

Simulation and SCO2 Applications

Presented by Patrick Geiger

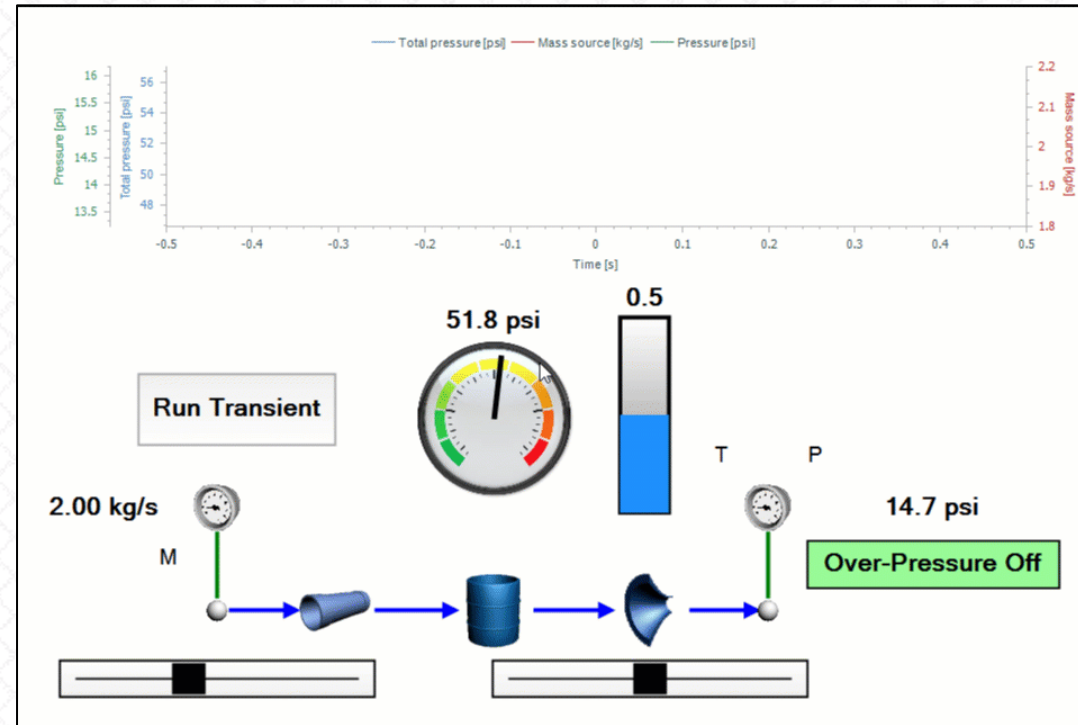


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FLOWNEX

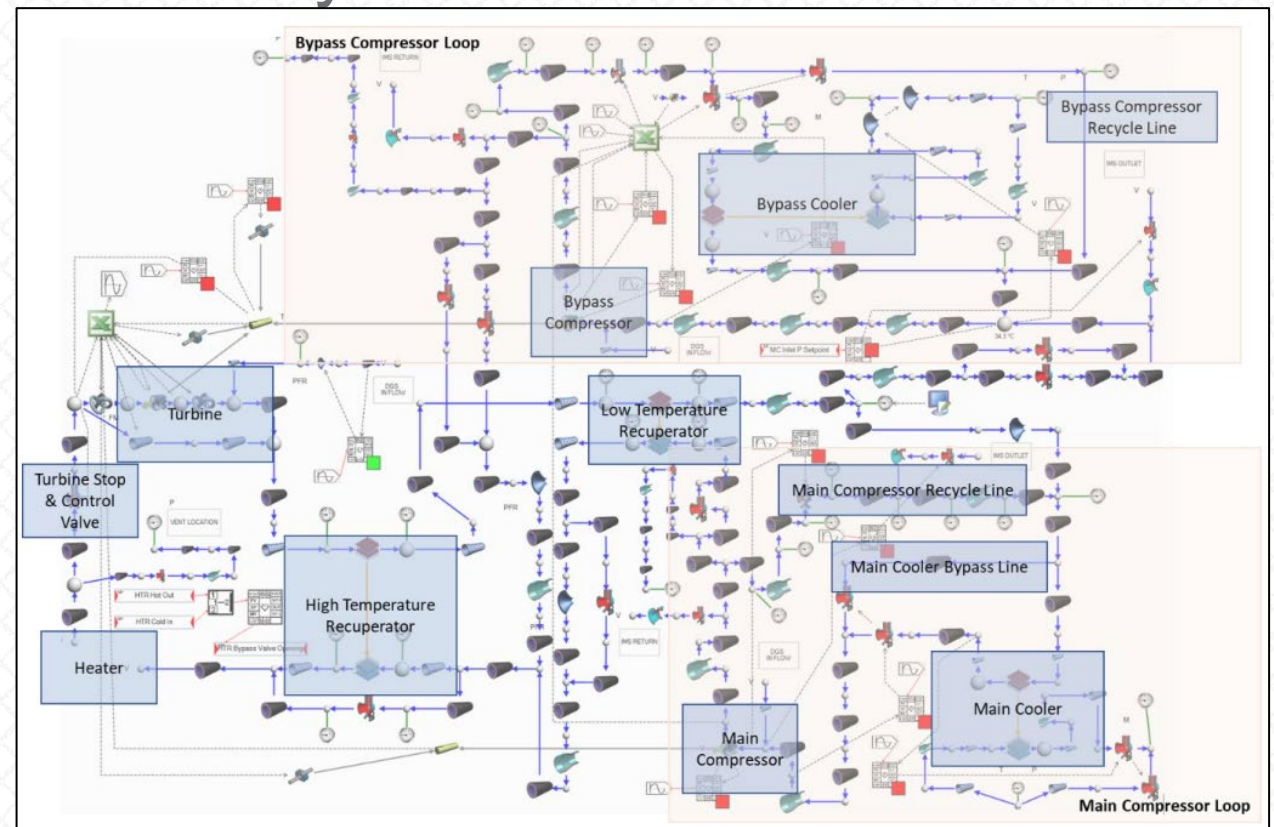
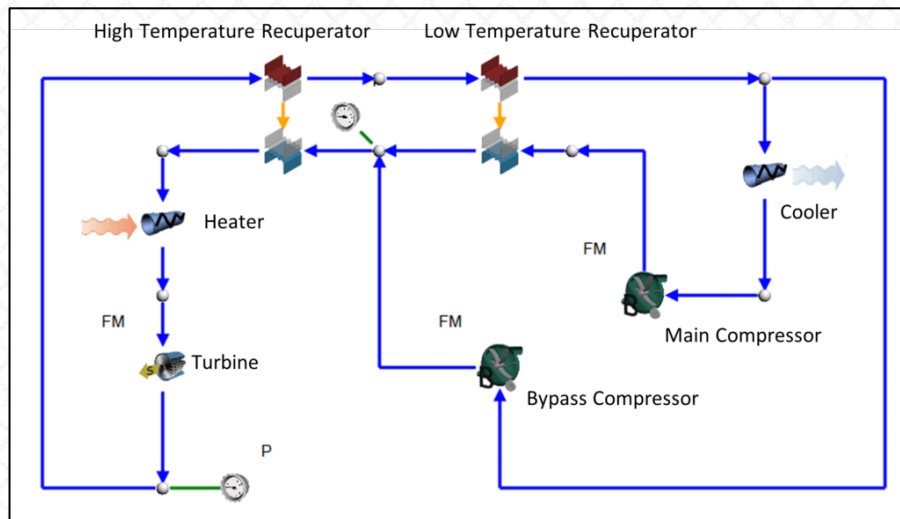
Dynamic System Modeling

- Understanding Transient Behavior
- Operator Training / Human Machine Interface
- On and Off-Design Scenario Modeling



Cycle Configuration and Optimization

- Maximum power output vs Efficiency?
- Performance Prediction
- Cost Optimization
- Natural Circulation



Recompression Brayton Cycle Network – Courtesy GTI

Recent Flownex Enhancements

- Non-Iterative Transient Solver
- Batch Runs
- Parallel Monte Carlo Analysis
- Improvements to Python Integration
- Reduced Order Model (ROM) Builder



Questions?



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