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File 4

# MALLINCKRODT CHEMICAL WORKS

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A B C FIFTH ED IMP  
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BENTLEY'S COMPLETE PHASE  
BENTLEY'S SECOND PHASE

SECOND AND  
MALLINCKRODT BLDG ST. LOUIS, 7. MO.

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FINE CHEMICALS  
Standard Since 1867

28 November 1958

AIR MAIL

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

SUBJECT: Special Nuclear Material License No. SNM-33

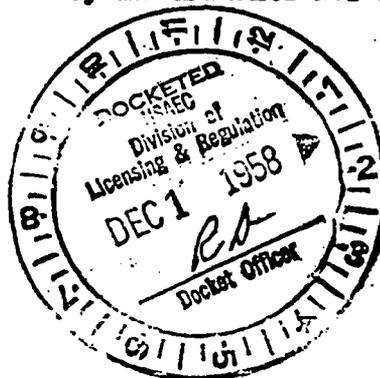
Dear Mr. Johnson:

In reply to your public announcement dated 11 November 1958 in regard to the modification of regulations of 10CFR Part 70, we are pleased to outline our plans for compliance.

We have for sometime prior to this notification been of the opinion that for our own protection a system should be installed in our Hematite, Missouri plant to warn of excessive radiation which might originate from any source. Our plans, therefore, are nearing completion for the purchase and installation of such a system. The modified regulations of 10 CFR Part 20 will be of great assistance to us in the final adoption of our program.

The program will include the following points:

- (1) Purchase and installation of sufficient radiation detector units to give adequate overall plant protection (Current plans are for the purchase of five such detection units located well within the distances specified in the new 10 CFR Part 70 regulations.
- (2) The purchase and installation of an audible alarm system directly connected to the radiation detector instruments. The instruments will be in parallel so that the alarm will sound regardless of what area of the plant the incident may occur.
- (3) The purchase of high level survey instruments for re-entry and location of the trouble point.



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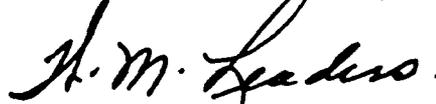
- (4) The preparation and inauguration of a complete evacuation plan which will include the immediate care of exposed personnel and compliance with all of the regulations of 10 CFR Part 20.
- (5) The selection and preparation of a suitable "off plant" site for storage of emergency equipment to serve as a command headquarters in case of emergencies.
- (6) It is expected that the entire plan will be completed by 1 February 1959.

We are proceeding on the basis that these steps should be placed in effect at the earliest possible date and unless we hear contrariwise from your office, our Engineering and Health Physics Groups will proceed as outlined above. Prior to final installation, we will submit to you sketches showing the location of the detector units and a more complete description of the details of the alarm system and the evacuation plan.

If there is additional information that you require prior to the submission of our more detailed plan, do not hesitate to call upon us.

Very truly yours,

MALLINCKRODT CHEMICAL WORKS



W. M. Leaders  
Technical Director  
Special Metals Division

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