SimSci® ROMeo® Gas Plant Process Manager (GPPM) enables you to take control — to drive your gas plant to greater profitability. GPPM takes away the headaches and removes the simple mistakes to help you operate more efficiently. This new concept in online operations decision support helps your unit evolve into a predictable, controllable system that runs more smoothly than before. This solution will not only allow you to fully see and understand what is happening inside the pipes and vessels, but will also give you an intelligent, actionable list of tasks to prepare for, or avoid, problems. GPPM will help you run more efficiently to improve your profitability.
FEATURES

- Integrated turn-key package
- Easy-to-use Microsoft® Excel interface
- Completely automated with direct access to live process data
- Acts as a soft sensor for unmeasured process values
- Detailed, automated daily and weekly role-based reporting

BENEFITS

GPPM serves as a support system that provides guidance for operations and maintenance decisions. Benefits include:

- Enhanced asset reliability
- Input for a proactive maintenance program
- Improved plant efficiency
- Increased personnel effectiveness leading to greater market agility
- Determine the impact of equipment efficiency on plant profitability
- Evaluate the economic benefits gained from process improvements
- Prioritize work lists for underperforming equipment and faulty instrumentation, based on real economics

GPPM Equals Profitability

LOWER OPERATING COSTS – Equipment Efficiency Monitoring
SimSci GPPM looks at the real process and economic effects of equipment efficiency degradation and evaluates the impact of servicing that equipment. Often, the most fouled exchanger or most inefficient compressor isn’t the one with the highest economic impact. GPPM provides an integrated model to monitor all of your rotating equipment (turbines, compressors, expanders and pumps), distillation towers and heat exchangers to allow determination of the interactions of various plant components. GPPM not only identifies current readings, but with the Excel-based “what-if” analysis, can pinpoint where operations should be for highest efficiency and return.

OPTIMIZED OPERATIONS – Advisory Optimization
GPPM is tied to real-time process and economic data, providing the most current depiction of plant conditions and profitability. It enables nonlinear optimization using flexible and configurable objective functions, to yield the most accurate advice that matches the operating goals. GPPM provides reusable models for offline and online optimization, providing a consistent and current tool as modeling requirements change.

IMPROVED PRODUCTIVITY – Automate The Routine
Process engineers are burdened with more and more work these days. GPPM will offload various daily tasks so that engineers can focus on more important issues. Automated calculations and reporting detailing past, current, and predicted unit performance is just a part of GPPM.

BETTER MAINTENANCE – Instrument Reporting
GPPM performs data reconciliation and material balance calculations to guide users to the recognize, and remediate, the instruments in greatest need of calibration or repair.

Soft Sensor
Most gas plants struggle to close material balance due to unmetered bypasses. GPPM’s soft sensor capabilities can help fill in those missing blanks, making it easier to understand how the unit is actually running.
SIMPLIFYING LIFE – Easy To Use
GPPM uses Microsoft Excel as the primary interface for both input and data reporting, making it a familiar, comfortable working environment for most unit engineers. But don’t let that comfort fool you — there is a fully rigorous model underneath.

We Take on the Maintenance
Engineers don’t have time to be updating and maintaining process models. That’s why GPPM takes the maintenance concerns off your task list. The package includes two weeks of annual software maintenance at no additional cost.

Increased Accuracy
Since GPPM is fully automated, the data is accurate and consistent. There are no concerns about typing in a value wrong or missing a unit of measure. GPPM takes care of those issues and gives you consistent quality data, every day.

### Profit Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>Flow</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed/Utility Cost</td>
<td></td>
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</tr>
<tr>
<td>Offshore (MMft3/Day)</td>
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<td>Onshore (MMft3/Day)</td>
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<tr>
<td>Total Plant Cost</td>
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<tr>
<td>Product Value</td>
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<tr>
<td>NGL (BBL/HR)</td>
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<td>Total Product Value</td>
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<tr>
<td><strong>Overall Profit</strong></td>
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<td><strong>$782/hr</strong></td>
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ROMeo Gas Plant Process Manager

No Shortcuts
GPPM is filled with features to make the right choice easy. Benefit from the following:

- Rigorous model-driven application
- Integrated model of fractionation, rotating equipment and heat exchanger
- Excel input sheets for feed quality and pricing
- Fully configured and automated reports for:
  - KPIs (liquid recovery, specific processing cost, shrinkage)
  - Material Balance
  - Rotating equipment efficiency and impact on profitability
  - Exchanger Fouling/Ranking Report
  - Tower Efficiency Report
  - Daily Engineering Report
  - Weekly management report
- Quick delivery and quick return on investment
- On-site application training
- Annual maintenance support

Design-Operate-Optimize a Safe and Profitable Plant
For over 40 years, SimSci advanced applications have improved asset performance and utilization with integrated simulation, optimization, training, and process control software and services. Spanning the entire lifecycle of modern processing facilities, customers range from novice users to executive experts within a variety of industries, including oil and gas exploration and production, petroleum refining, petrochemical and specialty chemical manufacturing, power generation, EPC, and more. Benefit from software products, solutions, and services that minimize capital demands, optimize facility performance, and maximize investment returns.