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# CLEVITE RESEARCH CENTER

DIVISION OF CLEVITE CORPORATION

540 EAST 105<sup>TH</sup> STREET

CLEVELAND 8, OHIO

December 10, 1958



Mr. Lyall Johnson  
Chief, Licensing Branch  
Division of Licensing & Regulation  
U. S. Atomic Energy Commission  
Washington 25, D. C.

Subject: Compliance with par. 70.24 to Title 10, Chapter 1, Part 70  
Code of Federal Regulations.

Dear Mr. Johnson:

As a Licensee holding Special Nuclear Materials License SNM-183, we are hereby filing our plans to comply with the subject regulation.

The area in which the special nuclear material is handled will be monitored by the use of a Gammalarm system manufactured by Technical Operations, Inc. The system will employ two of the Model 492 Gamma-alarm units positioned approximately 10 feet above the floor, below pipes and ducts, at approximately the locations shown on the enclosed drawing B-523. The units will be preset to actuate an audible alarm if a gamma radiation level of more than 5 mr./hr. is detected. The audible alarm will consist of a horn or bell which will produce a distinctive sound which can be heard clearly above the general noise level in the area. The choice of the specific alarm will be made experimentally at the time the units are installed. In addition to setting off alarms in the processing area, the radiation detector will also set off buzzers located in the offices of the Personnel Manager who acts as Safety Director for the Research Center, and Executive Assistant to the Director of the Mechanical Research Division who acts as Health-Safety Supervisor for the area handling the SS material, to alert these individuals who will be responsible for determining the cause of the alarm.

After the installation is completed, the employees assigned to this area will be instructed as to the purpose of these alarms. A drill will be carried out and the employees instructed to leave the area immediately by any of the three exits shown on Dwg. B-523 and proceed around the outside of the building to the parking lot which is located to the east of the processing area as shown on Dwg. B-523. After the initial instruction period, radiation safety drills will be scheduled quarterly. New employees will receive instruction on this procedure from their supervisor when they report for work.

In the event of an emergency which causes the alarm to sound, all personnel working in the area will immediately evacuate the area as

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described above. The Safety Director and the Health-Safety Supervisor will proceed to the corridor leading to the entrance to the processing area where a portable gamma survey meter, Victoreen Model 592A, range 5, 50, 500 r/hr. will be located. Either or both of these individuals will use the survey meter to determine if a radiation hazard exists. If they determine that a hazard exists, they will evacuate the building by sounding the internal fire alarm. During building evacuation all employees will proceed to the parking lot to the east of the building. (Note: the stairwell located on the left side of Dwg. B-523 near the vault is not used for emergency evacuation.)

Once all personnel have been moved to a safe distance from the source of the emergency, the Chicago Operations Office of the AEC would be advised of the incident by telephone.

After we receive your comments on the proposed system, we will proceed with procurement and installation of the system. We have been advised by the Picker Sales office which handles these units that they are available on an approximately two-week delivery schedule. The installation would be completed in two to three weeks after receipt of the instruments.

We trust that the above plan will meet the requirements of the amendment. If you have any questions, we will be pleased to answer them promptly.

Very truly yours,



D. J. Berger  
Executive Assistant  
Mechanical Research Division

DJB/sj

Enc:

Air Mail - Special Delivery

in quad.

