

MEMORANDUM

TO: J. Moore
CC: K. Blower
FROM: K. Morton
DATE: June 15, 1990
SUBJECT: HI TEMP FILTER - SYSTEM DESIGN

I have contacted a number of fan manufacturers as well as the three sintered metal filter suppliers that we are dealing with on the matter of system design, especially as regards installation of a booster fan to overcome high pressure drop across the filters. So far I have not had much success, as most fan manufacturers do not have equipment capable of handling the high temperatures involved. It would be possible, if necessary, to install a larger fan and introduce a bleed stream of cooling air, but it would not be the preferred method, and I am continuing the search for the proper equipment.

Of the three sintered metal filter manufacturers, only Fluid Dynamics is prepared to engineer the system and provide the equipment. This company has been the most cooperative of the three in all respects, and they claim to have a much superior filter (sintered fiber media as opposed to sintered powder media). They also quoted the lowest price for replacement of the cottrells with sintered metal filters.

If pilot testing confirms Fluid Dynamics' claims re filter porosity vs collection efficiency, I think we should seriously consider their offer to design our plant and provide the major equipment.

They are interested in the results of our pilot test and would like to visit Giant while the test is going on. They are also sending another set of filter elements that they would like to try. It is quite clear that they hope to gain an advantage over their competition by showing this level of interest, and I think we should encourage them by hosting a visit and discussing the full scale project.

Do you have any problems with this or any suggestions for our discussions ?



Kent Morton