



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
631 PARK AVENUE
KING OF PRUSSIA, PENNSYLVANIA 19406

2 APR 1981

Docket No. 30-4762

Amicon Corporation
ATTN: Mr. N. Jones
President
25 Hartwell Avenue
Lexington, Massachusetts 02173

Gentlemen:

Subject: Inspection 30-4762/81-01

This refers to the routine safety inspection conducted by Miss J. McGinness of this office on March 11, 1981 of activities authorized by NRC License No. 20-13794-01 and to the discussions of our findings held by Miss McGinness with yourself and Mr. A. Pitt of your staff at the conclusion of the inspection.

The inspection was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, measurements made by the inspector, and observations by the inspector.

In addition, our inspector took smear samples in your laboratory where iodinations are performed which were analyzed in our Regional Office Laboratory in King of Prussia, Pennsylvania. The basic purpose of these independent measurements is to verify your capability for analyzing removable contamination in your preparation and storage areas. The results of our analyses were in agreement with your results and indicate levels were below minimum detectable activities.

Within the scope of this inspection, no items of noncompliance were observed. However, one activity appears to be a Deviation from accepted dosimetry practices. In this regard, you failed to adequately calibrate the efficiency of the instruments being used for the determination of iodine-125 in the thyroid of workers doing iodinations. Specifically, you failed to calibrate your thyroid monitor by using a known source placed in a phantom simulating the geometry and density of the neck of a "Standard Man", as documented in American National Standards Institute Publication 1144.3-1973, "Thyroid Radioiodine Uptake Measurement Using a Neck Phantom". Please respond with your comments concerning this Deviation.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and your reply will be placed in the Public Document Room.

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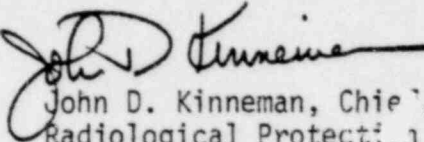
Amicon Corporation

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Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

A handwritten signature in cursive script, appearing to read "John D. Kinneman". The signature is written in dark ink and is positioned above the typed name.

John D. Kinneman, Chief, Materials
Radiological Protection Section,
Technical Inspection Branch