MUd R+D 1990

PLAINTIFF'S
EXHIBIT
K-1588

Division Headquarters
April 25, 1962

S. E. Wooley - Research

cc: A. G. Reinker - Cleveland
J. A. Campbell - Toledo
File

Surface Combustion Division
Midland-Ross Corporation
Effects of High Velocity Air On IFB

Would you please refer to your previous file under this subject.

For your further information we are quoting from a self-explanatory letter from our Mr. Campbell.

> "I talked this situation over again with Ed Brady at Surface and he said frankly, he was rather puzzled himself as to just how you would set up a test program on this question. He says the type of question he gets from their Design Department is, will IF3 stand some given velocity at a given temperature, and in the past he's just been using his best judgment and giving them an answer but recently velocities he'd been running into have been going up and he's a little afraid to stick his neck out in some cases, and, therefore, would like to have something more concrete to base his judgment on. Practically all the applications in question are round ducts handling heated air where refractory lining is required so his general ideas on testing would be that this type of thing be duplicated on a small scale with an elbow in the test set-up to see what happens to the lining at these changes in direction. Another simple test he suggests would be simply to direct a blast of air of known velocity directly against the surface of the brick to determine at what point erosion started.
>
> Along this same line he would be interested in any information we could develop on the possibility of coating Insulating Fire Brick to extend its use to extremely high velocities.
>
> I realize the above isn't of too much help but maybe some of your other sources will give you something more concrete."

DEFENDANT'S
EXHIBIT
OE-159

With this information, would it be possible to work out something which would be helpful to Mr. Brady. Undoubtedly you will have the opportunity to talk to Mr. Brady next week at the American Ceramic Society Meeting in New York.

N. J. Kent

NJK:dcs