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We have performed numerous designs, design reviews, analyses, and troubleshooting of piping systems. This includes flexibility analysis, dynamic analysis, vibration troubleshooting, water hammer and other fluid transient analysis, and piping specification preparation and review. We have designed and analyzed both metallic piping systems and non-metallic piping systems such as lined pipe, fiberglass and other reinforced thermosetting resin systems and thermoplastic pipe. The combination of years of experience writing international and national standards, writing corporate and project specifications, and encountering and solving a variety of piping problems gives Becht Engineering a unique set of experiences to develop on-target piping specifications. Becht Engineering has commented on and developed from scratch piping specifications of all types for many different clients. The types of specifications included Piping material specifications Valve and other component specifications Design guides covering subjects such as flexibility analysis, support selection, cathodic protection and heat tracing Construction specifications covering fabrication, examination, installation and testing Becht Engineering has also commented on and developed from scratch piping specifications for specific projects. These included scope of work and design criteria documents. Pressure Vessels Becht Engineering has substantial expertise in pressure vessels. We perform both routine and highly complex design and analysis of pressure vessels and heat exchangers. These evaluations are performed for new and existing equipment including rerating for changing service conditions and fitness-for-service evaluations for corroded, cracked or otherwise deteriorated vessels. High Pressure Design Becht Engineering is expert in the design and analysis of high pressure equipment. Our designs have included high pressure composite vessels for natural gas transport glass fiber and hydrogen fuel tanks carbon fiber. We use our in-house fracture mechanics software for the design of such equipment for cyclic loading. Vessel Internals Design As many of our staff come from owner-operator organizations, they are familiar with the practical details of vessel internals and how they operate. This include high temperature internals in Fluid Catalytic Cracking Units, as well as fixed bed reactors and a wide variety of other equipment. We also have experience with refractory-supported internals. Our sophisticated analyses capabilities combined with expert knowledge on failure mechanisms has enabled us to determine operation at more severe conditions than design, such as higher delta pressure on fixed bed reactor outlet collectors, was acceptable, permitting continued operation of the units. In addition, a periodic review of the reliability of electrical components and electronic control systems to evaluate opportunities reduces the failure rate or costly preventive maintenance. Electrical systems are normally included in our process plant reliability studies. Cogeneration of steam and power is highly attractive at most locations to improve energy efficiency and increase reliability of critical steam and power users. Power reliability also is dependent on dual supply and distribution facilities. Elevated Temperature Design Becht Engineering has substantial experience and expertise in elevated temperature design. Becht Engineering has performed many design, analysis and troubleshooting projects for elevated temperature equipment, that is, equipment operating in the creep range for the material of construction. This includes design of equipment at such high temperatures and conditions that the design criteria needed to be developed, as was done for the Marble Hill Nuclear Reactor Annealing project involving oC oF ducting that was only required to operate for a relatively short duration. Our expert knowledge has enabled us to develop practical solutions to many elevated temperature problems.

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