

APPENDIX A

NOTICE OF VIOLATION

University of Chicago

License No. 12-00509-03

Based on the inspection conducted on May 7, 1979, it appears that certain of your activities were in noncompliance with NRC requirements, as noted below. Items 1 and 2 are infractions, and item 3 is a deficiency.

1. 10 CFR 20.103(a)(1) requires that you possess, use or transfer licensed material in such a manner as not to cause any individual in a restricted area to be exposed to radioactive material such that the uptake by any organ from either inhalation or absorption or both routes of intake in any calendar quarter does not exceed that which would result from inhaling such radioactive material for 40 hours per week for 13 weeks at uniform concentrations specified in 10 CFR 20, Appendix B, Table I, Column 1. Footnote 4 to Section 10 CFR 20.103 provides that intakes by ingestion or injection be included in determining whether the above intake has been exceeded.

Contrary to this requirement, your bioassay measurements show one individual working in a restricted area during the second calendar quarter of 1979 had a thyroid uptake of about 1.8 microcuries, a quantity in excess of the limits specified above.

2. 10 CFR 20.103(a)(3) requires that to determine compliance with the requirements of 10 CFR 20.103 you use suitable measurements of concentrations of radioactive materials in air for detecting and evaluating airborne radioactivity in restricted areas and in addition, as appropriate, shall use measurements of radioactivity in the body, measurements of radioactivity excreted from the body, or any combination of such measurements as may be necessary for timely detection and assessment of individual intakes of radioactivity by exposed individuals.

Contrary to this requirement, your records and statements of your employees show no measurement of airborne concentration of radioactive materials were made between October 23, 1978, and April 24, 1979, during iodinations nor were measurement of radioactivity in the body made between December 20, 1978, and April 27, 1979, for an individual performing iodinations with iodine-125 in Laboratory P-616 of Billings Hospital sufficient

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to determine compliance with the uptake limits of 10 CFR 20.103(a)(3) and 10 CFR 20.103(b)(2) for the first calendar quarter of 1979.

This is a repeat item of noncompliance.

3. 10 CFR 20.103(b)(2) requires that whenever the intake of radioactive material by any individual exceeds that which would result from inhalation of such material for forty hours at the uniform concentrations specified in 10 CFR 20, Appendix B, Table 1, Column 1, you make such evaluations and take such actions as are necessary to assure against recurrence. 10 CFR 20.103(b)(2) further requires that you maintain records of such occurrences, evaluations, and actions taken in a clear and readily identifiable form suitable for summary review and evaluation.

Contrary to this requirement, your records and statements of your employees show you failed to maintain a record in clear and readily identifiable form suitable for summary review and evaluation of actions taken to assure against recurrence of an uptake of iodine-125 in excess of the above forty hour limit that occurred on April 24, 1979, in Laboratory P-616 of Billings Hospital.

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