U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMB 3150-0120

APPLICATION FOR MATERIAL LICENSE Expires 6-30-90 35 and 40 INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW IF YOU ARE LOCATED IN APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS WASHINGTON, DC 20666 U.S. NUCLEAR REGULATORY COMMISSION, REGION III MATERIALS LICENSING SECTION 789 ROOSEVELT ROAD ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS. IF YOU ARE LOCATED IN. GLEN ELLYN, IL 60137 CONNECTICUT: DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA RHODE ISLAND, OR VERMONT, BEND APPLICATIONS TO ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NESRASKA. NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, BEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION I NUCLEAR MATERIALS SAFETY SECTION B 631 PARK AVENUE KING OF PRUSSIA, PA 19406 U.S. NUCLEAR REGULATORY COMMISSION, REGION IV MATERIAL RADIATION PROTECTION SECTION 611 RYAN PLAZA DRIVE, SUITE 1000 ARLINGTON, TX. 76011 ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, DREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO: ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, BOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO U.S. NUCLEAR REGULATORY COMMISSION, REGION II NUCEAR MATERIALS SAFETY SECTION 131 MARIETTA STREET, SUITE 28000 ATLANTA, GA 30323 U.S. NUCLEAR REGULATORY COMMISSION, REGION V NUCLEAR MATERIALS SAFETY SECTION 1460 MARIA LANE, SUITE 210 WALNUT CREEK, CA 94666 PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISOICTION. 2 NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code) THIS IS AN APPLICATION FOR /Check appropriate item/ Basha Radiology A NEW LICENSE B AMENDMENT TO LICENSE NUMBER 21-20416-01 1401 S. Washington Avenue Royal Oak, Michigan 48069 C. RENEWAL OF LICENSE NUMBER 3. ADDRESSIES WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED TELEPHONE NUMBER 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION 313)268-5300 Colleen Brady, Consultant NMA/Mallinckrodt, Inc. SUBMITITEMS 5 THROUGH 11 ON 8% x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time. 5. RADIOACTIVE MATERIAL 6 PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED INDIVIDUALISI RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE. 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS O. RADIATION SAFETY PROGRAM 9 FACILITIES AND EQUIPMENT 12 LICENSEE FEES (See 10 CFR 170 and Section 170 31) AMOUNT ENCLOSED \$120 FEE CATEGORY 70 11. WASTE MANAGEMENT 13 CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIE? WARNING 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT, 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION TYPED/PRINTED NAME SIGNATURE -CERTIFYING OFFICER PADIATION Y.M. BASHA, M. D 8905080345 880809 REG3 LIC30 21-20416-01 PNU FOR NAC USE ONLY APPROVEDE FEE CATEGORY TYPE OF FE EA LOG auro

CONTROL NO. 8569 7 REGION III

CHECK NUMBER

AMOUNT AECEIVED

#### ITEM #3

RE: NRC License #21-20416-01

The purposes of this application are as follows:

1) We wish to delete the 5210 Lapeer Road, Burton, Michigan location from the license. All materials at this location have been transferred to the 5200 Lapeer Road, Burton, Michigan facility of the same license. A close-out survey of the facility was performed, and the results are enclosed for review.

The close-out survey information is being submitted in response to your letter dated April 15, 1988, which was enclosed with Amendment No. 11.

2) We wish to add two new facilities to the license as sites of use. One facility is located at 10951 Farmington Road, Livonia, Michigan. The other facility is located at 15115 Northline Road, Southgate, Michigan. A room diagram and an equipment list are attached for each location.

## CLOSE-OUT SURVEY

Basha, M.D. Diagnostics 5210 Lapeer Road Lapeer, Michigan 48509

Date Performed: June 15, 1988

Person Performing Survey: Colleen Brady, Consultant

Instruments Used: Bicron Surveyor 2000 S/N A693L

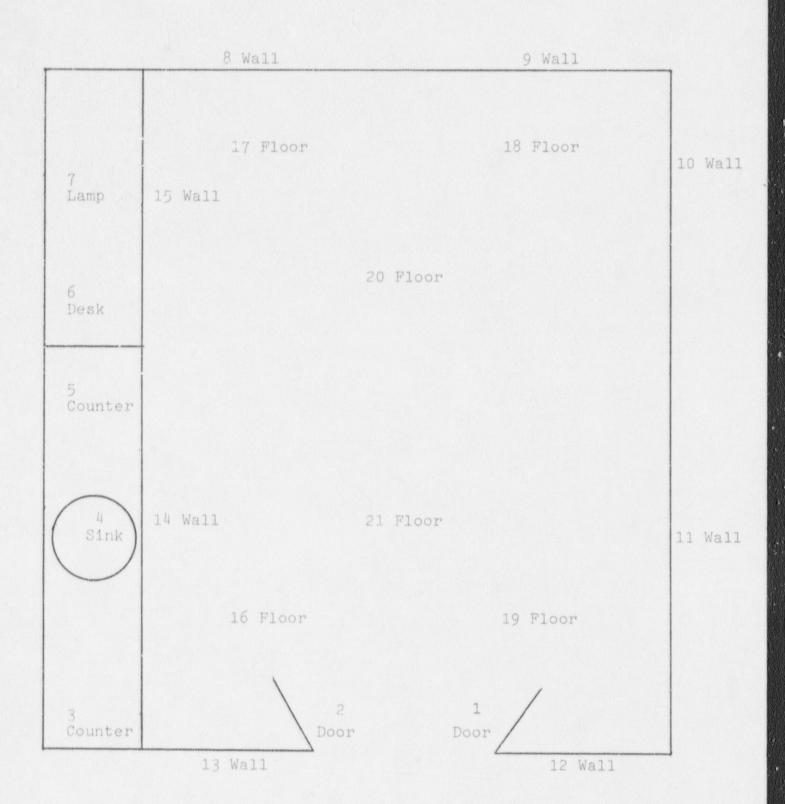
Spectroscaler 4 S/N 20558

Survey Instrument Calibration Date: February 18, 1988

Background Readings: .01 mR/hr - 89 dpm

Survey corresponds with the enclosed room diagram:

	mR/hr	Dpm
1	.01	0
2	.01	24
	.01	19
4	.01	42
5	.01	29
6	.01	29
7	.01	31
3 4 5 6 7 8	.01	29 31 11 29
9	.01	29
10	.01	24
	.01	32
12	.01	32
11 12 13 14 15	.01	32 32 34 16 26 34
14	.01	16
15	.01	26
16	.01	371
17	.01	10
18	.01	23
19	.01	31
20	.01	19 23 31 26
21	.01	41
See also	* 0.1	4 1



### EQUIPMENT (Proposed list or equivalent)

1. Survey meters

a. Manufacturer's name and model number: Bicron Surveyor

Number of instruments available: 1

Minumum range: 0 mR/hr 0.2 mR/hr

Maximum range: 0 mR/hr 2000 mR/hr

2. Dose calibrator

Manufacturer's name and model number: Capintec CRC-7

Number of instruments available: 1

3. Instruments used for diagnostic procedures

Type of Instrument Manufacturer's Name Model No.

Scintillation Camera Searle

Pho Gamma V

10951 Farmington Road Livonia, MI 48150

> Item #9 1 of 4 pages Prepared 6-24-88

License: #21-20416-01

# (Proposed list or equivalent)

- 1. Survey meters
  - a. Manufacturer's name and model number: Eberline E-520

Number of instruments available:

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Minumum range: 0 mR/hr 0.2 mR/hr

Maximum range: 0 mR/hr 2000 mR/hr

2. Dose calibrator

Manufacturer's name and model number: Capintec CRC-5

Number of instruments available: 1

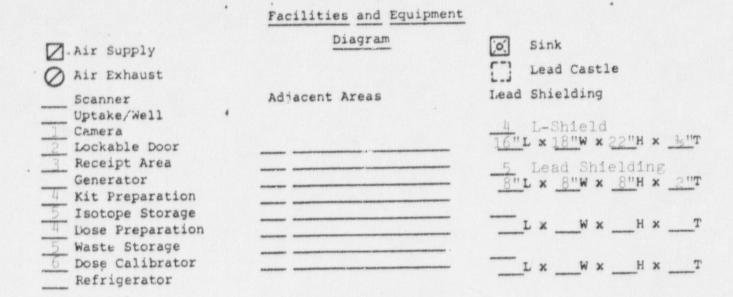
3. Instruments used for diagnostic procedures

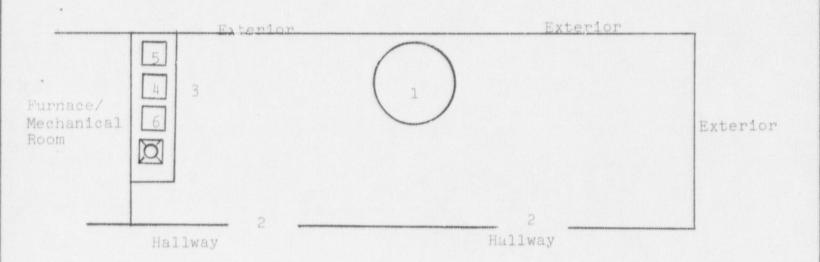
Type of Instrument Manufacturer's Name Model No.

Scintillation Camera Searle

LFOV

15115 Northline Road Southgate, Michigan 48195





10951 Farmington Road Livonia, MI 48150 ATT 9.1 3 of 4 pages Prepared 6-24-88 License #21-20416-01

Scale: 1"=4'

Facilities and Equipment Diagram Sink Air Supply Lead Castle Air Exhaust Lead Shielding Adjacent Areas Scanner Uptake/Well 4 L-Shield 16"L x 18"W x 22"H x ½" T Camera Lockable Door Receipt Area 5 Lead Shielding Generator 8"L x 8"W x 8"H x 2" T Kit Preparation Isotope Storage Lx Wx Hx T 4 Dose Preparation Waste Storage Dose Calibrator Lx Wx Hx T Refrigerator Hallway Hallway X-Ray Room Patient Waiting Room Imaging Room Billing/Reception Area of

Adjacent Office

15115 Northline Road Southgate, MI 48195

> ATT 9.1 4 of 4 pages Prepared 6-24-88 License #21-20416-01 Scale: 1"-3'