



# United States Department of the Interior

## U. S. GEOLOGICAL SURVEY

Columbia Environmental Research Center  
4200 New Haven Road  
Columbia, Missouri 65201

July 15, 2010

United States  
Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

Bill Reichhold

As we discussed by telephone, the following information was requested by you to facilitate our request to add Phosphorus-33 to our license. This is in reference to control number 319040.

### Use

The Phosphorus-33 will be used as described in Item 9, Authorized Use, "For use in tracer studies in fish and other aquatic organisms" in our NRC license.

### Form

This letter confirms that the chemical or physical form for the Phosphorus-33 will be "Any", as listed for the other radionuclides used for tracer studies.

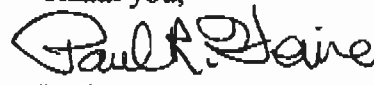
### Maximum Activity

The maximum amount of Phosphorus-33 that CERC would need to possess at any one time under our license would be 5 millicuries.

### User

This letter confirms that the individual using the Phosphorus-33 will use this radionuclide by or under the supervision of, an individual designated by the CERC Radiation Safety Officer, Paul R. Heine, as stated in license condition 11.

If you have any other questions please give me a call at 573-876-1815.

Thank you,  
  
Paul R. Heine



# Fax Cover Sheet

Date: 7/16/10 Number of Pages (including this cover): 2

To: BILL REICHHOLD Organization: NRC

Phone: Fax: 630-515-1078

From: PAUL R. HEINE Organization: CERC

Phone: 573-876-1815 E-mail

### Message:

BILL -

HERE IS THE INFO THAT YOU REQUESTED.

THANKS

PAUL

(THIS REFERS TO CONTROL # 319040)

The USGS serves the Nation by providing reliable scientific information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life.

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