

Retrofit of Alabama Power Company Chimney with FRP

Barry Plant, Bucks, AL

12x74 ft.
concrete section
to be cut and
removed for
accomodation
of SCR



Concrete has been removed in anticipation of placing duct work.



- 12 ft. wide area around the opening strengthened with CFRP
- 1/8 inch thick engineered CFRP replaces the following rebars:
#8 at 12 inch vertically &
#4 at 12 inch horizontally
- Only 5000 pounds of CFRP is required to replace the same strength provided by 100,000+ pounds of steel or concrete

Restoration of a Deteriorated Reinforced Concrete Chimney with FRP

TengizChevroil, Tengiz, Republic of Kazakhstan



Significant decay and corrosion of concrete near the top of chimney



Preparation of surface



Mixing resin



Saturating fabric



Transporting materials



Application of tack coat



Installation of fabric



Installation of fabric



Restored chimney after repairs and painting

