Metal Production

**Project Name:** Bell Annealing Furnace  
**Location:** Sandviken, Sweden

**Furnace Information**

- **Furnace Type:** Ebner Bell Annealing Furnace  
- **Heating Source:** Electric Imbedded Resistance Heating  
- **Internal Inert Gas:** H₂  
- **Substrate:** Stainless Steel  
- **Operating Temp:** 825°C (1517°F)  
- **Product Annealed:** Stainless Steel Coils ~ 10 tons

**Application Information**

Emisshield® was applied to the external and internal surfaces of the inner bell unit. No product was applied to the outer bell unit. This application occurred in July 2007.

**Emisshield® Benefits**

- Increased production 10 - 15%  
- Heating Bell 10 – 20% Cooler Depending upon point in heat cycle  
- Increased inner bell life 1.5 to 2+ times  
- Improved product uniformity  
- Inert Gas Savings 1 – 2%  
- Reduced System Maintenance