

THE UNIVERSITY OF MICHIGAN

SCHOOL OF PUBLIC HEALTH

ANN ARBOR, MICHIGAN 48109

Department of Environmental  
and Industrial Health

MEMORANDUM

TO: Robert Alexander  
FROM: Phillip Plato  
DATE: May 1, 1979  
RE: Progress Report Number 19, Contract No. NRC-01-77-180, April, 1979.

Completion of Task 2

The final irradiations for the one-year period provided for Task 2 were completed on Sunday April 29, 1979. All dosimeters were returned to the processors on April 30. From the period of May 1, 1978 to April 30, 1979, we irradiated approximately 21,000 dosimeters as part of the pilot study.

Results of Test #2

In the last (#18) Progress Report, we reported on the results of Test #2 for the 12 processors that had reported their doses to us. During April, no additional processors reported results for Test #2. Therefore, the summary statistics shown in the last Progress Report still apply.

Results of Test #1

During April, two processors reported their results of Test #1. This still leaves four processors that have not reported their Test #1 results, including some irradiations that were done in May, 1978.

Calibrations

We finally received our two Shonka-Wyckoff ionization chambers that were sent to NBS for calibration. By mutual agreement, NBS did not send us the calibration factors for these chambers. We will calibrate the chambers and will report our calibrations to NBS who will then issue a statement concerning the quality of our calibrations. This procedure will offer a final check on our ability to deliver specified doses during the pilot study.

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Site Visits

During April, you requested that we visit approximately eight of the large processors that service NRC licensees. The purpose of the visits is to determine why some processors have shown improvement in Test #2 over Test #1 while other processors have not. During the latter part of April, we visited three processors. These visits were very enlightening for us and will be discussed in detail in a report we will prepare at the end of May. We expect to have completed our site visits by that time.

Procedures Manual

Our contract requires that we submit a Procedures Manual to you within 30 days after completion of Task 2. In view of the additional work required for the site visits discussed above, we are requesting an extension of the deadline for the Procedures Manual to September 1, 1979. This will give us time to reflect on the appropriateness of our radiation sources and procedures and to discuss these with the Health Physics Society Committee that prepared the HPSSC Standard. The Committee plans to meet during the HPS meeting in mid-July.

Summary

Task 2, the administering of two tests to each participating processor, was completed on schedule. We will now concentrate our efforts on Task 3, analysis of the data generated.

*Phillip Plato*

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Phillip Plato

PP/mf

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