MEDICAL

REGION I Form 198-C
(July 82)

08-01738-02

LICENSE NO: ~~08-01738-03~~

DOCKET NO. (s) 030-01317
~~030-06895~~

PAGE ____ OF ____

ATTACHED
- [x] Appendix A
- [ ] Appendix B
- [ ] Appendix C
- [ ] Memo

INSPECTION REPORT NO. 86-01

DEPT. OF THE ARMY
WALTER REED ARMY MEDICAL CENTER
WASHINGTON, D.C. 20012

LICENSEE CONTACT: MAJOR CONNOCK Telephone No: 202-576-1100

LICENSE NO: 08-0173-02 CATEGORY G1 PRIORITY: 2

CATEGORY ____ PRIORITY: ____

CATEGORY ____ PRIORITY: ____

INSPECTION DATE (s): 6/23, 6/24 & 6/25/86

TYPE OF INSPECTION:
- [ ] SPECIAL
- [x] ROUTINE
- [x] DAYSHIFT
- [ ] OTHER
- [ ] ANNOUNCED
- [x] UNANNOUNCED

SUMMARY OF FINDINGS AND ACTION

- [ ] NO NONCOMPLIANCE, CLEAR 591 ISSUED
- [ ] NO NONCOMPLIANCE, LETTER
- [x] 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: ____
- [x] NEXT INSPECTION DATE: 06/88
- [ ] CHANGE PRIORITY TO: ____

PERSONS CONTACTED

Dr. B. BASS, RSO
MAJ. CONNOCK, HPO
JIM STAFFORD, AHPO
+ OTHER MEMBERS OF
HEALTH PHYSICS STAFF
MAJ. GENERAL LOUIS MOLOGNE
Col. (Dr.) HASTINGS - DEPARTMENT COMMANDER CLINICAL SERVICES
Col. REXRODE - ACTING CHIEF OF STAFF

LTS. BROADWAY + RICKETTS, R.N.
Dr. MOUGEY, INVESTIGATOR
Dr. ZELLINGER, "
Dr. NELSON, "
Dr. FOGLER, "
Dr. JACKSON, "
+ OTHER RESEARCH PERSONNEL

INSPECTOR: ____

APPROVED: ____

REGION I Form 198-[illegible]1
(July 82)

87710B - Medical

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)			87710B
Followup on Noncompliance and Deviations			92702B
Independent Inspection Effort (Required)			92706B
Transportation			86740B

REGION 1 FORM 198-C.2
(July 82)

INSPECTION REPORT NUMBER 86-01

Page ____ of ____

78710B - Medical

AREAS INSPECTED AND FINDINGS

Licensee: WALTER REED ARMY MED. CEN License No: 08-01738-02 Amendment No: 54

INSPECTION ITEMS	CRITERIA	FINDING
1. Organization	Lic Cond ____	C
Structure of organization as described in requirements?	MAJ. CONNOCK IS LOCATED APPROX. 5 MILES FROM MEDICAL CENTER IN FOREST GLEN.	
Scope of Program? Patient load?	- NUC. MED. + MAJORITY OF RESEARCH AT D.C.	
NOTES & REMARKS:	CAMPUS (WRAIR - WAL. REED ARMY INSTITUTE FOR RESEARCH) - APPROX. 12 LABS AND RAD. WASTE COLLECTION CENTER AT FOREST GLEN * ALL RECORDS MAINTAINED AT FOREST GLENN	
2. Licensee Internal Audits	Lic Cond ____	C
Scope and frequency of audits as required?	- RESEARCHERS + NUC. MED. PERFORM ~DAILY SURVEYS OF LABS.	
Conducted by appropriate persons?		
Records maintained?	- HEALTH PHYSICS OFFICE PERFORMS WEEKLY SURVEYS ~~MON~~ FOR HEAVY USE AREAS AND MONTHLY SURVEYS FOR NORMAL USE AREAS	
Reviewed by management?		
Deficiencies identified and corrected?		
NOTES & REMARKS:	* SURVEYS HAVE NOT IDENTIFIED DEFICIENCIES IN AIR SAMPLING	
3. Training and Qualification of Personnel	Lic Cond ____	C
Training & retraining conducted as required?	- ALL PERSONNEL INTERVIEWED HAVE TAKEN COURSE OFFERRED BY H.P. OFFICE	
Written & oral exams conducted?		
Examination results reviewed by management?	- PRINCIPAL INVESTIGATORS TAKE INTENSIVE 40 hr COURSE	
Instructions to workers per 19.12?	19.12	
Authorized users? On license? Available in emergency?	Lic Cond ____	
NOTES & REMARKS:		
4. Radiation Protection Procedures	Lic Cond ____	C
Procedures available and implemented? Identify radiopharmaceutical and dose(s)? Cover handling of patients receiving therapeutic doses? Cover handling of cadavers?	- LICENSES ~~GRANTED~~ TO USERS HAVE CONDITIONS WHICH MUST BE FOLLOWED FOR VARIOUS AMOUNTS OF USE OF MATERIALS	
Close out Surveys on Patients receiving temporary implants?	35.14 (b)(5)(v) * PROTOCOLS SPECIFY LIMITS/EXP.	
Emergency procedures for spills, etc? Personnel understand procedures?	- CLOSE OUT SURVEYS PERFORMED BY H.P. STAFF	
NOTES & REMARKS:	- EMERGENCY PROCEDURES ARE PART OF LICENSE CONDITION	

INSPECTION REPORT NUMBER _____ Page ____ of ____

78710B - Medical

AREAS INSPECTED AND FINDINGS

Licensee: _____ License No: _____ Amendment No: _____

INSPECTION ITEM	CRITERIA	FINDING
5. Use of Materials		C
Procurement and use as required? Authorized form & route of administration?	35.14(b)	— H. P. OFFICE APPROVES ALL
Special tests (moly breakthrough, leak tests, etc) required?	35.14(b)(4)	PURCHASES AND RECIEVE ALL INCOMING ISOTOPES
Inventory of brachytherapy sources?	35.14(b)(5)	
Dose calibration checks performed?		— BRACHYTHERAPY INVENTORY BY ONKOLOGY STAFF
Posting & labeling as required?	20.203	

NOTES & REMARKS: — DOSE CALIBRATOR NOT CALCULATED FOR ±5% ON DAILY CHECK
NO LICENSE COMMITTMENT

—

6. Storage of Materials		C
Material secured in both restricted and unrestricted areas? Adequately?	20.207	— LABS OCCUPIED DURING DAY, LOCKED AT NIGHT

NOTES & REMARKS: — DELIVERY OF GENERATORS FOR NUC. MED. AREA AT FOREST GLEN

7. Facilities	Lic Cond_____	C
As described in lic cond or application?		AS DESCRIBED
Any changes made? Adequacy?		MAIN CAMPUS — MEDICAL Bldg + WRAIR (Bldg 40)

NOTES & REMARKS: FOREST GLEN - TWO Bldgs. OF RESEARCH, H. P. OFFICE AND RAD. WASTE Bldg.

NUC. MED. OPENS AT 6:00 AM

8. Instruments	Lic Cond_____	C
Survey meters & instruments adequate for program?		- SURVEY METERS AVAILABLE IN
Instruments & meters operable? Calibrated? Calibration adequate?		LABORATORIES + NUC. MED.

All CALIBRATED BY CONTRACTOR

NOTES & REMARKS:

INSPECTION REPORT NUMBER _____ Page ____ of ____

87710B - Medical

AREAS INSPECTED AND FINDINGS

Licensee: _____ License No: _____ Amendment No _____

INSPECTION ITEMS	CRITERIA	FINDING
9. Receipt and Transfer of Material		C
Written procedures for pickup, receiving, opening packages?	20.205	— All packages are recieved at Forest Glen, logged in and checked against authorized user limits, delivered to user and signed for by responsible individual
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: — Waste shipments through broker, proper records/manifests kept

— Waste shipped to Forest Glen from main campus in DOT 17H drums (strong tight) as limited quantities, <0.5 mR/hr on shipment observed

10. Personnel Protection - External		NC
Personnel monitoring controls adequate? Exposures minimized?	20.101, 20.202	* Nurses caring for brachy patients did not wear film badge
Exposure records (NRC-4 or 5) maintained? Available for employee review?	20.102(b), 20.401(a)	
Surveys conducted? Adequate?	20.201	* Nurse caring for Iodine-I patients did not wear pocket dosimeter
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: * Nuc. Med. Tech not using syringe shields during kit preparation

* Investigator using 2 mCi/exp. (P-32) - No extremity dosimetry

— Surveys + exposure records maintained at Forest Glen

11. Personnel Protection - Internal		NC
Airborne concentrations in restricted areas? (Xe-133, patients treated with I-131)	20.103	* An investigator performed iodinations (1 mCi I-125) on 3/18 + 3/27 and has not had bioassay performed
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?		— Leak test performed timely - No detectable contamination

NOTES & REMARKS:

— Surveys of labs performed regularly, contamination cleaned

* Nuc. Med Tech assayed doses + prepared kits without protective clothing — lab coat

INSPECTION REPORT NUMBER _____ _____ Page _____ of _____

78710B -- Medical

AREAS INSPECTED AND FINDINGS

Licensee: _____ License No: _____ Amendment No: _____

INSPECTION ITEM	CRITERIA	FINDING
12. Effluent Controls, Waste Disposal		NC
Release of effluents contolled? (particularly Xe-133, radioiodine where used)	20.106, 20.33	* RADIOACTIVE MATERIAL FOUND IN THREE NORMAL TRASH CANS IN NUC. MED. AFTER PERFORMANCE OF DAILY SURVEY
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: - AIR SAMPLING PERFORMED IN IODINATION HOODS AND RELEASE EVALUATED → W/IN LIMITS 10 CFR 20		
13. Notifications and Reports		_____
To individuals?	19.13	- 1 MISADMINISTRATION SINCE LAST INSPECTION, REPORTED, CORRECTIVE ACTIONS FOLLOWED
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: - NO OTHER REPORTABLE INCIDENTS HAVE OCCURRED		
14. Posting of Notices		C
Part 20, license & documents, procedures, notice of violations posted?	19.11(a)	ALL LABS + RADIATION AREAS POSTED PROPERLY
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. Confirmatory Measurements		_____
NRC Instrument: _____	Calibration Due Date: _____	
17. Independent Inspection Effort		_____
18. Incidents and Events		C
Any incidents of misadminstrations, contamination, etc., not otherwise covered by reports?	35.41 -35.45 20.402, 20.403, 20.405	

REGION I Form 198-C.3
(July 82)

INSPECTION REPORT NUMBER 86-01 Page ____ of ____

APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: WALTER REED ARMY MEDICAL CENTER License No: 08-01738-02

Reference	Basis for noncompliance
Report item 10 10 CFR Lic Cond 20 Type n/c	NURSES CARING FOR BRACHYTHERAPY PATIENT NOT WEARING FILM BADGE NURSE CARING FOR IODINE 131 PATIENT NOT WEARING POCKET DOSIMETER
Report item 10 10 CFR Lic Cond 20 Type n/c	RESEARCH INVESTIGATOR USING 2 mCi OF P-32 PER EXP. NOT SUPPLIED WITH FILM BADGE
Report item 11 10 CFR Lic Cond 20 Type n/c	RESEARCH INVESTIGATOR PERFORMED IODINATIONS OF 1mCi I-125 IN MARCH AND HAS NOT HAD BIOASSAY PERFORMED
Report item 12 10 CFR 20.201 Lic Cond Type n/c	INADEQUATE SURVEY OF NUC. MED AREA - RADIOACTIVE MATERIAL FOUND IN 3 NORMAL TRASH CANS AFTER DAILY SURVEY HAD BEEN PERFORMED
Report item 10 CFR Lic Cond Type n/c	
Report item 10 CFR Lic Cond Type n/c	

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

INSPECTION REPORT NUMBER 86-01 Page ____ of ____

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

Licensee: WALTER REED ARMY MEDICAL CENTER License No: 08-01738-02

Identification and summary of action taken	Status
Report No: 81-01 Type n/c: IV Describe: FAILURE TO EVALUATE DOSE TO EXTREMITY 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

REGION I Form 198-C.5
(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