

Unit 2	1st Stage	2nd Stage	3rd Stage
Ps, PT-3401	-0.5 psig	30.6 psig	114.3 psig
Ts, TT-3401	-42.7° F	20.4° F	89.0° F
Pd, PT-3402	30.6 psig	114.3 psig	328.5 psig
Stage Td	48.1° F	108.2° F	181.7° F
dP, Hw, FT-3401	5.9	12.3	10.1
Approx. Efficiency	78.5%	73.6%	64.2%
Stage Mass Flow	34635	119450	221728
Stage ACFM	4205	5041	3511
Stage Head	18467	17890	17113
Stage HP	412	1467	2984
Total HP	4863		
Σ Flow PT-3414	328.5		
Σ Flow TT-3406	187° F		
Σ Flow FT-3404	64.7		
Σ Flow, mmscf/d	48.35	48.35	221728
Air Cooler Outlet Temp	120° F		
Fuel Consumption	2.54		
NGP %	95.0%	14725	
NPT %	81.4%	11638	
Turbine Inlet Air Temp	85° F		
AFC Pcd	145		

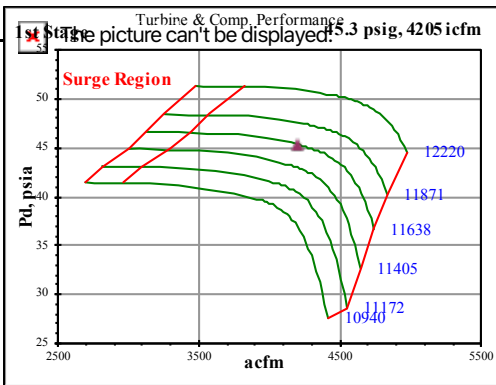
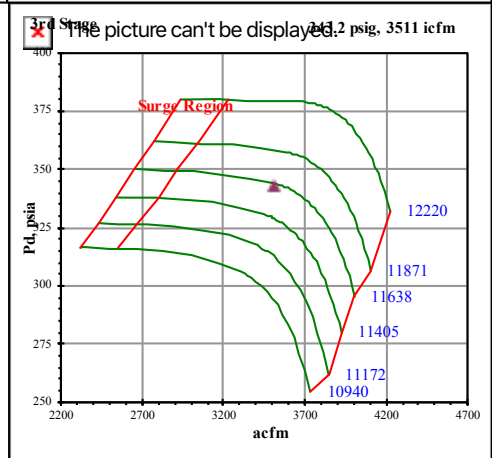
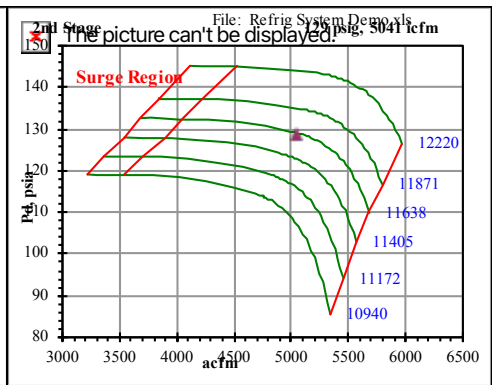


Chart Data: Absolute Pressures, #'s/min, & icfm.

Ps, psia	14.2	45.3	129.0
Pd, psia	45.3	129.0	343.2
#'/min	577.2417	1990.833	3695.467

45.3 psig, 129 psig, 5343.2 psig, 3511 icfm



Other Data & Calcs - Flow C', Patm, Rgas, Average k, Zs, Zd, Zav, & LHV.

1st Stage Annubar C'	14209.7	Z _{1s}	0.9711	Patm	14.7	ρ ₁	0.1372
2nd Stage Annubar C'	24150.0	Z _{2s}	0.9353	Ru	10.73151	ρ ₂	0.3949
3rd Stage Annubar C'	32217.9	Z _{3s}	0.8688	1st kavg	1.157	ρ ₃	1.0524
Total Flow Orifice C'	412583.4	Z _{1d}	0.9447	2nd kavg	1.137	Z _{1avg}	0.9579
MoleW1	41.999	Z _{2d}	0.8810	3rd kavg	1.118	Z _{2avg}	0.9082
MoleW2	42.007	Z _{3d}	0.7658	3 rd LHV	2197	Z _{3avg}	0.8173
MoleW3	41.735						

