



UNITED STATES
ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION I
631 PARK AVENUE
KING OF PRUSSIA, PENNSYLVANIA 19406

DEC 20 1974

J. P. Stohr, Chief, Environmental Protection and Special Programs Section
RO:I

INSPECTOR'S EVALUATION RO INSPECTION REPORT No. 50-289/74-34
THREE MILE ISLAND UNIT 1

The special inspection performed to evaluate the status of the previously identified enforcement items revealed much improvement in the overall program. The program administration was shifted to the Reading office and that group appears to have a good handle on the program. The Plant Operations people also are involved with respect to routine maintenance and a surveillance program which serves to identify any missing sample or analysis.

One of the violations identified during this inspection was in regard to the sensitivity of I-131 analysis in milk. I have identified this area as a generic problem in a previous memo to you dated November 8, 1974, in which I said that only one laboratory (RMC,) in our region appeared to be capable of meeting the "0.5 pCi of I-131/liter of milk within an overall error of + 25%" sensitivity of analysis requirement imposed by the newer Environmental Technical Specification. TMI uses RMC to analyze their milk. The data showed that while RMC could meet this requirement most of the time, it could not do it all of the time. This re-enforces the statements in the above referenced memo that licensees with the above milk sensitivity requirement will have much difficulty in meeting it. In TMI's case, by prompt notification from RMC and resampling milk when analytical difficulties arise, TMI can probably live with this limit. However, if the required sampling intervals were shorter, such as Peach Bottom has (1 week), this resampling would not help as there would be insufficient time between samples to replace a "bad sample."

With respect to the Appendix B, Technical Specifications, the radiological environmental monitoring program should be upgraded in several areas to be consistent with the AEC Standard Environmental Tech Spec. Guide. These areas are identified below.

- 1.) Air particulate filters should be composited for quarterly Sr-89 and 90 analyses. The method of compositing, i.e. filters from each station or from all indicator stations, should be indicated for the strontium, as well as, for the gamma spectral analyses.
- 2.) Milk should be analyzed for Sr-89 and 90 and by gamma spectral analysis monthly.

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3.) Drinking water, i.e. for the City of Columbia intake, should be analyzed at weekly intervals.

4.) River water should be composited for quarterly Sr-89 and 90 analyses.

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