

Challenge

Background

The heat exchangers were cycled approximately every three months based on the need for heating or cooling. Thermal cycling caused gasket failure due to bolt stretch.

The cost to the plant was \$3,500 for time and materials to replace the OEM gasket on each of the two heat exchangers four times per year (the plant was commissioned four years earlier).

Solution

Product

- All of the bolts and nuts were replaced
- **Chesterton 5500 Flange Live Loaded**
- **Chesterton 785™ Parting Lubricant** was used during installation

Flange live loading compensates for thermal expansion and contraction of the joint components thereby maintaining a consistent loading of the flange gasket.

Results

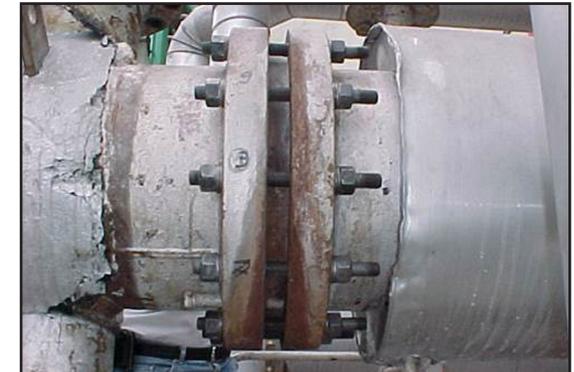
- Total cost for the two heat exchangers was \$9,400 for time and materials. The heat exchangers have been running leak free for 11 months.
- **Estimated cost savings after 11 months: \$11,600**



Typical heat exchanger.



Chesterton 5500 Flange Springs and 785 Parting Lubricant.



Sealed heat exchanger.