

Project Brief

Oregon Paper Mill Slab Strengthening



Portland, OR, USA
2003



An elevated, reinforced concrete slab on the Operations Floor of the local paper mill. The scope of work included epoxy injection of cracks and delaminations, FRP strengthening, and a new wear surface containing a metallic aggregate.

The slab was overstressed by its current load demand, and required strengthening as well as improvements to its wear surface. Options for strength enhancement included adding wide flange beams at numerous locations, removing and replacing the concrete slab with the additional reinforcing required, or applying composite (FRP) strips in designed locations, top and bottom.

The strengthening requirements for this two-way slab was for additional positive and negative moment capacity. Due to the massive pipe and conduit congestion on the slab's underside, wide flange beams, or removal and replacement was impractical. The Tyfo® Fibrwrap® SCH System was applied.

With the ease and flexibility of installation, the Tyfo® Fibrwrap® System was the most viable and cost-effective option. Additionally, the Fibrwrap® System installation provided a fast turnaround and minimal interference to the mill's operation.

Fyfe Co. LLC

Nancy Ridge Technology Center

6310 Nancy Ridge Drive, Suite 103, San Diego, CA 92121-3209

Tel: 858.642.0694 Fax: 858.642.0947 E-Mail: info@fyfeco.com www.fyfeco.com