



Tuesday, October 19, 2004

Mr. Scott Kohrs
Taylor Kohrs
9351 Grant Street, Suite 500
Denver, CO 80229

Dear Scott:

We are completing the loads on the LCCC facility for determining equipment capacity and ground loop parameters. To complete this effort, we need a response for the following:

LCCC Southwest Portion	# of Computers	Other high heat output appliances	Ceiling Height (peak)
TLCCord/FacOfc4/StdntBrkrm/Club			
GrpRm/Classroom 6			
Test Center/Office			
Faculty Office 5 & 6			
FcltyOfcs7/8/CmptrTechOfc			
Men's/Women's Restrms			
Classroom 7			
Classroom 8			
Classroom 9/Conf Rm			
Adjunct Area			
StdntSrvcsSt/Phil/Nicole			
Multiprps/Cmns Area			
LnggCmptrLab/TutrilCntr			
ServerRm/TLC CmptrCntr			

Please note other high gain appliances, such as ovens for science or art labs, and btuh or kwh rating.

LCCC Northeast Portion	# of Computers	Other high heat output appliances	Ceiling Height (peak)
Multiprps/Cmns Area			
Faculty Ofc 1,2,3			
Classroom 1			
Classroom 2			

Classroom 3			
ComprssdVideo/CmptrLab			
Art Lab			
Science Lab			
Classroom 5			
Conference/Break Room			
Eileen's Office			
Marilyn's Ofc/AdminSuite			
Men's/Women's Restrms			
Classroom 4			
Microsoft Computer Lab			

Please note other high gain appliances, such as ovens for science or art labs, and btuh or kwh rating.

We also need:

1. Maximum occupancy per classroom and meeting room.
2. Confirmation of R-values for floor perimeter, walls and ceilings. Currently we are assuming an equivalent perimeter insulation of R8, wall insulation of R19, ceiling insulation of R38.
3. Window/egress door schedule, and type of windows with emissivity rating.

A preliminary load calculation has been completed based upon several assumptions, ranging from 436,000 to nearly 500,000 btuh for heating, and 185,000 to 260,000 btuh for cooling; the range of variables make a very significant difference in equipment and loop capacity, and cost. Once these variables are confirmed or adjusted, this will allow us to complete sizing the equipment and ground loop. This will also impact the operating cost projection and ROI.

Regards,



Terry Proffer, CGD

Major Geothermal

Geologist

IGSHPA Accredited Installer #12131-994

IGSHPA Certified Installation Instructor #T1063-496

AEE Certified GeoExchange Designer #16