

AUTHORIZATIONS FOR RADIATION USE

PURPOSE

This procedure provides a standardized format for documenting the evaluation and authorization of new or amended radiation uses by the Radiation Safety Committee (RSC), and for notifying users of their authorizations.

POLICY

Each application for use of any source of ionizing radiation is first reviewed by the Radiation Safety Officer (RSO) to assure that it is complete. If the application is for possession of a generally licensed category of radioactive material, it may be approved by the RSO without review by the RSC. All other applications shall be submitted to the User Authorization Subcommittee of the RSC for evaluation and approval. If the subcommittee does not vote unanimously for approval, the application shall be referred to the main committee (RSC) for resolution. The RSO shall notify the applicant promptly of the action taken by the RSC.

Amendments to existing authorizations are normally approved by the RSO if, in the judgement of the RSO, the amended use is within the intent of the initial authorization. If the requested amendment is for a completely different category of use, i.e. if it requires substantially different training, experience or facilities than those required for the initially approved use, the request shall be referred to the RSC.

EVALUATION OF APPLICATIONS

Evaluations by the RSO and the RSC are intended to:

1. assure that the applicant is competent to use the requested materials safely;
2. assure that the applicant's facilities and equipment are adequate for the proposed work;
3. verify that the work is done with the smallest practical quantities of radioisotopes;

4. assure minimal production and optimum segregation of radioactive wastes;
5. determine appropriate monitoring methods for external or internal radiation exposures.

Initial applications are first reviewed by the RSO, who verifies that they are complete and recommends any conditions for approval as well as the monitoring requirements. When the application is satisfactory, it is submitted to the Subcommittee for review and approval. If unanimously approved by the Subcommittee, the applicant is notified and may begin radiation work immediately. If questions are raised by the subcommittee, the RSO shall attempt to obtain the necessary information to answer the questions. If unanimous approval by the subcommittee is not obtained, the RSO shall refer the application to the main Committee (RSC).

REFERENCE

Utah Division of Radiation Control, *Utah Radiation Control Rules*:

Standards for Protection Against Radiation, R313-15.

General Licenses, R313-21.

Specific Licenses, R313-22.

Medical Use of Radioactive Material, R313-32.

Radiation Safety Requirements for Analytical X-ray Equipment, R313-40.

Radiation Safety Requirements for Particle Accelerators, R313-44.

RPR 43A. AUTHORIZATION FOR RADIATION USE

User No. _____ **Responsible User:** _____ Phone: _____

Department: _____ Mailing Address: _____

Complete Application received (date): _____

Laboratory Evaluation completed (date): _____

Authorized categories of use; approved radioactive materials or radiation generating machines:

Initial monitoring required for the above categories:

Yes No Whole body dosimeter (body badge) [if $\sum\{(mCi/month)*(mrem/hr-mCi @ 1m)\} >3$]

Yes No Extremity dosimeter (ring badge) [if high-energy beta + gamma emitters > 5 mCi/mo]

Yes No Quarterly thyroid count for iodine

Yes No Quarterly urinalysis for _____

Yes No Monthly urinalysis for _____

Yes No Authorized to purchase _____

Other conditions or comments: _____

Authorization recommended

Approved by the RSO as within the intent of RSC authorization

RSO: _____

Date: _____

RADIATION SAFETY COMMITTEE, USER AUTHORIZATION SUBCOMMITTEE, ACTION:

(Signatures indicate approval; if not approved, attach statement with reasons to be forwarded by the RSO to the applicant.)

Subcommittee Members

Signature

Date

PI
Department
Campus Address

PI #
Date

Authorization to Use Radiation

Dear PI

You are authorized by the Radiation Safety Committee to acquire and use the radioactive materials and radiation generating machines required for the research or clinical use categories listed below and to supervise such use by others.

Listed below are the radionuclides, quantities (millicuries), and physical forms you are authorized to purchase on a single order without notification to, or clearance from, this office. A quantity of zero indicates you are not currently authorized to purchase this radionuclide. Also listed are the radionuclides and the physical form you are allowed to possess in your laboratory(s). Ordering, acquiring larger quantities or other nuclides, or differing physical forms will require prior notification and approval from this office.

Isotope	Purchase Limit	Possession	Form	Isotope	Purchase Limit	Possession	Form
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"Sealed" means any nuclides in sealed source form.

"Microspheres" means any nuclides in microsphere form.

"Purchase" means the amounts an RU may purchase at any one time per day per isotope.

"Possession" means already existing materials, such as legacy material or sealed sources in equipment.

Listed below are the categories for the application of radioactive materials to humans and the use of radiation generating machines on humans for which you are authorized.

Category	Source Type
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Listed below are the non human X-Ray generating machine as listed in your application.

Organization Serial #	Serial Number	Building Name	Building and Room Number
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All radiation use is subject to the conditions stated in your application and the rules and procedures specified by the Committee. You must notify this office promptly of any changes in your radiation use or among personnel for whom you are responsible.

This authorization is valid indefinitely, subject to periodic review and verification of your needs and actual use.

Please do not hesitate to contact this office for assistance on any question or problem related to radiation protection.

Sincerely,

Karen S. Langley, M. S.
Radiation Safety Officer