

P. M. Wilson
6000 Wilson
70

FEB 2 1959

22A:109

**National Research Corporation
Physics Department
78 Memorial Drive
Cambridge, Massachusetts**

Attention: Business Manager

Gentlemen:

This refers to the inspection conducted on July 10, 1958 of your activities licensed under AEC Byproduct Material License Nos. 20-1443-1 and -3.

It appears that certain of your activities were not conducted in full compliance with a license condition and the requirements of the AEC's "Standards for Protection Against Radiation," Part 20, Title 10, Code of Federal Regulations, in that:

1. One of your instruments containing about one curie of Hydrogen 3 was demonstrated in Pittsburgh, Pennsylvania, on one occasion. This constituted noncompliance with License No. 20-1443-3, Condition No. 11, Authorized place of use.
2. Neither the storage room nor the storage cabinet within this room in which curie quantities of Hydrogen 3 were stored was posted as required by Section 20.203(a)(1), Caution signs, labels and signals.
3. The boxes containing about 250 millicuries of Hydrogen 3 and several of the containers holding quantities of Hydrogen 3 in excess of 250 microcuries each were not labeled as required by Section 20.203(f)(1) and (f)(4), Caution signs, labels and signals. Some of the Hydrogen 3 containers were labeled as required by Section

ITEM # 3

A/3

(2)

National Research Corp.

FEB 2 1959

20.203(1)(1): but not in accordance with Section 20.203(1)(2), while others consisted of the information required by this section of the regulation.

These requirements were brought to your attention by the Inspector, and you agreed to prepare the applications. Should you have any questions during their review, please feel free to write the Office and labeling will be verified during the next inspection at your facilities.

There were no other items of noncompliance noted as a result of this visit.

With regard to the delimiting described in Item 1, you may desire to submit an application for license amendment authorizing you to manufacture your equipment containing byproduct material at field locations then continuously attended by the individual(s) specified in your license. Items 20-213 are enclosed for your convenience. The application should specify the states in which you wish to demonstrate the equipment.

Enclosed also is a sample sign containing the coloring, marking and symbol which meet the requirements of Section 20.203(1)(1) and (1)(1). Signs were suitable for posting and labeling might be prepared from your individual's supplier or a commercial sign company.

It was brought to our attention that License No. 20-1453-J should have authorized possession and use of hydrogen 3 in cells rather than sealed sources. Therefore, Amendment No. 1 to License No. 20-1453-J, being sent under separate cover, has been issued to clarify this matter. Please note that this amendment deletes condition No. 15 and 16.

We appreciate the cooperation given the AEC representatives.

Very truly yours,

cc: Inspector Division, Wash. D.C.
Inspection Division, NRC
Public Document Room

James B. Jensen, Chief
Division of Licensing & Regulation

Enclosures

DJA

DJA

NDP:ags

LD:agrs

JIM:son

1-29-59