ACM NH-2005

Appendix NH - ~~Seasonal Energy Efficiencies of Single-Zone Non-Residential Air Distribution Systems in the Space Between an Insulated Ceiling and the Roof in California Climate Zones~~ Test Nonresidential Air Distribution Systems

	Input Assumptions for Non-Residential Duct Systems		
CASE CODE	Total duct Leakage, %	Supply duct R Value	Return duct R value
1001	22	4.2	4.2
1002	22	8	8
1003	8	4.2	4.2
1004	8	8	8

~~CASE~~	~~Climate Zone 1~~				~~Climate Zone 2~~			
~~CODE~~	~~1 Story~~		~~2 Story~~		~~1 Story~~		~~2 Story~~	
	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~
~~1001~~	~~0.750~~	~~0.810~~	~~0.779~~	~~0.812~~	~~0.737~~	~~0.674~~	~~0.767~~	~~0.702~~
~~1002~~	~~0.793~~	~~0.813~~	~~0.810~~	~~0.814~~	~~0.783~~	~~0.717~~	~~0.800~~	~~0.734~~
~~1003~~	~~0.820~~	~~0.866~~	~~0.852~~	~~0.869~~	~~0.811~~	~~0.744~~	~~0.843~~	~~0.775~~
~~1004~~	~~0.868~~	~~0.869~~	~~0.886~~	~~0.871~~	~~0.861~~	~~0.792~~	~~0.880~~	~~0.810~~
	~~Climate Zone 3~~				~~Climate Zone 4~~			
	~~1 Story~~		~~2 Story~~		~~1 Story~~		~~2 Story~~	
	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~
~~1001~~	~~0.759~~	~~0.730~~	~~0.788~~	~~0.755~~	~~0.753~~	~~0.738~~	~~0.782~~	~~0.763~~
~~1002~~	~~0.801~~	~~0.763~~	~~0.817~~	~~0.778~~	~~0.795~~	~~0.770~~	~~0.812~~	~~0.784~~
~~1003~~	~~0.827~~	~~0.786~~	~~0.858~~	~~0.813~~	~~0.822~~	~~0.792~~	~~0.854~~	~~0.818~~
~~1004~~	~~0.873~~	~~0.822~~	~~0.891~~	~~0.837~~	~~0.869~~	~~0.826~~	~~0.888~~	~~0.841~~
	~~Climate Zone 5~~				~~Climate Zone 6~~			
~~CODE~~	~~1 Story~~		~~2 Story~~		~~1 Story~~		~~2 Story~~	
	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~
~~1001~~	~~0.740~~	~~0.760~~	~~0.770~~	~~0.779~~	~~0.766~~	~~0.722~~	~~0.794~~	~~0.747~~
~~1002~~	~~0.785~~	~~0.784~~	~~0.803~~	~~0.795~~	~~0.806~~	~~0.757~~	~~0.822~~	~~0.771~~
~~1003~~	~~0.813~~	~~0.813~~	~~0.845~~	~~0.834~~	~~0.832~~	~~0.780~~	~~0.863~~	~~0.807~~
~~1004~~	~~0.863~~	~~0.839~~	~~0.882~~	~~0.851~~	~~0.876~~	~~0.818~~	~~0.894~~	~~0.834~~
	~~Climate Zone 7~~				~~Climate Zone 8~~			
	~~1 Story~~	~~2 Story~~	~~1 Story~~	~~2 Story~~				
	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~
~~1001~~	~~0.781~~	~~0.760~~	~~0.809~~	~~0.779~~	~~0.769~~	~~0.752~~	~~0.797~~	~~0.770~~
~~1002~~	~~0.819~~	~~0.784~~	~~0.835~~	~~0.795~~	~~0.808~~	~~0.776~~	~~0.825~~	~~0.786~~
~~1003~~	~~0.844~~	~~0.813~~	~~0.873~~	~~0.834~~	~~0.834~~	~~0.809~~	~~0.865~~	~~0.829~~
~~1004~~	~~0.884~~	~~0.839~~	~~0.901~~	~~0.851~~	~~0.878~~	~~0.835~~	~~0.895~~	~~0.847~~
	~~Climate Zone 9~~				~~Climate Zone 10~~			
	~~1 Story~~		~~2 Story~~		~~1 Story~~		~~2 Story~~	
	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~
~~1001~~	~~0.753~~	~~0.702~~	~~0.782~~	~~0.723~~	~~0.753~~	~~0.674~~	~~0.782~~	~~0.696~~
~~1002~~	~~0.795~~	~~0.734~~	~~0.812~~	~~0.746~~	~~0.795~~	~~0.710~~	~~0.812~~	~~0.723~~
~~1003~~	~~0.822~~	~~0.775~~	~~0.854~~	~~0.798~~	~~0.822~~	~~0.756~~	~~0.854~~	~~0.780~~
~~1004~~	~~0.869~~	~~0.811~~	~~0.888~~	~~0.824~~	~~0.869~~	~~0.797~~	~~0.888~~	~~0.811~~

~~CASE CODE~~	~~Climate Zone 11~~				~~Climate Zone 12~~			
	~~1 Story~~		~~2 Story~~		~~1 Story~~		~~2 Story~~	
	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~
~~1001~~	~~0.737~~	~~0.645~~	~~0.767~~	~~0.669~~	~~0.743~~	~~0.674~~	~~0.773~~	~~0.696~~
~~1002~~	~~0.783~~	~~0.686~~	~~0.800~~	~~0.700~~	~~0.788~~	~~0.710~~	~~0.805~~	~~0.723~~
~~1003~~	~~0.811~~	~~0.737~~	~~0.843~~	~~0.762~~	~~0.815~~	~~0.756~~	~~0.848~~	~~0.780~~
~~1004~~	~~0.861~~	~~0.783~~	~~0.880~~	~~0.798~~	~~0.864~~	~~0.797~~	~~0.883~~	~~0.811~~
	~~Climate Zone 13~~				~~Climate Zone 14~~			
	~~1 Story~~		~~2 Story~~		~~1 Story~~		~~2 Story~~	
	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~
~~1001~~	~~0.737~~	~~0.667~~	~~0.767~~	~~0.689~~	~~0.709~~	~~0.617~~	~~0.740~~	~~0.642~~
~~1002~~	~~0.783~~	~~0.704~~	~~0.800~~	~~0.717~~	~~0.759~~	~~0.663~~	~~0.778~~	~~0.677~~
~~1003~~	~~0.811~~	~~0.751~~	~~0.843~~	~~0.776~~	~~0.789~~	~~0.717~~	~~0.824~~	~~0.745~~
~~1004~~	~~0.861~~	~~0.793~~	~~0.880~~	~~0.807~~	~~0.846~~	~~0.768~~	~~0.866~~	~~0.784~~
	~~Climate Zone 15~~				~~Climate Zone 16~~			
	~~1 Story~~		~~2 Story~~		~~1 Story~~		~~2 Story~~	
	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~	~~Heating,%~~	~~Cooling,%~~
~~1001~~	~~0.743~~	~~0.596~~	~~0.773~~	~~0.622~~	~~0.686~~	~~0.730~~	~~0.719~~	~~0.755~~
~~1002~~	~~0.788~~	~~0.645~~	~~0.805~~	~~0.660~~	~~0.742~~	~~0.763~~	~~0.761~~	~~0.778~~
~~1003~~	~~0.815~~	~~0.703~~	~~0.848~~	~~0.731~~	~~0.773~~	~~0.786~~	~~0.809~~	~~0.813~~
~~1004~~	~~0.864~~	~~0.758~~	~~0.883~~	~~0.775~~	~~0.835~~	~~0.822~~	~~0.856~~	~~0.837~~