



Southern Illinois
University at Carbondale
Carbondale, Illinois 62901
Radiological Control Office

October 16, 1979

A. B. Davis, Chief
Fuel Facility & Materials Safety Branch
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Re: License No. 12-01109-08

Dear Sir:

In response to your letter of October 1, 1979 concerning Item 1 of Appendix A, we have taken the following actions:

- 1) Find enclosed a letter to all iodine users requiring urine samples for handling activities in excess of 1.0 mCi.
- 2) The Radiation Safety Officer will document and record all bioassay procedures.
- 3) Since our iodinations take place on a very irregular schedule, no direct action can be taken until we receive an iodine shipment containing iodination grade iodine. At the time of the next receipt of iodine, actions 1) and 2) will be implemented, bringing us into full compliance.

Our bioassay program for ^{125}I is based on Regulatory Guide 8.20, (see our letter dated October 4, 1978, Supplement #1, Item #12).
At the present time no research is being done which utilizes ^{131}I .

Since the date of our inspection, we have received Regulatory Guide 8.20 Revision 1, dated September 1979. This Guide increases the activity of volatile or dispersible iodine for use within an adequate fume hood to 10.0 mCi before requiring bioassay procedures. The Radiological Control Committee authorizes iodination procedures to be done in only two fume hoods, both of which meet all requirements.

2030 056

OCT 19 1979

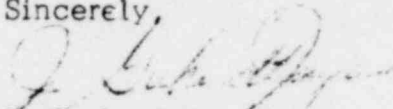
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A. B. Davis
Nuclear Regulatory Commission

2.

We therefore conclude that in the future bioassays will not be required of our personnel utilizing activities less than 10.0 mCi of ^{125}I . Our standard procedures to date are for acquiring the iodine in 5.0 mCi lots and actually using less than 2.0 mCi in iodination procedures.

Sincerely,


J. Gerhardt Jaspers
Radiation Safety Officer

Enclosure
cc: Dr. John C. Guyon

2030 057



Southern Illinois
University at Carbondale
Carbondale, Illinois 62901
Radiological Control
October 5, 1979

TO: All Users of ^{125}I and ^{131}I

FROM: J. Gerhardt Jaspers

SUBJECT: Bioassay Requirements

Commencing Immediately, all personnel involved in direct handling of iodine in amounts of 1.0 mCi or more are required to provide a urine sample to the R.S.O. The sample shall not be less than 20 ml in volume, collected at least 6 hours post experiment and not more than 72 hours later. Samples may be collected in either glass or plastic containers. This procedure is mandated by conditions of our N.R.C. License.

CC: Dr. John C. Guyon.

2030 058



Southern Illinois
University at Carbondale
Carbondale, Illinois 62901
Radiological Control Office

October 16, 1979

A. B. Davis, Chief
Fuel Facility & Materials Safety Branch
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Re: License No. 12-01109-08

Dear Sir:

In response to your letter of October 1, 1979 concerning Item 1 of Appendix A, we have taken the following actions:

- 1) Find enclosed a letter to all iodine users requiring urine samples for handling activities in excess of 1.0 mCi.
- 2) The Radiation Safety Officer will document and record all bioassay procedures.
- 3) Since our iodinations take place on a very irregular schedule, no direct action can be taken until we receive an iodine shipment containing iodination grade iodine. At the time of the next receipt of iodine, actions 1) and 2) will be implemented, bringing us into full compliance.

Our bioassay program for ^{125}I is based on Regulatory Guide 8.20, (see our letter dated October 4, 1978, Supplement #1, Item #12).
At the present time no research is being done which utilizes ^{131}I .

Since the date of our inspection, we have received Regulatory Guide 8.20 Revision 1, dated September 1979. This Guide increases the activity of volatile or dispersible iodine for use within an adequate fume hood to 10.0 mCi before requiring bioassay procedures. The Radiological Control Committee authorizes iodination procedures to be done in only two fume hoods, both of which meet all requirements.

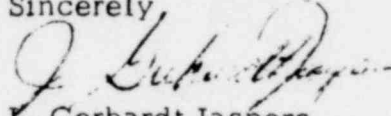
2030 059

A. B. Davis
Nuclear Regulatory Commission

2.

We therefore conclude that in the future bioassays will not be required of our personnel utilizing activities less than 10.0 mCi of ^{125}I . Our standard procedures to date are for acquiring the iodine in 5.0 mCi lots and actually using less than 2.0 mCi in iodination procedures.

Sincerely,



J. Gerhardt Jaspers
Radiation Safety Officer

Enclosure
cc: Dr. John C. Guyon

2030 060

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Southern Illinois
University at Carbondale
Carbondale, Illinois 62901
Radiological Control
October 5, 1979

TO: All Users of ^{125}I and ^{131}I

FROM: J. Gerhardt Jaspers

SUBJECT: Bioassay Requirements

Commencing Immediately, all personnel involved in direct handling of iodine in amounts of 1.0 mCi or more are required to provide a urine sample to the R.S.O. The sample shall not be less than 20 ml in volume, collected at least 6 hours post experiment and not more than 72 hours later. Samples may be collected in either glass or plastic containers. This procedure is mandated by conditions of our N.R.C. License.

CC: Dr. John C. Guyon.

2030 061