



**Karges-Falconbridge, Inc.**  
*Engineers*

May 5, 2009

Mr. Jon W. Jungers  
CDC Enterprises Inc  
13365 George Weber Dr., Suite M  
Rogers, MN 55374

RE: Energy Analysis Comparison Report  
(AK duct vs. Insulated PVC Duct)  
KFI Project No. 09-171.00

Dear Mr. Jungers,

Attached is an analysis of our conclusions regarding the comparable heat loss through 40 feet of 12-inch round runs of AK Duct and insulated PVC duct. We have to qualify our conclusions as follows:

1. We did not witness the test; therefore we may not be aware of all of the variables.
2. The original test was not designed to determine heat transfer through the duct system. However, the test does provide data regarding the heat loss which occurred during the test.

The results of our analysis demonstrate that the heat loss was essentially the same for the AK Duct. This would demonstrate that the thermal characteristics are comparable for the AK Duct as the PVC duct, with the R-10 four sided insulation configuration, which is currently the installation as required by the Wisconsin Codes.

Please let us know if we can be of additional help.

Sincerely,

***Karges-Falconbridge, Inc.***

John Clark, P.E.  
Mechanical Engineer