FORM NRC-313M (9-78) 10 CFR 35	U.S. NUCLEAR REGULATORY COMMISSION APPLICATION FOR MATERIALS LICENSE – MEDICAL	Approved: GAO R0557

INSTRUCTIONS – *Complete Items 1 through 26 if this is an initial application or an application for renewal of a license. Use supplemental sheets where necessary. Item 26 must be completed on all applications and signed. Retain one copy. Submit original and one copy of entire application to: Director, Office of Nuclear Materials Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555. Upon approval of this application, the applicant will receive a Materials License. An NRC Materials License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Parts 19, 20 and 35 and the license fee provision of Title 10, Code of Federal Regulations, Part 170. The license fee category should be stated in Item 26 and the appropriate fee enclosed.*

1.a. NAME AND MAILING ADDRESS OF APPLICANT *(institution, firm, clinic, physician, etc.)* INCLUDE ZIP CODE

Kodiak Island Hospital
P.O. Box 1187
Rezanoff Drive
Kodiak, Alaska 99615

TELEPHONE NO.: AREA CODE ( ) ____ _____

1.b. STREET ADDRESS(ES) AT WHICH RADIOACTIVE MATERIAL WILL BE USED *(If different from 1.a.)* INCLUDE ZIP CODE

Same as l.a. 99120

02-21021

2. PERSON TO CONTACT REGARDING THIS APPLICATION

Jane Coin, M.D.

TELEPHONE NO.: AREA CODE 907) 486 3281

3. THIS IS AN APPLICATION FOR: *(Check appropriate item)*

a. [X] NEW LICENSE
b. [ ] AMENDMENT TO LICENSE NO. 30-19621
c. [ ] RENEWAL OF LICENSE NO. _____

4. INDIVIDUAL USERS *(Name individuals who will use or directly supervise use of radioactive material. Complete Supplements A and B for each individual.)*

Jane Coin, M.D.

5. RADIATION SAFETY OFFICER (RSO) *(Name of person designated as radiation safety officer. If other than individual user, complete resume of training and experience as in Supplement A.)*

Jane Coin, M.D.

6.a. RADIOACTIVE MATERIAL FOR MEDICAL USE

RADIOACTIVE MATERIAL LISTED IN:	ITEMS DESIRED "X"	MAXIMUM POSSESSION LIMITS *(In millicuries)*
10 CFR 31.11 FOR IN VITRO STUDIES	X	0.2 mCi
10 CFR 35.100, SCHEDULE A, GROUP I	X	AS NEEDED
10 CFR 35.100, SCHEDULE A, GROUP II	X	AS NEEDED
10 CFR 35.100, SCHEDULE A, GROUP III	X	2000 mCi
10 CFR 35.100, SCHEDULE A, GROUP IV		AS NEEDED
10 CFR 35.100, SCHEDULE A, GROUP V		AS NEEDED
10 CFR 35.100, SCHEDULE A, GROUP VI		

ADDITIONAL ITEMS:	MARK ITEMS DESIRED "X"	MAXIMUM POSSESSION LIMITS *(In millicuries)*
IODINE-131 AS IODIDE FOR TREATMENT OF HYPERTHYROIDISM		
PHOSPHORUS-32 AS SOLUBLE PHOSPHATE FOR TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA AND BONE METASTASES		
PHOSPHORUS-32 AS COLLOIDAL CHROMIC PHOSPHATE FOR INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS.		
GOLD-198 AS COLLOID FOR INTRA-CAVITARY TREATMENT OF MALIGNANT EFFUSIONS.		
IODINE-131 AS IODIDE FOR TREATMENT OF THYROID CARCINOMA		
XENON-133 AS GAS OR GAS IN SALINE FOR BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES.		

6.b. RADIOACTIVE MATERIAL FOR USES NOT LISTED IN ITEM 6.a. *(Sealed sources up to 3 mCi used for calibration and reference standards are authorized under Section 35.14(d), 10 CFR Part 35, and NEED NOT BE LISTED.)*

ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	MAXIMUM NUMBER OF MILLICURIES OF EACH FORM	DESCRIBE PURPOSE OF USE
4/6/82 Leah L. Brown	8510310386 850821 REG5 LIC30 50-21021-01 PDR		5159 $190/MB Application Brown 4/6/82 10888

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INFORMATION REQUIRED FOR ITEMS 7 THROUGH 23

For Items 7 through 23, check the appropriate box(es) and submit a detailed description of all the requested information. Begin each item on a separate sheet. Identify the item number and the date of the application in the lower right corner of each page. If you indicate that an appendix to the medical licensing guide will be followed, do not submit the pages, but specify the revision number and date of the referenced guide: Regulatory Guide 10.8 , Rev. 1 Date: October 1980

7. MEDICAL ISOTOPES COMMITTEE		15. GENERAL RULES FOR THE SAFE USE OF RADIOACTIVE MATERIAL *(Check One)*	
X	Names and Specialties Attached; and	X	Appendix G Rules Followed; or
X	Duties as in Appendix B; or *(Check One)*		Equivalent Rules Attached
	Equivalent Duties Attached	16. EMERGENCY PROCEDURES *(Check One)*	
8. TRAINING AND EXPERIENCE		X	Appendix H Procedures Followed; or
X	Supplements A & B Attached for Each Individual User; and See attached supplement.		Equivalent Procedures Attached
	Supplement A Attached for RSO.	17. AREA SURVEY PROCEDURES *(Check One)*	
9. INSTRUMENTATION *(Check One)*		X	Appendix I Procedures Followed; or
	Appendix C Form Attached; or		Equivalent Procedures Attached
X	List by Name and Model Number	18. WASTE DISPOSAL *(Check One)*	
10. CALIBRATION OF INSTRUMENTS			Appendix J Form Attached; or
X	Appendix D Procedures Followed for Survey Instruments; or *(Check One)*	X	Equivalent Information Attached
	Equivalent Procedures Attached; and	19. THERAPEUTIC USE OF RADIOPHARMACEUTICALS *(Check One)*	
X	Appendix D Procedures Followed for Dose Calibrator; or *(Check One)*	NA	Appendix K Procedures Followed; or
	Equivalent Procedures Attached		Equivalent Procedures Attached
11. FACILITIES AND EQUIPMENT		20. THERAPEUTIC USE OF SEALED SOURCES	
X	Description and Diagram Attached	NA	Detailed Information Attached; and
12. PERSONNEL TRAINING PROGRAM			Appendix L Procedures Followed; or *(Check One)*
X	Description of Training Attached		Equivalent Procedures Attached
13. PROCEDURES FOR ORDERING AND RECEIVING RADIOACTIVE MATERIAL		21. PROCEDURES AND PRECAUTIONS FOR USE OF RADIOACTIVE GASES (e.g., Xenon – 133)	
X	Detailed Information Attached	NA	Detailed Information Attached
14. PROCEDURES FOR SAFELY OPENING PACKAGES CONTAINING RADIOACTIVE MATERIALS *(Check One)*		22. PROCEDURES AND PRECAUTIONS FOR USE OF RADIOACTIVE MATERIAL IN ANIMALS	
		NA	Detailed Information Attached
X	Appendix F Procedures Followed; or	23. PROCEDURES AND PRECAUTIONS FOR USE OF RADIOACTIVE MATERIAL SPECIFIED IN ITEM 6.b	
	Equivalent Procedures Attached	NA	Detailed Information Attached

24. PERSONNEL MONITORING DEVICES

TYPE (Check appropriate box)		SUPPLIER	EXCHANGE FREQUENCY
a. WHOLE BODY	[X] FILM	Landauer	Monthly
	[ ] TLD		
	[ ] OTHER (Specify)		
b. FINGER	[ ] FILM		
	[X] TLD	Landauer	Monthly
	[ ] OTHER (Specify)		

c. OTHER (Specify)

25. FOR PRIVATE PRACTICE APPLICANTS ONLY

a. HOSPITAL AGREEING TO ACCEPT PATIENTS CONTAINING RADIOACTIVE MATERIAL

NAME OF HOSPITAL: Kodiak Island Hospital

MAILING ADDRESS: P.O. Box 1187

CITY: Kodiak, | STATE: AK | ZIP CODE: 99615

b. ATTACH A COPY OF THE AGREEMENT LETTER SIGNED BY THE HOSPITAL ADMINISTRATOR.

c. WHEN REQUESTING THERAPY PROCEDURES, ATTACH A COPY OF RADIATION SAFETY PRECAUTIONS TO BE TAKEN AND LIST AVAILABLE RADIATION DETECTION INSTRUMENTS.

26. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 1a certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

a. LICENSE FEE REQUIRED *(See Section 170.31, 10 CFR 170)*

(1) LICENSE FEE CATEGORY: 7 B.

(2) LICENSE FEE ENCLOSED: $ 190.00

b. APPLICANT OR CERTIFYING OFFICIAL *(Signature)*: D.A. Vanwieringen

(1) NAME *(Type or Print)*: D.A. Vanwieringen

(2) TITLE: Administrator

c. DATE: 2-15-82

RECEIVED
AM 10 17

0888

FORM NRC 313R (7-77) DRAFT

PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on Form NRC-313M. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).

2. **PRINCIPAL PURPOSE(S)** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30-36 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.

3. **ROUTINE USES** The information may be used: (a) to provide records to State health departments for their information and use; and (b) to provide information to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for a NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you. A copy of the license issued will routinely be placed in the NRC's Public Document Room, 1717 H Street, N.W., Washington, D.C.

4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed.

5. **SYSTEM MANAGER(S) AND ADDRESS** Director, Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555.

Kodiak Island Hospital
P.O. Box 1187
KODIAK, ALASKA 99615

OPERATED BY
LUTHERAN HOSPITALS AND HOMES SOCIETY
FARGO, NORTH DAKOTA 58102

Item 7. Medical Isotope Committee

Membership and Qualifications of the Committee are as follows:

Chairman: Jane Coin, M.D. Board Certified in Radiology.

Member: Peter H. Dohan, M.D. Board Certified in Pathology

Member: Carol Juergens, M.D. Board Certified in Internal Medicine.

Member: D.G. Vanwieringen, Administrator.

Duties & responsiblities of the Medical Isotope Committee shall be as outlined in Appendix B, Regulatory Guide for preparation of applications for Medical Programs, Revision 1, October 1980

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Item 8. Training and Experience.

In lieu of Supplements A and B as evidence of training and experience please note the following attachments: Copy of NRC License #50-05642-03 issued to James W. Coin, M.D. Copy of California State Radioactive Materials License #2425-33 issued to Eisenhower Medical Center, Palm Desert, Ca. listing James W. Coin, M.D. as Chairman and R.S.O. Copy of Court Order changing the name of James W. Coin, M.D. to Jane Coin, M.D. Copy of certification in Nuclear Medicine issued by the American Board of Nuclear Medicine, May, 1973.

Item 8.
2-15-82

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Item 9. Instrumentation:

1. Survey Meters

a. Manufacturers Name: Ludlum Measurements Inc.
Manufacturers Model Number: 14C and Model #44-7 end window probe.
Minimum Range: 0 mR/hr to 0.2 mR/hr.
Maximum Range: 0 mR/hr to 2.0 R/hr. 1 Instrument available.

2. Dose Calibrator
Manufacturers Name: Squibb-Capintec or Equivalent
Manufacturers Model Number: CRC-17
Number of Instruments Available: 1.

3. Instruments for Diagnostic Procedures:

Type of Instrument	Mfg. Name	Model
Gamma Camera	Genl. Electric	Portacamera IIC-6

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Item 10. Calibration of Instruments.

A. Calibration of Survey meters will be done in accordance with Appendix D Procedures filed under NRC license #22-18977-01 issued to Wm.F. Davnie. License expires 9-30-85.

B. Calibration of Dose Calibrator will be in accordance with Appendix D Procedures filed under NRC License #33-18977-01 issued to Wm.F. Davnie. License expires 9-30-85.

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Item 11. Facilities & Equipment.

A. Note attached sketches of areas of use.

All doors are lockable. The areas in question are located in the department of radiology and isolated from the normal foot traffic in the hospital. Flooring is of vinyl tile, walls are painted with a washable gloss paint. Counter tops are of non-absorbent material. On the tops of the couter trays are used which are lined with plastic backed absorbent paper to absorb any spills which may occur. Waste containers with suitable labels are provided.

Remote handling equipment is available for use when necessary.

Syring shields are available and will be used except where their use would be impractical such as with pediatric cases.

Lead storage containers will be provided for transportation and/or storage or radioactive materials. These are labeled with the name of the nuclide, activity, date & time of assay, and will bear the radiation caution symbol.

The Mo99/Tc99m generator has a primary shield of 1 5/8" lead, which in turn is placed in a lead shield 1 1/2" thick. This unit is stored behind 2" lead bricks.

A protective lead and leaded glass barrier will be provided for use in the preparation of Group III Radiopharmaceuticals.

In addition to the lead storage containers an area is built up with 2" lead bricks for shielding of all materials. Shielding of radioactive materials will be such that radiation levels in unrestricted areas will be less than 2 mR/hr.

Required signs & notices will be posted.

Radiation levels in all areas will meet the requirements of Section 20.101 of 10 CFR 20 for restricted areas, and 20.105 of 10 CRF 20 for unrestricted areas.

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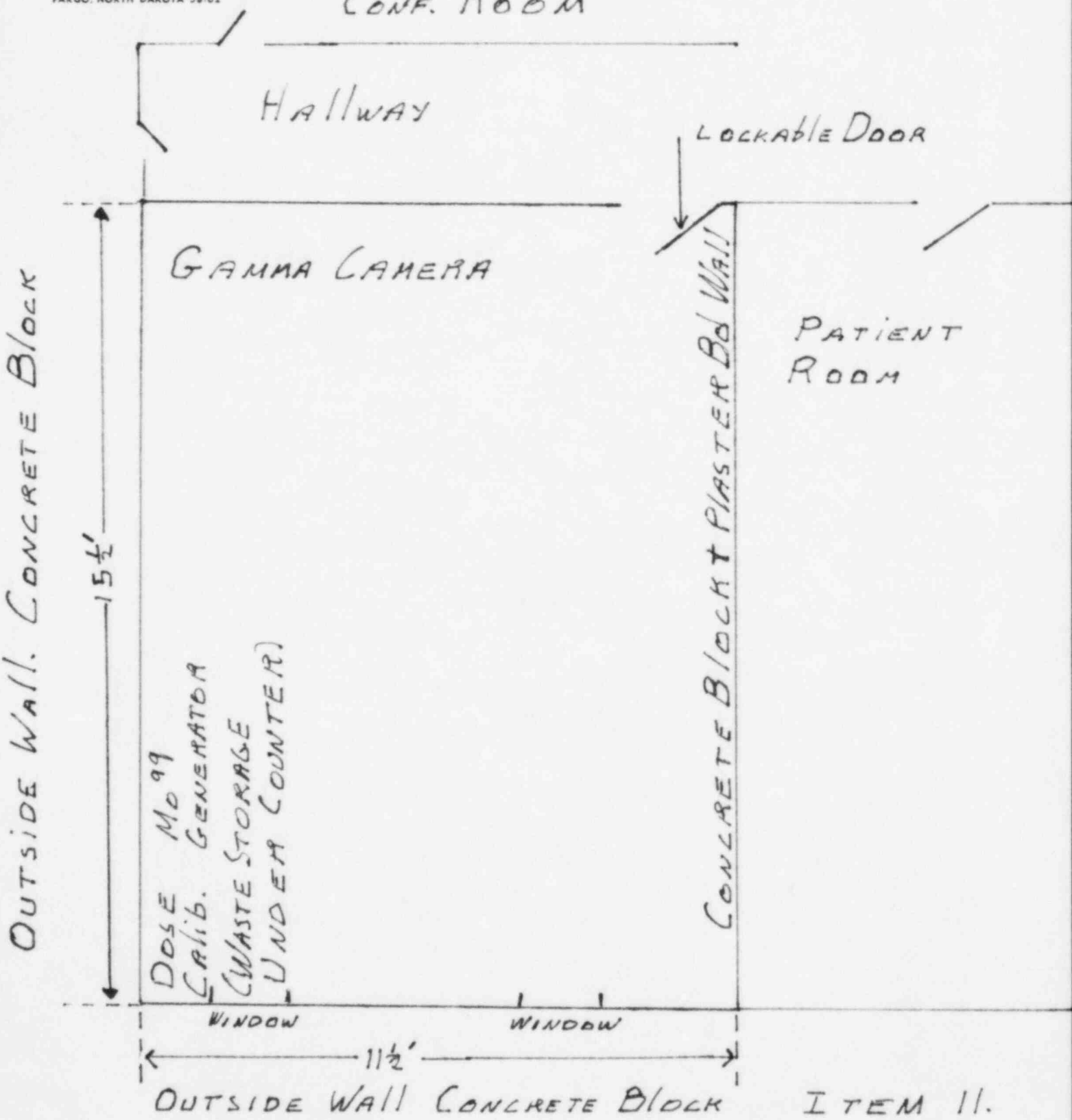

ITEM 11.
2-15-82 888

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Item 12. Personnel Training Program.

A personnel training program for all hospital personnel who work with or in the area of radioactive materials is provided to all personnel upon employment and annually thereafter.

The program consists of lectures by the R.S.O. covering the following subjects:

A. Areas of radioactive storage.

B. The potential hazards related to radioactive materials, and the radiological safety procedures appropriate to the materials in question and the job responsibilities.

C. Pertinent NRC regulations are explained, as well as the institutional rules and regulations.

D. The terms of the license are covered.

E. The obligation of the employee to report any unsafe conditions, as well as the appropriate response to emergencies or unsafe conditions.

F. The rights to be informed of their radiation exposure reports.

G. Location of notices, regulations, and licenses as required.

The program is covered in two 3 hour segments.

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Item 14. Procedures for Safely Opening Packages Containing Radioactive Material.

Procedures followed by this institution will be as outlined in Appendix F of Draft Guide for Preparation of Applications for Medical Programs.

Item 14.
2-15-82

Kodiak Island Hospital
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Item 15. General Laboratory Rules for the Safe Use of Radioactive Materials.

Laboratory Procedures as outlined in Appendix G of Draft Guide for Preparation of Applications for Medical Programs will be used at this institution.

Item 15.
2-15-82

Kodiak Island Hospital

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Item 13. Procedures for ordering & receipt of Radioactive Materials.

A. The Chief Nuclear Medicine Technologist will place all orders for radioactive materials and will ensure that the requested materials and quantities are authorized by the license and that possession limits are not exceeded.

B. During normal working hours carriers will be instructed to deliver radioactive packages directly to the Nuclear Medicine Department.

C. During off duty hours, the duty X-Ray Technologist will accept delivery of any radioactive materials in accordance with the procedure outlined in the memo from D. G. Vanwieringen. The memo is reproduced below:

Memorandum For: Emergency Room Personnel

From: D. G. Vanwieringen, Administrator

Subject: Receipt of Packages Containing Radioactive Material

1. Any packages containing radioactive materials that arrive during the off duty hours of the departments of Nuclear Medicine shall be signed for by the person in charge of the Emergency Room on duty. The material shall be taken immediately to the Nuclear Medicine Department, placed in the hot lab, and relock the door.

2. If the package is wet or appears to be damaged, immediately contact the hospital Radiation Safety Officer. Ask the carrier to remain at the hospital until it can be determined that neither he, nor his vehicle is contaminated.

RADIATION SAFETY OFFICER: Jane Coin, M. D.
Office Phone: 486-3281
Home Phone: 486-4934

/s/D. G. Vanwieringen
Administrator

A radioactive shipment receipt report will be used. This form will allow for the recording of data relative to: A) Who surveyed the package. B) Physical condition of the package. C) T.I. of the label. D) Rad. levels at the surface of the package relative to the radionuclide, the amount, and chemical form. F) Wipe test results if required. G) Survey results of cartons and packing materials. H) Disposition of package after inspection. I) NRC/carrier notification if needed, time, date & person.

Item 13
2-12-82

Kodiak Island Hospital
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Item 16. Emergency Procedures, Including Names & Telephone Numbers of Personnel to be Notified.

Emergency procedures as outlined in Appendix H of Draft Guide for Application of Medical Programs will be used at this institution.

Item 16
2-15-82

Kodiak Island Hospital
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Item 17. Area Survey Procedures.

Area surveys and wipe tests as outlined in Appendix I of the Draft Guide will be used.

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Item 18. Waste Disposal Procedures.

A. Liquid Waste will be disposed of in the sanitary sewer system in accorance with Section 20.303 of 10 CFR Part 20.

B. Mo99/Tc99m generators will be returned to the manufacturer for disposal.

C. Other Solid Waste: Will be held for decay until radiastion levels as measured with a low level survey meter and with all shielding removed have reached background levels. At that point all radiation labels will be obliterated or removed and the waste will be disposed of as normal trash.

(SPACE BELOW FOR FILING STAMP ONLY)

HIRSCHI, HEALEY & HEALEY
A PROFESSIONAL CORPORATION
ATTORNEYS AND COUNSELORS AT LAW
73-833 EL PASEO AVENUE
P. O. DRAWER 1703
PALM DESERT, CALIFORNIA
(714) 346-8188

FILED
RIVERSIDE COUNTY

NOV 30 1976

Attorneys for Petitioner

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF RIVERSIDE

In the matter of the application of)
) NO. INDIO 22374
JAMES W. COIN,)
) DECREE CHANGING NAME
For change of name) (CCP Sec. 1278)

Date of Hearing: Nov. 30, 1976
Judge Presiding: FRANK MOORE

The petition of James W. Coin for an order changing applicant's name from James W. Coin to JANE COIN, came on regularly for hearing this 30th day of November, 1976.

Proof having been made to the satisfaction of the court, the court finds:

1. Notice of the hearing has been given in accordance with order of this court dated October 19, 1976, to show cause why the petition for change of name should not be granted.

2. The allegations of the petition are sufficient and true.

3. No objections to the proposed change of name have been made.

4. The petition should be granted.

IT IS ORDERED that the name of petitioner, JAMES W. COIN, be changed from JAMES W. COIN to JANE COIN.

DATED: November 30, 1976

FRANK MOORE

JUDGE OF THE SUPERIOR COURT

Entered in Order Book
and
Judgment Book 51 Page 341

HIRSCHI, HEALEY
& HEALEY
ATTORNEYS AT LAW
79-833 EL PASEO AVE.
P. O. DRAWER 1708

The American Board of Nuclear Medicine

Incorporated 1971

A conjoint Board organized with the sponsorship of the American Board of Internal Medicine, American Board of Pathology, American Board of Radiology and the Society of Nuclear Medicine hereby certifies that

[illegible] [illegible]

has met the requirements of this Board and is certified as qualified to practice as a specialist in all aspects of clinical and laboratory

Nuclear Medicine

including but not limited to Radiobioassay, Nuclear Imaging, in Vivo Measurements & Therapy with unsealed Radionuclides.

Russell C Blake
CHAIRMAN

02490

Joseph F Ross MD
SECRETARY

5/18/73

10 CFR 30

BYPRODUCT MATERIAL LICENSE

This Copy Is For Your Files

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee	
1. James Walter Goin, M.D. Doctor's Clinic 825 L Street 2. Anchorage, Alaska 99501	3. License number 50-03642-03 4. Expiration date March 31, 1973 5. Reference No.

6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time
A. Any byproduct material listed in Groups I and II of Schedule A, Section 35.100 of 10 CFR 35	A. Any radiopharmaceutical listed in Groups I and II of Schedule A, Section 35.100 of 10 CFR 35	A. As necessary for uses authorized in Subitem 9. A. at locations specified in Condition 10
B. Iodine 131	B. Iodide	B. 200 millicuries
C. Phosphorus 32	C. Soluble Phosphate	C. 50 millicuries
D. Phosphorus 32	D. Colloidal Chromic Phosphate	D. 50 millicuries
E. Gold 198	E. Colloidal Suspension	E. 200 millicuries
F. Iodine 125 or 131	F. Triiodothyronine	F. 20 millicuries
G. Molybdenum 99	G. Molybdenum 99/ Technetium 99m Generator (Squibb Model No. 08871)	G. 600 millicuries

9. Authorized use

A. Any diagnostic procedure listed in Groups I and II of Schedule A, Section 35.100 of Title 10, Code of Federal Regulations.