

APPENDIX A
INDUSTRIAL/ACADEMIC/RESEARCH INSPECTION FIELD NOTES

Region 1

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: 3C

Program Code 03511

Date of Last Inspection 8-15-95

Date of This Inspection AUGUST 19th 20, 1998

Type of Inspection:

- Announced
 Routine
 Initial

- Unannounced
 Special
 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. Tadum
(Signature)

Date August 20, 1998

Approved: John R. McParth
(Signature)

Date 9/21/98

Issue Date: 02/03/97
Region I Rev. Date 06/04/98

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions A-1 2
FOIA-2006-0238

FF/16
87110, Appendix A

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):

<u>REQUIREMENT CITED</u>	<u>STATUS</u>

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

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

<u>AMENDMENT #</u>	<u>DATE</u>	<u>SUBJECT</u>
28	7-6-78	ADDITIONAL LOCATION OF CSE

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 CECOM DSPM 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 - PSO
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 (Y) () N
If yes, may use ATTACHMENT A as a guide for inspecting laboratories.

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

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

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

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

*Small program (2) authorized users
J.L. Shepherd, Z. Gold. 31-22 irradiation*

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 ONCE EVERY 24 MONTHS

(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

RSC meets 1+

<i>6-25-98</i>	<i>9-11-97</i>	<i>12-17-96</i>
<i>3-19-98</i>	<i>6-19-97</i>	<i>9-26-96</i>
<i>1-15-98</i>	<i>3-25-97</i>	

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 61-22 (CUSTOM)

CS-137 = []
 Co-60 = []

will be used for research by Army & outside organizations. Will be moved to new location in 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

6. MATERIALS RECEIPT, USE, TRANSFER, AND CONTROL

- | | | |
|----|--|--|
| A. | Isotope, chemical form, quantity, and use, as authorized [L/C] | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| B. | Licensed materials secured to prevent unauthorized removal or access [20.1801-1802] | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| | (1) Licensed material in storage in controlled or unrestricted areas is secured from unauthorized removal or access [20.1801] | <input type="checkbox"/> Y <input type="checkbox"/> N A |
| | (2) Licensed material in controlled or unrestricted areas and not in storage is controlled and under constant surveillance [20.1802] | <input type="checkbox"/> Y <input type="checkbox"/> N A |
| | (3) Access to restricted areas is limited [20.1003] | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| C. | Describe how packages are received and by whom: | <input checked="" type="checkbox"/> N/A |
| D. | Written package opening procedures established and followed [20.1906(e)] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| E. | All incoming packages with DOT labels <u>wiped</u> , unless exempted (gases and special form) [20.1906(b)(1)] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| F. | Incoming packages surveyed [20.1906(b)(2)] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| G. | Monitoring in (E) and (F) above, performed within time specified [20.1906(c)] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| H. | Transfer(s) between licensees performed [30.41] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| I. | All sources surveyed before shipment and transfer [20.1501(a), L/C] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| J. | Records of surveys and receipt/transfer maintained [20.2103(a), 30.51] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| K. | Transfers among licensee's authorized users or locations performed as required [L/C] | <input type="checkbox"/> N/A <input type="checkbox"/> Y <input type="checkbox"/> N |
| L. | Arrangements made for packages containing quantities of radioactive material in excess of Type A quantity [20.1906(a)] | <input type="checkbox"/> N/A <input type="checkbox"/> Y <input type="checkbox"/> N |
| M. | Package receipt/distribution activities evaluated for compliance with 20.1301 [20.1302] | <input type="checkbox"/> N/A <input type="checkbox"/> Y <input type="checkbox"/> 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 unauthorized 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] (4)Y()N
- B. Training program required [L/C] (2)Y()N
- (1) If so, briefly describe training program:
+ 4 hours vendor training
S. TRONEN SETC - 8-12-98
E. BECHTEL
- (2) Training program implemented (4)Y()N
- (3) Periodic training program required (4)Y()N
- (4) Periodic training program implemented ()Y()N/A
- (5) Records maintained (4)Y()N
- C. *Annual training will be required*
 Individual's understanding of procedures and regulations is adequate (4)Y()N
- (1) Current operating procedures (4)Y()N
- (2) Emergency procedures (4)Y()N
- (3) Use of survey instrumentation (4)Y()N
- D. Revised Part 20
 Workers cognizant of requirements for:
- (1) Radiation safety program [20.1101] (4)Y()N
- (2) Annual dose limits [20.1301-1302] (4)Y()N
- (3) New NRC Forms 4 and 5 (4)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] (2)N/A()Y()N
- (7) Procedures for opening packages [20.1906] (4)N/A()Y()N
- (8) Sewer disposal limits [20.2003] (4)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 | A
- C. Records maintained [20.2103, L/C] (Y) () N
- D. Handling and use of radioactive materials [L/C]
- (1) Protective clothing worn () Y () N | A
- (2) Personnel routinely monitor or frisk themselves after procedures or before leaving () Y () N | A
- (3) No eating/drinking/smoking in use/storage areas () Y () N | A
- (4) No food, drink, or personal effects stored in use/storage areas () Y () N | A
- (5) Proper dosimetry worn (Y) () N
- (6) Radioactive waste disposed in proper containers () Y () N | A
- (7) No pipetting by mouth () Y () N | A
- (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 1/4
- (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 1/4
- (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 | A

- (9) NRC Forms or equivalent [20.2104(d), 2106(c)]
- | | | | |
|----------------|---|-----------|--|
| (a) NRC Form 4 | <input type="checkbox"/> Y <input type="checkbox"/> N | Complete: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| (b) NRC Form 5 | <input type="checkbox"/> Y <input type="checkbox"/> N | Complete: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| (b) In accordance with [L/C] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| (c) Labels removed or defaced [20.1904(b)] | <input type="checkbox"/> Y <input type="checkbox"/> 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

(~~Y~~) 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 I
- 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):

Discussion to PSC

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 reviewed 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(l)] () 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:

discussions w ISO

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:

discussions w ISO

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 of 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 140 6392 3/98

B. Inspector performed CONFIRMATORY measurements () () N

C. Inspector performed INDEPENDENT measurements () () 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 areas to confirm licensee survey all readings $\leq 1.74 \mu\text{R/hr}$ outside of building. Independent measurements in restricted areas were less than $2.2 \mu\text{R/hr}$ with shield sources & 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 | (<input checked="" type="checkbox"/>) N/A () Y () N |
| E. | Inadequate consulting services or inadequate audits conducted | (<input checked="" type="checkbox"/>) 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"

8188982361 P.03

JLSA

AUG-19-1998 12:01

TOTO D 03

Certificate

Mary F. Shepherd
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



J.L. SHEPHERD & ASSOCIATES
ORGANIZATION

Mary F. Shepherd
SIGNED

PRESENTED THIS 12th DAY OF August 1998

701 1002000000

1002000000

1002000000

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



J.L. Shepherd & Associates
ORGANIZATION

Mary J. Shepherd
SIGNED

PRESENTED THIS 12th DAY OF August, 1998

CECOM DSRM

Office of the Director

PSC

06
07
~~10~~
14

DARA
DARP

RE

- 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*

CONT.
USERS

C4S

- 1 GS-0803-14
- 1 GS-0018-13
- 2 GS-0803-13
- 3 GS-0855-13
- 3 GS-0803-12
- 1 GS-0830-12
- 3 ADP *



IEW/S

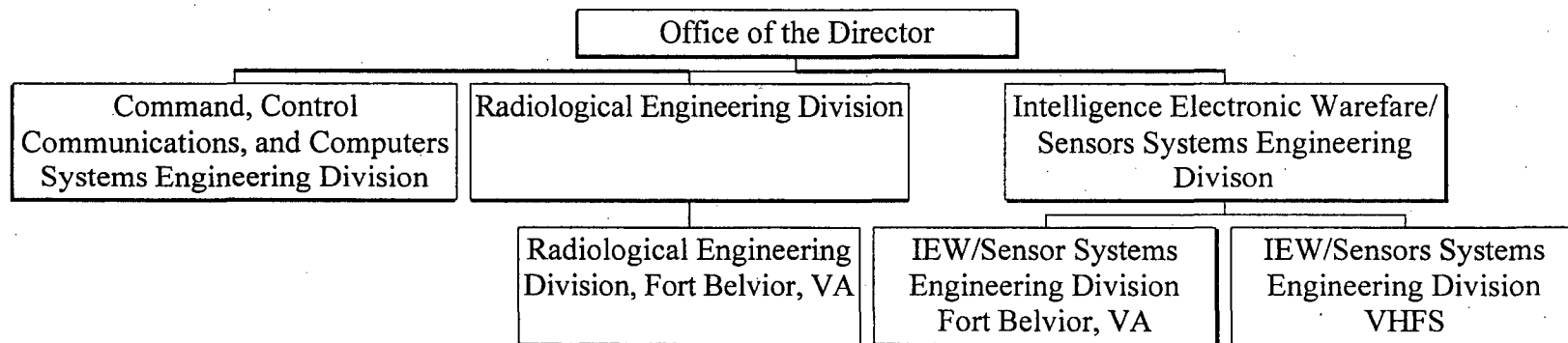
- 1 GS-0803-14
- 3 GS-0803-13
- 1 GS-0803-12

FORT BELVOIR FIELD OFFICE

- 3 GS-0803-13
- 1 GS-0690-13
- 1 GS-0018-12
- 1 IH *



Directorate of Safety Risk Management



USACEC Directorate of Safety Risk Management 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	ID	Ext	Branch
BTANCHI, Hugo	x6444	RE 1306-12	NOWIK, Bill	x6418	SEP
BOYLAN, Chuck (c)	x6420	SEP	PHAM, Thang	x6417	SEP
BRENNAN, Tom	x6404	SEC	PIAZZA, Frank	x6443	RE 0803-12
BRYANT, Alton (c)	x6416		PONTOLILLO, Inge (c)	x6421	
BURBELO, Andrew	x6415	SEP	POWERS, Mary	x6430	A
CHAN, Steven	x6413	SEP	PROCTOR, Ken	x6446	RE 0805-13
COCCO, Joe	x6436	SEP	RUSSO, Leonard	x6414	SEP
CRAIG, Dave (c)	x75591	RE CONT	**SANTARSIERO, Joe	x6427	RE 1306-14
FRAMPTON, Alice	x6432	RE 0018-12	SILBER, Barry	x6440	RE 1306-13
GABRIEL, PAUL (c)	X6419		SOFFER, Lou	x6434	SEP
GOLDBERG, Craig	x6405	RE 1306-13	TOBIAS, John	x6412	SEP
GRAHAM, Linda	x6429	SE	VEGA, Wilfredo	x6407	SEC
GRIMES, Jim (c)	x6438	RE CONT	VIDSENS, Gail	x6426	RE Admin
HANRAHAN, Jay	x6406	SEC	VONSTEENBURG, Al	x6409	SEP
HEZEL, KARL	x6442	RE	ZIOLA, Gary	x6433	RE 1306-12
HORNE, Steve	x6401	SF			
KLIMEK, PHIL	x6437	SEP			
KIERNAN, David	x6447	SEP			
**LASCALA, Rich	x6410	SEC	Computer Room	x6422	
LOVELL, Rich	x6441	RE 1306-13	Conference Room	x6402	
**MANCINI, Fern	x6411	SEP	Training Room	x6403	
MANKOWSKI, GRACE (c)	x6448	RE HP Tech	USAG Safety Ofc	x20083	
MCLANE, GEORGE	X6439	SEP			
MOY, Elaine	x6408	SEC			

dos. 2/19/98

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	ID	Ext
CUMMINGS, Burt	6450 (c) HP Tech	MANKOWSKI, Grace	6448 (c)
PERRELLA, Al	6452 (c) HP Tech	Range	6451
Prep Lab	6449		

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

ID	Ext	ID	Ext
BENT, Corey	2094	KAY, Burleigh	1779 (c)
BUTLER, Debbie	3354	THACKSTON, Joell	2282 (c)
DICKENS, Steph	3417	WOO, Thanh	1806 (c)
HAYNES, David	3682	HO, Gaines	2093

COMPLETED: 6/29/98

ID	NOMENCLATR	ISOTOP	MILLICURI	LOCATION	COMMENTS	CO	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: Z03-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	

RADINV1

ID	NOMENCLATURE	ISOTOPE	MILLCURIE	LOCATION	COMMENTS	CON	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	ANUDM-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	ANUDM-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 SHEPHERD 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

RADINV1

ID	NOMENCLATR	ISOTOP	MILLICURIE	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

RADINV1

ID	NOMENCLATR	ISOTOP	MIL LICURIE	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	ISOTOP	MILLICURIE	LOCATION	COMMENTS	CON	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 ISO
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	MILLCURIE	LOCATION	COMMENTS	CON	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	

RADINV1

ID	NOMENCLATR	ISOTOP	MILLICURIE	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