

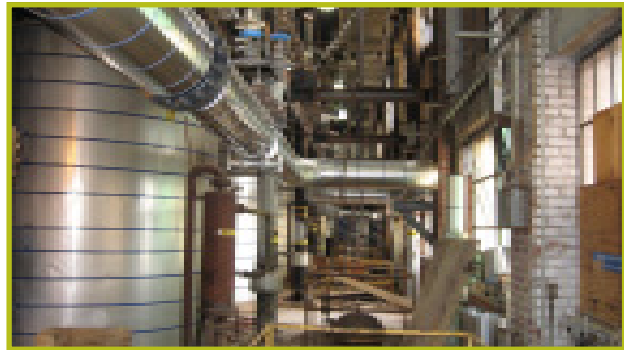
Simpson Tacoma Kraft Cogeneration Project

Tacoma, WA

Simpson Tacoma Kraft contracted JH Kelly to be the contract lead during the construction of its new Cogeneration Project. The project involved the installation of a new steam turbine generation set, exhaust steam condenser, cooling towers, power distribution switchyard, associated equipment and all steam, feedwater, cooling water and other related piping systems. A new turbine hall was constructed on a site that was previously occupied by an old power house.

As part of JH Kelly's work scope, we were contracted to perform miscellaneous engineering assistance, constructability reviews, and provide value engineering options that will decrease costs, minimize paper machining down times and improve existing piping and mechanical existing systems.

JH Kelly was hired to perform this project due to our understanding and experience in working in an existing facility. Many of the piping systems required us to work around sensitive machinery and piping with very little access. Piping sizes ranged from 2" to 30".



Project Overview:

- 65MW triple extraction, condensing, steam turbine generator
- Boiler modifications for increased pressure and temperature
- 220' circulator hog fuel stacker/reclaimer
- Mill piping modifications to move steam demand to lower pressures
- Conversion of boiler fans from steam turbine drives to electric motors
- Approximately 20,000 lf of piping
- Completed April 2009



Special points of interest:

- 65MW steam turbine generator
- 20,000 lineal feet of pipe