



# Project Overview

## FRP RETROFIT OF CIRCULAR TANK

**Name:** Buckeye Paper Mill  
**Type:** Tank  
**Location:** Memphis, TN  
**Completed:** June, 2006

### PROBLEM

The exterior steel hoop reinforcement of 32 ft diameter and 26.5 ft high ceramic tile tanks exhibited severe damage due to highly corrosive environment in a paper mill tank. A corrosion proof retrofit system was required to substitute the hoop reinforcement.



### SOLUTION

QuakeWrap® FRP Repair System was selected since it provided a maintenance free and corrosion proof solution. QuakeWrap, Inc. designed the FRP layout to meet the original strength of the steel hoop reinforcement.

Once the corroded steel hoop reinforcement and the ceramic tile walls cleaned, one layer of carbon fabric with variable overlap was installed.



## Technical Highlights

- FRP retrofit provided to substitute corroded exterior hoop reinforcement of circular tanks.
- 17,400 ft<sup>2</sup> of carbon fabric installed.

## Credits

Engineering and Materials: QuakeWrap, Inc., Tucson, AZ.  
General Contractor: Coro Tech, Memphis, TN



*“The FRP Retrofit Experts”*