

# STRUCTURAL REPAIR: CONCRETE

**Project:** Energy Plant  
**Location:** Central Texas  
**Systems:** MBT Emaco S-77 CI  
MBT Emaco S-88 CI  
MBT M-Brace Composite  
**Quantities:** 106 CF Repair Material  
450 SF M-Brace



**Completed:** 2003


At a university campus in central Texas, the Energy Plant dates back to the 1960's. Four large cooling towers are contained within a screened enclosure supported by a reinforced, poured-in-place concrete frame.

The constantly humid atmosphere inside the enclosure allowed moisture to migrate through cracks in the concrete columns and beams, rusting the reinforcing steel, and spalling the concrete cover.

Scaffolding had to be erected around a myriad of piping and equipment to access the areas requiring repair in the 48-foot tall enclosure. Loose and unsound material was removed, edges were sawcut, exposed reinforcing steel was cleaned and coated, and over 100 cubic feet of repair material was placed, effectively halting further corrosion of the reinforcing steel.



Repairs were completed in 2003, without disruption to the operations.

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