



Scripps Institution of Oceanography

University of California, San Diego

Isotope Use Committee

Radioactive Material Use Authorization Request

Contact:

Gary Lain

Environmental Health & Safety Specialist

Shipboard Technical Support

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To request radioisotope use on SIO research vessels, please complete this form, scan and submit by e-mail or fax. If faxed, please contact Gary Lain via the email address above for confirmation of receipt.

Requestor Information

Name and title:

E-mail address:

Phone #:

Are you the Authorized User of radioactive material?

Yes

No

If no, enter Authorized User :

Home institution name and address:

List other isotope user names, titles and institutions:

Name, phone number and e-mail address of home institution Radiation Safety Officer:

Licensing. Please have your home institution's Radiation Safety Officer contact Gary Lain regarding radioactive materials licensing requirements for your cruise. Licensing must be approved for cruise to proceed.

Usage Location. Please provide the research vessel name, cruise dates, ports, and cruise area:

Isotope Information. Please provide the following information for the isotope use you are requesting: list each isotope, its activity in millicuries and physical form (liquid, solid, gas, sealed source [ECD, et. al.]) and chemical form (e.g.: sodium bicarbonate). Radiation/X-ray machine users should list make, model and serial number, whether they are operating an open beam X-ray non-remotely. For all sealed sources forward your most recent leak test certification to Gary Lain.

Protocols. Send a copy of your radioisotope use protocols to Gary Lain. Protocols should specify activity amount used per manipulation.

Use and Storage. Describe locations for isotope use and storage in the isotope van, including fume hoods, refrigerations/freezers.

List and describe any equipment used in conjunction with your work, including liquid scintillation counters. Request LSC for sample analysis.

List any radiation monitoring equipment you will be using, including manufacturer, model and calibration date.

Radiation Safety. Describe arrangements for isolation and control of radioisotope, including controlled area boundaries and use of personal protective equipment. Explain weekly radiation contamination surveys and spill clean up procedures.

Explain dosimetry requirements, if any.

Give an estimate of total activity released, if any.

Radioactive waste management. Describe types and quantities of waste generated and request waste containers here. Please request supplies needed for sample packaging and shipment.

Radioisotope shipping and logistics. Please describe your plan for shipping and transfer of radioisotopes both to the vessel. Note that if your cruise loads in San Diego it is possible to ship your isotope to UCSD for transfer to the vessel.

Authorized users training.

UCSD Principal Investigators: list RUA number and expiration date below; also list other users below, including their affiliations.

Non-UCSD Principal Investigators: list all isotope users below and forward radiation safety training certification from the Radiation Safety Officer of your home institution to Gary Lain.

Experience. Describe previous experience using radioactive materials on research vessels. Include isotopes used, activity levels, and other experience such as shipment of radioactive materials, spill clean up an use/trouble shooting liquid scintillation counters.

Certification statement.

It is understood that all users have proper training in handling isotopes and either have experience with isotopic work at sea or will be under the direct supervision of an experienced user. All precautions for handling and disposal of radioactive wastes shall be followed. It is further understood that all isotope work will be confined to an isotope van and that unreported transfer of isotope onto the research vessel itself may result in revocation of user's isotope privileges on SIO vessels. The user is assumed by the signature below to accept responsibility for cleanup of any radioisotope spills on board the vessel, and for the safe and legal use and transport of isotope.

Signature
(e-signature is acceptable)

Title and institution

Approval:

Isotope Use Committee, Chair _____

Radiation Safety Officer, UCSD _____

Ship Operations and Marine Technical Support, Director _____