



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION V

SUITE 202, WALNUT CREEK PLAZA
1990 N. CALIFORNIA BOULEVARD
WALNUT CREEK, CALIFORNIA 94596

03000101

INSPECTION REPORT NO. 81-02

VETERANS Administration Wadsworth Hospital
Wilshire and Sawtelle Blvd.
Los Angeles, California 90073

Telephone No: (213) 824-4360 (L. Wetterau)

Attached

☒ Appendix A

☒ Appendix B

☐ Appendix C

☐ Memo

License No. 04-00181-04 Last amendment & date: NO. 78, July 30, 1981

Category: G1 & Priority: 3, as of last amendment.

Inspection date(s): Dec 16-18, 1981 Type of inspection: Routine-Unannounced
reinspection

SUMMARY OF FINDINGS AND ACTION

☐ No noncompliance, clear 591

☐ Noncompliance, 591 issued

☒ Noncompliance, Appendix A

☐ Regional action ☐ HQ action

☐ Action on previous n/c, App B

☐ Supplemental info, App C

RECOMMENDATIONS

See basis in Appendix C or attached memo.

☐ Change Category to: _____

☐ Change Priority to: _____

☐ Next inspection date: _____

PERSONS CONTACTED

★

Leonard Wetterau, RSO

Peggy Joe Grady, Pharm.D., Radiopharmacist

★

Betty Celeberd, Ph.D., Health physicist

★ William K. Anderson, Hospital Director

Relph. Mackintosh, Medical Physicist, Asst. RSO

★ Dr. William H. Bland, Chief, Nuclear Medicine

Stuart Miskell, Ph.D., Nuc. Med. Nuclear Physicist

★ Dr. H. Earl Gordon, Chief of Staff

Ernie Tallos, Nuclear Medicine technician

★ Ben Cantler, Adm. Asst to Chief of Staff

Eugene Pekery, Ph.D., Nuc. Medicine Supervisor

Inspector: _____

Approved: _____

★ Denotes those attending Exit Briefing

IE:V Form 605

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INSPECTION ITEMS	MODULE NUMBER	766 TIME INFORMATION
Management Meeting - Entrance and Exit Interviews (REQUIRED)	30703B ✓	$2 \times 1 = 2$
Initial Management Meeting	30800B	
Program Requirements MC <u>2860</u> (REQUIRED)	78710B	$2 \times 12 = 24$
Transportation Activities (REQUIRED)	86740B ✓	$2 \times 1 = 2$
In-office Review of Event Reports	90712B	
Licensee Event Followup	92700B	
Followup on Inspector Identified Problems	92701B	
Followup on Noncompliance and Deviations	92702B ✓	$2 \times 3 = 6$
IE Bulletin/Immediate Action Letter Followup	92703B	
Followup on Headquarters Requests	92704B	
Followup on Regional Requests	92705B	
Independent Inspection Effort (REQUIRED)	92706B ✓	$2 \times 1 = 2$
Review of Part 21 Reports	92715B	
Inspector Dispatched to Site	93700B	
Followup on Significant Event Occurred During an Inspection	93701B	

two inspectors total 36 hrs.

AREAS INSPECTED AND FINDINGS

Licensee: VA Wadsworth HospitalLicense no: 04-0081-04 Amendment no: 78

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u>		<u>marginally</u> <u>OK</u>
Structure of organization as described in requirements?	Lic Cond <u> </u> William K. Anderson, Hospital Director ↓ H. Earl Gordon, M.D. Chief of Staff ↓ William H. Bland, M.D. Chief Nuc. Med. & Ultrason ↓ Leonard W. Heran, RSO, Wadsworth Hospital Nuc. Med. Sy. Research Service, and Brentwood Medical Center Research Service	
NOTES & REMARKS: ↓ Ralph Madewest, Asst RSO for Radiation Therapy Service [Other side this page]		
2. <u>Licensee internal audits</u>	Lic Cond <u>23</u>	<u>n/c</u>
Scope and frequency of audits as required? <u>N/C</u> Conducted by appropriate persons? Records maintained? <u>N/C</u> Reviewed by management? <u>N/C</u> Deficiencies identified & corrected? <u>none identified</u>	the medical Isotopes Committee is required to meet on quarterly basis. Minutes of the Committee were reviewed and meetings noted to be held on 11/18/81, 8/14/81, 5/6/81, 1/14/81, 10/2/80. (OK.)	
NOTES & REMARKS: Clear documentation of unusual radiation exposure occurrence to badge #00002 reported on 9/2/81 (dose 280 mrem on July, 1981). Investigation made of individual who used a Co-60 calibration source at UCLA. However cause of exposure could not be determined. No annual audits of the radiation safety program were performed by the Med Isotope Comm. for the years 1979 thru 1981.		
3. <u>Training and qualification of personnel</u>	Lic Cond <u> </u>	<u>OK</u>
Training & retraining conducted as required? <u>OK</u> Written & oral exams conducted? Examination results reviewed by management? <u>None given or required</u> Instructions to workers per 19.12? <u>OK</u>	19.12	
NOTES & REMARKS: A fairly extensive training program is given to technical and non-technical personnel working with or exposed to licensed material. Training records were examined and appeared complete in terms of scope of training material and persons who attend (sign-in logs for each training session maintained). Quarterly training is given to nuclear medicine and research personnel (16 lecture courses). Annual training is given to building management, nursing, and supply service personnel.		
4. <u>Radiation protection procedures</u>	Lic Cond <u> </u>	<u>OK</u>
Procedures available and implemented? Identify radiopharmaceutical and dose(s)? <u>OK</u> Cover handling of patients receiving therapeutic doses? Cover handling of cadavers? <u>OK</u> Emergency procedures for spills, etc? <u>OK</u> Personnel understand procedures? <u>OK</u>	Dose, radiopharmaceutical, procedures, etc are documented in "Nuclear Medicine Procedure and Instrumentation Manual" Rev. Sep 1979 signed by H. Earl Gordon, CCS., and W. H. Bland.	
NOTES & REMARKS: Records of radiation surveys were examined for patients administered iodine-131 therapy doses on 6/20/81, 2/13/81, and 9/26/80. Survey is made at surface of and 1 meter from patients' anterior and posterior xiphoid, and at 6 feet from bed, during the course of patients' confinement to hospital rooms released until below 30 mCi. Survey program for patient therapy cases and autopsy is thorough and well documented.		

1. Organization

a letter dated 6/4/81 to NRC-NMSS states that Leonard Witterman will be RSO for Wadsworth Hospital Radiation Safety Program of the Nuclear Medicine and Research Service and the Brentwood Medical Center Research Service. The letter also states that Ralph S. Mackintosh will be Asst RSO for the Wadsworth Med. Ctr Radiation Therapy Service. In NRC-RI Report No. 81-01, which describes the items discussed during an enforcement conference held with the licensee on May 7, 1981, certain changes were outlined which were necessary for the licensee to reflect the current status of the radiation safety program. It was stated that "one person must assume overall responsibility for the radiation safety program". Although it is clear from the letter of 6/4/81 that Ralph Mackintosh is the Asst RSO, it is noteworthy that the letter does not state that Mr. Witterman is responsible for the Radiation Therapy Service radiation safety program. It is therefore questionable whether the concerns expressed during the enforcement conference and the directive which required licensee corrective action, has been satisfied. This is also supported by the fact that no internal audits are performed by the RSO of the licensee activities in Radiation Therapy Service. There have been changes in the membership of the Medical Isotopes Committee since the last inspection. The current membership is:

Medical Isotopes Committee

Associate Hospital Director - Lee Nackman

Chief of Staff - H. Earl Gordon, M.D.

Chief of Laboratory Service - Ben Fishkin, M.D.

Chief, Radiation Therapy Service (Acting) - H. Kusk, M.D.

Chief, Medical Service - Lawrence Friedman, M.D.

Chief of Staff for Research - Lucien Guze

Chairman, Medical Isotopes Committee, Chief Nuclear Med. Sv - W. H. Bloch, M.D.

Research Chemist, Nuclear Medicine Service - L. Mayron, Ph.D.

Consultant, Dean's Committee, UCLA School of Medicine - Joseph F. Ross

Liaison, Brentwood VA Medical Center - W. Oldendorf, M.D.

Radiation Safety Officer, Leonard W. Witterman, Jr.

Asst Radiation Safety Officer, Medical Physicist, Ralph E. Mackintosh

Some problems are noted in the membership of the committee. The licensee has in the past requested an amendment change whenever the membership in the committee has changed. However there has been no notification for the addition of two committee members (L. Nackman and L. Friedman). Also an internal memo NC-4-214/EP was signed by the director, designated R. Mackintosh as Asst RSO and appointed as a full member of the Med. Isotopes Comm. It was noted however that in subsequent meetings of the committee that R. Mackintosh was either not listed as a member when he was absent or during those times when he was in attendance, Mackintosh was designated as a replacement for Dr. Petrovich, who was not in attendance. The above problems were discussed at the rpt briefing.

AREAS INSPECTED AND FINDINGS

Licensee: VA Wadsworth HospitalLicense no: 04-00151-04 Amendment no: 78

INSPECTION ITEM	CRITERIA	FINDING
5. Use of materials	Lic Cond <u>22</u>	<u>n/c</u>
Procurement and use as required?	All purchasing requests for radioactive material must be approved by Wettrou. Any user of RAM must submit application and protocol for approval by RSC, who then issues a "Radioisotope 20.203 Permit" to the applicant, which have	
Special tests (moly breakthrough, leak tests, etc) required? <u>N/A</u>		
Dose calibration checks performed? <u>OK</u>		
Posting & labeling as required?		
NOTES & REMARKS: an expiration date. During inspection of use location of one authorized user (Bldg 114, Room 200 laboratory, Dr. Jerome), it was discovered that Isotope Permit # W-1278-S, had an expiration date of 12/78! It could not be determined whether this violates the licensee's own internal control procedures for authorized use. [over]		
6. Storage of materials	20.207	<u>marginally OK</u>
Material secured in both restricted and unrestricted areas? Adequately?	NOTES & REMARKS: During a walk-through inspection of the nuclear medicine department, at approximately 4:45 p.m. on December 17, the door to the nuclear pharmacy room was observed to be unlocked and the room unattended, and therefore in apparent noncompliance with 10 CFR 20.207(b). However, the nuclear pharmacist at the time was at the reception area desk and probably would have been able to monitor as well as stop any unauthorized. [over]	
7. Facilities	Lic Cond <u>22</u>	<u>OK</u>
As described in lic cond or application? <u>yes</u>		
Any changes made? Adequacy? <u>no apparent changes</u>		
NOTES & REMARKS:		
8. Instruments	Lic Cond <u>22</u>	<u>OK</u>
Survey meters & instruments adequate for program?		
Instruments & meters operable? Calibrated?		
Calibration adequate?		
NOTES & REMARKS: Mr. Wettrou stated that licensee recalibrates survey instruments on an annual basis. Licensee maintains an inventory record of instruments which posts the dates of calibration and when they are due for recalibration. The licensee has used Technical Associates to provide calibration services. Spot check of instruments Tech Assoc Model CP-6M ion chambers S/N 031135 and 031136 indicated a calibration on 3/24/81 to $\pm 15\%$ using Cs-137 which are due for recalibration on 3/24/82.		

IE:V Form 624B

5. Use of Materials

The licensee's Radiation Safety Program Manual (Rev June, 1977) does not address this. The next inspector should look at this more thoroughly. The licensee has stated in the letter dated 2/12/79, that they will follow Medical Licensing guide, Appendix D, Section 2 for dose calibrator checks. Linearity checks required quarterly by L.C. 22; Constancy checks quarterly and daily using Ra 226 or Cs 137; Accuracy tests required using Cs 137, Co 57, Co 60. A Capintec Dose Calibrator Model CRC-20, S/N 20032, Recd March, 1978, was evaluated with the following tests:

Linearity test on: 2/4/80, 5/12/80, 9/11/80, 12/8/80, 2/10/81, 4/27/81 (round originally missing but later located - cover letter from RSC and test data attached), 7/27/81, 8/24/81, 11/19/81.

Accuracy test on: 4/27/81

A lower dose calibrator, Capintec CRC 4, used from 8/20/81 to 7/6/81

Linearity test on: 8/24-26/81

Accuracy test on: 8/21/81

The licensee does not use Mo 99 generators; precalibrated unit doses are purchased instead. Two radioimmunoassay / in vitro counting laboratories in the Nuclear Medicine Service area, one of which contains up to 200 microcuries, and the other up to 30. microcuries of Iodine-125, were not posted with "CRM" signs, in noncompliance with 10 CFR 26.303(e). Posting is non-exempted when the quantity of I-125 exceeds 10 μ Ci.

6. Storage of Materials

persons from entering the restricted area of the nuclear pharmacy. The next inspector should verify that the nuclear pharmacy is under the direct surveillance and immediate control of the licensee. The question of placing a lock on the door to the nuclear pharmacy room was discussed with Dr. Blahd and Mr. Wetherill. Dr. Blahd stated that it would be difficult to lock the door during the day since this would restrict unduly and slow the access of authorized personnel in a very busy department.

The quarterly physical inventory to satisfy 10 CFR 35.14(b)(5)(V) which was cited on the previous inspection (Dec 8-11, 17-18, 1980) now includes Sr-90 eye applicator. Ralph MacIntosh is now responsible for performing inventory of sealed sources used by Radiotherapy Service (see attachment which is copy of pages excerpted from licensee logbook for inventory period 1980-1981). Medical Physicist then uses a form which reports the source inventory on a quarterly basis, which is sent to the Radiation Safety Officer (Mr. Wetherill). It should be noted that the licensee has decided to terminate their implant program - the last Ir-192 implant was 12/17/80 and all sources were disposed on 4/3/81. The last I-125 implant was on 11/26/80 but still retains an inventory of I-125 seeds (43 total).

AREAS INSPECTED AND FINDINGS

Licensee: VA. Wadsworth HospitalLicense no: 04-00151-04 Amendment no: 78

INSPECTION ITEMS	CRITERIA	FINDING
9. Receipt and transfer of material		OK
Written procedures for pickup, receiving, opening packages? <u>OK</u>	20.205	During normal working hours, RAM is received at Gen Warehouse Bldg
Survey of packages when received? <u>OK</u>	20.205(c)(1)	247 → delivered to Rm 0072, Radiopharmacy
Records of survey of packages? <u>OK</u>	20.401(b)	(if radiopharmaceuticals) or to Rm 212
Transfer of materials proper? Transfer records maintained? <u>OK</u>	30.41, 30.51	Bldg 114 (if used by non-human research)
Authorized containers used? Shipping papers & package labels proper for packages on hand?	71.5	During off-hours, RAM is delivered to Police Hqtrs, Bldg 236.
NOTES & REMARKS: Time constraints prevented the inspector from a walk-through inspection of the above areas. Log records were examined which show that packages are monitored and inspected - <u>OK</u> . Wipe tests are only taken from radioactive packages which contain non-exempt quantities by 10 CFR 26.245. (See attachment "Receipt of Radiomaterials - Package Opening") For materials used by nuclear medicine, separate records are kept for individual isotopes/comp.		

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

NOTES & REMARKS:

In general, weekly surveys are made of radiopharmacy Rm 0072 by Wetheren's group including surface exposure and wipe tests of several selected areas. In addition, a daily survey of 5 areas in Room 0072 to monitor external radiation levels is completed by the nuclear medicine technicians. [OVER]

11. Personnel protection - internal		n/c
Airborne concentrations in restricted areas?	20.103	During a walk-through inspection of Room
Exposures to minors?	20.104	acc in Bldg 114, an individual
Posting of airborne radioactivity areas?	20.203(d)	was observed by the inspector to be
Survey, monitoring adequate for airborne radioactivity, surface contamination? Records maintained? <u>OK</u>	20.201 20.401	drinking coffee.
Leak Tests	LC 24A 34.14(b)	

NOTES & REMARKS:

Licensee states that the following sources have never been leak tested: Ni-63, 8 mCi (in storage since Dec 30, 1980) for use in a gas chromatograph (in nonexempt); I-125 sealed sources AEC source C 236-556 (240 mCi on 3/6/81) in use from 3/3/81 to 6/30/81 (in storage since 6/30/81) for use in bone mineral analyzer; I-125 seeds for interstitial implants for the period Sept. 30, 1980 to Dec 18, 1981. Total of 43 seeds in storage since September 30, 1980.

Sr-90 Eye Applicator 25 mCi source leak test dates IE:V Form 624C 10/4/79 to 10/1/81
Sr-90 Calibration source 10 mCi leak test dates 10/4/79, 4/1/80, 4/1/80, 3/31/81, 10/1/81
Cs-137 Calibration source 100 mCi, leak test dates 10/4/79, 6/12/79, 4/1/80, 10/1/80, 3/31/81, 10/1/81 OK

10. Personnel Protection - external

Bi-weekly surveys are made of nuclear medicine rooms 0080, 0081, and 0082. Weekly surveys including surface exposure and wipe tests are made in research laboratories. Several different buildings are involved and a separate survey record book is kept for each. A spot check of one survey book indicated the following use locations.

Nephrology, Bldg 114, Rm 301, P^{32} and Ca^{45} (mCi quantities), I-125, C^{14}

Endocrinology, Bldg 114, Rm 200, I-131 (1 mCi), I-125, H-3

Nuclear Medicine Radiog. Bldg 114, Rm 210, Ti^{111} (1 mCi)

Nuclear Medicine Rad Safe Bldg 114, Rm 212 (receipt location for all research isotopes)

Lipid Research, Bldg 114, Rm 118, H-3 (μCi to mCi qty)

" " " Rm 121, C-14, I-125, S-35, H-3 (mCi level)

" " " Rm 119, H-3 (μCi to mCi levels)

" " " Rm 114, H-3 (5 mCi) - Room under repair from leaking roof - all isotopes removed from

The inspectors made a walk-through inspection of Rooms 200, 301, and 114

Time restraints prevented inspection of other buildings where isotopes are used or stored in research laboratories.

Personal dosimetry records were examined for years 1980 and 1981 (checked mutual)
max dose year ending Dec 31, 1980: 150 mrem whole body, 1650 mrem finger
" " " " Oct 31, 1981: 230 mrem whole body, 560 mrem finger

AREAS INSPECTED AND FINDINGS

Licensee: VA Wadsworth Hospital License no: 04-00181-4 Amendment no: 78

INSPECTION ITEM	CRITERIA	FINDING
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12. Effluent controls, waste disposaln/c

Release of effluents controlled? <u>OK</u>	20.106, 20.303
Waste disposals controlled? <u>OK</u>	20.301, 20.303, 20.304, 20.305
Procedures, records maintained? <u>n/c</u>	20.401, Lic Cond <u> </u>
Surveys made? Adequate? <u>OK</u>	20.401

NOTES & REMARKS:

Radioactive waste is stored in Bldg 340 and 346. Waste compactor is used for compacting solid waste. Animal waste is stored in freezer until collection by waste disposal contractor. [over]

13. Notifications and reportsOK

To individuals.	19.13
Overexposures, excessive levels & concentrations, incidents. <u>none</u>	20.403, 20.405
Personnel exposures and monitoring, termination reports. <u>OK</u>	20.407; 20.408
Theft or loss of licensed material. <u>none</u>	20.402

NOTES & REMARKS:

14. Posting of noticesOK

Part 20, license & documents, procedures, notice of violations posted? <u>OK</u>	19.11(a)
NRC-3 posted? <u>OK</u>	19.11(c)

NOTES & REMARKS:

15. Other license conditions

Lic 23

n/c

A 78 (6/3/81) Model alara program of Appendix O of Reg Guide 10.8 (Rev. 1) Oct. 1980. Management audits was not being performed to satisfy the alara program as described in Modules 1 and 2.

12. Effluent Controls, w/ to disposal

- * During a walk-through inspection of Rm 200 in Bldg 114, it was noted that the records of radioactive I-125 disposal to the sanitary sewer via a sink in the laboratory, showed activity for disposals made between Oct 29, 1981 and Dec 17, 1981, in units of cpm/ml rather than in units of microcurie.

AREAS INSPECTED AND FINDINGS

Licensee: VA Wadsworth HospitalLicense no: C4-CC181-C7Amendment no: 7E

INSPECTION ITEMS	CRITERIA	FINDING
16. Confirmatory measurements		<u>OK</u>
Wipes were taken from selected areas as follows: Bldg 114, Rooms 200, and 301; and Bldg 500, Room 0022 Nuclear Pharmacy laboratories. Some activity was detected (3-8) in the sinks that were used for disposal, other areas sampled gave minimal activity. Sample wipes were counted in the Region V gas flow proportional counter. Radiation level measurements were taken in the waste laboratories and in the waste disposal area (Bldg 340 and 346) using an Eberline model E-520 side window GM detector system (Serial No. NRC 008253) which was calibrated on 10/22/81 and is due for recalculation on 1/32/82. The only noteworthy radiation level was 6 mR/hr which was measured at about 12 inches directly above partially shielded containers of 15 mCi of Tc 99m-DTPA (12/17/81) and about 250 μCi I-131 on a portable [over]		
17. Independent inspection effort		<u>OK</u>
a walk-through inspection was made of the nuclear medicine imaging rooms and the whole-body counter.		
18. Incidents and events		<u>OK</u>
Any incidents of misadministrations, contamination, etc, not otherwise covered by reports? none reported according to Mr. Witterman.		

16. Confirmatory Measure To

cart located in the nuclear pharmacy room 0072 is nuclear medicine. It was noted that the area was not posted with a "Caution, Radiation Area" sign. There was no citation since a measurement made at 18 inches from the containers would have read less than 5 mR/hr to the whole body of a person leaning over the cart. However this situation was discussed with Mr. Wetters and the next inspector should monitor this area for proper posting.

APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: VA Wadsworth Medical CenterLicense no: 04-CC181-CY

Reference	Basis for noncompliance
Report item <u>2</u> 10 CFR <u> </u> Lic Cond <u>23</u> Type n/c <u>S.L. IV</u>	Contrary to the requirement for an annual audit by the Medical Isotopes Committee, based on audit by the Radiation Safety officer, the licensee's Medical Isotopes Committee has not conducted annual audits of the radiation safety program for the years 1979, 1980, and 1981.
Report item <u>5</u> 10 CFR <u>20.203(e)</u> Lic Cond <u> </u> Type n/c <u>S.L. IV</u>	Contrary to 10 CFR 20.203(e), a "Caution, Radioactive Material" sign was not posted in two radionuclide laboratories one of which contains up to 200 microcuries and the other 30 microcuries of iodine-125. A licensee representative posted the rooms with "Caution, Radioactive Material" sign in the inspector's presence.
Report item <u>11</u> 10 CFR <u> </u> Lic Cond <u>23</u> Type n/c <u>S.L. IV</u>	an individual was observed to be drinking a beverage in the Endocrinology laboratory (Building 114, Room 210), a radioisotope work area.
Report item <u>11</u> 10 CFR <u>34.14(b)(5)(i)</u> Lic Cond <u>24.A</u> Type n/c <u>S.L. IV</u>	The following sources were not leak tested during the periods: 1. Iodine-125, 248 mCi (on 3/6/81) sealed source in a bone mineral analyzer from 3/3/81 to 12/18/81 2. nickel-63, 8 mCi for use in a gas chromatograph from 12/30/80 to 12/18/81. 3. Iodine-125, 43 seeds for interstitial therapy from 9/30/80 to 12/18/81.
Report item <u>12</u> 10 CFR <u>20.41(b)</u> Lic Cond <u> </u> Type n/c <u>S.L. IV</u>	Records of the activity of licensed material released to the sanitary sewer by the Endocrinology Laboratory in Building 114 were recorded in units of cpm/ml instead of activity units (microcuries) from 10/29/81 to 12/17/81.

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

Licensee: 1/A Hospital, Wadsworth, CALicense no: 04-00181-04

Identification and summary of action taken	Status
Report no: <u>80-02</u> Type n/c: <u>N/C, Sev II</u> Describe: <u>1 record of an evaluation made to</u> Action taken: <u>show compliance with 10 CFR 20.101(c) was not made regarding</u> OPEN <u>an exposure of 7.7 rem to an employee for November 1979</u> CLOSED <u>Licensee has conducted an investigation to determine the nature and</u> <u>cause of exposure. It was determined that the reported dose was</u> <u>in error and no consequences had in fact occurred.</u>	
Report no: <u>80-02</u> Type n/c: <u>N/C, Sev II</u> Describe: <u>LC 23 (H-71) => item 3 of letter</u> Action taken: <u>Dated 10/6/78 => Med Isotopes Comm. will meet at least</u> OPEN <u>quarterly - no mtg was held between Mar 26, 1980 and Oct 2, 1980</u> CLOSED <u>Meetings of the medical Isotopes Committee have been held on a</u> <u>quarterly basis since the meeting of 10/2/80.</u>	
Report no: <u>80-02</u> Type n/c: <u>N/C, Sev IV</u> Describe: <u>LC 23 (H-71) => letter 11/25/77 =></u> Action taken: <u>RSC must have knowledge and control of all RAM =></u> OPEN <u>1 ribbon containing 3-4 Ir-192 seeds found on floor of source storage</u> CLOSED <u>room on 2/11/80.</u> <u>The inspectors monitored the source storage room with a Eberline E-520 GM</u> <u>detector - no abnormal radiation levels were detected from measurements taken on</u> <u>the floor, bench tops, and the area of the room where I-125 seeds are stored</u>	
Report no: <u>80-02</u> Type n/c: <u>N/C, Sev IV</u> Describe: <u>LC 23 (H-71) => Based on logging</u> Action taken: <u>procedures described in letter 7/27/78 => log of sealed sources</u> OPEN <u>not maintained and transfer of iridium-192 and I-125 seeds not</u> CLOSED <u>documented</u> <u>Logbook for iridium-192 seed accountability and disposition including date of</u> <u>receipt, exposure, activity, no. of seeds and disposition of seeds is maintained by</u> <u>medical physicist. Licensee no longer uses iridium-192 or iridium-125 seeds for pt. therapy</u>	
Report no: <u>80-02</u> Type n/c: <u>N/C, Sev V</u> Describe: <u>LC 15 => No records of</u> Action taken: <u>radiation surveys of patients treated with Ir-192 implants</u> OPEN <u>or of source counts for two patients whose implants were</u> CLOSED <u>removed on 4/21/79 and 12/21/79.</u> <u>Licensee has terminated program using iridium-192 and iridium-125</u> <u>seeds for patient therapy effective Dec, 1980.</u>	

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

Licensee: VA Hospital, Wadsworth, CALicense no: CA-CC181-64

Identification and summary of action taken	Status
Report no: <u>80-02</u> Type n/c: <u>N/c, Sec II</u> Describe: <u>By 10 CFR 35.14 (b) 5(x) =></u> ⇒ Action taken: <u>no physical inventory was conducted on quarterly basis between 6/30/77 and 2/28/78, 10/31/79 and 3/31/80</u> ✓ Physical inventory of all sources now completed on quarterly basis as follows: 12/31/80, 3/31/81, 6/30/81, 9/30/81. The Sr-90 eye applicator is now included in the inventory record.	OPEN CLOSED
Report no: <u>80-02</u> Type n/c: <u>N/c, Sec II</u> Describe: <u>By 10 CFR 35.14 (b) 5(x) =></u> ✓ Action taken: <u>a Strontium-90 eye applicator was not included in quarterly inventory records</u> The Sr-90 eye applicator is now included on the inventory report	OPEN CLOSED
(Enforcement Conference Directive) Report no: <u>81-01</u> Type n/c: _____ Describe: <u>Responsibilities of Radiation</u> Action taken: <u>Physicist to be clearly stated in license amendment</u> Responsibilities of Medical Physicist were defined in letter dated June 9, 1981 addressed to NRC licensing.	OPEN CLOSED
(Enforcement Conf. Directive) Report no: <u>81-01</u> Type n/c: _____ Describe: <u>One person to assume overall</u> Action taken: <u>Control and responsibility of radiation safety program</u> Licensure action in response to this concern, in the view of the inspector, has not been sufficiently well defined. This is discussed in more detail in Modules 1 and 2 of the inspection report (81-02)	OPEN CLOSED
(Enforcement Conf. Directive) Report no: <u>81-01</u> Type n/c: _____ Describe: <u>Changes in radiation safety</u> Action taken: <u>Program submitted as license amendment</u> Changes in radiation safety program have been submitted by the licensee in the attachment to the cover letter dated June 9, 1981 sent to NRC licensing	OPEN CLOSED

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

Licensee: VA Hospital, Wadsworth, CALicense no: C4-00181-04

Identification and summary of action taken

Status

Report no: 80-02 Type n/c: DEVATION Describe: No records of surveys wereAction taken: maintained for shipments received (1) 35 mCi, Ir-192 (5/31/79)
(2) 32 mCi, I-125, (11/24/79) and (3) 46 mCi, I-125 on (10/23/79).

OPEN

CLOSED

✓ Redaction and surveys were performed for I-125 seed received on 11/22/80 (Lot 103). Ir-192 seeds have not been received since the date of the last inspection on Dec 8-10 and 17-18, 1980.

Report no: 80-02 Type n/c: DEVATION Describe: A copy of the DOT regulationsAction taken: (49 CFR) was not maintained in Nuclear Medicine Dept

OPEN

CLOSED

Licensee now maintains copy of DOT regulations in Mr. Wetters' Office

Report no: _____ Type n/c: _____ Describe: _____

Action taken: _____

OPEN

CLOSED

Report no: _____ Type n/c: _____ Describe: _____

Action taken: _____

OPEN

CLOSED

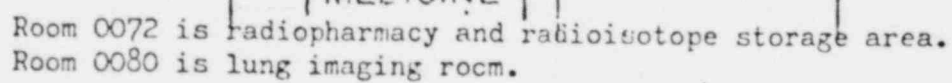
Report no: _____ Type n/c: _____ Describe: _____

Action taken: _____

OPEN

CLOSED

Wadsworth Hospital Nuclear Medicine Svc.



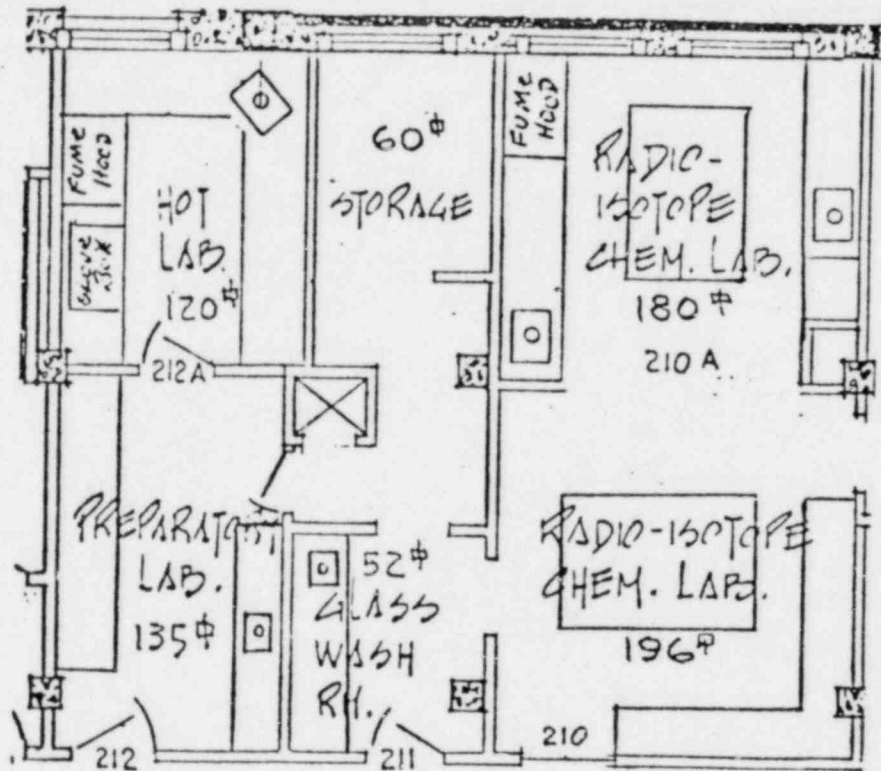
S1377

Wadsworth Hospital

Nuclear Medicine Service

Radioisotope Research Area

Bldg. 114, Rms. 210 - 212



INDEPENDENT SURVEY DATA

LICENSEE: VA Hospital, WadsworthDATE: 12/17/81BY: D. SkowPage 1 of 1

SAMPLE NUMBER	LOCATION	BG.	NET COUNTS PER MINUTE	MR/HR
	VA Wadsworth Hospital			
1	Bldg 114, Rm 301, Base. Top inside hood			
2	Bldg 114, Rm 200, Base. Top inside hood			
3	Bldg 114, Rm 201, Dispense Sink			
4	Bldg 114, Rm 200C, Sink			
5	Bldg 114, Rm 200D, Sink			
	Bldg 500, Hot Lab., Rm 672, Nuclear Medicine			
6	Hot Lab Sink			
7	Sink Top inside hood			
8	Dose Calibrator linear			
9	Base. Top inside L. Shielding Block			
10	Top Surface of Portable Cart			

SAMPLE IDENTIFICATION

Sample # M-8

Site (Licensee) _____

Results Needed By _____

Collected By _____

URGENT _____

Sample Types _____

Date Submitted _____

Sample Volume _____ ml, cm³, gm

Sample Date _____

DD MM YY HH MM TIME ZONE

Sample Description and/or Location (Be Specific) _____

Count Requested (gross 2, gross β, 8 -spec) _____

SAMPLE #	DATE	HOUR	ANAL. FOR	DATE COUNTED	COUNT TIME	GROSS COUNT	BKGD	NET COUNT	RESULT
2	12-17-81		2	12-21-81	5.0 min	1	0.4	—	φ
8			38			549	69.2	40.6	203
9			2			0	0.4	—	φ
9			20			402	69.2	11.2	56
10			✓			2	0.4	—	φ
10	✓		20	✓	✓	397	69.2	10.2	31
RECOUNT									
2	12-17-81		20	12-21-81	5.0 min	1782	69.2	201.4	1447
4						1149		152.1	303
5						1619		1328.4	6242
6						1627		236.2	1281
2						1828		296.4	1482
5						7361		1403	7015
6	✓		✓	✓	✓	1120	✓	254.6	1274

Air Samples

Time Started _____ Flow Rate _____

Time Stopped _____ Flow Rate _____

X (2.83 X 10⁴ ml/ft³)

total sample time in min
avg flow rate
= _____ ml
sample volume

Sample Types

- (A) 50ml Poly-Bottle
- (B) 500ml Poly-Bottle
- (C) Charcoal Cartridge (CP-200) Batch # _____
- (D) Gas Marinelli
- (E) Liquid Marinelli
- (F) Air Particulate Filter (47mm)
- (G) 33ml Gas Bulb
- (H) 10ml Liquid Scintillation Vial
- (I) 15ml Serum Vial (gas)
- (J) 150ml Jar
- (K) Air Particulate Filter (4")
- (L) Cartridge (Silver Zeolite) Batch # _____
- (M) Filter Paper Smear
- (N) Misc. (None of Above)

SAMPLE IDENTIFICATION

Sample # M-8

Site (Licensee) VA White North Hospital

Results Needed By _____

Collected By D. E. S. V.

URGENT _____

Date Submitted 12-21-81

Sample Types M

Sample Date _____

Sample Volume _____ ml, cm³, g m

DD MM YY HH MM TIME ZONE

Sample Description and/or Location (Be Specific)

Wipe - ...

Count Requested (gross α , gross β , γ -spec) Gross α , β , γ

RESULT in ... 20% counting efficiency - Gross α , β , γ

SAMPLE #	DATE	HOUR	ANAL. FOR	DATE COUNTED	COUNT TIME	GROSS COUNT	cpm BKGD	NET COUNT	RESULT NET DPM	RESULT NET CPM
1	12-21-81		α	12-21-81	5.0 min	1	0.4	—		ϕ
			β, γ			513	69.2	33.4	167	33.4
			α			2	0.4	—		ϕ
			β, γ			2146	69.2	360.0	1800	360.0
3			α			1	0.4	—		ϕ
3			β, γ			490	69.2	18.8	144	29.8
4			α			1	0.4	—		ϕ
4			β, γ			1197	69.2	170.2	851	170.2
5			α			1	0.4	—		ϕ
5			β, γ			8385	69.2	1607.8	8039	1607.8
6			α			0	0.4	—		ϕ
6			β, γ			1956	69.2	322.4	1610	322.4
7			α			1	0.4	—		ϕ
7	✓		β, γ	✓	✓	453	69.2	21.4	107	21.4

Air Samples

Time Started _____ Flow Rate _____

Time Stopped _____ Flow Rate _____

X X (2.83 X 10⁴ ml/ft³)

total sample time in min

avg flow rate

= _____ ml

sample volume

Sample Types

- (A) 50ml Poly-Bottle
- (B) 500ml Poly-Bottle
- (C) Charcoal Cartridge (CP-200) Batch # _____
- (D) Gas Marinelli
- (E) Liquid Marinelli
- (F) Air Particulate Filter (47mm)
- (G) 33ml Gas Bulb
- (H) 10ml Liquid Scintillation Vial
- (I) 15ml Serum Vial (gas)
- (J) 150ml Jar
- (K) Air Particulate Filter (4")
- (L) Cartridge (Silver Zeolite) Batch # _____
- (M) Filter Paper Smear
- (N) Misc. (None of Above)