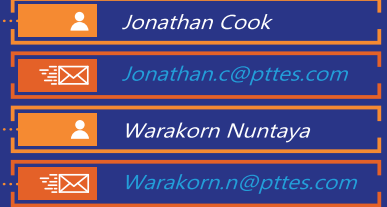


EXTENDING the life of cyclic duty equipment



Cyclic Duty Equipment is given a finite life based on a specific number of loading cycles. How do we justify continued operation beyond the design life?
What is the ongoing inspection strategy?

Fatigue Design by Rule

- Design codes use Stress-Cycle (S-N) Curves
- Stress levels are limited by design to achieve the required life
- The life is defined in a number of cycles of stress or load.
- The stress to cycle relationship is not linear it is logarithmic – a small reduction in stress leads to a much longer life.

KM
Corner

Pressure Swing Adsorbers, Gas Driers, Coke Drums and Auxiliary Boilers are examples of cyclic duty equipment.

