

Figure 1: OV Downcomer Air Flow Velocity vs Time From Separation

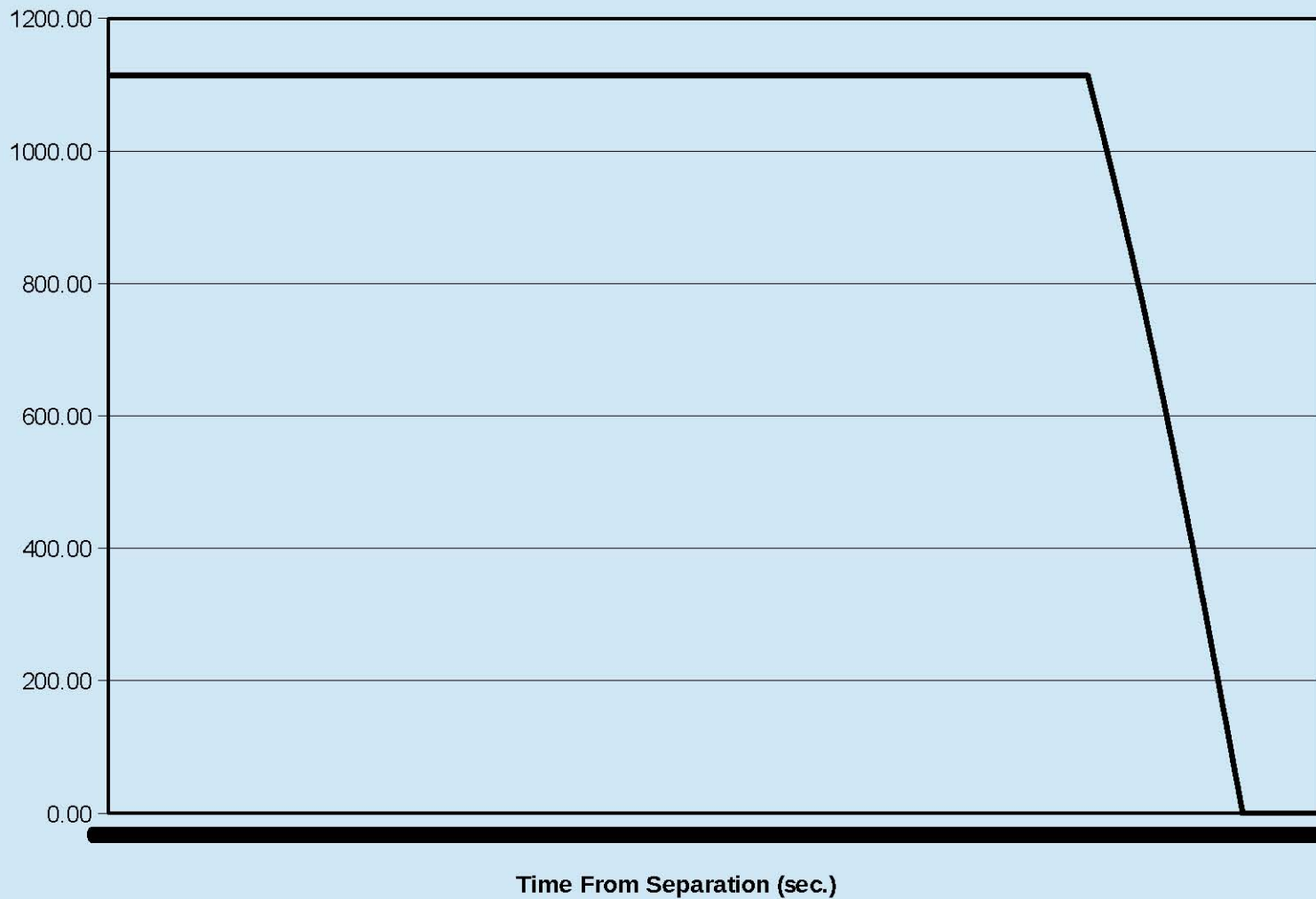


Figure 2: OV Downcomer Air Flow Mach No. vs Time From Separation

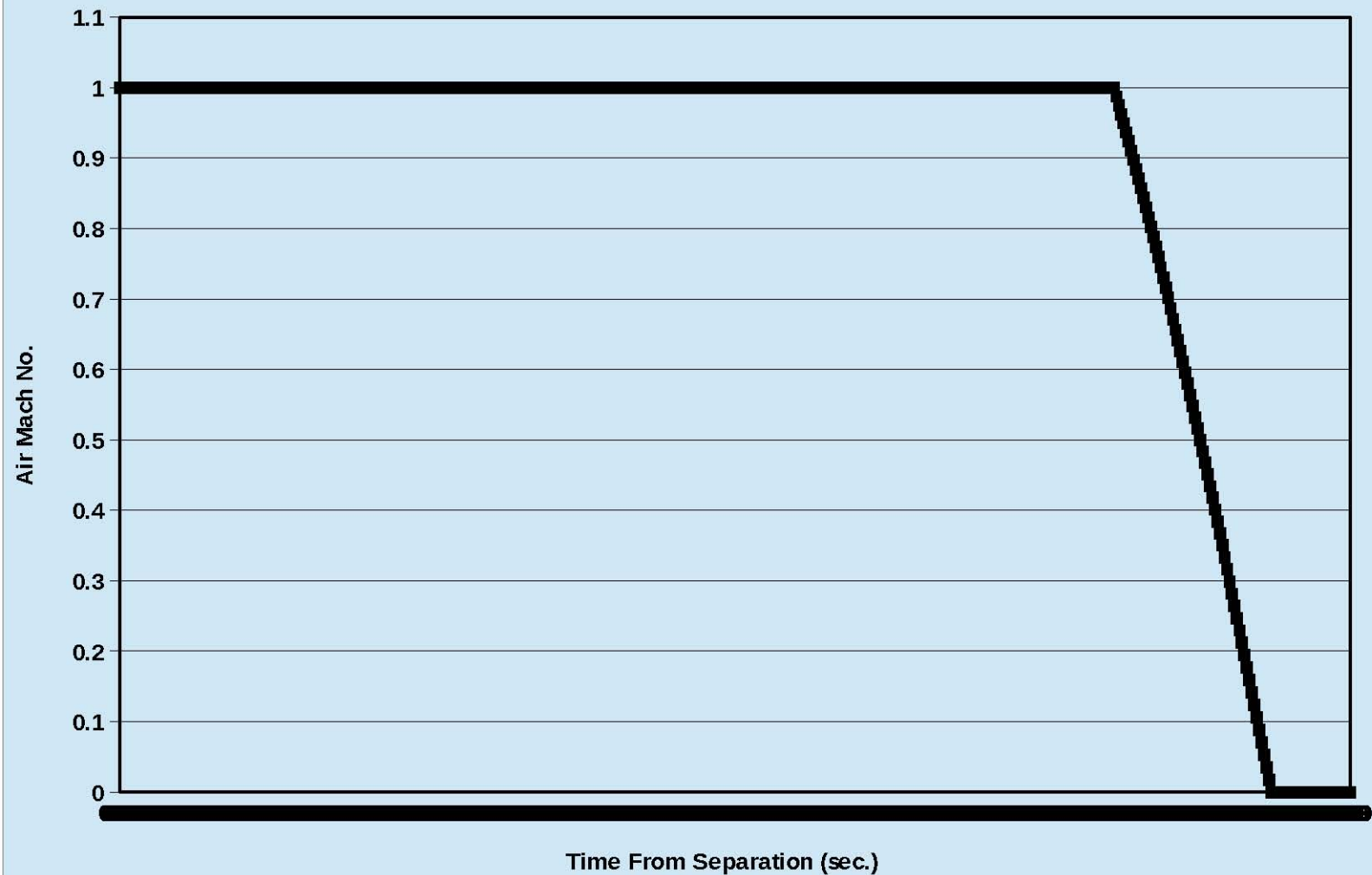


Figure 3: OV Downcomer Air Mass Flow Rate vs. Time From Separation

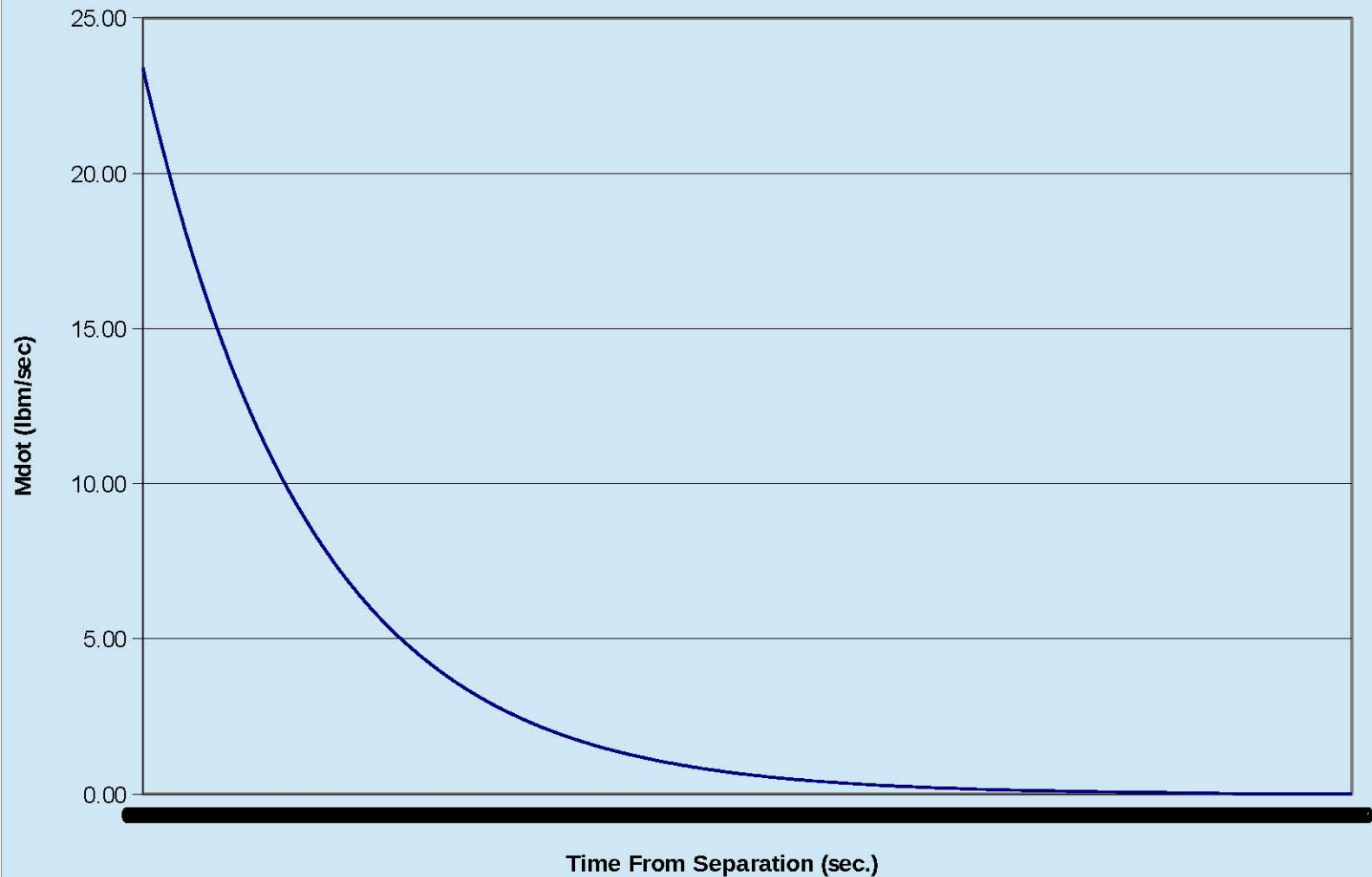
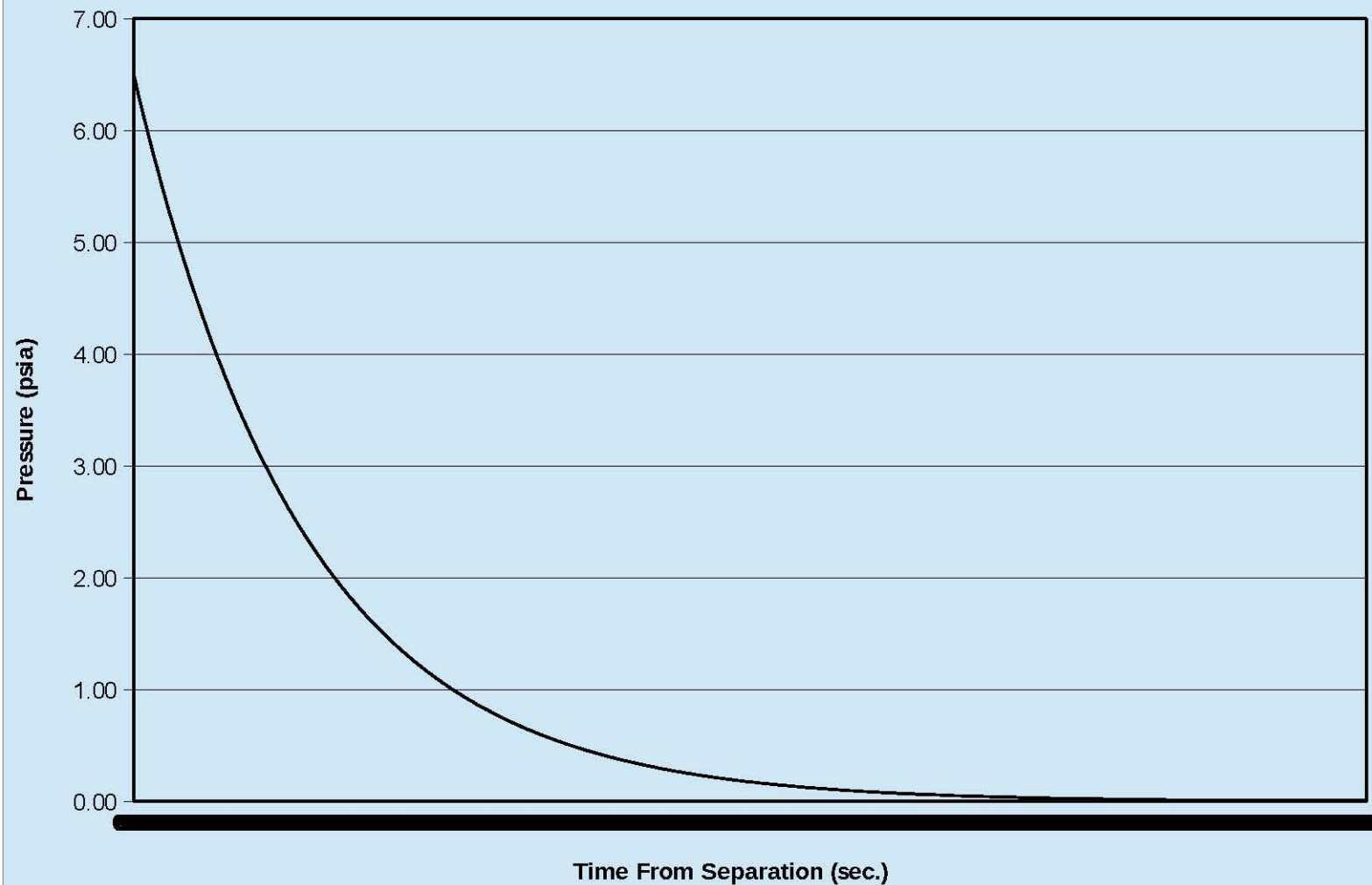


Figure 4: OV Intertank Air Pressure vs. Time From Separation



- C:\0_afc_work\OV_Blow_Down_From_Sep
 - Plenum
 - Input
 - Connectivity
 - Output
 - Orifices
 - 1976 Standard Atmosphere
 - calc Avg Absolute Velocity
 - calc Weighted Absolute Velocity
 - calc Sumation of Abs Mdot
 - Determine Flow Flags
 - Unit Conversions
 - calc Density Ratio
 - calc Convection Coeff.'s
 - calc Component Heat Transfer
 - Energy Balance Check
 - calc Delta P

Mass Flow Rates (lbm/sec)		Orifice Areas (inch^2)		Flow Velocities (ft/sec)		Flow Temperatures (R)	
Wdtr_O1	-6.34211e-6	A_O1	176.4	Vel_fps_O1	-113643	Tt_O1	515.01
Wdtr_O2	0	A_O2	0	Vel_fps_O2	1270.05	Tt_O2	669.08
Wdtr_O3	0	A_O3	0	Vel_fps_O3	1270.05	Tt_O3	669.08
Wdtr_O4	0	A_O4	0	Vel_fps_O4	1270.05	Tt_O4	669.08
Wdtr_O5	0	A_O5	0	Vel_fps_O5	1270.05	Tt_O5	669.08
Wdtr_O6	0	A_O6	0	Vel_fps_O6	1270.05	Tt_O6	669.08
Wdtr_O7	0	A_O7	0	Vel_fps_O7	1270.05	Tt_O7	669.08
Wdtr_O8	0	A_O8	0	Vel_fps_O8	1270.05	Tt_O8	669.08
Wdtr_O9	0	A_O9	0	Vel_fps_O9	1270.05	Tt_O9	669.08
Wdtr_O10	0	A_O10	0	Vel_fps_O10	1270.05	Tt_O10	669.08
Wdtr_O11	0	A_O11	0	Vel_fps_O11	1270.05	Tt_O11	669.08

Determine Flow Flags

calc Weighted Absolute Velocity

calc Avg Absolute Velocity

calc Sumation of Abs Mdot

Unit Conversions

calc Density Ratio

calc Delta P

Energy Balance Check

calc Component Heat Transfer

calc Convection Coeff.'s

simulation time sec

135

STD_ALT (ft)

134630

trapped air mass (lbm)

Wt_vol_P1

2.48986e-2

plenum total press (psia)

Pt_vol_P1

1e-2

plenum total temp (R)

Tt_vol_P1

515.01

delta_P_P1_Pinf (psia)

2.62608e-2

max_delta_P_P1_Pinf (psia)

2.6262e-2

min_delta_P_P1_Pinf (psia)

-6.46372

Input

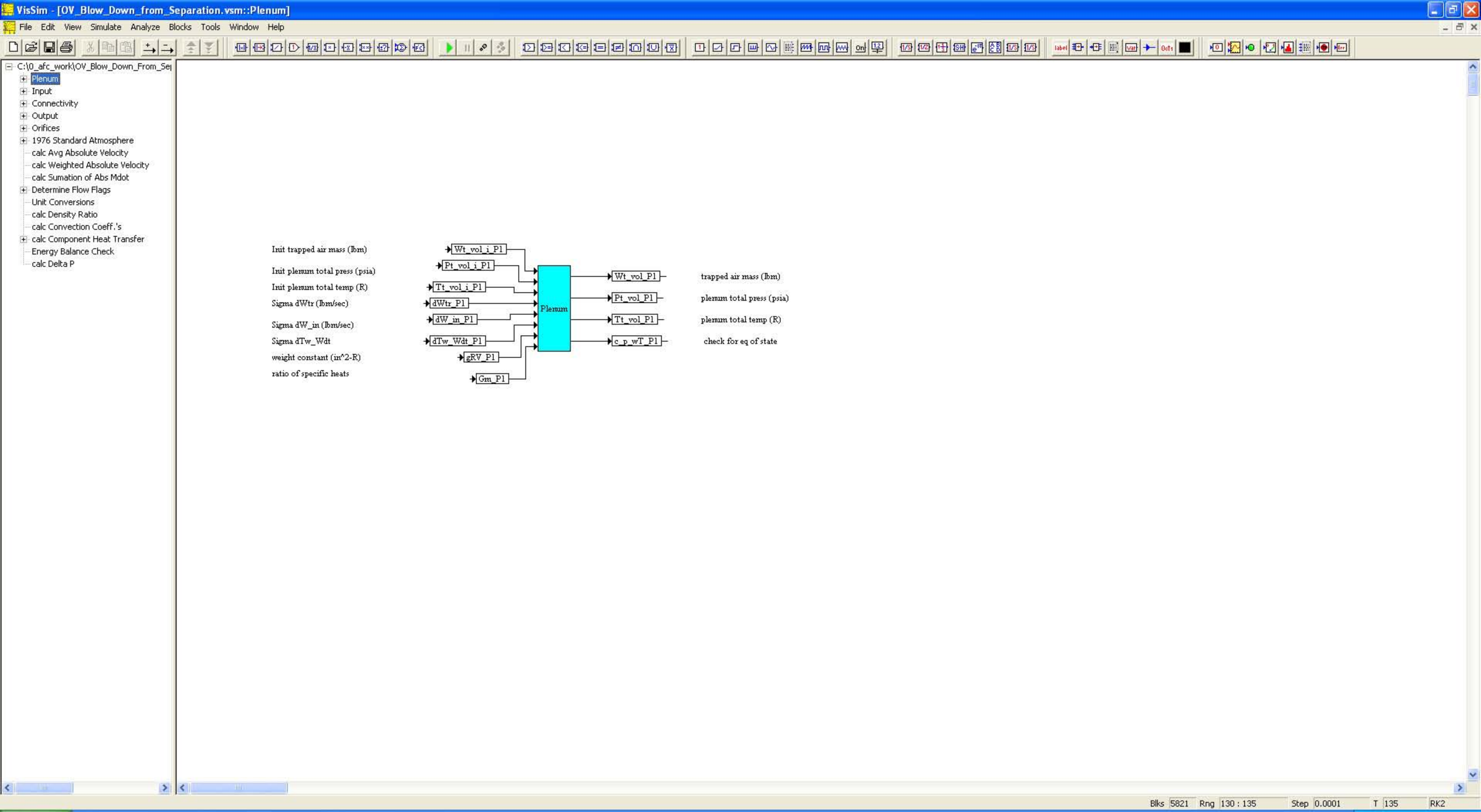
Plenum

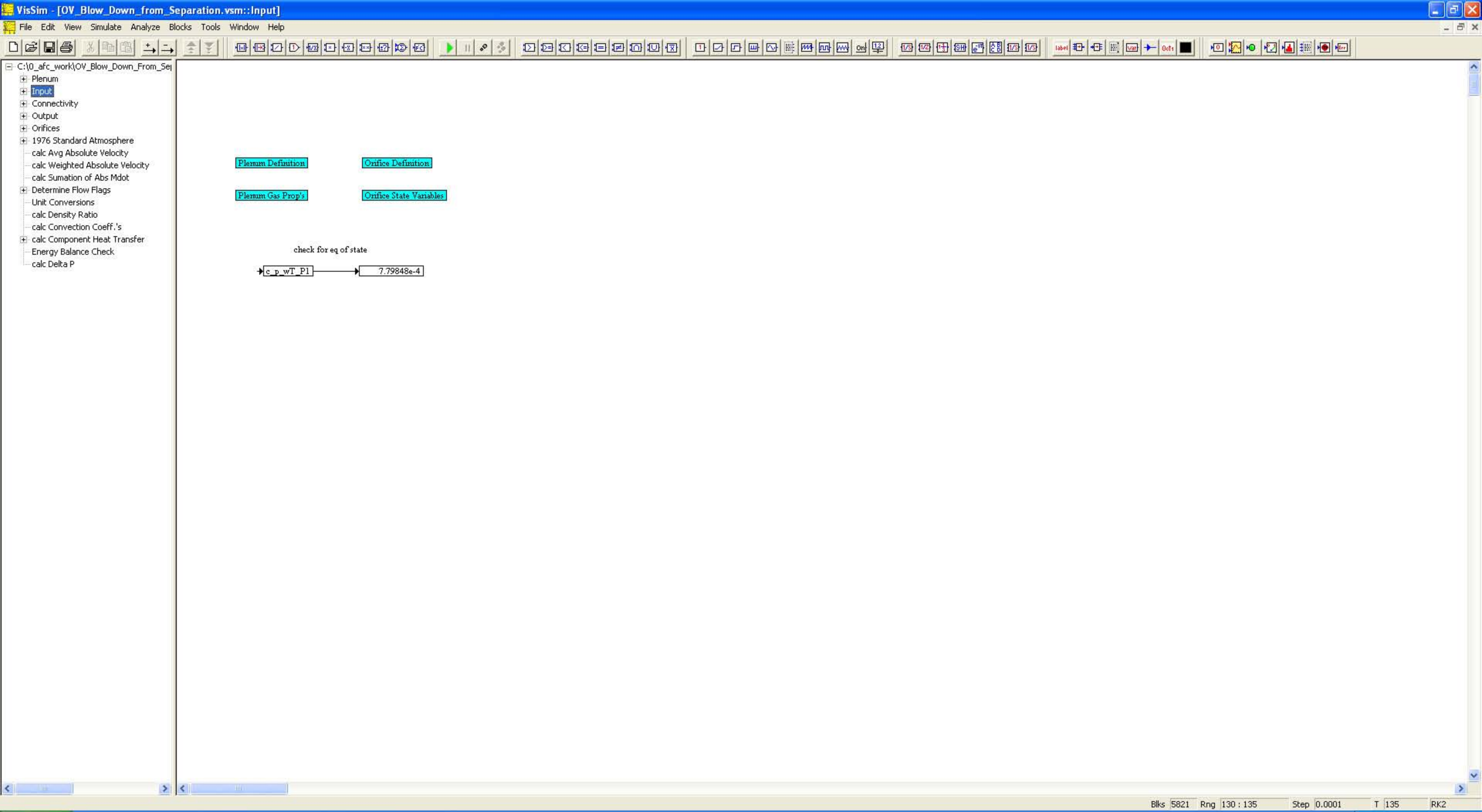
Output

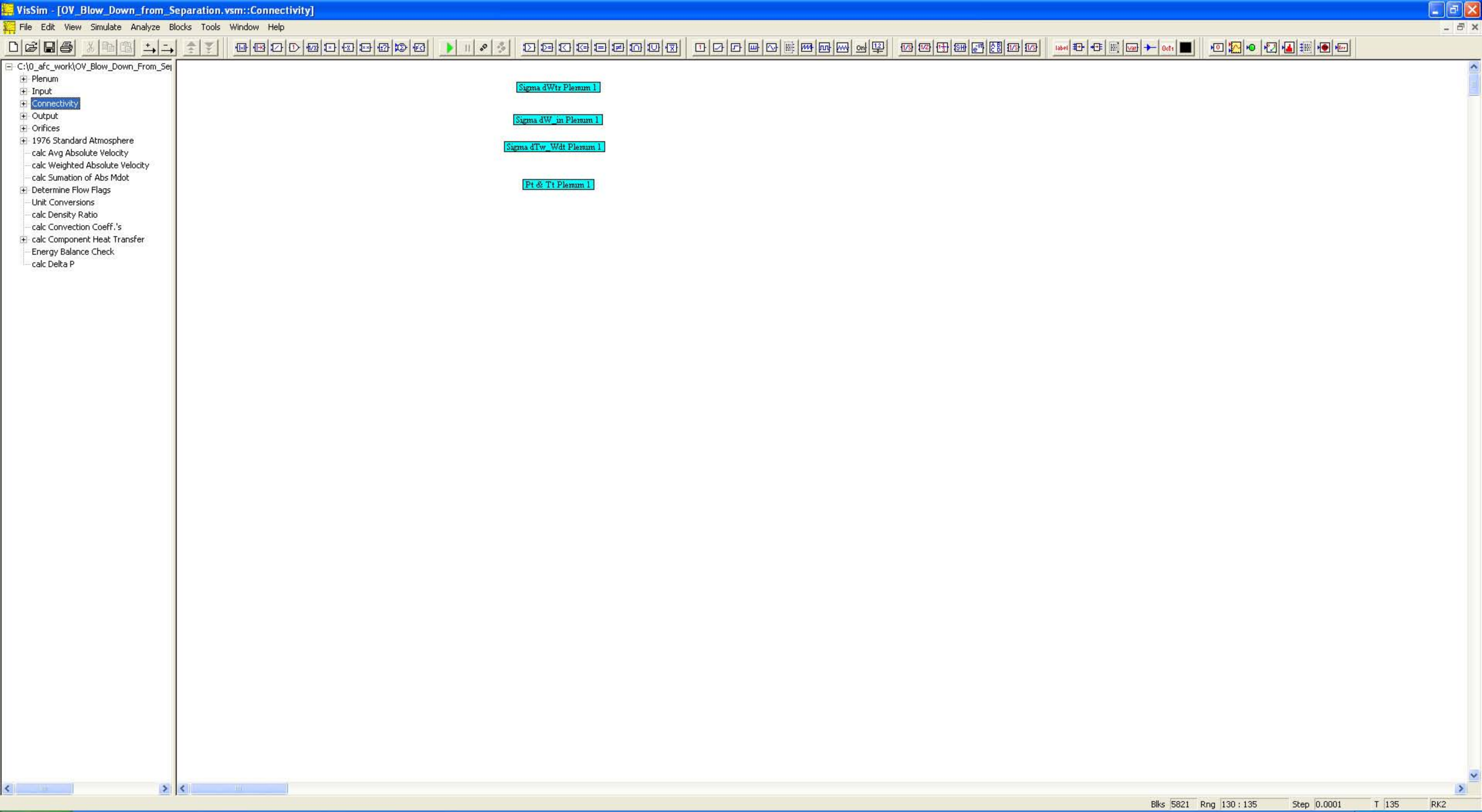
Orifices

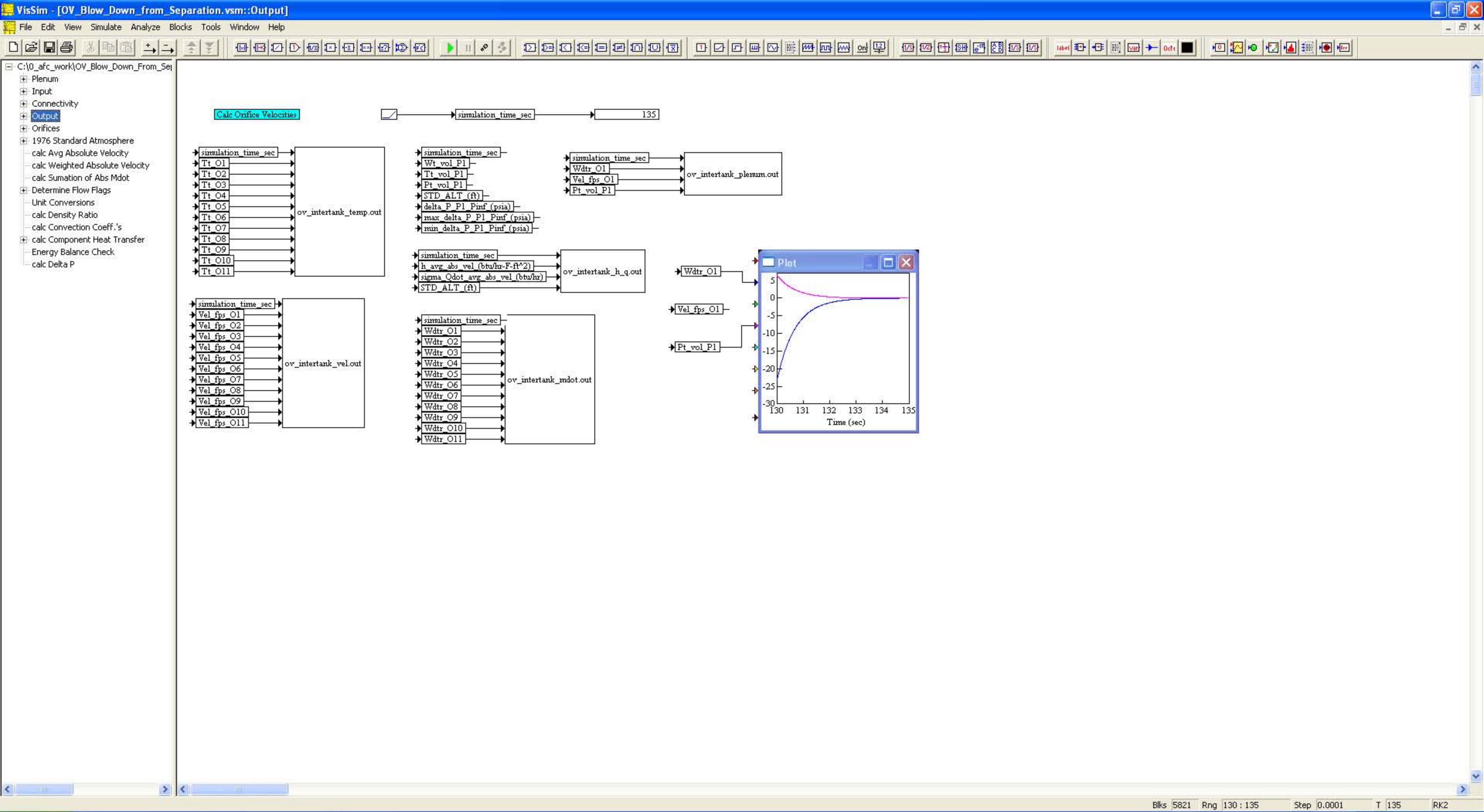
Connectivity

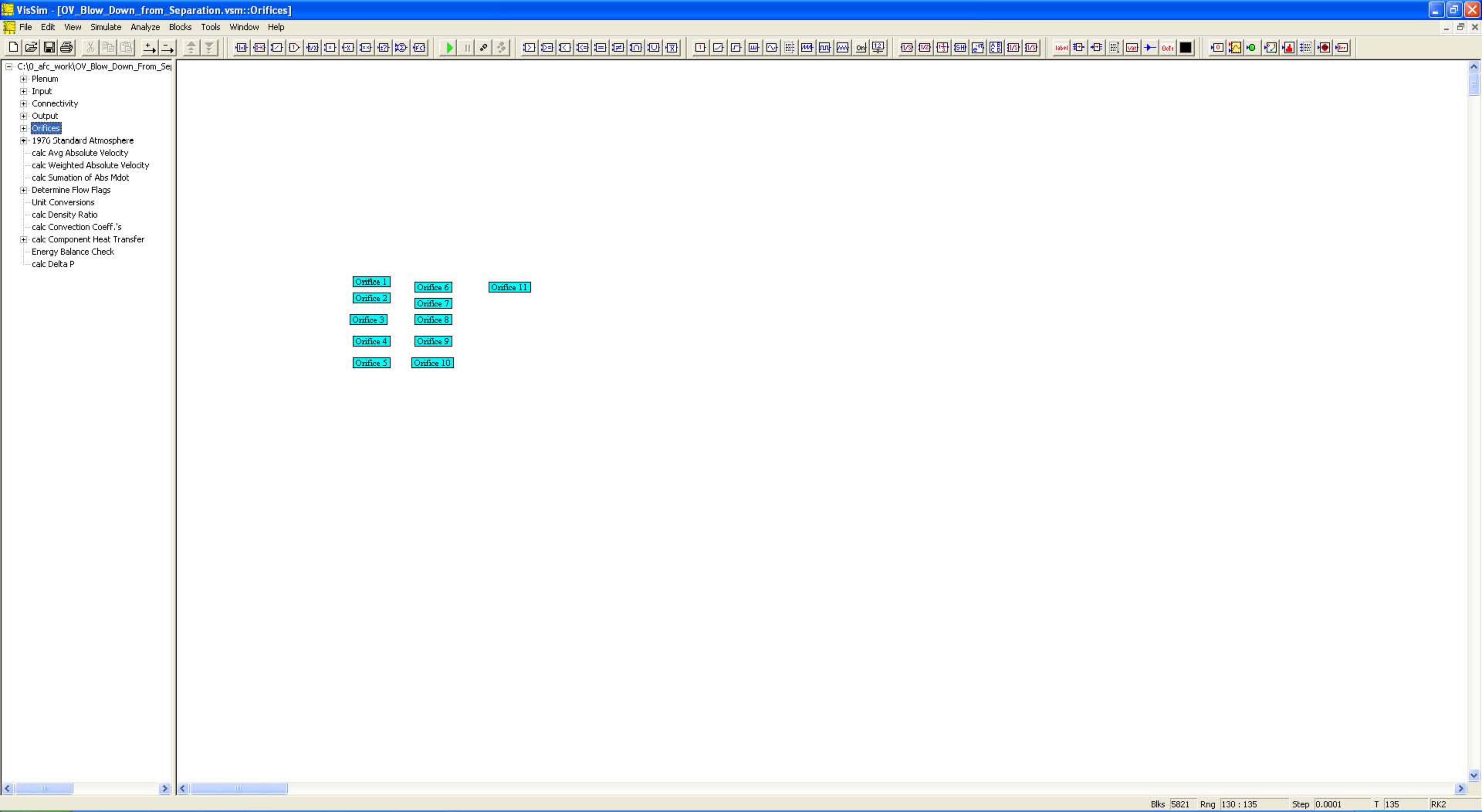
1976 Standard Atmosphere













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