

January 19, 1965

Dr. C. G. Heller
Pacific Northwest Research Foundation
1102 Columbia Street
Seattle, Washington

Dear Dr. Heller:

As you know the AEC asked us to make an independent check of the x-ray calibrations in your experiment and Dr. Paulsen's. Below is what we reported to them:

"Our independent calibrations agreed with those of the experimenters within the accuracy expected from the instruments used.

On September 9, 1964, W. C. Roesch and K. L. Swinth observed the procedures used at Walla Walla and made duplicate measurements with their own equipment. Both they and the experimenters used Victoreen condenser R-meters; both sets had been calibrated by the National Bureau of Standards. Their results were consistently a few per cent lower than ours so Swinth brought both sets of R-meters back to Hanford for more leisurely intercomparison. We found that the man making the readings at Walla Walla had not been recharging the reading device before reading the R-meter. Correcting for this, we found a standard deviation between our results of about 2%.

On December 10, 1964, K. L. Swinth made similar observations and duplicate measurements at Salem. This could not have been done sooner because there had been trouble with the x-ray machine there. Again, R-meters were the instruments used. We did not feel it was necessary to intercompare the R-meters at Hanford. The standard deviation between our results was about 3%."

Very truly yours,

W. C. Roesch, Manager
Radiological Physics
329 Building, 300 Area

WCR:jb

cc: WCR ←
WCR-LB

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REPOSITORY: DOE-RICHLAND
COLLECTION: GSS HUMAN TEST SUBJECTS SUTDIES
PRISONER STUDY

BOX: 046264

FOLDER: 1780 - HELLER PACIFIC NW RES. FOUNDA.

ASSIGNED NUMBER: RLHTS 94-0010

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