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**BAY AREA AIR POLLUTION CONTROL DISTRICT**  
**1480 Mission Street, San Francisco 3, California**  
**KLondike 2-1300**

May 25, 1961

ALAMEDA COUNTY  
CONTRA COSTA COUNTY  
MARIN COUNTY  
SAN FRANCISCO COUNTY  
SAN MATEO COUNTY  
SANTA CLARA COUNTY

Secretary  
U. S. Atomic Energy Commission  
Washington 25, D. C.

Attention: Director, Division of Licensing  
and Regulation

Dear Sir:

The following suggestion concerns your February 10, 1961, SAN 195 release on Reactor Site Criteria Guides which you issued for public comment.

In view of the questionable accuracy of the theoretical diffusion equations under extremely stable meteorological conditions, it is suggested that some recognition be given in the Guide to the fact that feasible field engineering techniques exist for determining the travel and diffusion of airborne material.

At least two specific chemical tracers have been extensively and successfully used for meteorological research by groups in this area. These tracer diffusion trials involved:

- a) the dissemination of fluorescent particles (FP), i.e. zinc cadmium sulfide particles in the 1-5 $\mu$  size range, (Aerosol Laboratory, Stanford University); and
- b) the dissemination of an aerosol of uranine or rhodamine B dyes, (Stanford Research Institute).

Sincerely,

*Spencer Duckworth*  
Spencer Duckworth  
Chief, Air Analysis

SD:amw

B/L

