

BELZONA SAVES VITAL CHILLER

ID: 883



PROBLEM

Bi-metallic corrosion was deteriorating the tube sheet surfaces. If the problem was left unresolved, the chiller would eventually suffer severe damage through internal leakage.

APPLICATION SITUATION

During the plant turn around it was discovered that an essential chiller was in dire need of repair.

APPLICATION METHOD

Application was carried out in accordance with Belzona System Leaflet HEX-1, 2 & 3. Belzona® 1311 was used to replace the missing metal. Two coats of Belzona® 1321 provides a corrosion barrier to the surfaces. A fine grit grind stone was used to smooth the surface. This allows the use of the OEM Trane o-ring seals.

BELZONA FACTS

The local Trane dealer called and needed the chiller repaired in a hurry as the plant was in the middle of its one week turn around. The entire chiller and end covers were refurbished to better than new condition in two days and returned to service a couple days later. Not only was the chiller repaired for a fraction of the cost of replacement but it saved the plant from unexpected expensive down time.

INDUSTRY

General Industry

LOCATION

Soybean Processor, Kansas

APPLICATION DATE

June 2007

PRODUCTS

Belzona 1311 (Ceramic R-Metal)

Belzona 1321 (Ceramic S-Metal)

SUBSTRATE

Steel

PHOTOS

1. Original condition of tube sheet with scale build-up
2. Bi-metallic corrosion damage revealed by blast cleaning. Note the voids between the tubes and tubesheet.
3. Tube sheet. The surface was sanded to provide a perfect sealing surface.
4. Protected end covers

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