MOOSE project grading notes

Nermeen

Some typos

Identification of material properties

Good display of centerline temperature data in both steady state and transient cases.

Images are not publication quality, which doesn’t matter for this report, but will matter for our publications in the future.

Would liked to have seen the axial distribution of stresses as well.

Didn’t show a convergence study with the mesh. But results don’t change much.

Any context on the stresses that are induced? A comment on potential fracture would have been good.

You used incorrect BCs in part 3. Should have pulled from part 2 to get axially varying fuel surface temperature as the BC.

A conclusion/summary and more discussion of part 3 would have been preferable. But it all looks good to me.

Mohamed

Maybe I wasn’t clear, but I wanted a final report that included all three parts with a bit more discussion/analysis. Don’t think your earlier parts had something like a mesh convergence study, which would have been good to show.

Would have preferred the actual varying fuel surface temp from part 2, instead of an approximated constant fuel temp. This leads to incorrect temperature profiles axially, and thus incorrect stresses.

Some typos in caption.

Good figures, well written report.