

Our experience and the people at APEC enable us to be a full service engineering firm.

- Architectural
- Bulk Material Handling
- Capital Cost Estimates
- Civil/Structural
- Contract / Temp Services
- Construction Monitoring
- DCS
- Discrete Material Handling
- Electrical
- Fail Safe Design
- Hazardous Area Design
- Instrumentation
- Liaison for Clients
- Lighting
- Material Handling
- Mechanical/Piping
- Paper Science & Engineering
- Pilot Plant Design
- PLC Programming
- Power Generation and Distribution
- Process/Chemical
- Process Control
- Process Modeling and Material Balance
- Procurement
- Project Management
- Scope Preparation

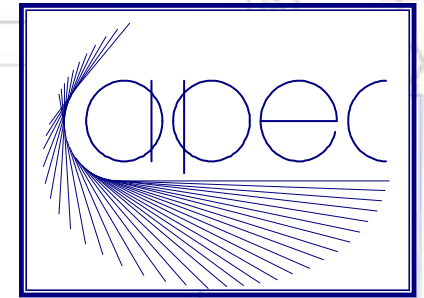
Associated Professional Engineering Consultants, LLC

204 Hiawatha Trail
Springboro, Ohio 45066

Phone: 937-746-4600

Fax: 937-746-5569

www.APEC.com



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APEC is a full service engineering consulting firm.

Formed in 1985, **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, site investigation, 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 engineers have practical operating experience in an increasing variety of process industries. Assisting with plant engineering and maintenance functions, for short or long term requirements are common job assignments.

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) Expanding from feasibility study to a definitive scope
- b) Development of cost estimates for funding of projects
- c) Project management
- d) Addressing the maintainability of project components
- e) Design engineering and creation of construction drawings
- f) On-site services and construction monitoring
- g) Start-up assistance following construction completion
- h) 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.

The early years of **APEC** were devoted exclusively to the Pulp and Paper industry. Much of the paper industry is process oriented but there is also material handling, converting, conveying, packaging, electrical power and power distribution, steam generation, water treatment, waste water treatment, bulk material transfer, and warehousing. Work in the Pulp and Paper industry has given **APEC** experience with flammable and highly corrosive materials and environments. **APEC** is also familiar with hazardous areas such as those around boilers and high pressure steam.

A major portion of **APEC's** work is on product 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. Experience gained in these areas is applicable to many other industries. **APEC** has recently completed projects in the food industry, steel production, municipal waste treatment, roofing material manufacturing, chemical production and other light manufacturing facilities.

Feel free to contact **APEC** to discuss your engineering requirements.