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U.S. ATOMIC ENERGY COMM.  
REGULATORY  
MAIL & RECORDS SECTION

Medtronic, Inc.

3055 OLD HIGHWAY EIGHT, MINNEAPOLIS, MINNESOTA 55418 U.S.A.

TELEPHONE NUMBER—(612) 781-6081

CABLE ADDRESS—MEDTRONIC

TELEX NUMBER—29-5307

Directorate of Licensing  
United States Atomic Energy Commission  
Washington, D.C.

Subject: Amendment to Medtronic's Special Nuclear Materials  
license SNM-1156 and by-products license 22-13456-01.

Dear Sir:

Medtronic, Inc. herewith applies for amendment to licenses  
SNM-1156 and 22-13456-01 to include possession and use of  
radioactive materials at its animal research facility at the  
following address:

1500 Northdale Boulevard Northwest  
Minneapolis, MN 55433  
Telephone: (612) 755-7171.

Medtronic is currently licensed to possess up to 50 grams of  
Plutonium-238 and 150 sources of Promethium-147 as sealed  
sources for the testing, development, and manufacture of  
radioisotope-fueled implantable cardiac pacemakers at its  
St. Anthony and Rice Creek facilities. This application  
requests license to perform non-destructive testing of these  
power supplies in the Coon Rapids research facility. These  
tests will be limited to short-and long-term implantations  
in animals. Control of the sealed sources at the Coon Rapids  
Animal Research facility will consist of the entire facility  
as the storage area. The research facility is locked when  
not in use and is under 24-hour surveillance. Sealed sources  
prior to implantation in research animals are stored in a  
locked storage area designated as A in the floor plan diagram.  
Fire protection is provided by the Coon Rapids Fire Department  
located less than 2 miles from the research facility. Personnel  
working regularly in the areas of the research facility where  
non-implanted sources are stored, during the actual implanta-  
tion procedure in research animals, and during the daily

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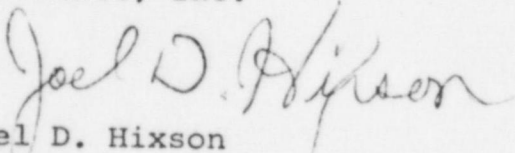
monitoring and care of research animals which have implanted sealed sources will wear personnel monitoring badges as specified in our present licenses. The use of these sources at this facility will be under the control and supervision of the Medtronic Safety Radiation Committee. At no time will any tests be implemented which would in any way compromise the integrity of containment of the sealed sources.

Implantation of sealed sources in research animals will consist of periods varying from 1 to 7 years. Following the termination of such studies research animals will be euthanized and the sealed sources will be removed and disposed of in accordance with the conditions of our present licenses.

The maximum number of sealed sources maintained at the animal research facility would not exceed 25 sources with Pu-238 as the principle isotope; no single source to contain more than 1 gram of Pu-238 and 25 sources of Promethium-147 as sealed sources. Testing and monitoring of the sealed sources for leakage will be conducted as specified by our present licenses. Licenses for the possession and use at the animal research facility should be valid for seven years from the time of issue.

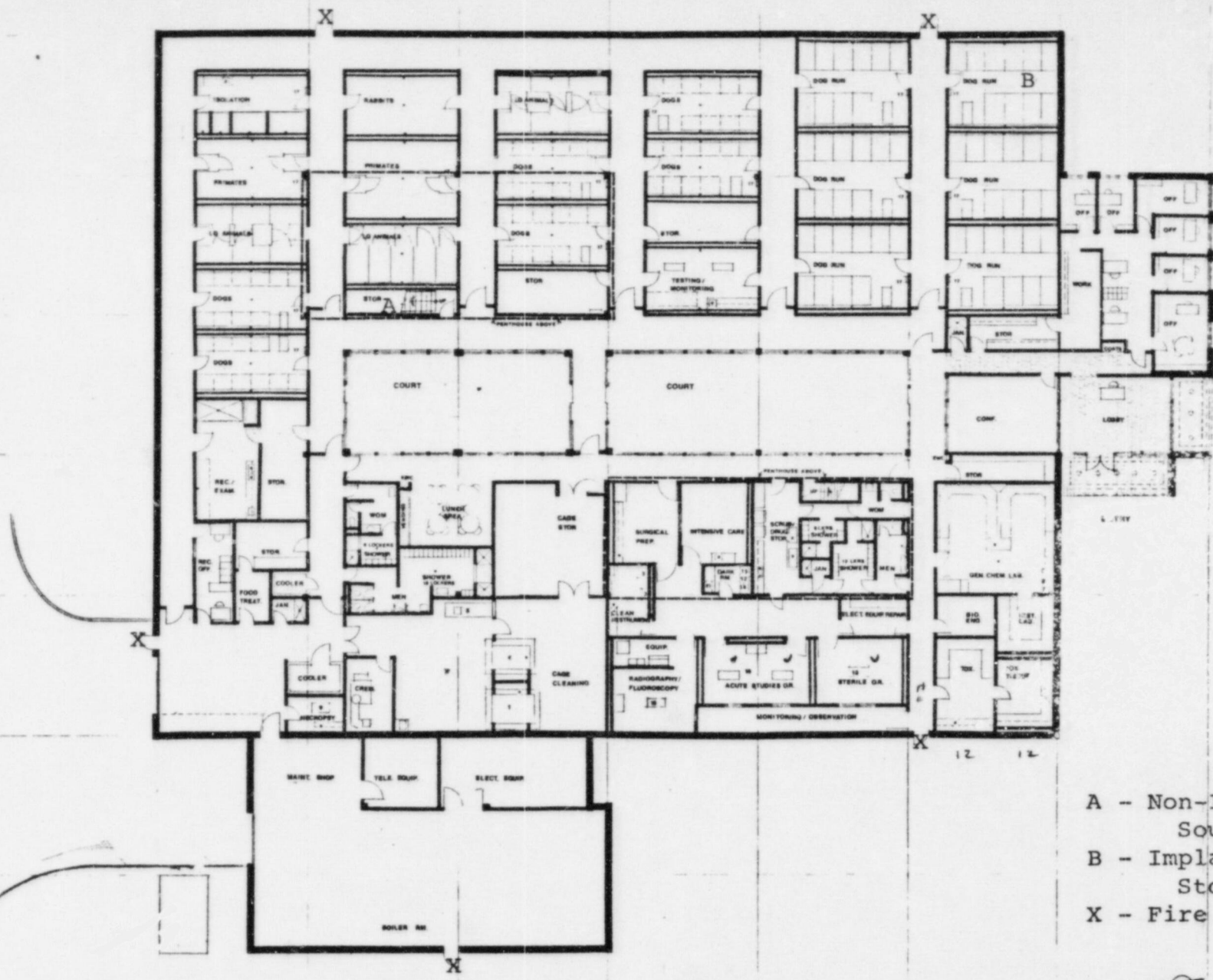
Sincerely,

MEDTRONIC, INC.



Joel D. Hixson  
Radiation Safety Officer

JDH/JEJ



- A - Non-Implanted Source Storage
- B - Implanted Source Storage
- X - Fire Doors



11/8/71

**MEDTRONIC INC.**

**ANIMAL RESEARCH FACILITY  
COON RAPIDS MINNESOTA**

