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Diamond Alkali Company

GENERAL OFFICES • UNION COMMERCE BUILDING • CLEVELAND 14, OHIO • TELEPHONE MAIN 1-6100



PLEASE REPLY TO
RESEARCH CENTER
P. O. BOX 348
PAINESVILLE, OHIO

August 2, 1960

Mr. Robert E. Brinkman
Senior Licensing Reviewer
Isotopes Branch
Division of Licensing and Regulation
Atomic Energy Commission
Washington 25, D.C.

re: L and R:IB:REB(34-583-3)

Dear Mr. Brinkman:

Application is hereby made to amend license number 34-583-3, paragraph 15-F, to read, "Test for leakage and contamination shall be performed by, or under the direct supervision of John M. Sanders". The following instruments are available for leak testing:

<u>Type of Instrument</u>	<u>Make and Model No.</u>	<u>Radiation Detected</u>	<u>Sensitivity</u>
Radiation Survey Meter (ion chamber)	Tracerlab Model Su-1F	beta gamma	25,250, 2500 mr/hr full scale
Thyac Beta-Gamma Survey Meter (GM)	Victoreen Model 389 C	beta gamma	800, 8000, 80,000 cts/min full scale
Low Range Beta Gamma Survey Meter (GM)	Tracerlab Model Su-14 w/P-18A probe	alpha beta gamma	500, 5000, 50,000 cts/min full scale

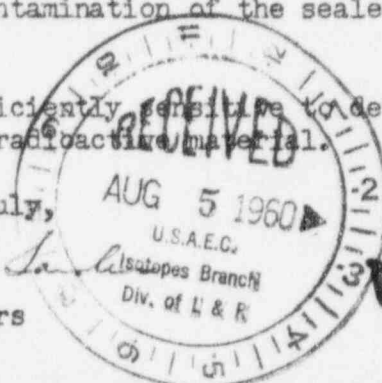
Using one of the above instruments, the following procedure will be used:

With an appropriate scale setting, the probe of the instrument shall be slowly passed over the surface of the sealed source. At the same time, the meter will be observed for any sudden deflection above the normal background. If no such deflection occurs, it will be assumed that there is no leakage or contamination of the sealed source.

It is believed that the above procedure will be sufficiently sensitive to detect 0.05 microcuries of removable beta and/or gamma emitting radioactive material.

Yours very truly,

John M. Sanders
John M. Sanders



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John M. Sanders

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