

### APPLICATION FOR MATERIAL LICENSE

**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 HAMPSHIRE, 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  
795 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  
611 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 \_\_\_\_\_

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

United Power Association  
17845 U.S. Highway 10  
Elk River, MN 55330-0800

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

Elk River Station  
17845 U.S. Highway 10  
Elk River, MN 55330-0800

9001240430 890515  
REG3 LIC30  
22-26048-01 PDR

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

Dan McConnon, Manager, Environmental and Lands

**TELEPHONE NUMBER**

612/441-3121, Ext.336

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. FACILITIES AND EQUIPMENT.**

**10. RADIATION SAFETY PROGRAM.**

**11. WASTE MANAGEMENT.**

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

FEE CATEGORY 3P AMOUNT ENCLOSED \$ 230.00

**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**

**TITLE**

**DATE**

*Dan McConnon*

Dan McConnon

Manager, Environmental and Lands

4-20-89

**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**

APP

APP

3P

CONTROL NO. 87283

**AMOUNT RECEIVED**

**CHECK NUMBER**

\$ 230

235895

RECEIVED

APR 24 1989

REGION III

**APPROVED BY**

CP

**DATE**

4/28/89

APR 24 1989

## 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

Application for Material License  
United Power Association

Item 5

- A. Cs 137.
- B. Sealed Source.
- C. 100 mCi. For possession and use in a Kay-Ray device, Level Measurement System Model 4760, which has been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the Nuclear Regulatory Commission.

Item 6

The purpose of the source will be to measure fuel level in a surge bin.

Item 7

The individual responsible for the radiation safety program will be Dan McConnon. His experience and training are as follows:

EXPERIENCE

1974 - Present	Manager of UPA's Environmental and Lands Division responsible for compliance with federal, state and local environmental regulations and licensing requirements, rights-of-way acquisition and land use activities.
1971 - 1974	Director of Radiation Safety and Environmental Affairs for UPA responsible for radiation protection and industrial safety during dismantling of the Elk River Reactor.
1967 - 1971	Senior Research Scientist at Battelle-Northwest Laboratories engaged in basic research and development on the detection and metabolism of radionuclides in man.
1964 - 1967	Supervisor of Radiation Monitoring for Battelle-Northwest Laboratories responsible for administering radiation protection programs at various nuclear research facilities.
1962 - 1964	Specialist in Radiation Monitoring responsible for providing technical assistance and consultation on radiation protection at various nuclear research facilities.
1960 - 1962	Engineer in Environmental Monitoring participating in the environmental monitoring and evaluation program at the Hanford Nuclear complex.

## EDUCATION

AB. biology, St. Peter's College, 1959.  
MS, radiation biology, University of Rochester, 1960.  
Westinghouse International School for Environmental Management,  
1978.  
Minnesota Management Institute, University of Minnesota, Graduate  
School of Business Administration, 1980.

## REGISTRATION

Certified by the American Board of Health Physics, 1966.

At the time of start-up, a representative of the manufacturer will provide any specific training necessary for the safe operation of the system. Radiation protection procedures have previously been devised and submitted. As the scope of this license does not include handling of the device containing radioactive materials, further formal training is not indicated.

### Item 8

All employees who will operate the device will attend the training and instructions given at the time of installation as referenced in Item 7.

### Item 9

- A. The enclosed sketch gives the specifics of the installation. All equipment will be located and mounted in accordance with the recommendations of the manufacturer.
- B. The gauge will not be located in an area of elevated temperature or corrosive atmosphere. Ambient temperatures will not exceed 120° F. The gauge will be installed near a vibratory conveyor which may result in unusual vibration to the unit.
- C. Initial radiation survey, servicing, maintenance, relocation and repair of the source housing will be performed by Kay-Ray, Inc.
- D. The procedure to be followed in the event of damage to the source-housing is as follows:

#### EMERGENCY PROCEDURE TO BE FOLLOWED AFTER DAMAGE TO KAY-RAY SOURCE HOUSING

1. This procedure applies to all instances where damage is incurred by the source holder due to such action as fire, etc.
2. Immediately rope off the area around the source holder a distance of 8-1/2 feet around the source.
3. Inform Plant Radiation Protection Officer or person responsible for the use of the source as to the situation.
4. Inform by phone or telegram the proper Regional NRC Office of the accident.

5. Notify Kay-Ray at 800/323-7594 or 312/520-1100 if their assistance is desired.
6. Limit access to source housing until a radiation survey and source wipe can be performed by a qualified personnel or a representative.

Item 10

10.1 Performance of Service Operations by Others

All services such as installation, initial radiation survey, maintenance, leak testing, device relocation or removal, etc. will be performed by Kay-Ray, Inc., 390 Holbrook Drive, Wheeling, IL 60090, NRC License No. 12-11184-01.

10.2 Personnel Monitoring Equipment

Personnel monitoring devices are not necessary. For supporting documentation, see the description of the radioactive protection program.

10.3 Radiation Detection Instruments

A calibrated, operable survey meter that can measure at least 1.0 through 200 milliroentgens per hour will be available at the time of installation.

10.4 Leak Testing

Kay Ray will perform the leak testing on the source housing. The leak test used by Kay-Ray is the Kay-Ray, Inc. Model A kit, which has been approved by the NRC for use in the source wiping of Kay-Ray source housings. We wish to have our license worded to allow a three year source wipe interval on the device(s) listed above. An extension has been granted to Kay-Ray allowing a three year interval for source wiping, and we wish to have our license reflect this extended test period.

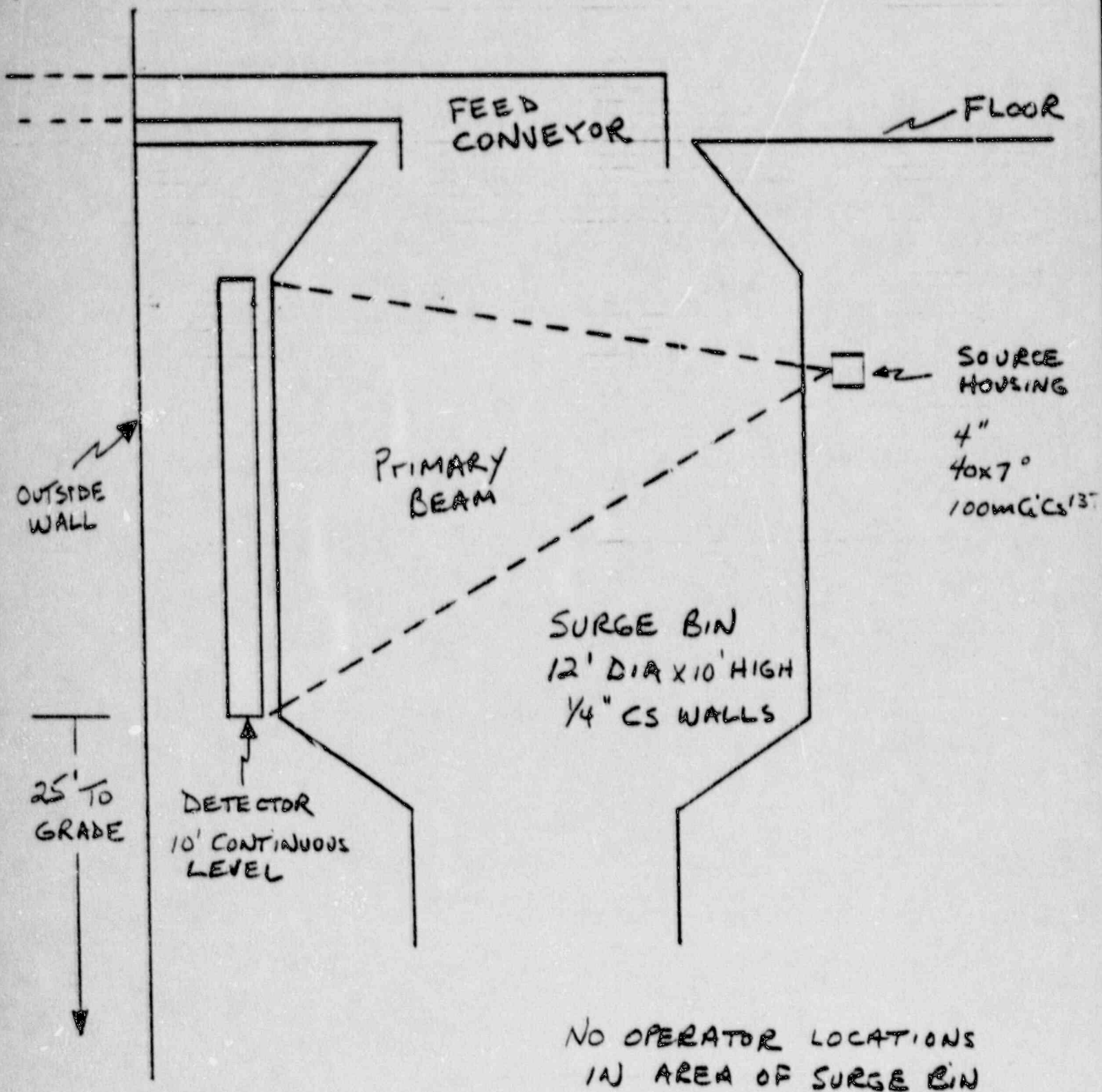
10.5 Lock-Out Procedures

If maintenance is required inside the fuel surge bin, a lock-out procedure will be employed to prevent personnel access within the vessel whenever the source is in the "Measure" of "On" position.

Item 11

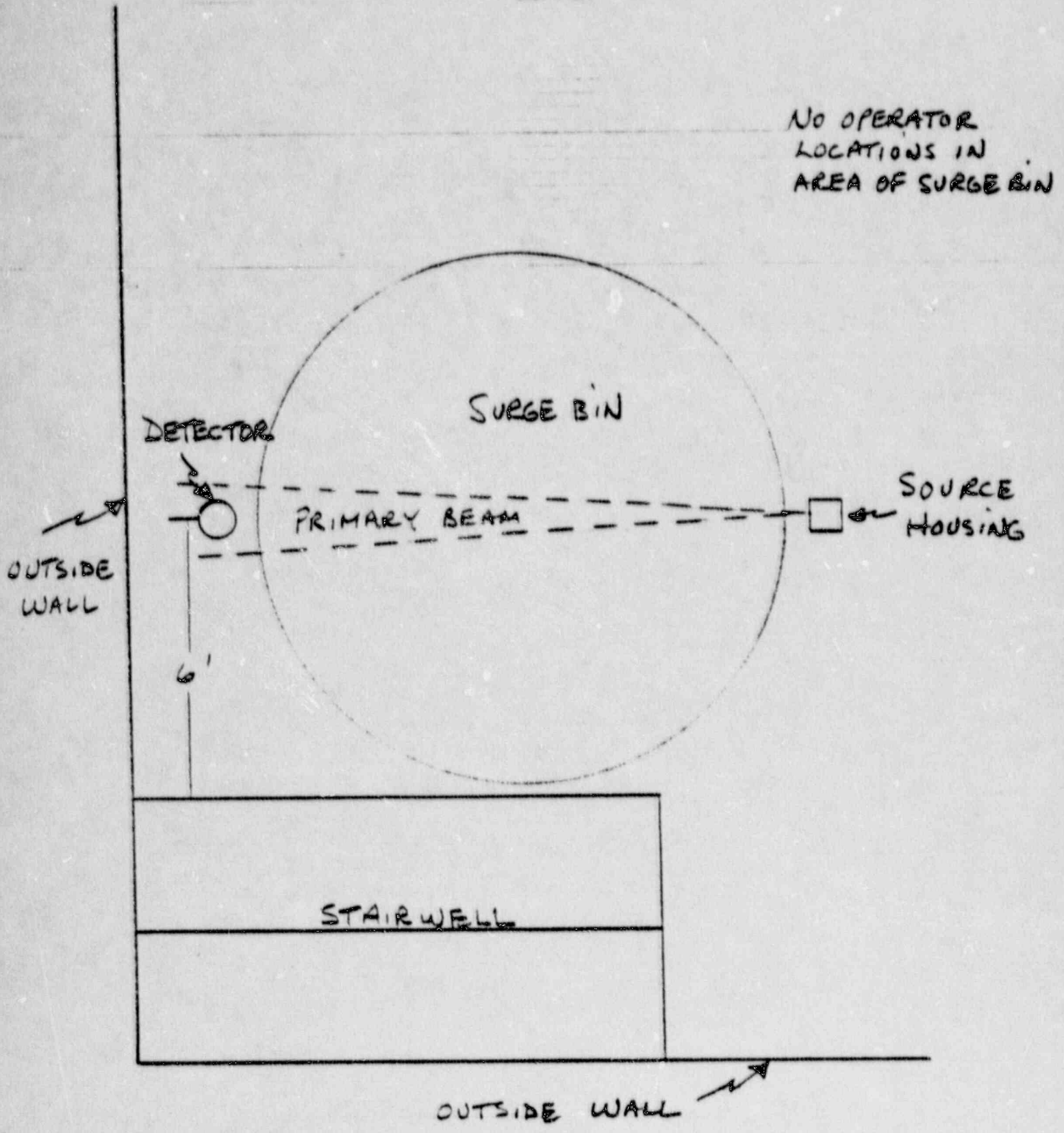
The sealed source and device will be transferred to the supplier for disposal or to an authorized disposal firm.

GAMMA CONTINUOUS LEVEL SYSTEM - SIDE VIEW



CONTROL NO 87283

GAMMA CONTINUOUS LEVEL SYSTEM - TOP VIEW



CONTROL NO. 87283