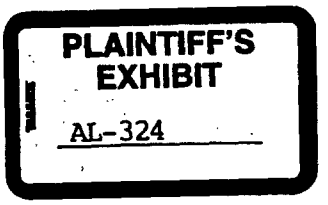
LESTER V. CRALLEY

PITTSBURGH



MR. C. R. STOUT

BAUXITE ALUMINA WORKS

The dust sample which Mr. George Kuerner gave me on my recent visit has been turned over to the Analytical Division of ARL for certain preliminary analyses. These, when completed, will be used as a guide for the remaining analytical work that will be needed. The information will be forwarded you as soon as available.

We have found that one of the most convenient ways to work up wind data is to prepare a wind rosette on a monthly basis. The axes of the rosette correspond to the directions, i.e., N, NE, E, SE, S, SW, W and NW. The length of each axis is proportional to the hours of wind from the corresponding direction. Thus, a month's wind can be compiled so that it can be pictured at a glance. Likewise, a similar technique can be used for velocity. However, direction and velocity should not be compiled into the same rosette since these factors are quite different, i.e., the concentration of a given effluent downwind its source is directly proportional to the hours of wind but inversely proportional to the wind velocity.

L. V. Cralley

LVC:DB

cc: M. F. Washburne