

Mallinckrodt, Inc.

BOX 10172 LAMBERT FIELD • ST LOUIS MISSOURI 63145 • PHONE 314-291-0540

February 14, 1977

Mr. Jack M. Bell
Radiosotopes Licensing Branch
Division of Fuel Cycle and
Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Ref: U.S. NRC License No. 24-04206-01

Dear Mr. Bell:

An increased sales demand for our iodinated products has resulted in our need to increase our supply of Iodine-131 in order to meet projected sales for 1977.

Therefore, we request an amendment to our license to increase our possession limit for Iodine-131 from 100 curies to 250 curies. Although we do not anticipate reaching 250 curies during 1977, this quantity should take us through 1978.

During the first half of 1977, we anticipate that the release of Iodine-131 to the atmosphere will increase to some extent from our present facility. However, a substantial decrease in the release of Iodine-131 to the atmosphere during the second half of 1977 when our new production facility will be fully operational is also expected. Based upon initial operational data from Building 500, our new waste processing facility, the total release of Iodine-131 for 1977 should be, at most, one half of our 1976 release.

In addition, we have carefully considered the impact an increased Iodine-131 usage would have with respect to personnel exposure. An accelerated ongoing program has been established to improve technique, procedures and equipment in our present facility with positive results.

Our conclusion is that the requested increase in our possession limit for Iodine-131 would not adversely affect our overall Radiation Safety Program and would enable us to continue to serve the needs of the Nuclear Medicine Industry.

Sincerely yours,

MALLINCKRODT, INC.
MALLINCKRODT/NUCLEAR

Donald W. Soldan

Donald W. Soldan
Chief Radiological
Protection Officer



DWS/slh

cc: J. Toomey
Dir. of Operations

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