

34-653-2 4495

CLEVITE RESEARCH CENTER

DIVISION OF CLEVITE CORPORATION

540 EAST 105TH STREET

CLEVELAND 8, OHIO

Wom



TELEPHONE - ULSTER - 5500
CABLE ADDRESS - CLESEARCH

Ref: IEB:WOM (4967)

July 22, 1957
DUPLICATED

Mr. Nathan Bassin, for
Mr. James W. Hitch, Assistant Chief
Byproducts Licensing
Isotopes Extension
Division of Civilian Application
United States Atomic Energy Commission
Oak Ridge, Tennessee

Subject: Application for Byproduct Material License

Dear Mr. Bassin:

We are pleased to give you the information you requested in your letter of July 16, 1957.

Photocopies of a series of our personnel film badge reports are attached.

Each of our four Cobalt 60 sealed sources is kept in a separate exposure device. When not in use, all four of these devices are stored in the below ground level concrete storage vault described to you in our letter of July 3, 1957. When a sealed source is to be used, the exposure device, in which the sealed source is permanently placed, is removed from the concrete storage vault and carried by hand to the autoclave room in which the radiography is to take place. It takes only 30 seconds to remove an exposure device from the concrete storage vault, carry it to the autoclave room farthest from the vault and position it there. The exposure device is placed on a table and is surrounded by lead bricks, except for the open side, during radiography.

Radiographic exposures are limited to a maximum of two hours in length and a maximum of three exposures a week. The maximum dosage rates at the rope barrier which is placed around the autoclaves when a radiographic exposure is being made is 0.5 mr/hr and this only in a direct line with the open side of the exposure device, so we are limiting our employees to a maximum exposure of only 30 mr/wk. In addition there are no work stations near the rope barrier so that none of our employees are in this area for the entire time a radiographic exposure is being made. Also, the radiographer remains in attendance during the time of the exposure.

3 m. x 7.

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FOR DIV. OF IND.

Mr. Nathan Bassin, for
Mr. James W. Hitch
United States Atomic Energy Commission

July 22, 1957

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We have available two high range survey instruments; an El-Tronics RAD-TEX, FCDA, Item CD-V-710, with three ranges of 0.5 m/hr, 5 m/hr and 50 m/hr; and a Tracerlab Model SU-10A RADIAC with five ranges of 0.005 m/hr, 0.05 m/hr, 0.5 m/hr, 5.0 m/hr and 50.0 m/hr.

We are using a separate exposure device as described in our drawing No. 4-13x6241-001 for each of our four Cobalt 60 sealed sources.

If we can give you any further information, please do not hesitate to call upon us.

Yours very truly,

CLEVITE RESEARCH CENTER

E. A. Gentry
E. A. Gentry
Personnel Manager

7/27/57

EAG:mic
Enc: Film badge reports