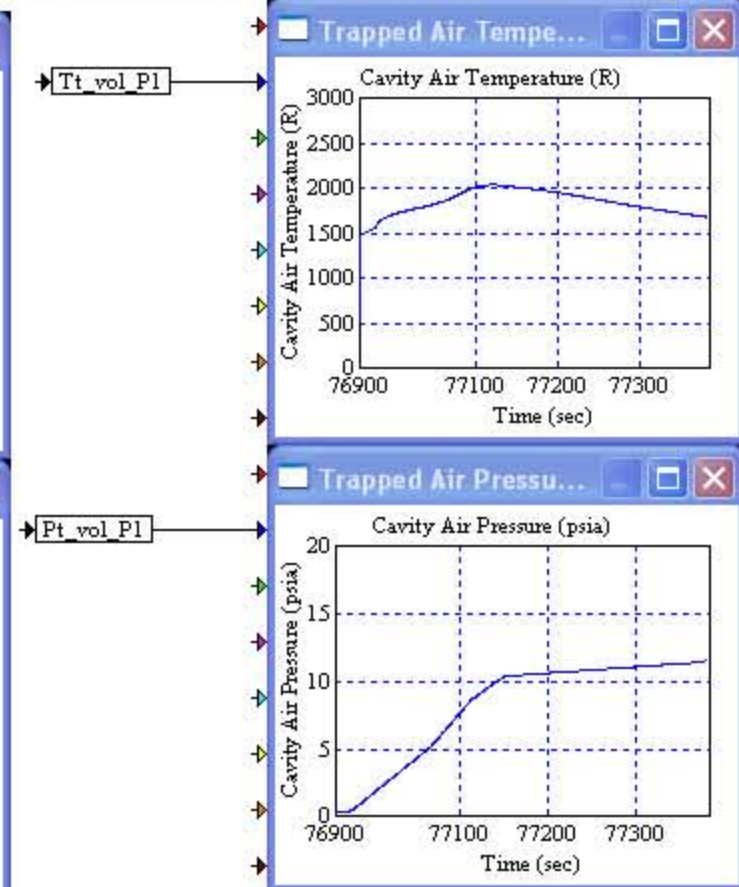
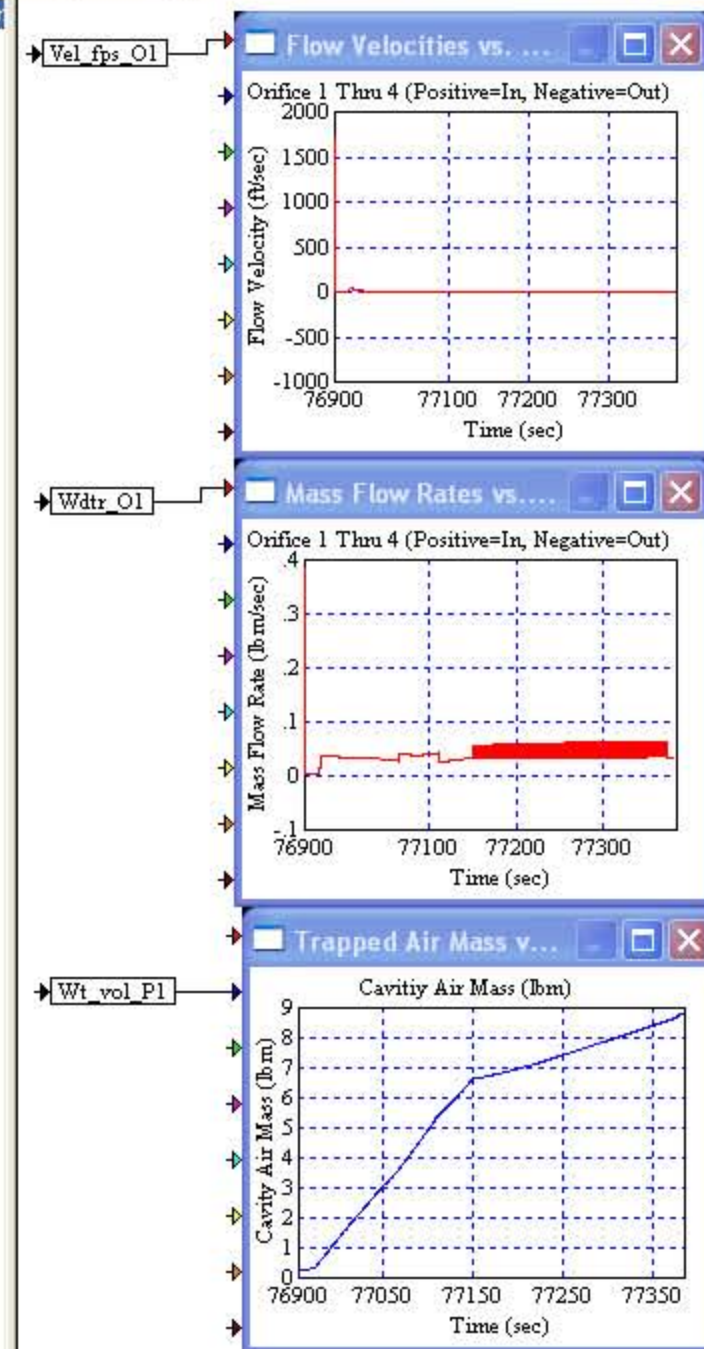




- OV_Intertank_Reentry_Thermal_Analysis_using_VISSIM_c1cb_oin.vsm
 - Plenum
 - Plenum
 - Input
 - Plenum Definition
 - calc Init Wt_vol_P1
 - Plenum Gas Prop's
 - Orifice Definition
 - Orifice State Variables
 - Connectivity
 - Sigma dWtr Plenum 1
 - Sigma dW_in Plenum 1
 - Sigma dTw_Wdt Plenum 1
 - Pt & Tt Plenum 1
 - Output
 - Calc Orifice Velocities
 - Orifices
 - Orifice 1
 - Orifice 2
 - Orifice 3
 - Orifice 4
 - Orifice 5
 - Orifice 6
 - Orifice 7
 - Orifice 8
 - Orifice 9
 - Orifice 10



Input	Plenum
Output	Orifices
Connectivity	
simulation time sec	77384
Mass Flow Rates (lbm/sec)	
Wdtr_O1	3.64263e-2
Orifice Areas (inch^2)	
A_O1	134.4
Flow Velocities (ft/sec)	
Vel_fps_O1	1.39523
Flow Temperatures (R)	
Tt_O1	730.98
trapped air mass (lbm)	
Wt_vol_P1	8.89451
plenum total press (psia)	
Pt_vol_P1	11.62
plenum total temp (R)	
Tt_vol_P1	1683.27



C:\0_afc_work\OV_Intertank_Reentr

Plenum

+ Plenum

Input

Plenum Definition

calc Init Wt_vol_i_P1

+ Plenum Gas Prop's

Orifice Definition

Orifice State Variables

Connectivity

Sigma dWtr Plenum 1

Sigma dW_in Plenum 1

Sigma dTw_Wdt Plenum 1

Pt & Tt Plenum 1

Output

Calc Orifice Velocities

Orifices

+ Orifice 1

+ Orifice 2

+ Orifice 3

+ Orifice 4

+ Orifice 5

+ Orifice 6

+ Orifice 7

+ Orifice 8

+ Orifice 9

+ Orifice 10

Init trapped air mass (lbm)

Init plenum total press (psia)

Init plenum total temp (R)

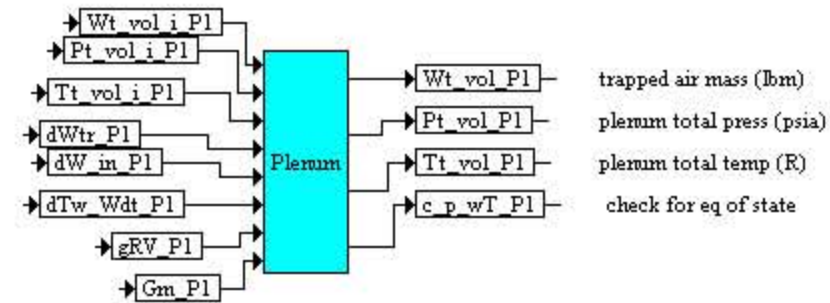
Sigma dWtr (lbm/sec)

Sigma dW_in (lbm/sec)

Sigma dTw_Wdt

weight constant (in^2-R)

ratio of specific heats

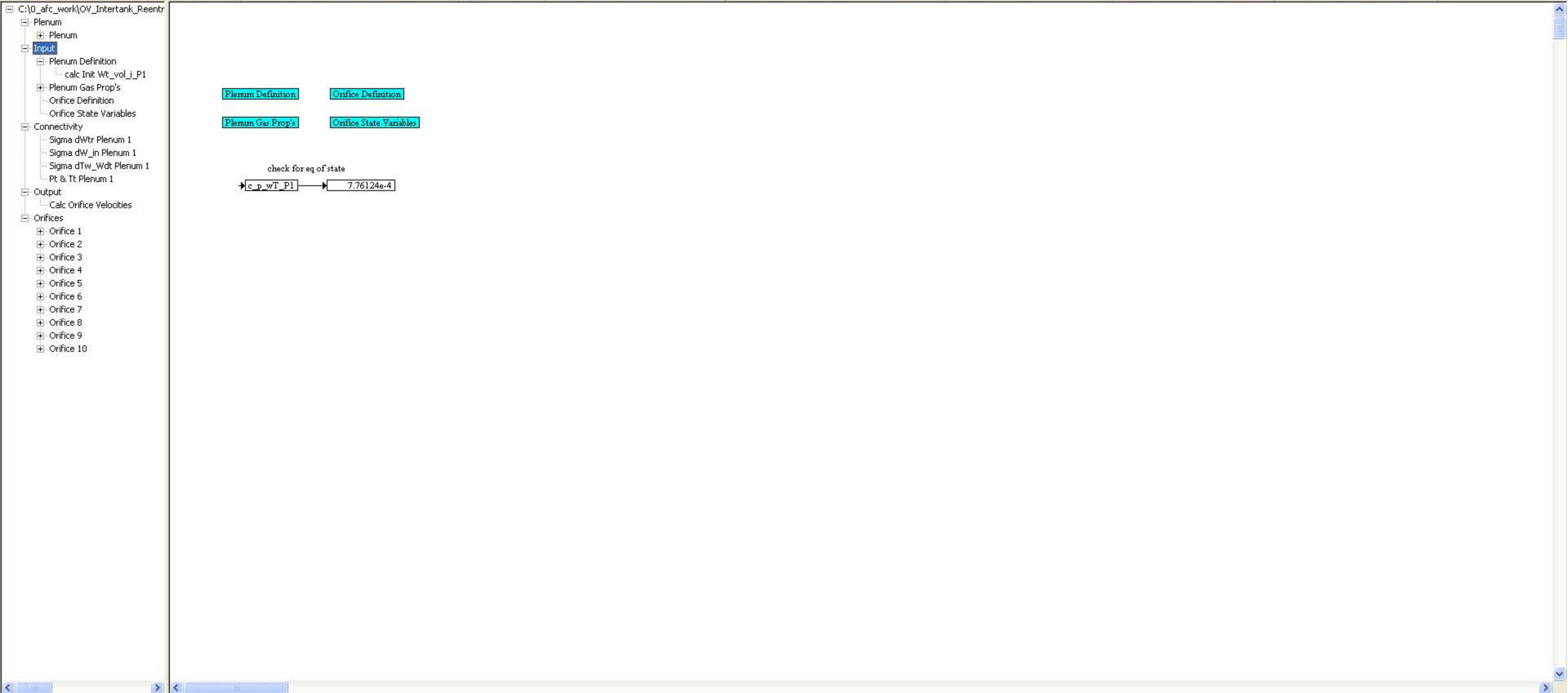


trapped air mass (lbm)

plenum total press (psia)

plenum total temp (R)

check for eq of state







C:\0_afc_work\OV_Intertank_Reentr

Plenum

+ Plenum

Input

Plenum Definition

calc Init Wt_vol_i_P1

+ Plenum Gas Prop's

Orifice Definition

Orifice State Variables

Connectivity

Sigma dWtr Plenum 1

Sigma dW_in Plenum 1

Sigma dTw_Wdt Plenum 1

Pt & Tt Plenum 1

Output

Calc Orifice Velocities

Orifices

+ Orifice 1

+ Orifice 2

+ Orifice 3

+ Orifice 4

+ Orifice 5

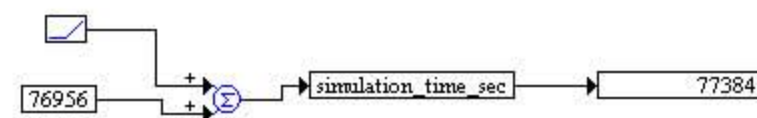
+ Orifice 6

+ Orifice 7

+ Orifice 8

+ Orifice 9

+ Orifice 10



Calc Orifice Velocities

