

Lab 2. REScheck (2.5 Points)

Use the notes and materials from Lab .1 to complete the following:

Part 1. First, determine if this house meets the 2009 IECC Energy Code (with the UA trade-off) using the REScheck software with an R-5 foundation (1" of XPS) and an assumed 78% AFUE furnace and 13 SEER air conditioner. If not, then what step (or perhaps steps) would you recommend so that it complies.

Part 2. Now we want to know if this house can comply with the proposed 2012 IECC Energy Code (with the performance alternative) which is similar to the current MN Energy Code. Assume a 92% AFUE furnace and a 13 SEER air conditioner. Does it meet this new code? If not, then what step(s) would you recommend so that it complies.

Part 3. Part of the performance credit in Step 2. is the positive solar orientation of the windows. Let's assume the house is rotated 180 degrees (front moves from north to south). What step(s) would you recommend so that it once again it complies with the 2012 IECC Energy Code?

Please submit the printed compliance reports. Include a page with a discussion of compliance issues and any changes that you made from the base plan from Lab 1.

Note: Download REScheck at <http://www.energycodes.gov/rescheck>