MOOSE Grading Part 3

Anthony

Good intro, outlining the problem(s). Quotes in latex are ``your text”. Otherwise they are backwards. Good explanation of mesh convergence setup. Good explanation of how burnup was included. Should have defined that burnup is in FIMA. You should have defined what the other eigenstrains are. What is SFP and GFP? Need to define all your terms. Could have elaborated on the gap conductance and the contact module, youre pretty brief. The discontinuity in the error for figure 1 is likely from having mesh elements which contain both gap and non-gap materials. So you get a mixture, and that leads to errors. Don’t think you talk about fig 2b. If you show it, you should discuss it. Fig 8/9 should be referred to as figures in the appendix. Ideally you would have relabeled these as A1/A2. Should have mentioned the burnup when your gap closes. Your gap closure profile looks really good. You didn’t label fracture stress in fig 7b, but I assume it is the dashed line. Showing the stress profile as a function of r early in life would have been beneficial, perhaps more so than showing stresses vs time. You don’t present your BCs for part 3 anywhere? Should have reported on stress free T. Overall this looks great. Minor quibbles with some things, but largely you nailed it.

Grade: 98

CeCe

Cole

Gwen

Hongsup

Joy

Lexi

Tim

Vaughn