

LICENSE NO: 29-01022-07

DOCKET NO. (s) 030-06989

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ATTACHED

- Appendix A
- Appendix B
- Appendix C
- Memo

INSPECTION REPORT NO. 85-01  
Dept. of Army ERADCOM  
Fort Monmouth, N.J.

LICENSEE CONTACT: Scott Davis, RSO Telephone No: 201-544-5292

LICENSE NO: 29-01022-07 CATEGORY 2 PRIORITY: 3

CATEGORY \_\_\_\_\_ PRIORITY: \_\_\_\_\_

CATEGORY \_\_\_\_\_ PRIORITY: \_\_\_\_\_

INSPECTION DATE (s): January 22-23, 1985 TYPE OF INSPECTION:

- SPECIAL
- ROUTINE
- DAYSHIFT
- OTHER
- ANNOUNCED
- UNANNOUNCED

SUMMARY OF FINDINGS AND ACTION

- NO NONCOMPLIANCE, CLEAR 591 ISSUED
- NO NONCOMPLIANCE, LETTER
- NONCOMPLIANCE, APPENDIX A

- ACTION ON PREVIOUS NONCOMPLIANCE, APPENDIX B
- NONCOMPLIANCE, 591 ISSUED
- SUPPLEMENTAL INFO, APPENDIX C

RECOMMENDATIONS  
SEE BASIS IN APPENDIX C

CHANGE CATEGORY TO: \_\_\_\_\_  
 NEXT INSPECTION DATE: January 1988

CHANGE PRIORITY TO: \_\_\_\_\_

PERSONS CONTACTED

S. Davis, RSO  
R. Kase, Chief Safety ERADCOM

INSPECTOR: Claude Rowe 2-1-85 FF/15

APPROVED: V. Costello 2-25-85

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

INSPECTION PLAN AND REPORT NUMBER \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

Plan Approved: \_\_\_\_\_ Date: \_\_\_\_\_

Licensee: \_\_\_\_\_ License No. \_\_\_\_\_

Inspection Items	Scheduled for Inspection	Post Inspection Status	Module No.
Management Meeting - Entrance and Exit Interviews (Required)			30703B
Program Requirements, MC 2850 (Required)			77710B
Followup on Noncompliance and Deviations			92702B
Independent Inspection Effort (Required)			92706B
Transportation			86740B

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77710B - Irradiator

AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEMS	CRITERIA	FINDING
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1. Organization

Lic Cond \_\_\_\_\_

C

- Management organization?
- Radiation protection organization?
- Scope of program?

*[ ] Co-60 now decayed to ~ 280 R/hr 1 meter*

NOTES & REMARKS:

2. Licensee Internal Audits

Lic Cond \_\_\_\_\_

C

- Scope and frequency?
- Management controls?

*By RSO monthly*

NOTES & REMARKS:

3. Training and Instructions to Employees

Lic Cond \_\_\_\_\_

NC

- Training program, scope and frequency, retraining?
- Required tests administered; scores satisfactory?
- Instructions to workers?

12

19.12

NOTES & REMARKS:

*Facility operated by individual not approved by IRCC and not listed as approved operator on facility's procedure Dates of June 10-11, 1984 & 12-20-*

4. Radiation Protection Procedures

Lic Cond \_\_\_\_\_

C

- Operating & emergency procedures implemented?
- Security?

20.207

NOTES & REMARKS:

## AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
<b>5. <u>Materials, Facilities and Instruments</u></b>		
Authorized uses and quantities?	Lic Cond _____	<u>C</u>
Restricted areas, posting requirements?	20.203	
Survey instruments & dosimeters; operable, properly calibrated?	Lic Cond _____	
Independent area radiation monitor?		
Survey meter used on entering HRA?		
NOTES & REMARKS:		
<b>6. <u>Receipt and Transfer of Materials</u></b>		
Procedures implemented, adequate?	20.205, 71.51	<u>C</u>
Transfer of byproduct material?	30.41	
Control of source material, SNM?	40.51, 40.64, 70.42, 70.51, 70.53, 70.54	
Records of receipt, transfer, storage, survey and monitoring?	30.51	
NOTES & REMARKS:		
<b>7. <u>Control of High Radiation Area</u></b>		
Interlocks, tests, entry control?	20.203(c)(6)	<u>C</u>
Action if entry control device fails?		
Device to prevent source exposure with individual in chamber?		
Level control for liquid shield?		
Source exposure procedure?		
Control of portals (continuous irradiator)?		
NOTES & REMARKS:		

77710B - Irradiator

## AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
<u>8. Transportation</u>		
Management controls, audits?		<u>C</u>
Selection of packaging?	49 CFR 173.393-5, 10 CFR 71	
Preparation of packages for shipment?	49 CFR 172, 173	
Filling, loading, closing, liquids?	49 CFR 172, 300	
Markings & labelling?	49 CFR 172.403, 402	
Monitoring?	49 CFR 173.393	
Shipping papers, loading & placarding of vehicles?	49 CFR 172.200	
Reports of Incidents?		
Examination of packages?		
NOTES & REMARKS:		

<u>9. Personnel Protection- External</u>		
Personnel monitoring control; minimize exposures, control of accumulated dose?	20.101, 20.102, 20.202	<u>C</u>
Surveys conducted, adequate?	20.201	
Records of monitoring, surveys, disposals?	20.401, Lic Cond _____	
Levels in unrestricted areas?	20.1, 20.105	
NOTES & REMARKS:		

<u>10. Personnel Protection - Internal</u>		
Airborne concentrations in restricted areas?	20.103	<u>C</u>
Exposure of minors?	20.104	
Posting of airborne radioactivity areas?	20.203	
Survey, monitoring, bioassay requirements; records?	20.201, 20.401	
Leak tests of sealed sources?	Lic Cond _____	
NOTES & REMARKS:		

## AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
<b>11. <u>Effluent Control, Waste Disposal</u></b>		
Release of effluents?	20.106	<u>N/A</u>
Waste disposal, proper packaging for shipment?	20.301, 20.303, 20.304, 20.305	
Procedures, records?	20.401, Lic Cond _____	
NOTES & REMARKS:		
<b>12. <u>Shipping, Shipping Incidents</u></b>		
Procedures for pickup, receipt, monitoring of packages?	20.205(b) & (c)	<u>N/A</u>
Incidents, reports, corrective actions?	49 CFR 170-189	
NOTES & REMARKS:		
<b>13. <u>Notifications and Reports</u></b>		
To individuals?	19.13	<u>C</u>
Overexposures, excessive levels & concentrations, incidents?	20.403, 20.405	
Personnel exposures and monitoring, termination reports?	20.407, 20.408	
Theft or loss of licensed material?	20.402	
NOTES & REMARKS:		
<b>14. <u>Posting of Notices</u></b>		
Part 20, license & documents, procedures, notice of violations?	19.11(a)	<u>C</u>
NRC-3?	19.11(c)	
NOTES & REMARKS:		

AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
<p>15. <u>Environmental Monitoring Program</u></p> <p>Implementation of program, scope and frequency as required?</p> <p>Records maintained, reviewed by management?</p> <p>NOTES &amp; REMARKS:</p>	Lic Cond _____	<u>N/A</u>

<p>16. <u>Emergency Preparedness</u></p> <p>Procedures available for incidents and accidents?</p> <p>Training for personnel; coordination with supporting groups and agencies?</p> <p>NOTES &amp; REMARKS:</p>	Lic Cond _____	<u>C</u>
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<p>17. <u>Other License Conditions</u></p> <p><i>LIC 17 requires pocket dos &amp; chips when working in exposure room.</i></p> <p>NOTES &amp; REMARKS:</p> <p><i>None at facility + routinely not used</i></p>		<u>NC</u>
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<p>18. <u>Confirmatory Measurements</u></p> <p>Licensee's surveys verified on sampling basis?</p> <p>Analysis of pool water sample?</p> <p>NOTES &amp; REMARKS:</p>	20.105, 20.201	
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NRC Instrument: \_\_\_\_\_ Calibration Due Date: \_\_\_\_\_

<p>19. <u>Independent Inspection Effort</u></p> <p>NOTES &amp; REMARKS:</p>		<u>C</u>
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INSPECTION REPORT NUMBER \_\_\_\_\_

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APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: \_\_\_\_\_

License No: \_\_\_\_\_

Reference	Basis for noncompliance
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	
Report item _____	
10 CFR _____	
Lic Cond _____	
Type n/c _____	

REGION I Form 198-F.4  
(July 82)

INSPECTION REPORT NUMBER \_\_\_\_\_

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APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

Licensee: \_\_\_\_\_

License No: \_\_\_\_\_

Identification and summary of action taken	Status
Report No: _____ Type n/c: _____ Describe: _____	
Action taken:	OPEN
	CLOSED
Report No: _____ Type n/c: _____ Describe: _____	
Action taken:	OPEN
	CLOSED
Report No: _____ Type n/c: _____ Describe: _____	
Action taken:	OPEN
	CLOSED
Report No: _____ Type n/c: _____ Describe: _____	
Action taken:	OPEN
	CLOSED
Report No: _____ Type n/c: _____ Describe: _____	
Action taken:	OPEN
	CLOSED
Report No: _____ Type n/c: _____ Describe: _____	
Action taken:	OPEN
	CLOSED
Report No: _____ Type n/c: _____ Describe: _____	
Action taken:	OPEN
	CLOSED

INSPECTION REPORT NUMBER \_\_\_\_\_

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APPENDIX C - SUPPLEMENTARY INFORMATION

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_

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- |   |   |
|---|---|
| <input type="checkbox"/> Uncorrected/repeated noncompliance       | <input type="checkbox"/> Unresolved items     |
| <input type="checkbox"/> Unusual occurrence, conditions, etc      | <input type="checkbox"/> Inspector's comments |
| <input type="checkbox"/> Basis for change of Category or Priority |   |
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INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGEMENT

<b>1. LICENSEE</b> U.S. Army Electronics R + D Command Fort Monmouth, N. J. 07703	<b>2. REGIONAL OFFICE</b> U.S. Nuclear Regulatory Commission Region I 631 Park Avenue King of Prussia, Pa. 19406
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<b>3. DOCKET NUMBER(S)</b> 30-05248, 30-06989, 30-07781, 70-01351, 40-08194	<b>4. LICENSE NUMBER(S)</b> 29-01022-06, -07, -10 5NM-1323, 5MB-1183	<b>5. DATE OF INSPECTION</b> January 21, 1982
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**6. INSPECTION FINDINGS**  
 The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:

No items of noncompliance or unsafe conditions were found.

The following items of noncompliance related to records, signs, and labels were found:

- A. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 34.
- B. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 34.42
- C. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d)
- D. Rooms or areas were not properly posted to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(e)
- E. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(f) (1) or (f) (2)
- F. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b)
- G. Form NRC-3 was not properly posted. 10 CFR 20.206(c)
- H. Records of the radiation exposure of individuals were not properly maintained. 10 CFR 20.401(a) or 34.33(b)
- I. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 34.43(d)
- J. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.51, 40.61 or 70.51
- K. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 34.25(c)
- L. Records of inventories were not maintained. 10 CFR 34.26
- M. Utilization logs were not maintained. 10 CFR 34.27
- N. Records of radiation survey instrument calibration were not maintained. 10 CFR 34.24
- O. Records of teletherapy electrical interlock tests were not maintained as prescribed in your license.
- P. Other \_\_\_\_\_

*Lawrence F. Friedman, Ph.D., C.H.P.*  
(NRC Inspector)

**7.** The NRC Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.

IE07

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(Date) (Licensee Representative - Title or Position)