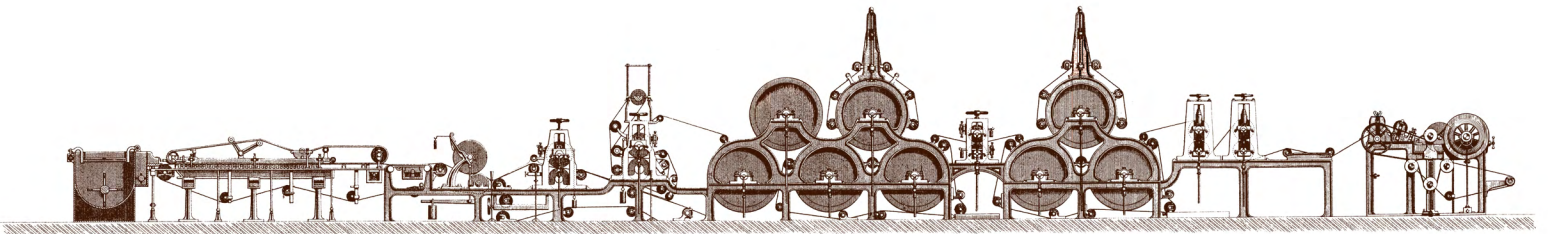


Associated Professional
Engineering Consultants, LLC



Let's Talk Engineering

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Associated Professional Engineering Consultants, LLC (APEC)

Formed in 1985, **APEC** is a full service engineering consulting firm, with a primary focus in the Pulp and Paper industry. **APEC** has had the opportunity to serve over eighty five (85) clients on a thousand plus (1000+) projects and studies worldwide, on over one hundred (100) industrial sites. The mid-western United States represents **APEC's** primary geographical market. Overseas projects have been served in conjunction with process equipment vendors. **APEC** is prepared to support either owner-led or vendor-led design teams, with complete and / or partial design packages.

APEC engineers are keenly aware of the concepts of project management. Our background is in projects, from initial feasibility studies, scope development, capital cost estimates, engineering and design, and purchase specifications, to construction monitoring and start-up assistance. We are familiar with both new construction and renovation of existing facilities or process lines. All **APEC** engineers have experience on construction sites and in industrial environments. **APEC** has a 100% safety record with no lost time incidents.

The majority of **APEC's** work is on production lines that run 24 hours a day, 365 days a year, so we understand how to design for minimal disruption of on-going operations. Our background is in heavy industrial plants and processes and it is important for us to maintain our expertise in these areas.

APEC's exposure to projects from conception to start-up allows us to realize that, in addition to detail design, our clients may have requirements that include:

- a) developing a project scope from a concept
- b) creation of cost estimates for funding of projects
- c) addressing the maintainability of project components
- d) start-up assistance following construction completion
- e) troubleshooting and process analysis of existing systems

APEC is prepared to support these requirements with all engineering disciplines; architectural, civil, electrical, instrumentation, mechanical, piping, structural and process. All engineering drawings are generated using AutoCAD, by the **APEC** design team.

APEC CAPABILITIES

- Capital Project Scoping / Planning
- Project Cost Estimating
 - Feasibility ($\pm 30\%$)
 - Approval ($\pm 20\%$)
 - Construction ($\pm 10\%$)
- Project Scheduling
 - Design
 - Construction
 - Start-up
- Procurement Assistance
 - Purchasing
 - Expediting
 - Contract Negotiations
 - Surplus Equipment
- Vendor Liaison and Coordination
- Detail Engineering
 - Architectural/Facility
 - Civil/Structural
 - Mechanical/Piping
 - Electrical/Instrumentation
- Construction Monitoring and Assistance
- Start-Up Assistance
- Training and Training Manual Development

CONTRACT SERVICES / TEMPORARY EMPLOYEE SERVICES:

- Retirees still needed on a part-time basis
- Technical / Engineering / Drafting Assistance
- Contract Software – AutoCad, EasyPower, WinGems