

L' ED STATES A LOWIC ENERGY COMMISSION WASHINGTON, D.C. 1945

cember 11, 1963

Mr. Herbert J. Hiller Assistant Attorney General Criminal Division U. S. Department of Justice Washington 25, D. C.

Dear Mr. Hiller:

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Discussions have been held with various persons in your alency during the past few weeks regarding that additional light nuclear activation analysis might be able to shed upon the case of Mr. Kennedy's assassination. Within less than 24 hours of the assassination, we had offarad obtaining criminalistics evidence by means of nuclear analytical techniques, to responsible officials in the FBI, Secret Service and Dallas police force. We believe it is not too late to outline what may yet

First, had it been possible to examine by nuclear methods the paraffin casts from Gswald's hands and face before chemical tests were run on them, we feel sure that more useful information may have been obtained. It has been conceded for some time that present chemical tests are not entirely reliable and conclusive. However, that is beside the point ical tests made on the paraffin casts, for sunpowder residues, did not ruin them for possible later examination by activation analysis for positive traces of antimony and barium (from the bullet primer),

Earlier activation analysis work by our contractor, General Atomic, with revolvers and automatic pistols is now being extended to work method will give useful information to have more details on whether the deposits from revolvers and those from rifles -- by means of their levels of antimony and barium (and perhaps other elements) deposited. In the current study, we will also ascertain whether the usual chemby nuclear activation analysis. If the results are promising, we ining the actual casts obtained on Uswald. The method will destroy that part of the sample analyzed, but does not require use of the / = 9-

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Second, should it be of value, it may be possible to determine by trace-cleant measurements whether the fatal bullets were of composition identical to that of the purportedly unfired shell found with the location of the same batch of amounition was used in the sniper cullet fired at General Walker, the method might show a correlation in that case.

Third, there may be other pieces of physical evidence in the case, such as clothing or hair, that might lend themselves to characterization by means of their trace-clement levels.

Waturally, we do not wish to appear to be intruding in the investigation and we are not certain that our techniques can now give added useful information. On the other hand, we wish to indicate our eagerness to be of any possible help. Our work leads one to expect that the tremendous sensitivity of the activation analysis method is capable of providing useful information that may not be otherwise attainable. Should you wish us to be of assistance, our research contractor in the criminalistics work, General Atomic in San Diego, would carry out the measurements -- working directly with the appropriate government investigators and with proper safeguards regarding the physical evidence and information. The scientist in charge of this work at General Atomic is Dr. Vincent P. Guinn.

If you prefer, we can also provide experienced activation analysis services at a number of locations, including Oak Ridge, Tennessee and Texas A&4 University.

We look forward to hearing from you in this matter.

Sincerely yours,

Paul C. Aebersold, Director Division of Isotopes Development

cc: G. T. Seaborg, Chairman, AEC S. G. English, AGMED, AEC V. P. Guinn, AI

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