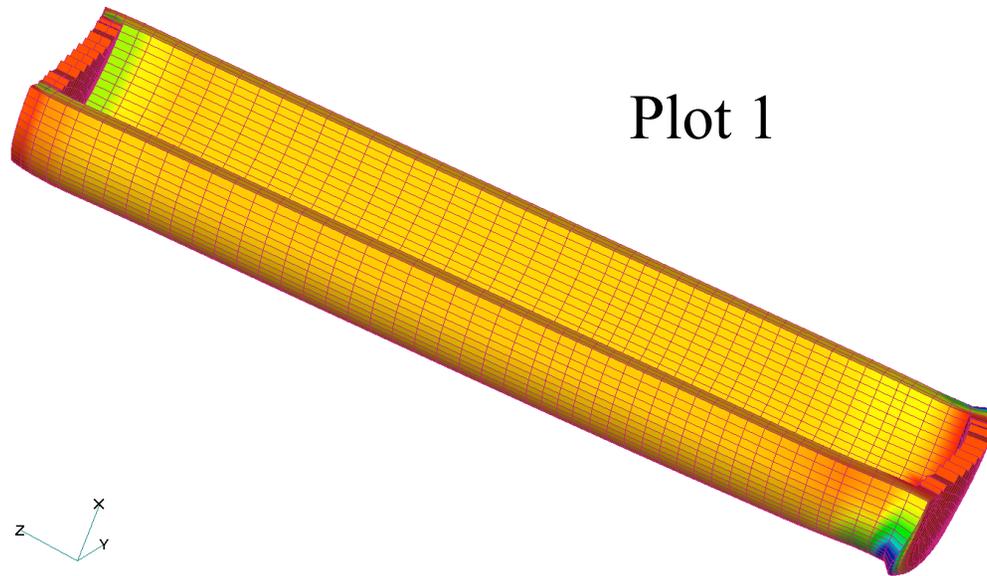


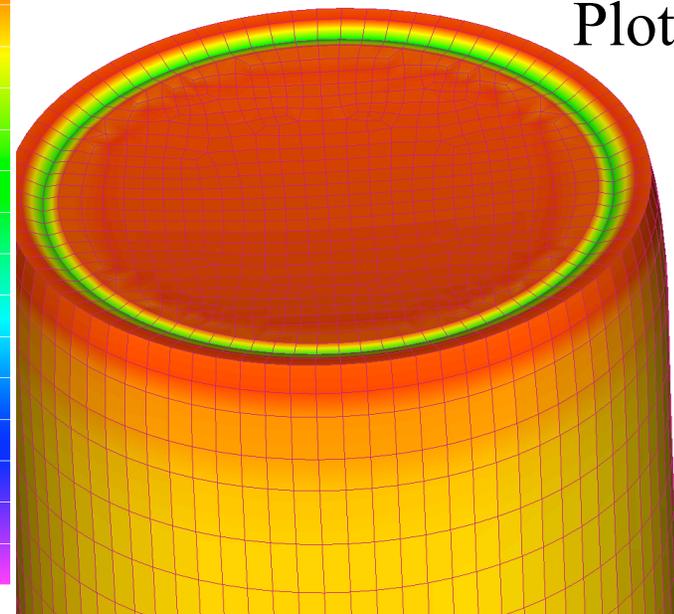
Discrete loading of Wavy Washer & Line contact at top of tube.



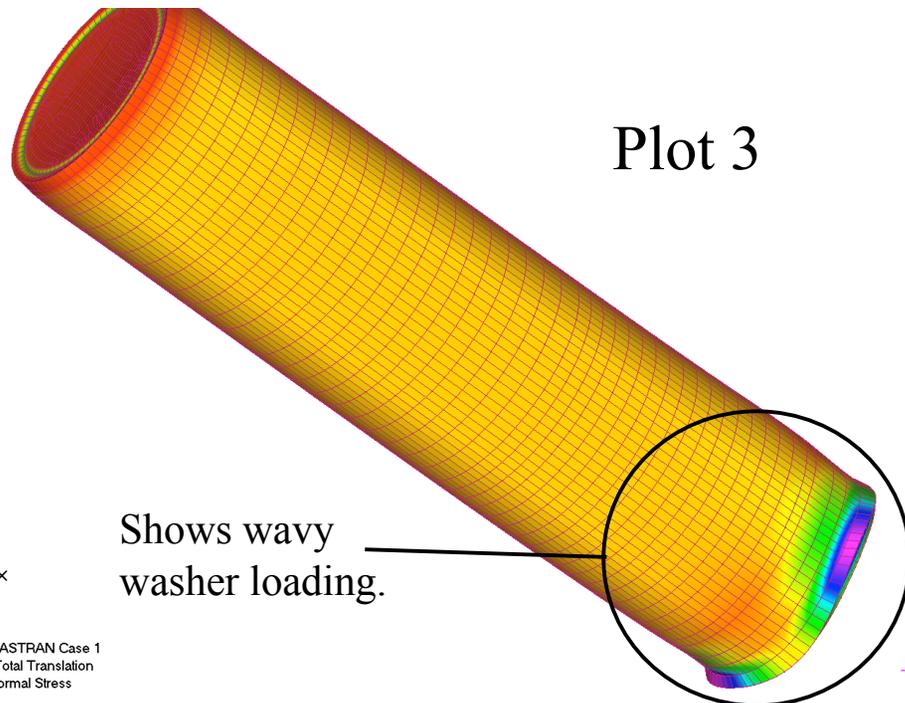
Plot 1



Output Set: MSC/NASTRAN Case 1
Deformed(0.112): Total Translation
Contour: Solid Z Normal Stress



Plot 2



Plot 3



Output Set: MSC/NASTRAN Case 1
Deformed(0.112): Total Translation
Contour: Solid Z Normal Stress

Shows wavy washer loading.

FEA assumes single line contact at top of tube and discrete loading of wavy washer.

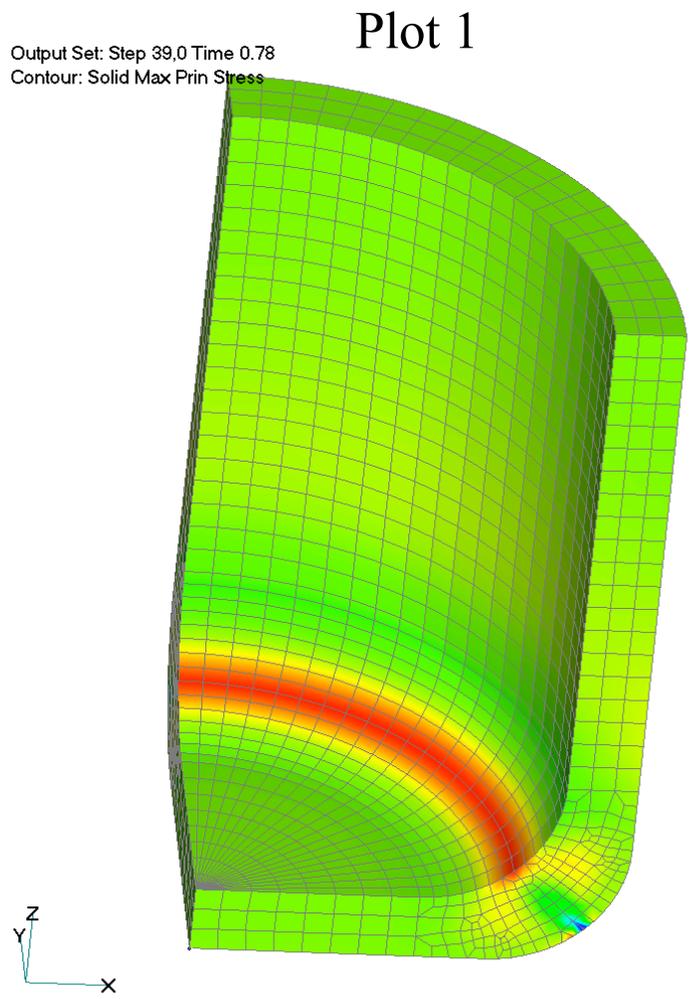
Plot 1 – Inner view of tube

Plot 2 – Close up of top of tube

Plot 3 – Outer surface of tube

ALL UNITS IN kPa.

Maximum and Minimum Principle Stresses



Units in psi

