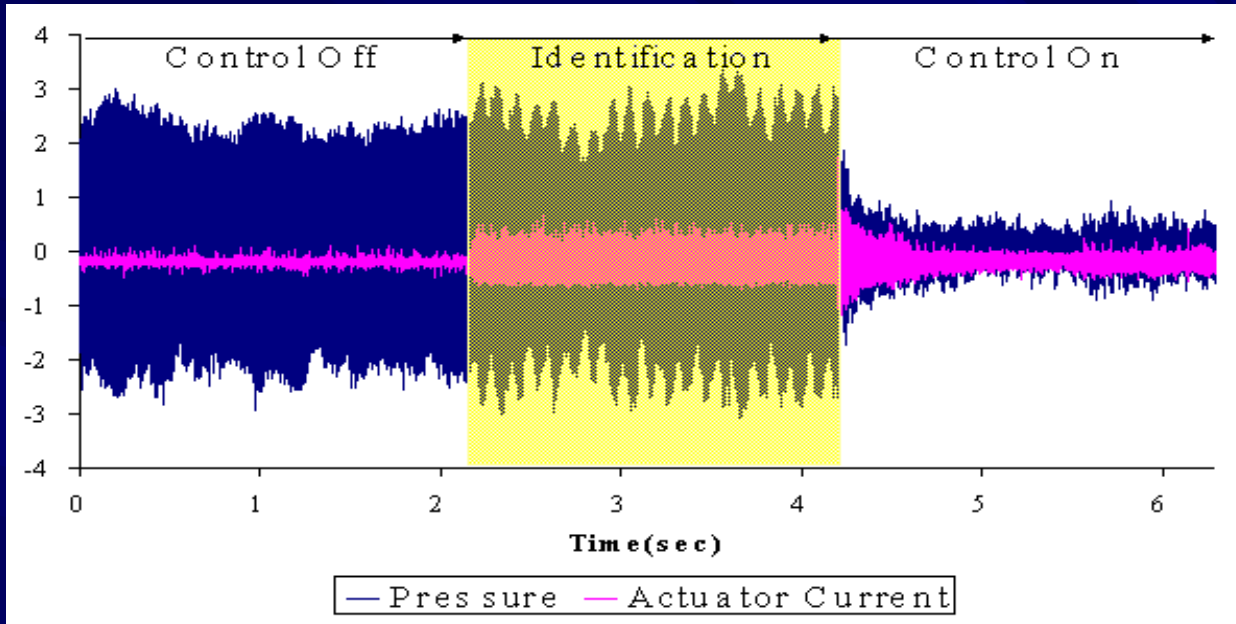


4:1 Reduction in Combustor Pressure Oscillations



Georgia Tech

Ben Zinn / Y. Neumeier #031

- Pressure oscillations have caused failures in low emission combustors.
- An active control approach has been verified to overcome instabilities, reducing pressure oscillations by a factor of four.
- Two patents on this technology have been awarded and a third is in process.
- One manufacturer has several commercial units using this approach.
- Two manufacturers have tested it extensively and will use it if instabilities in future applications can not be overcome.
- This technology is likely to be implemented broadly in the GT industry because lean burn approaches required to meet tighter emissions regulations, will deal with greater instabilities.