUENCHED STANDARD	H-3	1.30E-4	2540/108	SN: 406294	U	29-01022-06	N/A	H3 STANDARD, 15 ml. MOBILE LAB #2
H-23	UNQUENCHED STANDARD	H-3	1.20E-04	9045	SN: 040	U	29-01022-06	N/A	H3 STANDARD, 15 ml.
H-25	EPA LIQUID SOURCE	H-3	1.10E-04	9045		U	29-01022-06	N/A	
H-26	ULTIMA GOLD STANDARD	H-3	1.17E-03	9045	SN: 1	U	29-01022-06	N/A	260,700 DPM PER VIAL, 10 VIALS TOTAL BRAC
H-27	ULTIMA GOLD STANDARD	H-3	1.17E-03	2540/108		U	29-01022-06	N/A	260,700 DPM PER VIAL, 10 VIALS TOTAL ASSEY 22 NOV 96
H-28	UNQUENCHED STANDARD	H-3	1.25E-04	9045	SN: 169	U	29-01022-06	N/A	ASSAY 05 SEP 97
H-29	WASTE	H-3	1.97E-01	2540	VIALS	W	29-01022-06	N/A	
H-30	UNQUENCHED STANDARD	H-3	3.86E-05	9045	SN: 23	U	29-01022-06	N/A	ASSAY 16 FEB 98
K-01	MX-7338 (SN:K-2410)	Kr-85	1.67	9401	VAULT	U	29-01022-14	N/A	
K-03	MX-7338 (SN:K-4451)	Kr-85	1.70	FD-MAIN P	WITH METER #10087	U	29-01022-14	N/A	
K-04	MX-7338 (SN:K14080)	Kr-85	5.00	2540/108		U	29-01022-14	N/A	
K-05	MX-7338 (SN:K376)	Kr-85	5.00	2540/108		U	29-01022-14	N/A	
K-06	MX-7338 (SN:K7981)	Kr-85	5.00	2540/108		U	29-01022-14	N/A	
K-07	TRANSMITTER PANEL	KR-85	.025	BLDG 116		U	29-01022-06	N/A	
K-08	MX-7338 (SN:K3831)	KR-85	5.00	2540/108		U	29-01022-06	N/A	
MA-01	MIXED CALIBRATION STD	MIXED	1.74E-07	2540/108	SERIAL #FSU-2	U	29-01022-06	N/A	AM-241, PU-239, U-234, U-238
MAB-01	SOIL SPIKES	MA/B	6.91E-04	9383	PLANCHETS	W	29-01022-06	N/A	SEE BRAC LAB SOURCE LOG BOOK FOR CONTENT
MAB-02	SOIL SPIKES	MA/B	1.80E-01	9383	PLANCHETS	W	29-01022-06	N/A	SEE BRAC LAB SOURCE LOG BOOK FOR CONTENT
MAB-03	SOIL SPIKES	MA/B	2.00E-04	9383	PLANCHETS	W	29-01022-06	N/A	SEE BRAC LAB SOURCE LOG BOOK FOR CONTENT
MG-03	MIXED GAMMA SOURCE	Eu-154	5.0E-03	2540/108	EU155,SB125.	U	29-01022-06	N/A	
MG-10	MIXED GAMMA SOURCE	MIXED	9.75E-2	2540/108	CAL SOURCE	U	29-01022-06	N/A	100ML SOLID IN 250 ML LERMER JAR (WATER), MOBILE LAB #1
MG-11	MIXED GAMMA SOURCE	MIXED	1.00E-3	2540/108	CAL SOURCE	U	29-01022-06	N/A	100GM SAND IN 250 ML LERMER JAR , MOBILE LAB #1
MG-12	MIXED GAMMA SOURCE	MIXED	9.98E-2	2540/108	CAL SOURCE	U	29-01022-06	N/A	90GM SHREDDED PAPER IN 250 ML LERMER JAR (VEG)

ID	NOMENCLATR	ISOTOPI	MILLIGURI	LOCATION	COMMENTS	COI	LIC_DARA	RWP	COMMENT2
MG-13	MIXED GAMMA SOURCE	MIXED	1.023E-3	9045	CAL SOURCE	U	29-01022-06	N/A	500ML SAND IN 130G BEAKER, SEE SOURCE SHEET FOR ISO
MG-14	MIXED GAMMA SOURCE	MIXED	1.047E-3	9045	CAL SOURCE	U	29-01022-06	N/A	500ML SOLID IN 130G BEAKER, SEE SOURCE SHEET FOR ISO
MG-15	MIXED GAMMA SOURCE	MIXED	9.58E-2	9045	CAL SOURCE	U	29-01022-06	N/A	500ML VEGETATION IN 130G BRAKER, SEE SOURCE SHEET F
MG-16	MIXED GAMMA SOURCE	MIXED	1.003E-03	2540/108	CAL SOURCE	U	29-01022-06	N/A	100ML SOLID IN 250 ML LERMER JAR,SEE SOURCE SHEET FC
MG-17	MIXED GAMMA SOURCE	MIXED	1.011E-03	2540/108	CAL SOURCE	U	29-01022-06	N/A	100GM SAND IN 250 ML LERMER JAR, SEE SOURCE SHEET FC
MG-18	MIXED GAMMA SOURCE	MIXED	1.067E-03	2540/108	CAL SOURCE	U	29-01022-06	N/A	90GM PAPER IN 250 ML LERMER JAR, SEE SOURCE SHEER FC
MG-19	MIXED GAMMA SOURCE	MIXED	1.006E-03	9045	CAL SOURCE	U	29-01022-06	N/A	500ML SOLID IN 130G BEAKER, SEE SOURCE SHEET FOR ISO
MG-20	MIXED GAMMA SOURCE	MIXED	1.008E-03	9045	CAL SOURCE	U	29-01022-06	N/A	500ML SAND IN 130G BEAKER, SEE SOURCE SHEET FOR ISOT
MG-21	J.L. SHEPHERD MODEL 81-22	MIXED	2.841E06	9401	SN: 22280	U	29-01022-07	N/A	Co-60(2000,40,1Ci-total-2,041Ci),Cs137(750,50Ci-total-800Ci)
N-01	PLASTIC SOURCE	Ni-63	<2.0	2540/108		U	29-01022-06	N/A	
N-02	CHEM AGENT MONITOR(CAM)	Ni-63	1.0E01	2540/108	IRRAD. SOURCE-CRDEC	U	12-00722-14	N/A	GROEBER
N-03	ULTIMA GOLD STANDARDS	Ni-63	8.84E-04	2540/108	SN: 9000414	U	29-01022-06	N/A	10 STANDARDS 196,290 DPM ON 13 NOV 95 EACH
N-04	GAS CHROMATOGRAPH	Ni-63	15	BLDG 173	HP MODEL 5890	U	29-01022-06	129	K1472
N-05	GAS CHROMATOGRAPH	Ni-63	15	BLDG 173		U	29-01022-06	129	K3559
N-06	NIST STANDARDS	Ni-63	2.70E-06	2540/108		U	29-01022-06	N/A	15 AUGUST 1995
N-07	ULTIMA GOLD STANDARDS	Ni-63	9.20E-04	2540/108	SN: 9000513	U	29-01022-06	N/A	10 STANDARDS 204,300 DPM ON 27 JULY 1998 EACH
PU-04	AN/UDM-6 (SN:A1002)	Pu-239	1.4E-03	NRC COR	CECOM NV LAB IRA K	U	29-01022-14	N/A	POC TERRY SCHWAGER, 215-343-5900, AT WARRINGTON, PA
PU-05	EBERLINE 94-1 SN:A0026	Pu-239	1.4E-03	2540/108		U	29-01022-14	N/A	
PU-06	AN/UDM-6 (SN:A1003)	Pu-239	1.4E-03	2540/108		U	29-01022-14	N/A	
PU-09	AN/UDM-6 (SN:A1160)	Pu-239	1.4E-03	9401	FROM CCAD	U	29-01022-14	N/A	
PU-10	CALIBRATION STANDARD	Pu-238	9.74E-05	2540/108	SN: R-451 (389-44)	U	29-01022-06	N/A	
PU-15	WIDE AREA ALPHA SOURCE	Pu-238	1.44E-05	2540/108	SN: ES-927	U	SNM-1998	N/A	
PU-16	WIDE AREA ALPHA SOURCE	Pu-238	1.62E-04	2540/108	SN: ES-928	U	SNM-1998	N/A	
PU-17	WIDE AREA ALPHA SOURCE	Pu-238	1.35E-03	2540/108	SN: ES-929	U	SNM-1998	N/A	
R-01	RA-BE NEUTRON SOURCE	Ra-226	1.96E01	9401		U	A29-10-01	N/A	
R-07	METER MOVEMENTS	Ra-226	<3.0E-03	2540/108	TRAINING AIDS-4 EACH	U	A29-10-06	N/A	
R-13	EPA LIQUID SOURCE	Ra-226	6.00E-05	9045		U	29-01022-06	N/A	
R-14	IM-70 (P) PD	RA-226	.005	BLDG 116		U	29-01022-06	N/A	
S-01	AN/UDM-2 (SN:054)	Sr-90	1.65E02	NRC COR	CECOM NV LAB IRA K	U	29-01022-14	N/A	POC JOE TOMEI, 215-343-5900, AT DOVER, NJ
S-02	AN/UDM-2 (SN:106)	Sr-90	1.40E02	9383		U	29-01022-14	N/A	
S-03	AN/UDM-2 (SN:029)	Sr-90	1.65E02	NRC COR	CECOM NV LAB IRA K.	U	29-01022-14	N/A	POC JOE TOMEI, 215-343-5900, AT DOVER, NJ
S-05	MODEL 3FIG	Sr-90	2.78E01	2540/108		U	29-01022-14	N/A	
S-06	CHECK SOURCE	Sr-90	3.0E-04	9401	VAULT-CONTROL ROOM	U	29-01022-06	N/A	

ID	NOMENCLATR	ISOTOP	MILLICURI	LOCATION	COMMENTS	COI	LIC_DARA	RWP	COMMENT2
S-07	CHECK SOURCE	Sr-90	3.0E-04	9401	VAULT-OUTDOOR MOUND	U	29-01022-06	N/A	
S-08	CHECK SOURCE	Sr-90	5.0E-03	9401	VAULT-IN EXPOSURE RM	U	29-01022-06	N/A	
S-09	CHECK SOURCE	Sr-90	3.0E-04	9401	POOL-RESIN FILTER	U	29-01022-06	N/A	
S-13	CHECK SOURCE	Sr-90	<2.0E-05	2540/108	NEN	U	29-01022-06	N/A	
S-14	SOURCE, NEN #046	Sr-90	5.0E-05	2540/108	SN: 046	U	29-01022-06	N/A	
S-19	CALIBRATION STANDARD	Sr-90	1.50E-02	2540/108	SN: R-454 (389-45-2)	U	29-01022-06	N/A	33500 dpm MOBILE LAB #2
S-20	CALIBRATED STANDARD	Sr-90	1.8E-05	9045	SN: T-305	U	29-01022-06	N/A	40,100 DPM SR-90
S-22	CALIBRATION STANDARD	Sr-90	1.39E-05	2540/108	IPL SN:FF-035	U	20-01022-06	N/A	30,960 DPM ON 15 NOV 95 MOBILE LAB #2
S-25	AN/UDM-2 (10 TOTAL TRNG)	Sr-90	1.65E03	9383	TEN UNITS FOR TRAIN	U	29-01022-14	N/A	SNs: 18, 78, 83, 175, 191, 198, 431, 435, 456, AND 474
S-27	EPA LIQUID SOURCE	Sr-90	3.10E-05	9045		U	29-01022-06	N/A	
S-28	SIMULATED LIQUID PLANCHET	Sr-90	1.9E-05	9045	53329-435	U	29-01022-06	N/A	BRAC
S-29	SIMULATED LIQUID PLANCHET	Sr-90	1.8E-05	9045	53330-435	U	29-01022-06	N/A	BRAC
S-30	SIMULATED LIQUID PLANCHET	Sr-90	1.8E-05	9045	53331-435	U	29-01022-06	N/A	BRAC
S-31	SIMULATED LIQUID PLANCHET	Sr-90	1.8E-05	9045	53332-435	U	29-01022-06	N/A	BRAC
S-32	SIMULATED LIQUID PLANCHET	Sr-90	1.8E-05	9045	53333-435	U	29-01022-06	N/A	BRAC
S-33	SIMULATED LIQUID PLANCHET	Sr-90	1.8E-05	9045	53334-435	U	29-01022-06	N/A	BRAC
S-34	SIMULATED LIQUID PLANCHET	Sr-90	1.4E-05	2540/108	53825A-435	U	29-01022-06	N/A	
S-35	SIMULATED LIQUID PLANCHET	Sr-90	1.4E-05	2540/108	53826A-435	U	29-01022-06	N/A	
S-36	SIMULATED LIQUID PLANCHET	Sr-90	1.80E-05	9045	SN: 54076-435	U	29-01022-06	N/A	
S-37	SIMULATED LIQUID PLANCHET	Sr-90	1.70E-05	9045	SN: 54075-435	U	29-01022-06	N/A	
S-38	SIMULATED LIQUID PLANCHET	Sr-90	1.80E-05	9045	SN: 54074-435	U	29-01022-06	N/A	
S-39	SIMULATED LIQUID PLANCHET	Sr-90	1.80E-05	9045	SN: 54073-435	U	29-01022-06	N/A	
SET-01	CHECK SET	MIXED	<1.0E-02	9401	NEN #14G	U	29-01022-06	N/A	
SET-04	BETA CHECK SET	MIXED	<1.0E-02	2540/108	ICNC #12	U	29-01022-06	N/A	
SET-09	BETA REFERENCE SET	MIXED	<1.0E-02	2540/108	SN: 076140	U	29-01022-06	N/A	
SET-11	SOURCE TRAINING SET	MIXED	1.05E-02	KOREA	LAO YUNG-SAN, CONEX	U	29-01022-06	N/A	SEE DATA SHEET FOR LISTING OF SOURCES
SET-12	SOURCE TRAINING SET	MIXED	1.05E-02	2540/108	10 SOURCES	U	29-01022-06	N/A	SEE DATA SHEET FOR LISTING OF SOURCES
SET-13	SOURCE TRAINING SET	MIXED	1.05E-02	2540/108	10 SOURCES	U	29-01022-06	N/A	SEE DATA SHEET FOR LISTING OF SOURCES
TC-01	BETA CALIBRATION SOURCES	Tc-99	1.53E-05	2540/108	4 SOURCES	U	29-01022-06	N/A	
TH-02	CHECK SOURCE IN PLASTIC	Th-232	2.94E-03	2540/108	KRONENBERG	U	29-01022-06	N/A	
TH-03	CHECK SOURCE IN PLASTIC	Th-232	2.94E-03	2540/108	KRONENBERG	U	29-01022-06	N/A	
TH-04	METAL SLUGS-2 EACH	Th-232	2.18E-02	9401	TO DR. K-91.04.08-JA	U	29-01022-06	N/A	
TH-05	AN/VSX-1 LENS ASSEMBLY	Th-232	0.075	9045	15 EACH, 5 UCI EACH	U	29-01022-06	N/A	

ID	NOMENCLATR	ISOTOP	MILLICURI	LOCATION	COMMENTS	COI	LIC_DARA	RWP	COMMENT2
TH-06	LENS ASSEMBLY	Th-232	0.012	9045	6 EACH, 2 UCI EACH	U	29-01022-06	N/A	
U-01	M829, PENETRATOR	DU	1.97E1	9383	1315-01-168-6108	U	SUC 1380	N/A	
U-02	CALIBRATED STANDARD	U-238	1.23E-06	2540/108	SN: T-303	U	29-01022-06	N/A	2,740 DPM
U-03	CALIBRATED STANDARD	U-238	1.23E-06	2540/108	SN: T-304	U	29-01022-06	N/A	2,740 DPM
U-04	CALIBRATION SLAB	U-238	<1.0	2540/108	SN: 1084/92	U	29-01022-06	N/A	
X-15	INDUSTRIAL X-RAY UNIT	N/A	N/A	9401	CECOM NV LAB DR. K.	U	N/A	87-02	MODEL:ISOVOLT 320D
X-18	X-RAY,RAD MOBILE TO 299MA	N/A	N/A	1075	SN: B7143T	U	N/A	N/A	MODEL: 46270954 GI
X-19	X-RAY,RAD MOBILE TO 299MA	N/A	N/A	1075	SN: C3874	U	N/A	N/A	MODEL: 46-329267GI
X-20	X-RAY, RF, ABOVE 500 MA	N/A	N/A	1075	SN: B6499	U	N/A	N/A	MODEL: MPV60
X-21	X-RAY,RADIO, ABOVE 500 MA	N/A	N/A	1075	SN: B8350	U	N/A	N/A	MODEL: NONE GIVEN
X-22	X-RAY, R/F ABOVE 500 MA	N/A	N/A	1075	SN: B9076	U	N/A	N/A	MODEL: NONE GIVEN
X-23	X-RAY, MAMMOGRAPHY	N/A	N/A	1075	SN: C3940	U	N/A	N/A	MODEL: ZFOODMR
X-24	X-RAY, DENTAL INTRA-ORAL	N/A	N/A	814 ROOM	SN: 9220224	U	N/A	N/A	MODEL: ORALIX 70, PHILLIPS DENSO-MAT
X-26	X-RAY, DENTAL INTRA-ORAL	N/A	N/A	814 ROOM	SN: 885002	U	N/A	N/A	MODEL: 5337241X1341
X-27	X-RAY, DENTAL PANO STAT.	N/A	N/A	814 ROOM	SN: 773002	U	N/A	N/A	MODEL: GENDEX 16692