

**Authorization Request For  
Low-Level Liquid Radioactive Waste Drain Disposal**

Authorized User (print) \_\_\_\_\_

Department \_\_\_\_\_ Box \_\_\_\_\_

Identify *specific* sink/drain for which you are requesting  
*Liquid Radioactive Waste* drain disposal privileges

Room Number/Building \_\_\_\_\_

Physical Location Within Room \_\_\_\_\_

**After reading the following restrictions,  
certify that you agree to comply by signing below.**

1. The discharged material must be readily soluble (or readily dispersible biological material) in water.
2. Quarterly disposal limits must not be exceeded (see list attached).
3. The authorized drain must be posted with a special sticker provided by Radiation Safety.
4. Each disposal must be recorded on the *Quarterly Drain Disposal Log Sheet and Summary* form, provided by Radiation Safety by email each quarter. A summary of quarterly disposals must be submitted electronically to Radiation Safety each quarter upon request.
5. Drain disposal for low-level liquid radioactive waste is intended strictly as a volume reduction method (i.e., high volume/low activity disposal such as rinse water, buffers, etc.).
6. You may not dispose of any form of liquid scintillation media via drain to the sanitary sewer system.
7. All accessible surfaces in the sink must be kept below acceptable levels for removable contamination on lab surfaces ( $< 200$  DPM/100cm<sup>2</sup>).

\_\_\_\_\_  
Authorized User Signature

\_\_\_\_\_  
Date

**Return the completed form to Radiation Safety  
by fax to 362-4776  
or by campus mail to Campus Box 8053**

## GUIDELINES FOR DRAIN DISPOSAL OF LOW LEVEL RADIOACTIVE WASTE

### I. A RESEARCH LABORATORY MAY DISPOSE OF LIQUID RADIOACTIVE WASTE OF VERY LOW CONCENTRATION VIA THE DRAIN IF:

- (1) the material is readily soluble in water,
- (2) the Authorized User responsible for the laboratory has received written drain disposal approval for the sink from Radiation Safety,
- (3) the sink is properly posted for disposal of low level radioactive wastes,
- (4) a record is kept indicating the date and upper estimate of the amount of activity of each radionuclide discharged,
- (5) periodic reports of discharged activity are provided to Radiation Safety when requested, and
- (6) the activity released per quarter does not exceed the following limits:

<u>Radionuclide</u>	<u>Maximum activity to be released <u>per quarter</u> (microcuries)</u>
H-3	750
C-14	150
P-32	150
P-33	150
S-35	150
Cr-51	150
I-125	150
I-131	150
Any other radionuclide unless approved by the RSC	75

### II. IN THE EVENT SINK OR DRAIN MAINTENANCE OR REPAIR IS REQUIRED, LABORATORY STAFF ARE REQUESTED TO DO THE FOLLOWING:

- (1) survey and wipe test all accessible sink, drain, and other plumbing surfaces, including beneath sink inside of cabinet,
- (2) decontaminate all contaminated items identified in step 1 above,
- (3) contact Radiation Safety to ensure above steps will be adequate,
- (4) request needed work through the appropriate plant maintenance group, and,
- (5) provide plumbers with disposable gloves to wear while the work is performed, as an added safeguard.

Revised 02/2014