



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Alcohol, Drug Abuse, and  
Mental Health Administration  
National Institute of Mental Health  
Division of Special Mental Health  
Research, IR  
Saint Elizabeths Hospital  
WAW Building  
Washington DC 20032

May 16, 1983

Mr. Thomas T. Martin, Director  
Division of Engineering and Technical Programs  
United States Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Dear Mr. Martin:

We were pleased to receive your letter of April 18 giving us a clean "bill of health". This report resulted from Inspection Number 83-01, Docket Number 030-09182, License Number 08-15484-01. Just to assure that your records are accurate and complete, I would like to mention a few minor discrepancies in names associated with our program. This Director of the Division of Special Mental Health Research is Dr. Richard J. Wyatt. Our radiation safety officer, with whom Mr. Jones conversed is Mr. Jeffrey Rubenstein. Mr. Rubenstein in particular has done an admirable job in overseeing the day-to-day activities associated with license compliance. The assistance of your office in this regard is also appreciated.

Sincerely yours,

Carl C. Pergler  
Administrative Officer  
202/574-7640

8506110532 850109  
PDR FOIA  
ENGEL84-789 PDR

APR 15 1983

License No. 08-15484-01

Docket No. 030-09182

Department of Health and Human Services  
National Institute of Mental Health  
St. Elizabeth's Hospital  
ATTN: Richard Wyatts, M.D.  
Wm. A. White Building  
Washington, D.C. 20032

Gentlemen:

Subject: Inspection No. 83-01

This refers to the routine safety inspection conducted by Mr. S. Jones of this office on April 4, 1983, of activities authorized by NRC License No. 08-15484-01 and to the discussions of our findings held by Mr. Jones with Mr. J. Rosenstein of your staff at the conclusion of the inspection.

The inspection was an examination of 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, measurements made by the inspector, and observations by the inspector.

Within the scope of this inspection, no violations were observed.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and your reply will be placed in the Public Document Room.

No reply to this letter is required. Your cooperation with us in this matter is appreciated.

Sincerely,

Original Signed By  
John E. Glenn, Ph.D.

Thomas T. Martin, Director  
Division of Engineering and Technical  
Programs

1E07

8304250232  
12pp

DETP:RI  
S. Jones  
Glenn  
4/13/83

Human Services

2

APR 15 1983

cc:  
Mr. J. Rosenstein ✓  
Public Document Room (PDR)  
Nuclear Safety Information Center (NSIC)  
District of Columbia ✓

bcc:  
Region I Docket Room (w/concurrences)  
Senior Operations Officer ✓

OFFICE >	RI:DETP	RI:DETP					
NAME	Jones/lp	Glenn					
	4/11/83	4/12/83					

REGION I Form 198-D  
(July 82)LICENSE NO: 08-15484-01DOCKET NO. (s) 030-09182PAGE        OF       

## ATTACHED

- ☐ Appendix A  
☐ Appendix B  
☐ Appendix C  
☐ Memo

INSPECTION REPORT NO. 83-01Dept. of Health + Human ServicesNational Institute of Mental HealthDr. Elizabeth Hise, Wm A. White Bldg. Wash. D.C.LICENSEE CONTACT: M. Jeff Rosenberg RubinsteinTelephone No: 202-574-2474LICENSE NO: 08-15484-01CATEGORY 6PRIORITY: 4CATEGORY       PRIORITY:       CATEGORY       PRIORITY:       INSPECTION DATE (s): 4/4/83

TYPE OF INSPECTION:

- ☐ SPECIAL ☐ ANNOUNCED  
☒ ROUTINE ☒ UNANNOUNCED  
☐ DAYSHIFT  
☐ OTHER

## 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: 0485

☐ CHANGE PRIORITY TO:       

## PERSONS CONTACTED

\* Richard W. Hise, M.D.James G. Hise, M.D.Nancy Hise, Ph.D.Dr. WenzelDr. Dezman\* M. Jeff Rosenberg RubinsteinINSPECTOR: S. JonesAPPROVED: J. Illen 4/5/83



INSPECTION PLAN AND REPORT NUMBER \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

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

Date: \_\_\_\_\_

License No. \_\_\_\_\_

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

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

Licensee:

License No:

Amendment No:

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u>	Lic Cond <u>17</u>	<u>C</u>
Management organization?	Richard W. Hett, M.D. (Director)	
Radiation Protection Organization?		
Scope of Operation?	Dr. Gersh Dr. Neft M. Rosenstain	Dr. Weinsberger Dr. Turkus Dr. Berner } involved in re-studies (HUMAN-001)
NOTES & REMARKS:		
2. <u>Licensee Internal Audits</u>	Lic Cond <u>17</u>	<u>C</u>
Scope and frequency?	Health Physics Service, Inc. visits the facility bi-monthly.	
Management controls?	They perform: audit of entire program, survey each room where radioactive materials are used or stored, calibrate survey meters and perform entire bioassays are conducted.	
NOTES & REMARKS:		
3. <u>Training and Instructions to Employees</u>		<u>C</u>
Training program, scope and frequency, retraining?	Lic Cond <u>17</u>	
Required tests administered; scores satisfactory?		The RSO arranges for employee radiation safety training which is conducted at NIM.
Instructions to workers?	19.12	The RSO maintains and reviews the radiation safety training records of all individuals. Also, the consultant HPSI also provides periodic training.
NOTES & REMARKS:		
4. <u>Radiation Protection Procedures</u>		<u>C</u>
Operating & emergency procedures implemented?	Lic Cond <u>17</u>	
Security? ✓	20.207	
NOTES & REMARKS:		
5. <u>Materials, Facilities and Instruments</u>		<u>C</u>
Authorized uses and quantities?	Lic Cond <u>17</u>	
Restricted areas, posting requirements?	20.203	
Survey instruments & dosimeters; operable, properly calibrated? ✓		
NOTES & REMARKS:		

## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
6. <u>Receipt and Transfer of Materials</u>		<u>C</u>
Procedures implemented, adequate?	20.205, 71.51	
Transfer of byproduct material?	30.41	
Control of source material,	40.51, 40.64, 70.42, 70.51, 70.53, 70.54	
Labeling and packaging?	71.5, 49CFR 170-189	
Records of receipt, transfer, storage, survey, and monitoring?	30.51	
Procedures for pickup, receipt, monitoring of packages?	20.205(b)&(c)	
NOTES & REMARKS: RSO has control over incoming radioactive shipments		

7. <u>Personnel Protection - External</u>		<u>C</u>
Personnel monitoring control; minimize exposures, control of accumulated dose?	20.101, 201.102, 20.202	
Surveys conducted, adequate? ✓	20.201	
Records of monitoring, surveys, disposals?	20.401, Lic Cond _____	
Levels in unrestricted areas?	20.1, 20.105	
NOTES & REMARKS:		

8. <u>Personnel Protection - Internal</u>		<u>C</u>
Airborne concentrations in restricted areas?	20.103	
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:		

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

## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
		<u>C</u>

9. Effluent Control, Waste Disposal

Release of effluents?

20.106

Waste disposal, proper packaging for shipment? ✓

20.301, 20.303, 20.304, 20.305

Procedures, records? ✓

20.401, Lic Cond \_\_\_\_\_

NOTES & REMARKS: Solid & liquid waste is segregated into individual SS spill drums. Each drum is labeled as to the nuclide, chemical form, activity, transportation group exposures at surface & three (3) drums are double sealed & sealed. The present drum is Radice Research Corp. which ships waste to US Ecology.

N/A10. Transportation

Management controls, audits?

49 CFR 173.393-5; 10 CFR 71

Selection of packaging?

49 CFR 172.173

Preparation of packages for shipment? Filling and loading, closing, liquids?

49 CFR 172.300

Markings &amp; labelling?

49 CFR 172.402, 403

Monitoring?

49 CFR 173.393

Shipping papers, loading and placarding of vehicles?

49 CFR 172.200

Reports of Incidents?

49 CFR 171.15, 171.16

Training program?

Examination of packages?

NOTES &amp; REMARKS:

C11. Notifications and Reports

To individuals?

19.13

Overexposures, excessive levels and concentrations, incidents?

20.403, 20.405

Personnel exposures and monitoring, termination reports?

20.407, 20.408

Theft or loss of licensed materials?

20.402

NOTES &amp; REMARKS:

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

Page \_\_\_\_\_ of \_\_\_\_\_

777108 - Industrial - Academic

AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
12. <u>Posting of Notices</u>		<u>C</u>
Part 20, license & documents, procedures, notice of violations?	19.11(a)	
NRC-3?	19.11(c)	
NOTES & REMARKS:		

13. <u>Environmental Monitoring Program</u>	Lic Cond _____	<u>N/A</u>
Implementation of program, scope and frequency as required?		
Records maintained, reviewed by management?		
NOTES & REMARKS:		

14. <u>Emergency Preparedness</u>	Lic Cond _____	<u>C</u>
Procedures available for incidents and accidents?		
Training for personnel; coordination with supporting groups and agencies?		
NOTES & REMARKS:		

15. Other License Conditions

NOTES & REMARKS:



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

Page \_\_\_\_ of \_\_\_\_

77710B - Industrial - Academic

AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
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16. Confirmatory Measurements

Licensee's surveys verified on sampling basis? 201.105, 20.201

NOTES & REMARKS: Area survey by inspector demonstrated no contamination

NRC Instrument: Ludlum 14C Calibration due date: 6-13-83

17. Independent Inspection Effort

NOTES & REMARKS:

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

Page \_\_\_\_\_ of \_\_\_\_\_

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 \_\_\_\_\_

(July 82)

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

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

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

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

Report No: _____ Type n/c: _____ Describe: _____	OPEN
Action taken: _____	CLOSED

Report No: _____ Type n/c: _____ Describe: _____	OPEN
Action taken: _____	CLOSED

Report No: _____ Type n/c: _____ Describe: _____	OPEN
Action taken: _____	CLOSED

Report No: _____ Type n/c: _____ Describe: _____	OPEN
Action taken: _____	CLOSED

Report No: _____ Type n/c: _____ Describe: _____	OPEN
Action taken: _____	CLOSED

Report No: _____ Type n/c: _____ Describe: _____	OPEN
Action taken: _____	CLOSED

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

Page \_\_\_\_ of \_\_\_\_

APPENDIX C - SUPPLEMENTARY INFORMATION

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

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

- 
- ☐ Uncorrected/repeated noncompliance
  - ☐ Unusual occurrence, conditions, etc
  - ☐ Basis for change of Category or Priority

- ☐ Unresolved items
- ☐ Inspector's comments

MAY 16 1983

License No. 08-08327-02

Docket No. 30-01330

Capitol Hill Hospital  
ATTN: Harold Granning  
Administrator  
700 Constitution Avenue, NE  
Washington, D.C. 20002

Gentlemen:

Subject: Inspection No. 30-01330/83-01

This refers to your letter dated March 3, 1983, in response to our letter dated February 7, 1983.

Thank you for informing us of the corrective and preventive actions documented in your letter. These actions will be examined during a future inspection of your licensed program.

Based on a telephone conversation between Mr. Nicolosi of this office and you on April 13, 1983 that you will develop specific, written procedures which will describe actions to avoid recurrence of these violations.

Your cooperation with us is appreciated.

Sincerely,

*Original signed by  
John Kinneman*

*for* Thomas T. Martin, Director  
Division of Engineering and  
Technical Programs

cc:  
Public Document Room (PDR)  
Nuclear Safety Information Center (NSIC)  
District of Columbia

bcc:  
Region I Docket Room (with concurrences)  
~~Senior Operations Officer (w/o encls)~~

*Kinneman*  
RI:DETP  
Kinneman/pja  
5/9/83

~~8305200601~~  
IP.

1E07  
45





March 3, 1983

Thomas T. Martin, Director  
Division of Engineering and  
Technical Programs  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

RE: Inspection No. 83-01  
License No. 08-08327-02

Dear Mr. Martin:

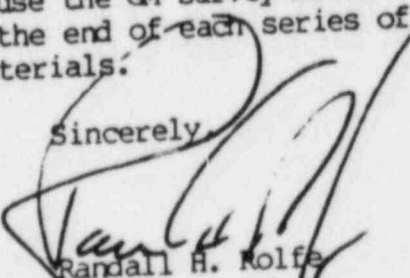
This is in response to your letter of February 7, 1983, to Mr. Harald M. Graning, Assistant Administrator responsible for our Nuclear Medicine section, concerning the routine inspection performed at this hospital on January 7, 1983. The paragraphs below are in direct response to the numbered paragraphs in Appendix A attached to your letter.

A. The TLD badge not processed for the period of July 20, 1982 to August 19, 1982, was lost. An examination of the extremity dose reports for all the Nuclear Medicine Technologists revealed that the highest average monthly extremity result was less than 100 mrem which is less than two percent of the maximum permissible dose equivalent for extremities. The person whose July-August, 1982 badge was lost has an average monthly extremity dose equivalent of 17 mrem since May, 1980. The tasks performed by technologists rarely change, and did not change for the individual concerned in 1982.

B1. Surveys at the end of each working day performed with the GM survey meter are now being performed by the Nuclear Medicine Staff. Areas checked include the floor and working surface around the dose preparation area.

B2. Nuclear Medicine Technologists now use the GM survey meter rather than the camera to check their hands at the end of each series of procedures involving the use of radioactive materials.

Sincerely,

  
Randall H. Rolfe  
President and  
Chief Executive Officer

83052006/2

1/1

Docket No. 30-01330

FEB 7 1983

License No. 08-08327-02

Capitol Hill Hospital  
ATTN: Harold Granning  
Administrator  
700 Constitution Avenue, NE  
Washington, D.C. 20002

Gentlemen:

Subject: Inspection No. 83-01

This refers to the routine safety inspection conducted by Messrs. Nicolosi and Jones of this office on January 7, 1983 of activities authorized by NRC License No. 08-08327-02 and to the discussions of our findings held by Mr. Nicolosi with yourself and Dr. Davidson of your staff at the conclusion of the inspection.

The inspection was an examination of 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, measurements made by the inspector, and observations by the inspector.

Our inspector also verified the steps you have taken to correct the violations brought to your attention in the enclosure to our letter dated October 29, 1980. We have no further questions regarding your action at this time.

Based on the results of this inspection, it appears that certain of your activities was not conducted in full compliance with NRC requirements, as set forth in the Notice of Violation, enclosed herewith as Appendix A. This violation has been categorized by severity level in accordance with the NRC Enforcement policy (10 CFR 2, Appendix C) published in the Federal Register Notice (47 FR 9987) dated March 9, 1982. You are required to respond to this letter and in preparing your response, you should follow the instructions in Appendix A.

The responses directed by this letter and the accompanying Notice are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and your reply will be placed in the Public Document Room.

~~8302230242~~

240

16 07

FEB 7 1983

Your cooperation with us in this matter is appreciated.

Sincerely,

Original Signed By:  
**John D. Kinneman**

*J. T. Martin* Thomas T. Martin, Director  
Division of Engineering and  
Technical Programs

Enclosure: Appendix A, Notice of Violation

cc:  
Public Document Room (PDR)  
Nuclear Safety Information Center (NSIC)  
District of Columbia

bcc:  
Region I Docket Room (with concurrences)  
Senior Operations Officer (w/o encls)

*Nicolosi*  
RI:DETP  
Nicolosi/jpf  
1/13/83

*Kinneman*  
RI:DETP  
Kinneman  
2/4/83

FEB 7 1983

APPENDIX A

NOTICE OF VIOLATION

Capital Hill Hospital  
Washington, DC 20002

Docket No. 30-01330  
License No. 08-08327-02

As a result of the inspection conducted on January 7, 1983, and in accordance with the NRC Enforcement Policy (10 CFR 2, Appendix C), the following violations were identified.

- A. 10 CFR 20.201(b), "Surveys", requires that each licensee make such surveys as may be necessary to comply with all sections of Part 20. As defined in 10 CFR 20.201(a), "survey" means an evaluation of the radiation hazards incident to the production, use, release, disposal or presence of radioactive materials or other sources of radiation under a specific set of conditions.

Contrary to the above, as of January 7, 1983, surveys were not made to assure compliance with that part of 10 CFR 20.101 that limits the radiation exposure to the extremities of individuals. Specifically, no evaluation was made of the radiation dose to the hands and fingers of personnel who inject patient doses and whose TLD badge was not processed for the period of July 20, 1982 to August 19, 1982.

This is a Severity Level IV violation. (Supplement IV)

- B. Condition 15 of License No. 08-08327-02 requires that licensed material be possessed and used in accordance with statements, representations, and procedures contained in an application dated January 19, 1978.

1. Item 3 (Procedures) in page 5-1 of the Radiation Safety Procedures Manual enclosed with this application requires that a GM survey meter check for contamination on floors and working surfaces be done at the end of each day.

Contrary to the above, as of January 7, 1983, daily survey meter checks for contamination had not been done.

2. Item 1 (Procedures) on page 14-1 of the Radiation Safety Procedures manual enclosed with this application requires that individuals who prepare and inject doses of radiopharmaceuticals monitor their hands after each procedure.

Contrary to the above, as of January 7, 1983, Nuclear Medicine technologists failed to adequately monitor their hands after preparing doses of radiopharmaceuticals. This item was identified when the inspector measured radioactive contamination on hands of one technologist.

These are Severity Level IV violations. (Supplement VI)

~~8302230244~~ 12pp

FEB 7 1983

Pursuant to the provisions of 10 CFR 2.201, Capital Hill Hospital is hereby required to submit to this office within thirty days of the date of the letter which transmitted this Notice, a written statement or explanation in reply, including; (1) the corrective steps which have been taken and the results achieved; (2) corrective steps which will be taken to avoid further violations; and (3) the date when full compliance will be achieved. Where good cause is shown, consideration will be given to extending this response time.



REGION I Form 198-C  
(July 82)

LICENSE NO: 08-08327-02

PAGE \_\_\_\_\_ OF \_\_\_\_\_

ATTACHED

- ☐ Appendix A  
☐ Appendix B  
☐ Appendix C  
☐ Memo

DOCKET NO. (s) 30-01330

INSPECTION REPORT NO. 83-01

Capitol Hill Hospital  
700 Constitution Ave NE  
Washington DC 20002  
LICENSEE CONTACT: Lanning Davidson MD.

Telephone No: 202-269-8743

LICENSE NO: \_\_\_\_\_

CATEGORY G

PRIORITY: LV

CATEGORY \_\_\_\_\_

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

CATEGORY \_\_\_\_\_

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

INSPECTION DATE (s): 1/7/83

TYPE OF INSPECTION:

- ☐ SPECIAL ☐ ANNOUNCED  
☒ ROUTINE ☒ UNANNOUNCED  
☐ DAYSHIFT  
☐ OTHER

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: 1/86

☐ CHANGE PRIORITY TO: \_\_\_\_\_

PERSONS CONTACTED

Lanning Davidson MD  
Scott Brady NMT.  
Bill Edwards by phone 1/10/83  
Harold Gunning Admin.

INSPECTOR: Jim [Signature]

APPROVED: [Signature]

1/11/83

INSPECTION PLAN AND REPORT NUMBER \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

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

Date: \_\_\_\_\_

License No. \_\_\_\_\_

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

Inspection Items	Scheduled for Inspection	Post Inspection Status	Module No.
Management Meeting - Entrance and Exit Interviews (Required)	/	/	30703B
Program Requirements, MC 2860 (Required)	/	/	78710B
Followup on Noncompliance and Deviations	/	/	92702B
Independent Inspection Effort (Required)	/	/	92706B
Transportation			86740B

(July 82)

Page \_\_\_\_ of \_\_\_\_

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

787108 - Medical

AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u> Structure of organization as described in requirements? Scope of Program? Patient load? NOTES & REMARKS:	Lic Cond _____ <u>OK</u> ~ 200 bed hr v 200 studies monthly	<u>C</u>

2. <u>Licensee Internal Audits</u> Scope and frequency of audits as required? Conducted by appropriate persons? Records maintained? Reviewed by management? Deficiencies identified and corrected? NOTES & REMARKS:	Lic Cond _____ Monthly visits by Wm Shadt (physicist) who reviews program and participates in Rad Safety Comm. meeting	<u>C</u>
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3. <u>Training and Qualification of Personnel</u> Training & retraining conducted as required? Written & oral exams conducted? Examination results reviewed by management? Instructions to workers per 19.12? Authorized users? On license? Available in emergency? NOTES & REMARKS:	Lic Cond _____ by consultant. 19.12 <u>OK</u> <u>OK</u> <u>OK</u> <u>OK</u> Lic Cond _____	<u>C</u>
--	--	----------

4. <u>Radiation Protection Procedures</u> Procedures available and implemented? Identify radiopharmaceutical and dose(s)? Cover handling of patients receiving therapeutic doses? Cover handling of cadavers? Close out Surveys on Patients receiving temporary implants? Emergency procedures for spills, etc? Personnel understand procedures? NOTES & REMARKS:	Lic Cond _____ n/c ① No daily survey of prep and injection site ② Shoeprints hand contamination check. Use 8 comma i collimator on Lab coats worn, gloves worn. syringe shields used	<u>n/c</u>
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## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
5. <u>Use of Materials</u>		<u>C</u>
Procurement and use as required? <i>OK</i>	35.14(b)	
& route of administration? <i>OK</i>	35.14(b)(4)	
Special tests (moly breakthrough, leak tests, etc) required? <i>N/A</i>	35.14(b)(5)	Records of leak test not available on day of inspection
Inventory of brachytherapy sources? <i>N/A</i>	20.203	In phone conversation with
Dose calibration checks performed? <i>OK</i>		he stated that leak tests
Posting & labeling as required?		Results on the dose cal rep stds were kept in the daily log
NOTES & REMARKS: Bill Edwards on Jan 10, 1982. <i>OK</i>		Dose calibrator dukes.

6. Storage of MaterialsMaterial secured in both restricted and unrestricted areas? Adequately? *OK* 20.207

NOTES &amp; REMARKS:

7. FacilitiesAs described in lic cond or application? *OK*  
Any changes made? Adequacy? *OK*

NOTES &amp; REMARKS:

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

8. InstrumentsSurvey meters & instruments adequate for program? *OK*  
Instruments & meters operable? *OK* Calibrated? *yes*  
Calibration adequate? *OK*

NOTES &amp; REMARKS:

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

## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEMS	CRITERIA	FINDING
9. <u>Receipt and Transfer of Material</u>		<u>C</u>
Written procedures for pickup, receiving, opening packages?	20.205	
Survey of packages when received?	20.205(c)(1)	
Records of survey of packages?	20.401(b)	
Transfer of materials proper? Transfer records maintained?	30.41, 30.51	
Authorized containers used? Shipping papers & package labels proper for packages on hand?	71.5	Return in shipping cases to Pharmatops.
NOTES & REMARKS:		

10. Personnel Protection - External

Personnel monitoring controls adequate? Exposures minimized?	20.101, 20.202
Exposure records (NRC-4 or 5) maintained? Available for employee review?	20.102(b), 20.401(a)
Surveys conducted? Adequate?	20.201
Records of monitoring, surveys?	20.401
Levels in unrestricted areas within limits? (Particularly around nuclear med. hot lab rooms of brachytherapy patients)	20.1, 20.105

NOTES &amp; REMARKS:

July 20 - Aug 19  
No TLD finger badge report for one technician

11. Personnel Protection - Internal

Airborne concentrations in restricted areas? (Xe-133, patients treated with I-131)	20.103
Exposures to minors?	20.104
Posting of airborne radioactivity areas?	20.203(d)
Survey, monitoring bioassay adequate for airborne radioactivity, surface contamination? Records maintained?	20.201 20.401
Procedures for use of Xe-133 followed?	

NOTES &amp; REMARKS:

use Rb/Kr generator during week - use Xe-133 on weekends - do 2/month

only one patient tx with 7mCi of I-131 (liquid) Adequate monitoring



AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
-----------------	----------	---------

12. Effluent Controls, Waste Disposal

Release of effluents controlled?  
(particularly Xe-133, radioiodine  
where used)

20.106, 20.33

Waste disposals controlled? *yes*

20.301, 20.303, 20.304, 20.305

Procedures, records maintained? *yes*

20.401, Lic Cond \_\_\_\_\_

Surveys made? Adequate? *yes*

20.401

NOTES & REMARKS:

*Spent syringes returned to Pharmatopes.  
Waste held for decay - all placed in 55 gal drum and  
each entry is recorded. recorded.*

13. Notifications and Reports

To individuals?

19.13

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? *none*

20.402

Misadministrations?

35.41-35.45

NOTES & REMARKS:

*Misadministration reports May 16, 1981  
June 02, 1981 } Reports reviewed  
June 16, 1981*

*Correction action - adequate.*

14. Posting of Notices

Part 20, license & documents, procedures,  
notice of violations posted?

19.11(a)

NRC-3 posted?

19.11(c)

NOTES & REMARKS:

15. Other License Conditions

*10-14*

## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEMS	CRITERIA	FINDING
------------------	----------	---------

16. Confirmatory Measurements

*g/m survey of 145*  
*Contamination of patient imaging 1. After*  
*identified after tech had surveyed it. Her instrument*  
*(Eberline endoscope g/m also identified it. Inadequate survey by tech*  
*14C*  
NRC Instrument: \_\_\_\_\_ Calibration Due Date: 3/83

17. Independent Inspection Effort

*← Surveyed waste disposal area (ok)*  
*← Reviewed hand monitoring technique inadequate*  
*← Dose calibrator check (ok)*

18. Incidents and Events

Any incidents of misadministrations,  
contamination, etc., not otherwise  
covered by reports?

35.41 -35.45  
20.402, 20.403, 20.405

*None noted or reported*

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

Page \_\_\_\_\_ of \_\_\_\_\_

APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

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

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

Reference	Basis for noncompliance
Report item <u>4</u> 10 CFR _____ Lic Cond <u>15</u> Type n/c <u>SLIV</u>	Had contamination check - inadequate Inspector indentified hand contamination after tech had checked hands and found No contamination (use of & camera with collimator on)
Report item <u>4</u> 10 CFR _____ Lic Cond <u>15</u> Type n/c <u>SLIV</u>	No daily survey of prep and injection areas.
Report item <u>12</u> 10 CFR <u>20.201 ref 20.101</u> Lic Cond _____ Type n/c <u>SLIV</u>	No evaluation of dose 7/82-8/82 for finger extremities - finger badge not processed
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 _____	

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

Page \_\_\_\_\_ of \_\_\_\_\_

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

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

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

Identification and summary of action taken		Status
Report No: <u>80-01</u>	Type n/c: <u>Inf</u>	Describe: <u>Quarterly license by check of dose calibrator</u>
Action taken: <u>Record review indicate that checks are done on quarterly basis</u>		<input checked="" type="radio"/> OPEN <input type="radio"/> CLOSED
Report No: <u>80-01</u>	Type n/c: <u>Inf</u>	Describe: <u>Lock fast-ref. std</u>
Action taken: <u>Records not available on day of inspection. Phone conversation w/ Bill Edwards on 1/10/83 indicate that records are available in daily log of dose cal. check. Next inspection should verify this.</u>		<input checked="" type="radio"/> OPEN <input type="radio"/> CLOSED
Report No: _____	Type n/c: _____	Describe: _____
Action taken: _____		<input type="radio"/> OPEN <input type="radio"/> CLOSED
Report No: _____	Type n/c: _____	Describe: _____
Action taken: _____		<input type="radio"/> OPEN <input type="radio"/> CLOSED
Report No: _____	Type n/c: _____	Describe: _____
Action taken: _____		<input type="radio"/> OPEN <input type="radio"/> CLOSED

(July 82)

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

Page \_\_\_\_ of \_\_\_\_

APPENDIX C - SUPPLEMENTARY INFORMATION

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

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

- ☐ Uncorrected/repeated noncompliance
- ☐ Unusual occurrence, conditions, etc
- ☐ Basis for change of Category or Priority

- ☐ Unresolved items
- ☒ Inspector's comments

Well managed program - Dr. Davidson  
sues all patients who are to get the Med Scan.

JUN 1981

✓ Docket No. 30-1330

Capitol Hill Hospital  
ATTN: Mr. Harold Granning  
Assistant Administrator  
700 Constitution Avenue, N.E.  
Washington, D.C. 20002

Gentlemen:

Subject: Inspection 80-01

This refers to your letter dated April 29, 1981, in response to our letter dated October 29, 1980.

Thank you for informing us of the corrective and preventive actions documented in your letter. These actions will be examined during a future inspection of your licensed program.

From a May 7, 1981 telephone conversation between yourself and Dr. L. Friedman of this office, we understand that your consultant will make periodic audits of your licensed program to assure compliance with NRC requirements and will furnish you written reports of his findings. We will review this matter during the next inspection of your licensed program.

Your cooperation with us is appreciated.

Sincerely,

John D. Kinneman, Chief  
Materials Radiological Protection  
Section

bcc:

Document Management Branch, TIDC (For Distribution) ✓  
REG:I Reading Room ✓  
District of Columbia ✓

✓  
KINNEMAN;hh  
5/28/81

✓  
KINNEMAN  
5-29-81

8106090415  
1P



# CAPITOL HILL HOSPITAL

"WE CARE"



April 29, 1981

Mr. John D. Kinneman, Chief  
U.S. Nuclear Regulatory Commission  
Materials Radiological Protection  
Section  
631 Park Avenue  
King of Prussia, Pa. 19406

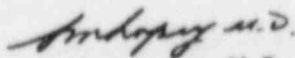
Dear Mr. Kinneman:

In a letter dated October 29, 1980, you reported the results of Inspection 80-01 of the activities conducted under NRC License No. 08-08327-02. The last sentence in that letter states that "no reply to this letter is required." We were recently notified by phone that a reply was expected.

The following statements are presented in response to the two infractions specified in Appendix "A" of the October 29, 1980 letter.

1. The linearity of the dose calibrator is now being performed on a quarterly basis using a Tc-99m source. The latest test was performed on December 17, 1980.
2. All of the sealed calibration sources possessed pursuant to 10CFR-35.14(d) are now being tested for leakage every six months. The latest series of such tests were performed on January 13, 1981.

Sincerely,

  
Luis M. Lopez, M.D.

~~8106090421~~  
1P.

JUN 8 1983

Docket No. 030-19011

6  
License No. 08-19/30-01

Anthony E. Watkins, M.D.  
106 Irving Street, N.W. #208  
Washington, D.C. 20010

Gentlemen:

This refers to your letter dated May 3, 1983, in response to our letter dated April 6, 1983.

Thank you for informing us of the corrective and preventive actions documented in your letter. These actions will be examined during a future inspection of your licensed program.

In your response, you failed to indicate the corrective steps which will be taken to avoid future items of noncompliance regarding dose calibrator linearity checks. However, from a May 26, 1983, telephone conversation between yourself and Mr. S. Jones of my staff, it is our understanding that dose calibrator linearity will be performed quarterly by Mr. Patel of your staff and the values will be submitted to Radiation Services Organization for calculation. The results of these checks will be maintained on file at your office.

We have no further questions at this time. Your cooperation with us is appreciated.

Sincerely,

Original Signed by:

THOMAS T. MARTIN

Thomas T. Martin, Director  
Division of Engineering and  
Technical Programs

cc:  
Public Document Room (PDR)  
Nuclear Safety Information Center (NSIC)  
District of Columbia✓

bcc:  
Region I Docket Room (w/concurrences)

46  
1E07

PRICE	RI:DETP	RI:DETP				8306150155
NAME	Jones/lp	Glenn				lp
DATE	6/7/83	6/7/83				

HONY E. WATKINS, M.D.  
CHARTERED

BERNARD M. WAGMAN, M.D.

PHYSICIANS OFFICE BUILDING  
106 IRVING STREET, N.W. #208  
WASHINGTON, D.C. 20010

TELEPHONE: (202) 726-7474

DIOVASCULAR DISEASES

May 3, 1983

ATTENTION: Thomas Martin, Director  
Division of Engineering and  
Technical Programs

United States Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia, PA 19406

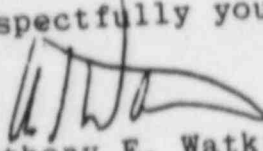
RE: APPENDIX A, LICENSE NO.: 08-19630-01

Dear Sir:

1. Dose calibrator linearity has been performed on March 23 and 24 of 1983 (performed by Radiation Services Organization.) It is in operational condition within  $\pm 5\%$  limits of calculated activity. We will be performing this test quarterly hereon.
2. Survey meter has been calibrated by "Radiation Services Organization" on March 24, 1983. We will have it calibrated at least annually hereon.
3. Wipe test being done routinely since March 25, 1983.

I trust this will serve to adequately bring the laboratory into compliance.

Respectfully yours,

  
Anthony E. Watkins, M.D.

AEW:dab

8306150159  
lp.

APR 6 1983

Docket No. 030-19011

License No. 08-19630-01

Anthony E. Watkins, M.D.  
106 Irving Street, N.W. #208  
Washington, D.C. 20010

Gentlemen:

Subject: Inspection No. 83-01

This refers to the routine safety inspection conducted by Mr. S. Jones of this office on March 11, 1983, of activities authorized by NRC License No. 08-19630-01 and to the discussions of our findings held by Mr. Jones with yourself at the conclusion of the inspection.

The inspection was an examination of 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, measurements made by the inspector, and observations by the inspector.

Based on the results of this inspection, it appears that certain of your activities were not conducted in full compliance with NRC requirements, as set forth in the Notice of Violation, enclosed herewith as Appendix A. These violations have been categorized by severity level in accordance with the NRC Enforcement policy (10 CFR 2, Appendix C) published in the Federal Register Notice (47 FR 9987) dated March 9, 1982. You are required to respond to this letter and in preparing your response, you should follow the instructions in Appendix A.

The responses directed by this letter and the accompanying Notice are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and your reply will be placed in the Public Document Room.

Your cooperation with us in this matter is appreciated.

Sincerely,

Original Signed By  
John E. Glenn, Ph.D.

Thomas T. Martin, Director  
Division of Engineering and  
Technical Programs

8304220217  
2pp.  
Enclosure:  
1 - Notice of Violation

Anthony E. Watkins, M.D.

2

APR 6 1983

cc w/encl:  
Public Document Room (PDR)  
Nuclear Safety Information Center (NSIC)  
District of Columbia ✓

bcc w/encl:  
Region I Docket Room (w/concurrences) ✓  
Senior Operations Officer (w/o encl) ✓

OFFICE	RI:DETP	RI:DETP					
NAME	Jones/1p	Glenn					
DATE	3/23/83	4/4/83					

APR 6 1983

APPENDIX A  
NOTICE OF VIOLATION

Anthony E. Watkins, M.D.  
Washington, D.C. 20010

Docket No. 030-19011  
License No. 08-19630-01

As a result of the inspection conducted on March 11, 1983, and in accordance with the NRC Enforcement Policy (10 CFR 2, Appendix C), the following violations were identified:

Condition 14. of License No. 08-19630-01 requires that licensed material be possessed and used in accordance with the statements, representations, and procedures contained in application dated December 23, 1980.

1. Item 10 of this application requires that dose calibrators be calibrated in accordance with procedures contained in Appendix D, Section 2, of Regulatory Guide 10.8.

Item A.1 of Appendix D, Section 2, requires that the dose calibrator linearity be determined at installation and quarterly thereafter.

Contrary to the above, as of March 11, 1983, dose calibrator linearity had not been determined.

2. Item 10 of this application requires that survey instruments be calibrated in accordance with the procedures in Appendix D, Section 1, of Regulatory Guide 10.8, Revision 1.

Item A.3 of Appendix D, Section 1, requires that survey meters be calibrated at least annually and after servicing.

Contrary to the above, as of March 11, 1983, your survey meter had not been calibrated since May 4, 1981, a period of more than one year.

3. Item 13, page 2 of this application requires daily wipe tests in the isotope preparation area.

Contrary to the above, as of March 11, 1983, the isotope preparation area was not wipe tested on a daily basis.

These are Severity Level IV violations (Supplement VI).

Pursuant to the provisions of 10 CFR 2.201, Anthony E. Watkins, M.D., is hereby required to submit to this office within thirty days of the date of the letter which transmitted this Notice, a written statement or explanation in reply, including: (1) the corrective steps which have been taken and the results achieved; (2) corrective steps which will be taken to avoid further violations; and (3) the date when full compliance will be achieved. Where good cause is shown, consideration will be given to extending this response time.

8304220224  
12pp



REGION I Form 198-C  
(July 82)LICENSE NO: 08-19630-01DOCKET NO. (s) 030 19011

PAGE \_\_\_\_\_ OF \_\_\_\_\_

## ATTACHED

- ☒ Appendix A  
☐ Appendix B  
☒ Appendix C  
☐ Memo

INSPECTION REPORT NO. 83 01

Anthony E. Watkins, M.D.  
106 Irving Street, N.W. #208  
Washington, D.C. 20010

LICENSEE CONTACT: Anthony E. Watkins, M.D.Telephone No: 202-726-7474LICENSE NO: 08-19630-01CATEGORY G2 PRIORITY: 7

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

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

INSPECTION DATE (s): 3-11-83

TYPE OF INSPECTION: ☐ SPECIAL ☐ ANNOUNCED  
☒ ROUTINE ☒ UNANNOUNCED  
☐ DAYSHIFT  
☐ OTHER

## 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: 0388

☐ CHANGE PRIORITY TO: \_\_\_\_\_

## PERSONS CONTACTED

Anthony E. Watkins, M.D.Vino Patel, TechnologistINSPECTOR: S. JonesAPPROVED: Lester F. Friedman3/23/83

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 2860 (Required)	✓	✓	787108
Followup on Noncompliance and Deviations			92702B
Independent Inspection Effort (Required)	✓	✓	92706B
Transportation			86740B

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

Page \_\_\_\_ of \_\_\_\_

787108 - Medical

AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u>	Lic Cond <u>14</u>	<u>C</u>
Structure of organization as described in requirements? -	Anthony E Watkins, M.D (Cardiologist)	
Scope of Program? Patient load? -	Vino Patel (Technologist)	
NOTES & REMARKS: Private office performing approx. 25 patient studies per month using 20. TI and 99m TC.		
2. <u>Licensee Internal Audits</u>	Lic Cond <u>14</u>	<u>C</u>
Scope and frequency of audits as required?		
Conducted by appropriate persons?		
Records maintained?		
Reviewed by management?		
Deficiencies identified and corrected?		
NOTES & REMARKS:		
3. <u>Training and Qualification of Personnel</u>	Lic Cond <u>14</u>	<u>C</u>
Training & retraining conducted as required?		
Written & oral exams conducted?		
Examination results reviewed by management?		
Instructions to workers per 19.12?	19.12	
Authorized users? On license? Available in emergency?	Lic Cond <u>12</u>	
NOTES & REMARKS:		
4. <u>Radiation Protection Procedures</u>	Lic Cond <u>14</u>	<u>C</u>
Procedures available and implemented?		
Identify radiopharmaceutical and dose(s)?		
Cover handling of patients receiving therapeutic doses? Cover handling of cadavers?		
Close out Surveys on Patients receiving temporary implants?	35.14 (b)(5)(v)	
Emergency procedures for spills, etc?		
Personnel understand procedures?		
NOTES & REMARKS:		

## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
5. <u>Use of Materials</u>		<u>VIOLATION</u> <u>5 &amp; IV</u>
Procurement and use as required? Authorized form & route of administration?	35.14(b)	
Special tests (moly breakthrough, leak tests, etc) required?	35.14(b)(4)	
Inventory of brachytherapy sources? N/A	35.14(b)(5)	Radionuclides are procured from Pharmacia.
(*) Dose calibration checks performed? (*)		
Posting & labeling as required?	20.203	
NOTES & REMARKS: * Linearity checks have not been performed on dose calibrator.		

6. <u>Storage of Materials</u>		<u>C</u>
Material secured in both restricted and unrestricted areas? Adequately?	20.207	
NOTES & REMARKS:		

7. <u>Facilities</u>	Lic Cond <u>14</u>	<u>C</u>
As described in lic cond or application?		
Any changes made? Adequately?		
NOTES & REMARKS:		

8. <u>Instruments</u>	Lic Cond _____	<u>VIOLATION</u> <u>5 &amp; IX</u>
Survey meters & instruments adequate for program? ✓		
(*) Instruments & meters operable? ✓ Calibrated? ✓		
Calibration adequate? (*)		

NOTES & REMARKS: The licensee survey meter has not been calibrated since May 4, 1981. The instrument is required to be calibrated at least annually.

## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEMS	CRITERIA	FINDING
9. <u>Receipt and Transfer of Material</u>		<u>C</u>
Written procedures for pickup, receiving, opening packages?	20.205	
Survey of packages when received?	20.205(c)(1)	
Records of survey of packages?	20.401(b)	
Transfer of materials proper? Transfer records maintained?	30.41, 30.51	
Authorized containers used? Shipping papers & package labels proper for packages on hand?	71.5	
NOTES & REMARKS:		

10. <u>Personnel Protection - External</u>		<u>Violation</u> <u>SA IV</u>
Personnel monitoring controls adequate? Exposures minimized?	20.101, 20.202	
Exposure records (NRC-4 or 5) maintained? Available for employee review?	20.102(b), 20.401(a)	
Surveys conducted? Adequate?	20.201	
ⓧ Records of monitoring, surveys? ⓧ	20.401	
Levels in unrestricted areas within limits? (Particularly around nuclear med. hot lab rooms of brachytherapy patients)	20.1, 20.105	
NOTES & REMARKS: <i>The licensee has not performed area wipe tests.</i>		

11. <u>Personnel Protection - Internal</u>		<u>C/A</u>
Airborne concentrations in restricted areas? (Xe-133, patients treated with I-131)	20.103	
Exposures to minors?	20.104	
Posting of airborne radioactivity areas?	20.203(d)	
Survey, monitoring bioassay adequate for airborne radioactivity, surface contamination? Records maintained?	20.201 20.401	
Procedures for use of Xe-133 followed?		
NOTES & REMARKS:		

## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
12. <u>Effluent Controls, Waste Disposal</u>		<u>C</u>
Release of effluents controlled? (particularly Xe-133, radiiodine where used)	20.106, 20.33	
Waste disposals controlled?	20.301, 20.303, 20.304, 20.305	
Procedures, records maintained?	20.401, Lic Cond _____	
Surveys made? Adequate?	20.401	
NOTES & REMARKS:		

13. <u>Notifications and Reports</u>		<u>C</u>
To individuals?	19.13	
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	
Misadministrations?	35.41-35.45	
NOTES & REMARKS:		

14. <u>Posting of Notices</u>		<u>C</u>
Part 20, license & documents, procedures, notice of violations posted?	19.11(a)	
NRC-3 posted?	19.11(c)	
NOTES & REMARKS:		

15. Other License Conditions



## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEMS	CRITERIA	FINDING
16. <u>Confirmatory Measurements</u>		

Independent area survey by inspector demonstrated  
no ~~evidence~~ of contamination.

NRC Instrument: Eberline E120 Calibration Due Date: MAY 13, 198317. Independent Inspection Effort18. Incidents and Events

Any incidents of misadministrations,  
contamination, etc., not otherwise  
covered by reports?

35.41 - 35.45  
20.402, 20.403, 20.405

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

APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

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

Reference \_\_\_\_\_ Basis for noncompliance \_\_\_\_\_

Report item \_\_\_\_\_  
10 CFR \_\_\_\_\_  
Lic Cond 14  
Type n/c 1✓  
Survey meter has not been calibrated for over one year. Application 12/23/80, Item 9 requires instruments to be calibrated at least annually

Report item \_\_\_\_\_  
10 CFR \_\_\_\_\_  
Lic Cond 14  
Type n/c 1✓  
Linearity checks on dose calibrator have not been performed. Item 10 requires that procedures in Reg Guide 10.8 Appendix D will be followed.

Report item \_\_\_\_\_  
10 CFR \_\_\_\_\_  
Lic Cond 14  
Type n/c 1✓  
Area wipe tests have never been performed. Item 13 requires wipe test be performed daily.

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 \_\_\_\_\_

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

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

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

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

Identification and summary of action taken	Status
--	--------

Report No: _____	Type n/c: _____	Describe: _____	OPEN
Action taken:			CLOSED

INITIAL

Report No: _____	Type n/c: _____	Describe: _____	OPEN
Action taken:			CLOSED

Report No: _____	Type n/c: _____	Describe: _____	OPEN
Action taken:			CLOSED

Report No: _____	Type n/c: _____	Describe: _____	OPEN
Action taken:			CLOSED

Report No: _____	Type n/c: _____	Describe: _____	OPEN
Action taken:			CLOSED

Report No: _____	Type n/c: _____	Describe: _____	OPEN
Action taken:			CLOSED

APPENDIX C - SUPPLEMENTARY INFORMATION

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

- ☐ ( ) Uncorrected/repeated noncompliance
- ☐ ( ) Unusual occurrence, conditions, etc
- ☐ ( ) Basis for change of Category or Priority

- ☐ ( ) Unresolved items
- ☒ (\*) Inspector's comments

Anthony E. Watkins is considering moving his nuclear  
cardiology practice to Capitol Hill Hospital  
Washington, D.C. A final decision should be  
made in about six months.

APPENDIX C - SUPPLEMENTARY INFORMATION

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

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

- ( ) Uncorrected/repeated noncompliance
- ( ) Unusual occurrence, conditions, etc
- ( ) Basis for change of Category or Priority

( ) Unresolved items

(\*) Inspector's comments

Anthony E. Witten is considering moving his nuclear cardiology practice to Capital Hill Hospital Washington, D.C. A final decision should be made in about six months.

# SAFETY INSPECTION

<b>1 LICENSEE</b> Northern Virginia Endocrinologists Suite 501 8320 Old Court House Road Vienna, VA 22180	<b>2 REGIONAL OFFICE</b> U. S. Nuclear Regulatory Commission 101 Marietta Street, NW, Suite 2900 Atlanta, GA 30303	
<b>3 DOCKET NUMBER(S)</b>	<b>4 LICENSE NUMBER(S)</b> 45-21121-01	<b>5 DATE OF INSPECTION</b> 12-7-89

**Licensee**

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission's (NRC) 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:

☒ 1. Within the scope of this inspection, no violations were observed.

☐ 2. The inspector also verified the steps you have taken to correct the violations identified during the last inspection. We have no further questions on those actions at this time.

☐ 3. During this inspection certain of your activities, as checked below, were in violation of NRC requirements.

**THIS IS A NOTICE OF VIOLATION** which is required to be posted in accordance with 10 CFR 19.11.

☐ A. \_\_\_\_\_ was not properly posted to indicate the presence of a \_\_\_\_\_ 10 CFR 20.203(b), (c), (d), (e) or 34.42

☐ B. Containers located in \_\_\_\_\_ were not properly labeled to indicate the presence of radioactive material. 10 CFR 20.203(f)(1), or (f)(2).

☐ C. \_\_\_\_\_ of sealed sources were not performed at the proper frequencies. 10 CFR \_\_\_\_\_ License Condition Number \_\_\_\_\_

☐ D. Records of \_\_\_\_\_ were not properly maintained. 10 CFR \_\_\_\_\_ or License Condition Number \_\_\_\_\_

☐ E. Documents were not properly posted or otherwise made available. 10 CFR 19.11.

☐ F. Reports or notifications of \_\_\_\_\_ were not made in accordance with 10 CFR \_\_\_\_\_ or License Condition Number \_\_\_\_\_

☐ H. \_\_\_\_\_

☐ I. \_\_\_\_\_

☐ J. \_\_\_\_\_

☐ K. \_\_\_\_\_

I hereby state that within 30 days the actions described by me to the inspector will be taken to correct the violations identified in the items checked above. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201. No further response will be submitted unless required by the NRC.

SIGNATURE - LICENSEE

DATE

SIGNATURE - NRC INSPECTOR

DATE

8401050589  
16 pp.

*L. B. Fulk*

47  
12-7-89



INSPECTION REPORT NO. E301

Page 1 of     

Attached

☐ Appendix A

☐ Appendix B

☐ Appendix C

☐ Memo

NORTHERN VIRGINIA ENDOCRINOLOGISTS  
SUITE 501, E320 FLD COURT HOUSE RD.  
VIENNA, VA

Licensee contact: PETER RESS, MD Telephone no.                     

License no. 45-21121-C1 Last amendment and date:                     

Category: G, and Priority: 3, as of last amendment.

Inspection date(s): 12-7-83 Type of inspection: INITIAL UNANNOUNCED

#### SUMMARY OF FINDINGS AND ACTION

☒ No noncompliance, clear 591 issued

☐ Noncompliance, Appendix A

☐ Action on previous noncompliance, Appendix B

☐ Noncompliance, 591 issued

☐ Regional action Hq action

☐ Supplemental info, Appendix C

#### RECOMMENDATIONS

See basis in Appendix C or attached memo.

☐ Change Category to:                     

☐ Change Priority to:                     

☐ Next inspection date: 12/86

#### PERSONS CONTACTED

DR. RESS

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Inspector: L. G. [Signature]

12-7-83

Approved: [Signature]

12/14/83

~~Drug~~ Drug --  
technologists' trend in 19.12?  
posting? OK

INSR

Drug

12/14

AL

SE

VE

we cite if not ok

yes, see  
field notes

ISTS

House Rd.

Page 1 of     

Attached

☐ Appendix A

☐ Appendix B

☐ Appendix C

☐ Memo

License

Telephone no.                     

License no. 45-21121-C1

Last amendment and date:                     

Category: G

and Priority: 3, as of last amendment.

Inspection date(s): 12-7-83

Type of inspection: INITIAL UNANNOUNCED

#### SUMMARY OF FINDINGS AND ACTION

☒ No noncompliance, clear 591 issued

☐ Noncompliance, Appendix A

☐ Action on previous noncompliance, Appendix B

☐ Noncompliance, 591 issued

☐ Regional action      Hq action

☐ Supplemental info, Appendix C

#### RECOMMENDATIONS

See basis in Appendix C or attached memo.

☐ Change Category to:                     

☐ Change Priority to:                     

☐ Next inspection date: 12/86

#### PERSONS CONTACTED

DR. Ross

Inspector: L. G. Franklin

12-7-83

Approved: 1/1/84

12/14/83

Plan approved: \_\_\_\_\_

Date: \_\_\_\_\_

Licensee: NORTHERN VIRGINIA ENDOCRINOLOGISTSLicense no: 45-21121-01

Inspection Items	Scheduled for inspection	Post-inspection status	Module no.	756 Time Info
Management meeting - Entrance and Exit Interviews [REQUIRED]			30703B	0.5
Initial Management Meeting				
Program requirements, MC 28 [REQUIRED]			78710B	4.0
Licensee Event Followup			92700B	
Followup on Inspector-identified problems			92701B	
Followup on Noncompliance and Deviations			92702B	
IE Bulletin/Immediate Action Letter Followup			92703B	
Followup on Headquarters Requests			92704B	
Followup on Regional Requests			92705B	
Independent Inspection Effort [REQUIRED]			92706B	< 0.5
Inspector Dispatched to Site			93700B	
Followup on Significant Event Occurring During Inspection			93701B	

## AREAS INSPECTED AND FINDINGS

Licensee: NORTHERN VIRGINIA ENDONEUROLOGISTS License no: 45-2121-01 Amendment no:     

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u>		
Structure of organization as described in requirements?	Lic Cond <u>    </u>	
NOTES & REMARKS:	<u>NA THIS LIC</u> <u>DR. ROSS</u>	
2. <u>Licensee internal audits</u>	Lic Cond <u>    </u>	<u>OK</u>
Scope and frequency of audits as required?	<u>YES</u>	
Conducted by appropriate persons? Records maintained? Reviewed by management?	<u>OK</u>	
Deficiencies identified & corrected?	<u>NONE</u>	
NOTES & REMARKS:	<u>AUDITS ARE CONDUCTED BY HPS CONSULTING FIRM RECORDS MAINTAINED &amp; DEFICIENCIES ARE CORRECTED.</u>	
3. <u>Training and qualification of personnel</u>	Lic Cond <u>    </u>	<u>OK</u>
Training & retraining conducted as required?	<u>YES</u>	
Written & oral exams conducted? Examination results reviewed by management?		
Instructions to workers per 19.12?	<u>OK</u>	19.12
NOTES & REMARKS:	<u>TRAINING PER THIS LIC IS MINIMAL</u>	
4. <u>Radiation protection procedures</u>	Lic Cond <u>    </u>	<u>OK</u>
Procedures available and implemented? Identify radiopharmaceutical and dose(s)? Cover handling of patients receiving therapeutic doses? Cover handling of cadavers?	<u>OK</u>	
Emergency procedures for spills, etc? Personnel understand procedures?	<u>OK</u>	
NOTES & REMARKS:	<u>PROCEDURES ARE ATTACHED TO LIC APPLICATION NO NEED UP TO NOW BUT THEY ARE AVAILABLE</u>	

## AREAS INSPECTED AND FINDINGS

787108 - Medical

Licensee: Northern Virginia Endocrinologists License no: 45-21121-01 Amendment no:     

INSPECTION ITEM	CRITERIA	FINDING
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## 5. Use of materials

Lfc Cond     Procurement and use as required? NO LIMITS EXCEEDING LIC. NOTED VIA I 131Special tests (moly breakthrough, leak tests, etc) required? ISOTOPES FROM PHARMATOPES INC. WASH. D.C.Dose calibration checks performed? YES - SEE TESTS

Posting &amp; labeling as required?

20.203

## NOTES &amp; REMARKS:

1- RECEIPT RECORDS ARE COMPLETE. ~~RECEIPT RECORDS ARE COMPLETE & IN GOOD ORDER.~~

2- LEAK TEST RECORDS ARE MAINTAINED AND ARE IN GOOD ORDER.

3- USING ~ 30 MICROCURIES I 131 / WEEK

Possession Limit NOT EXCEEDED.

## 6. Storage of materials

20.207

Material secured in both restricted and unrestricted areas? Adequately?

## NOTES &amp; REMARKS:

MATERIAL IS SECURED BUT IS USED, USUALLY WITHIN 1 HOUR OF RECEIPT.

## 7. Facilities

Lfc Cond     As described in lfc cond or application? YES

Any changes made? Adequacy?

## NOTES &amp; REMARKS:

## 8. Instruments

Lfc Cond     

Survey meters &amp; instruments adequate for program?

Instruments &amp; meters operable? Calibrated? Calibration adequate?

## NOTES &amp; REMARKS:

DATE CALIBRATION DAILY CONSISTENCY CHECKS &amp; QUARTERLY LINEARITY RECORDS ARE COMPLETE &amp; IN GOOD ORDER.

Eberline 730 IS USED @ THIS FACILITY &amp; IS IN OPERATING CONDITION WITH CALIB. RECORDS IN GOOD ORDER.

Eberline 730 IS USED @ THIS FACILITY &amp; IS IN OPERATING CONDITION WITH CALIB. RECORDS IN GOOD ORDER.

INST. LOG - WORK BOOK - LTR BY JAMES P. JONES, SENIOR TECH. PERSONAL A-18

## AREAS INSPECTED AND FINDINGS

Licensee: NORTH CAROLINA ENDORSEMENTS License no: 45-21/21-01 Amendment no:     

INSPECTION ITEMS	CRITERIA	FINDING
<u>9. Receipt and transfer of material</u>		
Written procedures for pickup, receiving, opening packages?	20.205	<u>OK</u>
Survey of packages when received? <u>YES</u>	20.205(c)(1)	
Records of survey of packages? <u>YES</u>	20.401(b)	
Transfer of materials properly? <u>YES</u> records maintained?	30.41, 30.51	
Authorized containers used? Shipping papers & package labels proper for packages on hand? <u>YES</u>	71.5	
NOTES & REMARKS:		

SURVEY RECORDS ARE COMPLETE FOR PKG. RECEIPT.

10. Personnel protection - external

Personnel monitoring controls adequate?	20.101, 20.202
Exposures minimized?	
Exposure records (NRC-4 or 5) maintained?	20.102(b), 20.401(a)
Available for employee review?	
Surveys conducted? Adequate? <u>YES</u>	20.201
Records of monitoring, surveys? <u>YES-OK</u>	20.401
Levels in unrestricted areas within limits?	20.1, 20.105

## NOTES &amp; REMARKS:

EXAMINED FILM BADGE RECORDS FOR '82 & '83. ALL RECORDS INDICATE EXPOSURE IS < 10 AIR/MO.

11. Personnel protection - internal

Airborne concentrations in restricted areas?	20.103
Exposures to minors?	20.104
Posting of airborne radioactivity areas?	20.203(d)
Survey, monitoring adequate for airborne radioactivity, surface contamination? Records maintained?	20.201 20.401

## NOTES &amp; REMARKS:

SURVEY RECORDS (INCLUDING WIPE SURVEYS) ARE IN GOOD ORDER & HAVE BEEN MAINTAINED AS per LICENSE APPLICATION.



## AREAS INSPECTED AND FINDINGS

Licensee: NORTHERN VIRGINIA ENDOCRINOLOGISTS License no: 45-21121-01 Amendment no:     

INSPECTION ITEM	CRITERIA	FINDING
12. <u>Effluent controls, waste disposal</u>		<u>OK</u>
Release of effluents controlled?	20.106, 20.303	
Waste disposals controlled?	20.301, 20.303, 20.304, 20.305	
Procedures, records maintained?	20.401, Lic Cond <u>    </u>	
Surveys made? Adequate?	20.401	
NOTES & REMARKS:		
NA THIS LIC. - WASTE IS HANDLED FOR DEGRADATION & DISPOSED OF PROPERLY IN "HARM" WASTE		
13. <u>Notifications and reports</u>		<u>OK</u>
To individuals.	19.13	
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:		
NONE		
ALL NA @ TIME OF INSPECTION		
14. <u>Posting of notices</u>		<u>OK</u>
Part 20, license & documents, procedures, notice of violations posted?	19.11(a)	
NRC-3 posted?	19.11(c)	
NOTES & REMARKS:		
15. <u>Other license conditions</u>	Lic	<u>    </u>

INSPECTION REPORT NUMBER 83-01

Page 7 of     

767102 - M-11-002

AREAS INSPECTED AND FINDINGS

Licensee NORTHERN VIRGINIA ENDOCRINOLOGISTS license no. 45-21121-01 4th year no.     

INSPECTION ITEMS	CRITERIA	FINDING
16. <u>Confirmatory measurements</u>		<u>OK</u>

17. Independent inspection effort

OK

STORAGE AREA AND TREATMENT AREA SHOW  
NORMAL BKG LEVELS. MATERIALS ARE NOT NORMALLY  
STORED @ THIS FACILITY BUT ARE USED WITHIN 24 HOUR  
OF RECEIPT.

18. Incidents and events

Any incidents of misadministrations,  
contamination, etc. not otherwise  
covered by reports?

NONE

OK



# CONVERSATION RECORD

TIME

DATE

6/29/84

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

Kathy (Yasco) Hanay

ORGANIZATION (Office, dept., bureau, etc.)

Health Physics Sys.

TELEPHONE NO.

301-299-2700

SUBJECT

Report of Loss of I-131 source by Northern Virginia Endocrinologists

SUMMARY

Mrs Hanay had reported this incident to John Potter (3:20, 6/27/84) see attached telephone log rpt.

The purpose of ~~the~~ my call was to follow up on John's absence to see if additional actions was necessary.

Mrs Hanay recounted the details of the incident for me. Based on her investigation which was conducted for Northern Va Endocrinologists she believes the source to have been taken by mistake by the refuse collection crew who are believed to have ~~it~~ discarded it to the trash. These individuals were new at doing the job and spoke little to no english (Cambodians). The final disposition of the I-131 is believed to be buried

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

ACTION TAKEN

SIGNATURE

TITLE

DATE

47

CONVERSATION RECORD

OPTIONAL FORM 271 12-73  
DEPARTMENT OF DEFENSE

# CONVERSATION RECORD

TIME

DATE

6/27/84

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO

301-299-2700

Kathy (Yasco) Haney

Health Physics Sys.

SUBJECT

Report of Loss of I-131 source by Northern Virginia Endocrinologists

SUMMARY

Mrs Haney had reported this incident to John Potter (3:20, 6/27/84) see attached telephone log rpt.

The purpose of ~~the~~ my call was to follow up on John's absence to see if additional actions was necessary.

Mrs Haney recounted the details of the incident for me. Based on her investigation which was conducted for Northern Va Endocrinologists she believes the source to have been taken by mistake by the refuse collection crew who are believed to have discarded it to the trash. These individuals were new at doing the job and spoke little to no english (Cambodians). The final disposition buried

ACT

NAM

ACTI

SIGN

Discuss with John.  
May require citation of  
Licenses for procedural  
violation -

DATE

DATE

OPTIONAL FORM 271 (12-76)  
DEPARTMENT OF DEFENSE

at the Lorton Va Sanitary Land  
Fill. Mrs Haney stated that she  
interviewed personnel involved,  
conducted surveys with a ~~scintillation~~ portable  
scintillation detector but ~~found no~~  
did not locate the source or detect  
any contamination.

she has prepared a written report  
which will be submitted to NRC  
by the Northern Va ~~Environmental~~ Endocrinologists.

[she also stated in response to my question  
that the material was in liquid form  
as a bound iodide.]

read should  
Radiation levels at the container surface  
was 10 mcr/hr. If completely unshielded at the source  
would have read about 13 r/hr at contact  
(calculated value).

Earl Wright



WERE CONTAINED IN SEVEN TRANSPORTATION CANISTERS WHICH REMAINED INTACT AND PHYSICALLY SECURED TO THE BED OF THE TRUCK. THE NORTH ANNA FACILITY DISPATCHED A RADIATION MONITORING TEAM ALONG WITH A WESTINGHOUSE REPRESENTATIVE, AT THE DIRECTION OF THE ASSISTANT PLANT MANAGER WHO WAS EXAMINING THE TRUCK AT THE ACCIDENT SITE. IN ADDITION, STATE POLICE, LOUISA COUNTY PERSONNEL AND VEPCO SECURITY PERSONNEL WERE AT THE ACCIDENT SITE. THERE APPEARS TO BE NO DAMAGE TO THE FUEL OR THE SHIPPING CONTAINERS. THERE WAS NO DETECTABLE CONTAMINATION MEASURED ON THE SHIPPING CASKS. THE RESIDENT INSPECTORS ARRIVED AT THE ACCIDENT SITE AT APPROXIMATELY 8:30 A.M. AND ARE MONITORING THE RECOVERY ACTIONS, WHICH CURRENTLY INCLUDE VEPCO'S INTENTION TO TRANSPORT THE FUEL TO THE NORTH ANNA FACILITY FOR FURTHER EXAMINATION. PN ISSUED.

*Northern Virginia  
Endocrinology*

PHONE CALL 3:20 P.M.  
6/27 FROM CONSULTANT  
LTH PHYSICS SERVICES,  
POTOMAC, MD

LICENSEE RECEIVED A LEAD PIG CONTAINING 0.0 MCI OF I-131 IN A SHIPPING CARTON ON 6/26/84 FROM SYNCOR, INC. THE PIG MEASURED 10 MR/HR AT CONTACT AND 0.5 MR/HR AT 3 FEET. LEAD PIG WAS PLACED NEAR A TRASH CONTAINER TEMPORARILY AND WHEN TECHNICIAN RETURNED, TRASH WAS EMPTIED AND LEAD PIG WAS GONE. TRASH PICKUP CONTACTOR STATED NO ONE RECALLED REMOVING LEAD PIG. TRASH IS NOW BURIED UNDER ABOUT 10 FEET OF RUBBLE AT LORTON, VA LANDFILL. SURVEY OF FAIRFAX COUNTY COLLECTION AREA BY A CONSULTANT INDICATED NO EVIDENCE OF LEAD PIG OR ELEVATED RADIATION LEVELS. LICENSEE HAS ABANDONED SEARCH AT THIS POINT AND WILL SUBMIT 20.41 REPORT WITHIN 30 DAYS. NUCLEAR LAB TECHNICIAN WAS INSTRUCTED TO AVOID PLACING ISOTOPE CONTAINERS NEAR TRASH CONTAINERS. THE COMMONWEALTH OF VIRGINIA HAS BEEN INFORMED.

*July 1 6/28/84*

*Please call Greg Weston (ext. 1182)*

2. Failure to use established security systems (including compensatory measures) designed or used to prevent any unauthorized individual from entering a vital area or material access area from outside the protected area (i.e., entry through two barriers) so that access could have been gained without detection;

3. Failure to implement approved compensatory measures when the central (or secondary) alarm station is inoperable;

4. Failure to establish or maintain safeguards systems designed or used to prevent or detect the unauthorized removal of a formula quantity of SSNM from areas of authorized use or storage; or

5. Failure to use established transportation security systems designed or used to prevent the theft, loss, or diversion of a formula quantity of SSNM or acts of radiological sabotage.

C. Severity III—Significant violations involving:

1. Failure to control access to a vital area or material access area from inside the protected area or failure to control access to a protected area from outside the protected area (i.e., such that only a single security element remained);

2. Failure to control access to a transport vehicle or the SSNM being transported that does not constitute a Severity I or II violation;

3. Failure to establish or maintain safeguards systems designed or used to detect the unauthorized removal of SSNM of moderate strategic significance from areas of authorized use or storage; or

4. Failure to properly secure or protect classified or other sensitive safeguards information.

D. Severity IV—Violations involving:

1. Failure to establish or maintain safeguards systems designed or used to detect the unauthorized removal of SSNM of low strategic significance from areas of authorized use or storage;

2. Failure to implement 10 CFR Parts 25 and 91 and information addressed under Section 142 of the Act and the NRC approved security plan relevant to those parts; or

3. Other violations such as failure to follow an approved security plan that have more than minor safety or environmental significance.

E. Severity V—Violations that have minor safety or environmental significance.

#### Supplement IV—Severity Categories

##### Health Physics 10 CFR Part 20<sup>14</sup>

A. Severity I—Very significant violations involving:

1. Single exposure of a worker in excess of 25 rems of radiation to the whole body, 150 rems to the skin of the whole body, or 375 rems to the feet, ankles, hands, or forearms;

2. Annual whole body exposure of a member of the public in excess of 2.5 rems of radiation;

3. Release of radioactive material to an unrestricted area in excess of ten times the limits of 10 CFR 20.106;

4. Disposal of licensed material in quantities or concentrations in excess of ten times the limits of 10 CFR 20.303; or

<sup>14</sup> See 10 CFR 73.2(y).

<sup>15</sup> Personnel overexposures and associated violations incurred during a life saving effort will be treated on a case-by-case basis.

5. Exposure of a worker in restricted areas of ten times the limits of 10 CFR 20.103.

B. Severity II—Very significant violations involving:

1. Single exposure of a worker in excess of 5 rems of radiation to the whole body, 30 rems to the skin of the whole body, or 75 rems to the feet, ankles, hands or forearms;

2. Annual whole body exposure of a member of the public in excess of 0.5 rems of radiation;

3. Release of radioactive material to an unrestricted area in excess of five times the limits of 10 CFR 20.106;

4. Failure to make an immediate notification as required by 10 CFR 20.403(a)(1) and 10 CFR 20.403(a)(2);

5. Disposal of licensed material in quantities or concentrations in excess of five times the limits of 10 CFR 20.303; or

6. Exposure of a worker in restricted areas in excess of five times the limits of 10 CFR 20.103.

C. Severity III—Significant violations involving:

1. Single exposure of a worker in excess of 3 rems of radiation to the whole body, 7.5 rems to the skin of the whole body, or 16.75 rems to the feet, ankles, hands or forearms;

2. A radiation level in an unrestricted area that exceeds 100 millirem/hour for a one hour period;

3. Failure to make a 24-hour notification as required by 10 CFR 20.403(b) or an immediate notification required by 10 CFR 20.402(a);

4. Substantial potential for an exposure or release in excess of 10 CFR 20 whether or not such exposure or release occurs (e.g., entry into high radiation areas such as under reactor vessels or in the vicinity of expired radiographic sources without having performed an adequate survey, operation of a radiation facility with a nonfunctioning interlock system);

5. Release of radioactive material to an unrestricted area in excess of the limits of 10 CFR 20.106;

6. Improper disposal of licensed material not covered in Severity Levels I or II;

7. Exposure of a worker in restricted areas in excess of the limits of 10 CFR 20.103;

8. Release of unrestricted use of contaminated or radioactive material or equipment which poses a realistic potential for significant exposure to members of the public, or which reflects a programmatic (rather than isolated) weakness in the radiation control program;

9. Cumulative worker exposure above regulatory limits when such cumulative exposure reflects a programmatic rather than an isolated weakness in radiation protection;

10. Conduct of licensee activities by a technically unqualified person; or

11. Significant failure to control licensed material.

D. Severity IV—Violations involving:

1. Exposures in excess of the limits of 10 CFR 20.101 not constituting Severity Level I, II, or III violations;

2. A radiation level in an unrestricted area such that an individual could receive greater than 2 millirem in a one hour period or 100 millirem in any seven consecutive days;

3. Failure to make a 30-day notification required by 10 CFR 20.405;

4. Failure to make a followup written report as required by 10 CFR 20.402(b), 20.408, and 20.409; or

5. Any other matter that has more than minor safety or environmental significance.

E. Severity V—Violations that have minor safety or environmental significance.

#### Supplement V—Severity Categories

##### Transportation<sup>16</sup>

A. Severity I—Very significant violations of NRC transportation requirements involving:

1. Annual whole body radiation exposure of a member of the public in excess of 0.5 rems of radiation; or

2. Breach of package integrity resulting in surface contamination or external radiation levels in excess of ten times the NRC limits.

B. Severity II—Very significant violations of NRC transportation requirements involving:

1. Breach of package integrity resulting in surface contamination or external radiation levels in excess of NRC requirements;

2. Surface contamination or external radiation levels in excess of three times NRC limits that did not result from a breach of package integrity; or

3. Failure to make required initial notifications associated with Severity Level I or II violations.

C. Severity III—Significant violations of NRC transportation requirements involving:

1. Breach of package integrity;

2. Surface contamination or external radiation levels in excess of, but less than a factor of three above NRC requirements that did not result from a breach of package integrity;

3. Any noncompliance with labeling, placarding, shipping paper, packaging, loading, or other requirements that could reasonably result in the following:

a. Improper identification of the type, quantity, or form of material; or

b. Failure of the carrier or recipient to exercise adequate controls; and

c. Substantial potential for personnel exposure or contamination, or improper transfer of material; or

4. Failure to make required initial notification associated with Severity Level III violations.

D. Severity IV—Violations of NRC transportation requirements involving:

1. Package selection or preparation requirements which do not result in a breach of package integrity or surface contamination or external radiation levels in excess of NRC requirements; or

2. Other violations that have more than minor safety or environmental significance.

E. Severity V—Violations that have minor safety or environmental significance.

<sup>16</sup> Some transportation requirements are applied to more than one licensee involved in the same activity, such as a shipper (10 CFR 73.20) and a carrier (10 CFR 73.20a). When a violation of such a requirement occurs, enforcement action will be directed against the responsible licensee which, under the circumstances of the case may be one or more of the licensees involved.

Lee - please see if  
They had any long-  
lived unsealed RHM  
If so please do a  
independent survey next  
trip

JP

3/27

I 131 only

3-28-84  
27

Northern Virginia Endocrinologists

SUITE 205  
3101 ARLINGTON BOULEVARD  
ARLINGTON, VIRGINIA 22203  
(703) 849-8440

DIABETES, ENDOCRINOLOGY AND  
NUCLEAR MEDICINE OF THE THYROID

March 22, 1984

RE: License No. 45-21121-01,  
'Release of Area for Unrestricted  
Use'

, dated February 21, 1984, the Nuclear  
Facility to 8301 Arlington Boulevard, Boulevard  
Virginia.

Court House Road, Suite 501, Vienna,

issued by the NRC, dated December 1975,  
Facilities and Equipment Prior to Release for  
final survey of the facility for your

approval (refer to enclosure).

Following a thorough cleaning of the hot lab and scan room areas, wipe testing  
and survey meter monitorings were performed, as indicated on the enclosed diagram.  
Wipe tests were conducted on 100 cm<sup>2</sup> areas using absorbent paper moistened by alcohol.  
Counting of the wipe tests were conducted using a well counter having a 20% efficiency.  
Survey meter readings were conducted using an Eberline E-120 survey meter (0.01-50  
mR/hr) with an HP 190 detector. All radiation labels, symbols, etc., have been  
removed. Survey meter measurements were less than or equal to background, i.e.,  
0.04 mR/hr, for all areas monitored.

Please contact the undersigned if you have any questions regarding this matter.

Sincerely,

Northern Virginia Endocrinologists

Peter S. Ross, M.D.

Peter S. Ross, M.D.

PSR/jer

47