

Improved Life and Life Prediction

University of North Dakota
Forrest Ames #086

- New catalytic combustor technology has the potential to reduce NOx emissions and heat load, and potentially increase the life of nozzle guide vanes.
- Simulated combustor geometries for Rolls-Royce, GE, and Catalytica Energy Systems were tested.
- Low NOx combustor turbulence characteristics were documented and should aid designers in the prediction of surface heat load.
- Data was assessed by Rolls Royce and P&W and is now being used.
- Future catalytic combustor designs should benefit from the enhanced ability to predict heat load.

