

## Hydrocarbon and Chemical Processing

**Project Name:** Ethylene Furnace

**Location:** Longview, Texas

### Furnace Information

**Furnace Type:** Ethylene Cracker

**Fuel Type:** Natural Gas

**Substrate:** IFB and Z-Blok<sup>®</sup> Modules

**Operating Temp:** 2100 °F (1149°C)

**Background:** The Emisshield<sup>®</sup> Products were applied to the ethylene furnace in April 2006. The customer wanted to evaluate the potential energy savings and production increases associated with the application of the Emisshield<sup>®</sup> Products.

### Application Information

As of November 2006 the ethylene furnace is realizing 6% in Energy Savings and a 9% Production Increase (measured by reduction in steam production).

### Emisshield<sup>®</sup> Benefits

- Fuel Savings of 6%
- Production Increase of 8%
- Customer realized a payback of 10 months based on \$6/MMBTU