

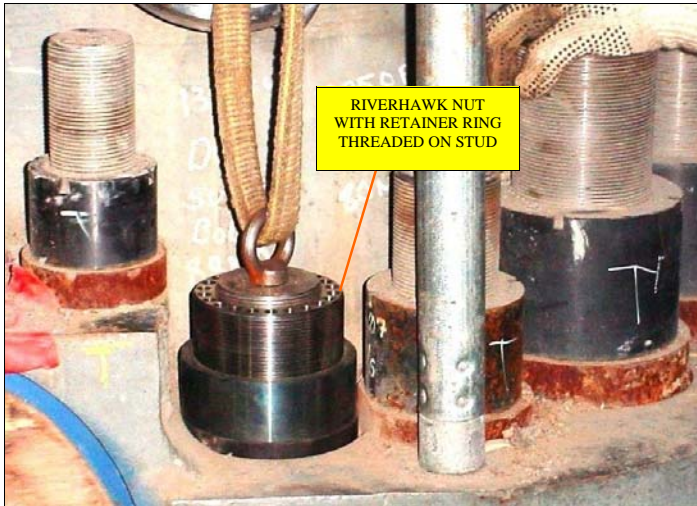
## ...Gas Turbine Casing Closure

### HRT Advantages:

- High clamping force achieved in radial restricted areas.
- Retrofittable
- Ease of installation
- High temperature service (1000 deg. F)
- Hydraulics separate from nut body.



*Tensioning Solutions  
HRT Tensioning*



### Problem:

Installation of casing nuts located in deep, radial restricted counter bores led to inadequate clamping loads using conventional hydraulic torquing methods.



### Solution:

Original torquing system was replaced with Riverhawk Hydraulic Rod Tensioning (HRT) System, capable of 1000 deg. F service. The retrofitable nut retained the 45,000 psi residual stud stress within the radial restricted envelope.

