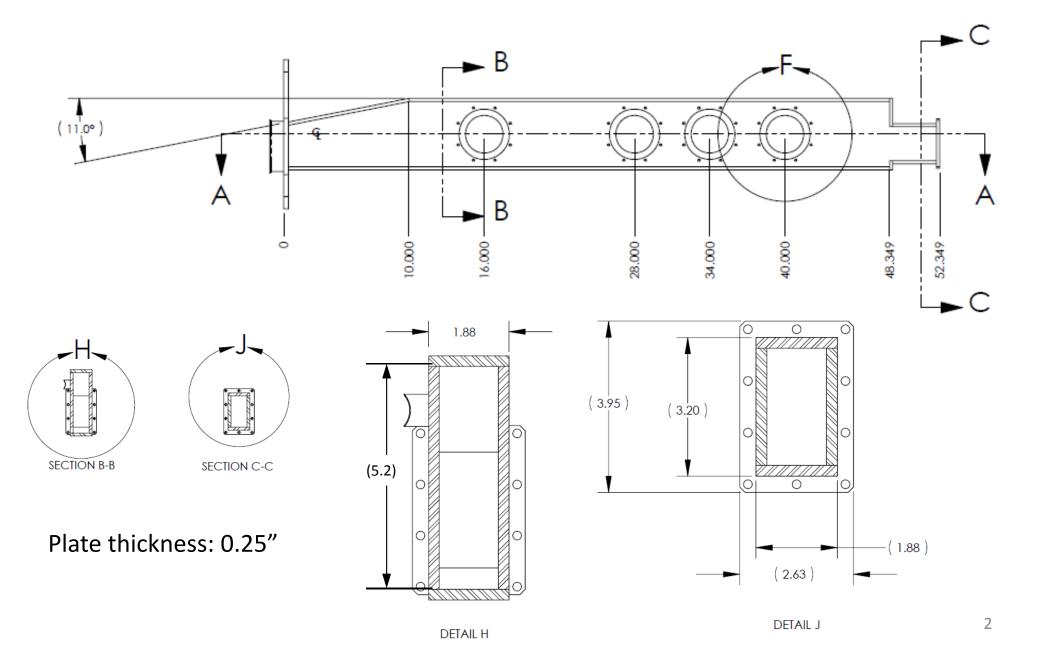
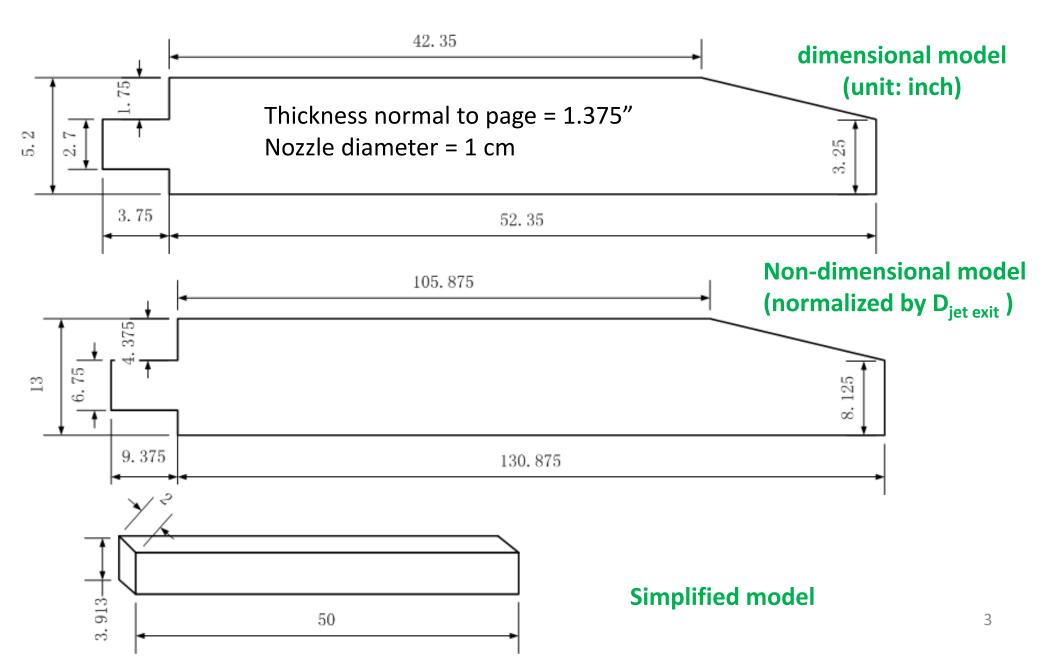
3 Dimensional Hg Jet Simulation Using Implicit LES Method

Yan Zhan May 2nd 2014

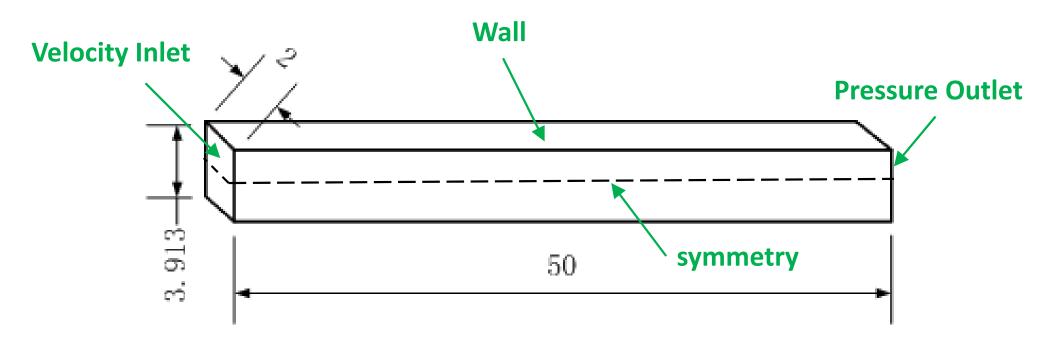
Schematics of Target System_ V GRAVES



Simplification Of The 3D Hg Jet

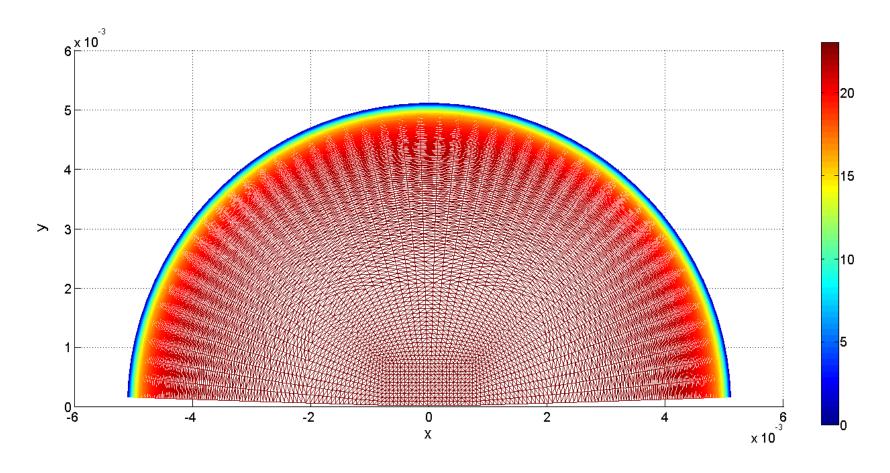


Boundary Conditions



X axis is in the short (2 unit) direction
Y axis is in the long (3.9 unit) direction
Z axis is in the very long (50 unit direction = direction of jet
No gravity in the model.

Axial Velocity Contour At The Jet Inlet (without weld bead)



$$u = U + sqrt(2k/3)$$
, where $k = \frac{1}{2}((u')^2 + (v')^2 + (w')^2)$
The x and y axes on this slide are rotated by

pipe simulation

90 deg compared to those on slide 4.