



# Project Overview

## FRP REPAIR OF A FLY ASH MASONRY SILO

**Name:** Elk River Power Plant  
**Type:** Industrial Building  
**Location:** Elk River, Minnesota  
**Completed:** August, 2008

### PROBLEM

A fly ash silo at the Elk River Power Plant exhibited extensive weathering damage to the masonry surface. A repair solution using gunite had been implemented on the lower elevation of the silo, but due to excessive cracking, a different repair option was desired.



### SOLUTION

QuakeWrap® FRP Repair System as selected to provide the weathering protection to the fly ash silo masonry surface. The FRP surface provided a maintenance free protective shell that is not subjected to cracking or corrosion.



## Technical Highlights

- 25 foot high masonry fly ash silo.
- Masonry surface presented damage due to weathering.
- Masonry protected against weathering with QuakeWrap® biaxial glass fabric.
- 1,100 ft<sup>2</sup> of FRP fabric was installed by a 3 men crew in 3 days.

## Credits

Consultants: QuakeWrap, Inc., Tucson, AZ.  
General Contractor: FRP Construction, LLC., Tucson, AZ



*“The FRP Retrofit Experts”*