



Condenser & Heat Exchanger Restoration

CASE HISTORY
NO. R1525
MARCH 2007

- CLIENT:** Chevron
Pascagoula Refinery
Pascagoula, MS
- UNIT:** Fin-fan units
390 tubes, Carbon Steel SA-179
1" O.D. x 12 BWG x 30' long
- PROBLEM:** Inlet-end erosion and I.D. pitting.
- SOLUTION:** On an emergency basis, CTI manufactured 170 Shields, mobilized and completed the installation **within 72 hours** of receiving a Purchase Order. Shields were 12" long, made of 304SS and mechanically expanded at the tubesheet and discharge end thru header plug holes.



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CASE HISTORY **NO. R1550** **JUNE 2007**

- CLIENT:** Chevron Canada
Burnaby, British Columbia
- UNIT:** Overhead Steam Condenser
8 units x 86 tubes, Carbon Steel
1" O.D. x 14 BWG x 33' long
- PROBLEM:** Full-length erosion/corrosion resulting in 8% of the tubes being plugged.
- SOLUTION:** Installation of 688 Full Length Tube Liners™, made of 0.020" wall 304SS, returning all plugged tubes to service.

In 1998, CTI installed Liners in this same unit. Half of the Liners were supplied in 304SS, the other half in Alloy 400 (Monel). Five years later, in 2003, the unit was completely retubed in the original Carbon Steel. However, within 4 years of service, the tubes again began to fail, leading to this most recent repair and for Chevron to state that the thin-walled Liners "actually last longer than new tubes".