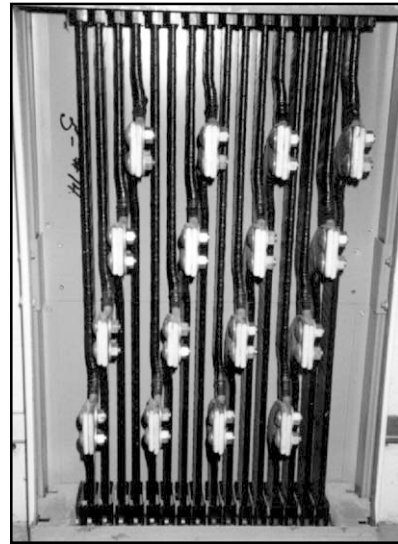


LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 205**

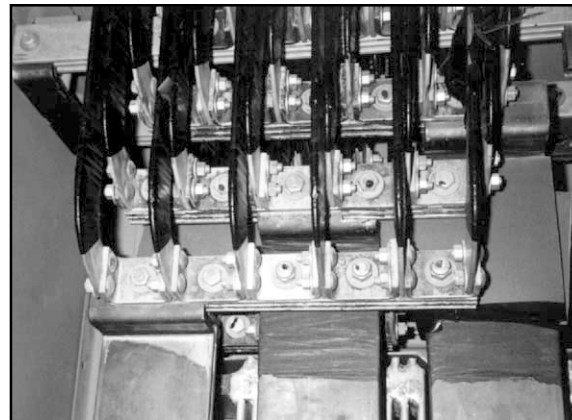
Loctite® 290 Threadlocker Improves Bus Bar Assembly; Eliminates Fire Hazard

Problem:

Many institutions and manufacturers rely on bus duct feeder systems to supply their electrical power. These systems generally consist of copper or aluminum bus bar risers, connected at 8, 10 or 12 foot lengths. They carry an electrical current to switchboards or outlets, where it is redistributed throughout the facility. These bars are joined with a plate and two bolts (usually cadmium plated). Over time, the expansion and contraction of the bus bars cause the bolts to loosen. Excessive loosening results in an increased current flow, creating "hot areas", which are fire hazards. Thermal scanning will detect these areas of bolt loosening.

**Solution:**

To correct the bolt loosening problems and reduce the potential for future loosening, retorqued all bolts and post apply Loctite® 290 Threadlocker on each assembly. Loctite 290 is formulated especially for pre-assembled fasteners. It penetrates by capillary action and simplifies preventive maintenance.

**Results:**

The problem of bolt loosening is corrected, eliminating the hazardous "hot areas".

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