PUBLIC SUBMISSION

As of: October 15, 2008
Received date: Not specified
Status: Pending_Post
Tracking No. 8075d097
Comments Due: October 15, 2008
Submission Type: Web

Docket: NRC-2008-0419
Security and Continued Use of Cesium-137 Chloride Sources and Notice of Public Meeting

Comment On: NRC-2008-0419-0014
Security and Continued Use of Cesium-137 Chloride Sources: Granting Extension of Comment Period

Document: NRC-2008-0419-DRAFT-0064
Comment on FR Doc # E8-22688

Submitter Information

7/31/08
73 FR 44780
66

Name: Edward Srour
Address:
Indianapolis, IN,
Organization: Indiana University

Comment

We use a Cesium irradiator for all of our hematopoietic stem cell research. On average, we use our irradiator once a week. A Cesium irradiator is very precise, provides the required radiation dose cheaply, quickly, and as an instrument, is very easy to maintain and service. Most importantly, in the area of work I am involved with, the majority of the historic data base was generated with Cesium irradiators. Given that different sources of radiation have different biologic effects in experimental animals, changing the radiation source and/or not having Cesium as the source of radiation for experimental hematology research will require the generation of a totally new data base for the entire scientific community. This will undoubtedly take several years. In addition, different investigators will end up using different sources of radiation instead of Cesium thus generating smaller, and perhaps heterogeneous and contradicting new data bases. when all of these issues are taken together, the elimination of CsCl sources for this type of work is going to cost valuable time, a large amount of money, and a huge number of experimental animals before we are back to where we
are today in our understanding of how to examine hematopoietic stem cells for their life-saving properties.

Edward F. Srour, Ph.D.
Robert J. and Annie S. Rohn Professor of Leukemia Research
Professor of Medicine, Pediatrics, Micro/Immunol.
Director, Flow Cytometry Resource Facility
Indiana University School of Medicine
Cancer Research Institute

E-RIDS = ADM-03
Add = J. Jankovich (SPS2)

SUNSI Review Complete
Template = ADM-013

1044 West Walnut Street. R4-202
Indianapolis, IN 46202-5121

Phone: 317-274-0343
317-274-3589
Fax: 317-274-0396
email: esrour@iupui.edu