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INSPECTION REPORT - MALLINCKRODT CHEMICAL WORKS, MALLINCKRODT/NUCLEAR
DIVISION, ST. LOUIS, MISSOURI - LICENSE NO. 24-4206-1

Attached is the report of an inspection of subject licensee which was conducted on September 13 and 14, 1967. Due to the repetitive nature of several of the items of noncompliance noted, a meeting with top management was held on October 17, 1967.

The attached report sets forth ten items of noncompliance, the most significant of which is the repetitive problem of excess Iodine 131 thyroid burdens. Four items of noncompliance relate to inadequacies in the licensee's radiation survey program; two items relate to posting deficiencies; two items relate to reporting deficiencies and one item relates to an unauthorized transfer of material.

Seven of the items of noncompliance noted are directly related to the operational functions of the health physics program. It has been apparent over the course of several inspection visits that the lack of some surveys and the inadequacy of others results from the lack of follow-through on the part of Mr. D. Soldan, the Health Physics Manager, after certain surveying and other duties are assigned to his health physics technicians. It has also been apparent that the lack of some of this follow-through has been due to the fact that Mr. Soldan's duties at St. Louis and all branches, we feel, spread his capabilities thin and do not permit him to devote sufficient time to the health physics problems existing at the St. Louis facility.

It was learned during our October 17 meeting with Mallinckrodt management that they had arrived at a similar conclusion and indicated they are presently looking for a professional health physicist to assume the duties as health physics manager. Management, however, also indicated their desire to retain Mr. Soldan as a health physicist.

Dr. Konneker, Vice-President, Mallinckrodt Chemical Works (MCW) and Mr. Thayer, President, MCW, stated that Mallinckrodt Nuclear is about to break ground for a new addition to the existing facilities at Maryland Heights (St. Louis). Konneker advised that it is intended that these

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facilities will be used for handling significant quantities of tritium and Carbon 14. It is suggested by Region III that based on the problems which were encountered with somewhat inadequate facilities and equipment when the existing program got off the ground that licensing take a hard look at the licensee's proposal on any new facilities. In addition, we suggest that it may be appropriate for a visit to any new facilities prior to licensing approval for use.

As the result of our meeting with management on October 17, they outlined a course of action which they feel will reduce the probability of excessive thyroid burdens. These actions include increased air sampling stations, increased frequency of thyroid counting, purchase of new equipment and direct knowledge of the day-to-day health physics problems by top management. Top management in the person of President Thayer, promised significant improvements in the problem areas at Mallinckrodt Nuclear.

Region III plans to follow these actions closely. A reinspection will be conducted at the completion of enforcement action.

Enclosure;
Inspection Report