

APPLICATION FOR MATERIAL LICENSE

SECTION COPY

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.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
631 PARK AVENUE  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
811 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

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 JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A. NEW LICENSE  
☐ B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_  
☒ C. RENEWAL OF LICENSE NUMBER 37-07739-04

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

St. Francis Hospital  
1000 Mercer Street  
New Castle, PA 16101

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

Same

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

E. DeWitt Liles

TELEPHONE NUMBER

(216) 641-5799

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITY

8801280283 860113  
REG1 LIC30  
37-07739-04 PDR

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY AMOUNT ENCLOSED \$

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 BELIEF.

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.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

Joseph Noviello

TITLE

President/CEO

DATE

3/27/85

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS

<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	>\$10M

b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☐ YES

☐ NO

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVED BY

REN

Apr-17

7A

No refund due - 108

[Signature]

AMOUNT RECEIVED

CHECK NUMBER

03599

DATE

4/5/85

MAR 29 1985

## 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 NRC Form 313. 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, 32, 33, 34, 35 and 40 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 (a) provided to State health departments for their information and use; and (b) provided 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 an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
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. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission  
Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

Item 5, NRC Form 313 (1-84)

Sealed source, mass number	Cobalt 60
Manufacturer	T.E.M.
Model Number	Stabilatron
Maximum Activity, each source	4000 curies
Number of sources	2
Source Manufacturer, Model #	Gamma Industries - Model TS-101 or Neutron Products NPI-20-2100W

Item 6, NRC Form 313 (1-84)

Use: Human use only

Item 7, NRC Form 313 (1-84)

Radiation Safety Officer, Dean D. Rombach

Refer to Item 11

Item 8, NRC Form 313 (1-84)  
Item 18, License Guide

Instructions to personnel shall be as described in Appendix H  
of the License Guide.

Item 9, NRC Form 313 (1-84)  
(Item 14, License Guide)

Facilities and equipment are not required per license guide for  
Renewal Application. This item is described in License Application  
number 37-07739-04.

Item 10, NRC Form 313 (1-84)  
Item 21, License Guide

ALARA Program shall be the Model Program Appendix I of the License Guide.

Item 11, NRC Form 313 (1-84)

This item is not applicable for renewal of a license per License Guide.

Item 10, License Guide, Medical Isotope Committee

The Medical Isotope Committee's responsibilities and duties, frequency of meetings and the names and specialties of its members is provided in the License Renewal Application Number 37-07739-01 (Amendment 33).

Item 9, License Guide

Personnel monitor equipment used are film badges provided by R.S. Landauer Jr. and Company. The badges are changed monthly.

Item 11, License Guide

a. Authorized users are:

John A. Parsons, M.D., authorized under license number 37-07739-04 (Amendment -2).

Melvin Deutsch, M. D., authorized under license number 37-07739-04 (Amendment -2).

b. Radiation Safety Officer is:

Dean D. Rombach, his training and experience is given in License Application number 37-07739-01 in which he is designated as the Radiation Safety Officer.

Item 17, License Guide, Operating and Emergency Procedures

1. Operating Procedures

A. Safety Device Checks

Safety devices shall be checked periodically to insure they are working properly. The timer, door interlocks, safety switches, beam collimators and the source wheel movement shall be formally check during the monthly spot check.

The warning lights outside the door and at the room monitor shall be checked weekly. The door interlocks and safety shut-off interlocks shall be checked bi-monthly.

A log containing procedures for checks and a check list/recording system for recording the date of safety checks and the name of the person performing the check.

In the event, any one of the safety interlocks fails, the other interlocks shall be checked daily until the malfunctioning interlock is repaired or replaced. All operation of the equipment in the event of failure of an interlock shall be adv ed of the problem.

If all radiation beam on warning devices have failed, the unit shall be shut-off until a radiation monitor or one of the warning lights is working.

B. Personnel Dosimetry

Film badges shall be worn in the teletherapy area in the manner currently recommended by the Radiation Safety Officer or the Radiation Safety Committee for consistency around physician and technical staff procedures. In the event of suspected or expected overexposure by current reportable guide lines, the badge shall be replaced and processed as soon as possible. Full disclosure of the event shall be made as soon as possible to the Radiation Safety Officer for action. Film badges are stored in the technicians' lockers or appropriately secured in the offices of the staff members.

C. Procedures for Securing Teletherapy Equipment

The Cobalt Unit shall be secured by storing the cobalt unit key and by locking the entrance to the cobalt treatment area when the unit is unattended. This procedure restricts access to the treatment area.

D. Instrument Calibration

Calibration shall be done by Nuclear Medicine Associates under license number 37-07739-01. Survey meters transferred to the outside service group shall have the probe secured to the body and wrapped with shock absorbing material to prevent damage.

E. Full Calibration of Teletherapy Unit

Full calibration of the Teletherapy Unit shall be performed by Nuclear Medicine Associates under their license number 1672-01.

F. Monthly Spot Check Measurement of Teletherapy Unit

Spot checks shall be performed per CFR 35-22 requirements. At least timer checks measurements 5 output measurements and an alignment film shall be forwarded each month within one day of measurements. Assessment of the results shall be made by a qualified expert within 15 days of the measurements. Timer measurements shall be performed using a recorded set time and the measured beam on time. The film shall be marked on a redi-pack film for a standard field size and skin source distance. The collimator measured field size shall be recorded. A good image quality radiation image shall be made using a radiotherapy redi-pack film. A radiation chamber such as the one presently used shall be calibrated by use of the full calibration chamber of Nuclear Medicine Associates at least once a year. This intercomparison shall be performed as described in the annual calibration report. The intercomparison factor shall be used with the timer corrected average of five hospital chamber measurements to generate the spot check output for the month. If the percent ratio of the spot check output to the mathematically decayed



annual calibration output exceeds  $100\% \pm 5\%$ , then a recalibration of the unit shall be performed.

At present, the hospital uses a Nuclear Medicine Associates Model 05-596 system set a range 100 with the diode detector set at 60 cm on the table top with a 10 x 10 cm field.

G. Leak Testing

Leak testing shall be performed by Nuclear Medicine Associates under license number 1672-01.

H. Record Keeping

Record keeping related to the operation, testing of safety devices and calibration reports shall be maintained at the cobalt console area. All other records related to this license shall be maintained according to the related regulatory requirement and according to procedures described in this license as part of the Radiation Safety Officer's Records.

I. Emergency Procedures

The emergency procedures shall be posted at the cobalt unit console and maintained by the Radiation Safety Officer's records. A copy of the present procedure is provided in License Application Amendment #3 to license number 37-07739-04. Practice runs of the emergency procedures shall be performed and recorded semi-annually by the operators of the cobalt unit.



Item 18, License Guide, Instruction to Personnel

The training program for personnel shall be the instruction of Personnel

Appendix H.

Item 18  
March 27, 1985

Item 19, License Guide

Leak tests shall be performed by Nuclear Medicine Associates,  
9700 Garfield Blvd., Garfield Heights, Ohio 44125 per license  
number 1672-01.

Item 19  
March 27, 1985

Item 21, License Guide, ALARA Program

The program for radiation protection shall be the ALARA Program of Appendix I of the License Guide.

Item 21  
March 27, 1985

X

BETWEEN: William G. Miller, Chief  
License Fee Management Branch  
Office of Administration

John E. Glenn, Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

*Name Change*

LICENSE FEE TRANSMITTAL

A. REGION 1

1. APPLICATION ATTACHED

Applicant/Licensee: St Francis Hospital ~~of New Castle~~

Application Dated: 3/27/85

Control No.: 03599

License No.: 37-07739-04

2. FEE ATTACHED

Amount: \$350.00

Check No.: 800065/003205

3. COMMENTS

Signed Brenda Platch

Date 4/30/85

*4/30/85*

*02300*

B. LICENSE FEE MANAGEMENT BRANCH

*7A*

1. Fee Category and Amount: 7A \$350

2. Correct Fee Paid. Application may be processed for:

Amendment                     

Renewal ✓

License                     

Signed Frances Brown

Date 4/5/85

*4/8/85*