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*for use to
McDowell
6/80*

To: Dr. T. S. Osden

Date: June 2, 1980

From: W. L. Dunn

Subject: Behavioral Research Lab

CONFIDENTIAL

Four Major Studies:

- I. We are studying the effect of smoking upon brain activity. We are observing changes in the EEG record that we can attribute to smoking. The changes are seen to be consistent with the idea that smoking has a salutary effect upon the arousal system.
- II. Nicotine influences animal behavior in a number of ways. We are using these known influences to assess the nicotine-likeness of nicotine analogues. Several meaningful tests have already been developed and are being used. Other tests are under study. (A particularly exciting and promising one is the self-administration of nicotine by rats.)
- III. We are on the brink of a major breakthrough in measuring smoking behavior. Smoke inhalation has never been measured under natural smoking conditions. We will be able to do that. We expect to find changes in inhalation in response to changes in smoke composition.
- IV. Our recently acquired social psychologist is beginning a study of the above-40 professional woman who smokes. It is an interesting fact that this group of women is experiencing the most rapid increase in illnesses that have been attributed to smoking, yet the group has the highest proportion of ultra-low delivery smokers. We need to know more about the psychology of these women.

WLD:jh

W. L. Dunn

SUBJECT TO PROTECTIVE ORDER

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