GT Pro

- Developed by Thermoflow, Inc.
- Primary use: **Detailed** design of industrial gas turbine applications with/without HRSG and/or combined cycle
- Does not provide baseline comparison (e.g., existing utility system)
- Data libraries: Gas turbines only
- CHP applications: Process steam
- Analysis duration/time step: between 8 and 40 years; annual
- Economic analyses: cash flow, payback, NPV, IRR
- Cost: $7,000 (http://www.thermoflow.com/)
- Demo version available on CD

Input to GT Pro Is Through On-Screen Windows

GT PRO 10.3.2 DEMONSTRATION - c:\Tflow7\MYFILES\GTPRO.GTP

File View Options Navigator Window Excel Link Help

Navigator

New Session

Start Design
Plant Criteria
GT Selection
GT Inputs
ST-HRSG
HRSG Inputs
Water Circuits
HRSG Layout
Cooling System
ST Inputs
Other PEACE
Economics

Compute

Text Output
Graphics Output
PEACE Output
Multiple Runs
Off Design

HRSG Main Inputs | Thermodynamic Design Assumptions | Hardware Design | Radiant Boiler | Miscellaneous | Equipment Options

Duct Burner Fuel
Gas turbine fuel
Modify fuel | DB Emissions

Duct Burner
Included, specify exit temperature
Exit temperature 0 °F
Dilution air as percent of exhaust flow 0 %

Additional Duct Burner (HPB2 burner)
Not in plant

Min stack temperature for warning 200 °F

Steam Generation Dictated By
Pinch | Mass flow

Gas Flow Direction
Horizontal | Vertical

to DA

LP
Pinch 15 °F
Blowdown percentage 0 %

IP
Pinch 36 °F
Approach subcooling 10 °F
Blowdown percentage 1 %

HP
Pinch 36 °F
Approach subcooling 10 °F
Blowdown percentage 1 %

No blowdown recovery

Total GT exhaust draft loss 10 in H2O
HRSG-only draft loss 8 in H2O

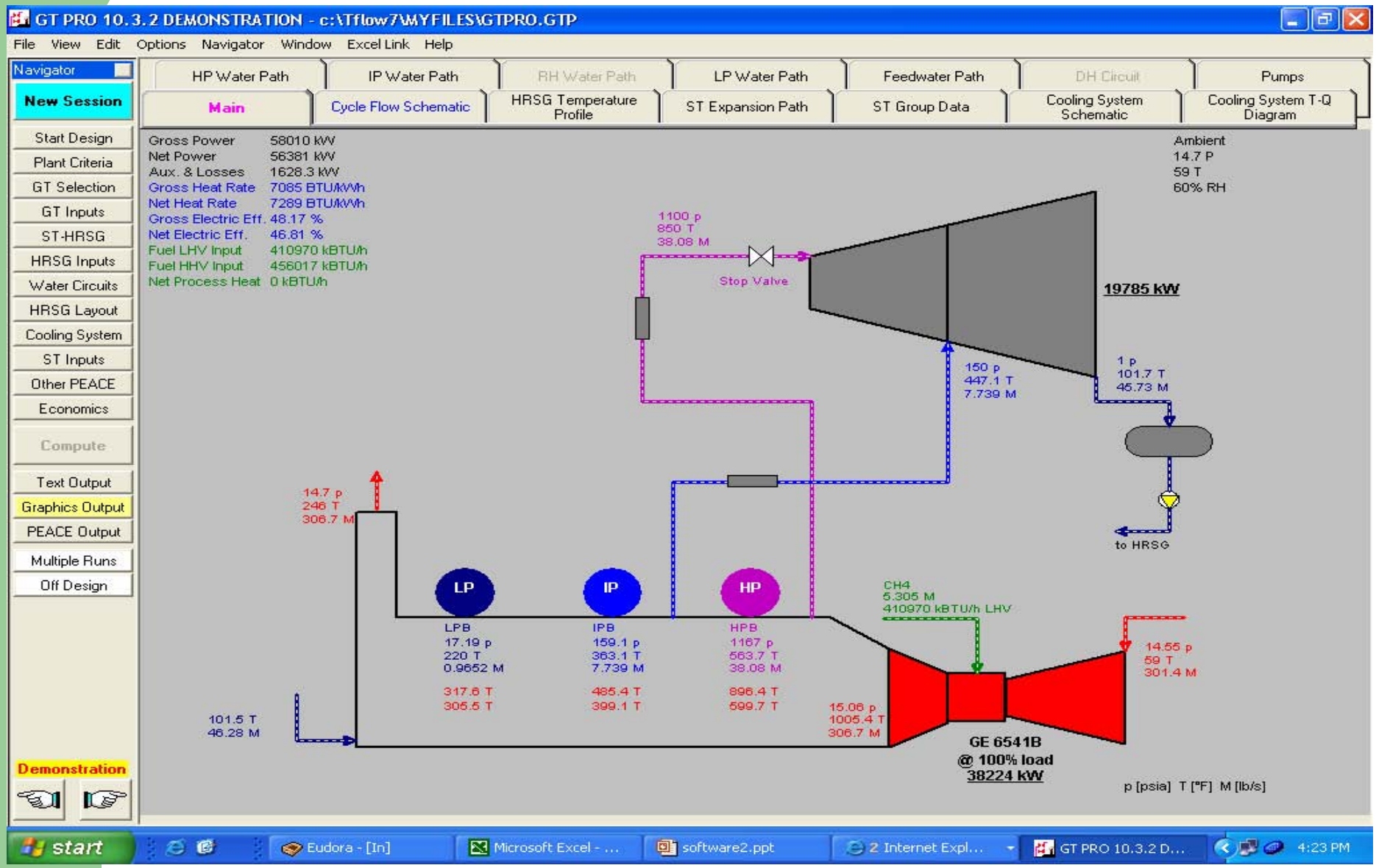
Fresh-air dilution 0 %
Exhaust bypass 0 %

Demonstration

Guidance

start | Eudora - [In] | Microsoft Excel - ... | software2.ppt | 2 Internet Expl... | GT PRO 10.3.2 D... | 4:20 PM

GT Pro Provides Detailed Text and Graphical Output Through On-screen Windows and Printed Reports



GT Pro Output

- ***Voluminous*** text and graphic output to screen or printer
- Output includes:
  - design and operation parameters
  - heat and mass balances
  - project economics
  - preliminary engineering details