

File: C:\Program Files (x86)\GasTurb\GasTurb10\RF\_7off.CYJ - modified

Date: 18Aug22

Time: 18:31

Turbojet SL Mn=-0.137 ISA + 6 C 60% Relative Humidity

|                |        |                |              |        |           |   |         |
|----------------|--------|----------------|--------------|--------|-----------|---|---------|
| Station        | W      | T              | P            | WRstd  | FN        | = | 0.22    |
| amb            |        | 294.25         | 101.325      |        | TSFC      | = | 29.3577 |
| 2              | 0.435  | 293.15         | 99.000       | 0.450  | FN/W2     | = | 506.04  |
| 3              | 0.435  | 484.23         | 386.100      | 0.148  | Prop Eff  | = | 0.0000  |
| 31             | 0.387  | 484.23         | 386.100      |        | eta core  | = | 0.1689  |
| 4              | 0.393  | 1100.00        | 362.934      | 0.215  |           |   |         |
| 41             | 0.415  | 1070.08        | 362.934      | 0.224  | WF        | = | 0.00646 |
| 49             | 0.415  | 894.51         | 159.877      |        | s NOx     | = | 0.08430 |
| 5              | 0.437  | 875.22         | 159.877      | 0.484  | XM8       | = | 0.8280  |
| 6              | 0.437  | 875.22         | 156.679      |        | A8        | = | 0.0023  |
| 8              | 0.437  | 875.22         | 156.679      | 0.494  | P8/Pamb   | = | 1.5463  |
| P2/P1 = 0.9900 |        | P6/P5 = 0.9800 | CD8 = 0.9394 |        | Ang8      | = | 20.00   |
| Efficiencies:  | isent  | polytr         | RNI          | P/P    | W NGV/W2  | = | 0.05000 |
| Compressor     | 0.7203 | 0.7669         | 0.949        | 3.900  | WCL/W2    | = | 0.05000 |
| Burner         | 0.9900 |                |              | 0.940  | Loading % | = | 100.00  |
| Turbine        | 0.9000 | 0.8903         | 0.398        | 2.270  | e45 th    | = | 0.87854 |
| Spool mech     | 0.9900 | Nominal        | Spd          | 117000 | WBld/W2   | = | 0.01000 |
| Bleed Air:     | PBld = | 386.10         | TBld =       | 484.2  | PWX       | = | 0.00    |
|                |        |                |              |        | ZWBld     | = | 0.00000 |

|         |         |        |         |
|---------|---------|--------|---------|
| hum [%] | war0    | FHV    | Fuel    |
| 60.0    | 0.00889 | 43.124 | Generic |

Iteration Variables:

Isentr.Compr.Efficiency (0...0.99) = 0.720313

Iteration Targets:

Net Thrust = 0.22