

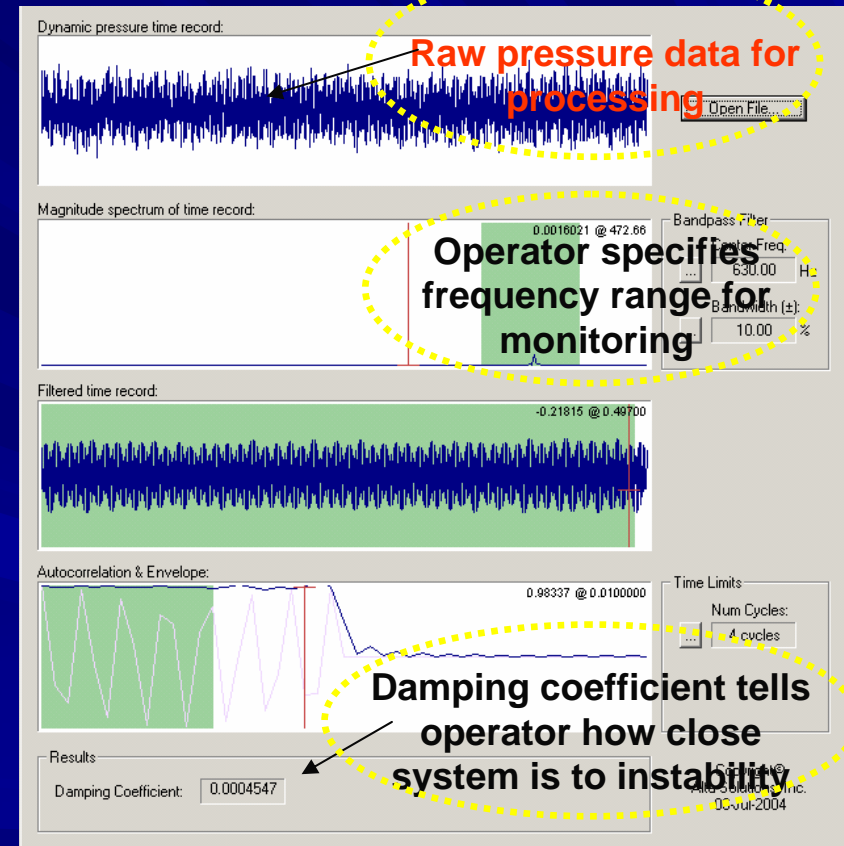
Improved Combustion Health Monitoring Techniques

Longer Life, Higher Availability

Georgia Tech

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- Modern Dry Low Emissions combustors have low emissions, but at a cost – significantly lower availability and reliability than “conventional” systems
- The input data to the combustor monitor is pressure fluctuations, same as in currently available systems, but from this project the system analyzes the data differently, accounting for changes such as ambient temperature and doing analyses that show trends which indicate when planned maintenance should be performed to avoid an unplanned shut down.
- Technology Transfer: Worked with 3 GT manufacturers. Method licensed to turbine monitoring company and installed at a number of power plants in the United States.



Screen shot of software module installed at several power plants for combustor health monitoring