

Beisser Engineering

CONSULTANTS

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CAPABILITIES

BEISSER ENGINEERING CONSULTANTS, formed in 1986, provides innovative professional engineering consulting services, primarily mechanical engineering, for commercial, institutional and industrial buildings, plants and processes. Our clients include owners, facilities managers, engineers, architects and other consultants.

BEISSER ENGINEERING CONSULTANTS present staff consists of professional and administrative personnel. The firm's principal, **Mr. Kenneth T. Beisser**, is a licensed mechanical engineer in California and Hawaii. Mr. Beisser has over 28 years experience in private and public sector consulting providing mechanical engineering design, engineering operations, and administration.

We presently have sufficient staff to provide engineering services as required. If it is ever anticipated that our project load may become strained, we have engineering and designer/drafting consultants who have provided services for our firm for a number of years and their skills are compatible with our own staff.

BEISSER ENGINEERING CONSULTANTS is experienced in an array of mechanical consulting and design services, including:

- Air Conditioning, Heating, Ventilating
- Industrial Exhaust
- Central Heating and Cooling Plants
- Plumbing
- Process, Medical and Laboratory Gases, and Utility Piping
- Fire Protection
- Energy Management
- Maintenance Economics and System Analysis

Our facilities and resources include:

- ◆ Computer modeling of building heating and cooling requirements, mechanical equipment psychrometrics and performance, energy code compliance, and system economics.
- ◆ The use of AutoCAD design software since 1989 to aid in the design and drafting of projects for improved efficiency, product and service to our clients.

BEISSER ENGINEERING CONSULTANTS can provide environmentally sustainable designs and energy saving designs as a result of our experience. We are involved with other professionals who design, build and landscape with the environment and natural processes in mind to minimize the use of energy, water and materials wherever possible.

1-1-04

CONTRACTURAL INFORMATION

INSURANCE CERTIFICATION

Beisser Engineering Consultants currently has in force and will maintain both general and professional liability insurance coverage. A certificate of insurance will be furnished upon request. BEC recognizes that large projects may require separate project insurance coverage by the design team.

COMPENSATION FOR PROFESSIONAL SERVICES

Method

The compensation shall be computed on the basis of one or more of the following contractual arrangements depending upon the type of services provided:

1. **Per Diem Rates:** A charge for each day or partial day is billed on an hourly basis for each hour away from the office, plus other direct expenses such as travel and lodging when the engineer is more than 50 miles away from his office.
2. **Hourly Rates Schedule:** The hourly rates include personnel expense, overhead, and profit. Our hourly rate schedule includes the following personnel:

Principal
Engineer
Drafting
Clerical

The hourly rates are available upon request.

3. **Fixed Sum:** A Fixed Sum covers direct expenses (unless excluded), personnel expenses, overhead items, and profit.

Reimbursable Expenses

Direct non-salary expenses are billed at actual cost plus a service charge. These include out-of-pocket expenses such as travel expenses, telephone, postage, printing, and subcontracted work.

Payments

BEC will submit an itemized invoice bi-weekly and on completion of the work. Invoices paid after thirty days will be subject to separate billing of one and one-half percent per month of unpaid balance. Late charges are not included in any agreement for maximum charges.

3-1-05

KENNETH T. BEISSER, P.E.

Principal

EDUCATION: B.S., Mechanical Engineering, California State Polytechnic University, Pomona (1979)
B.A., English, University of California, Santa Barbara (1973)

PROFESSIONAL REGISTRATION: Professional Mechanical Engineer, California - No. 21881 (1983)

AFFILIATIONS:

- American Society of Heating, Refrigerating, and Air Conditioning Engineers (member since 1985)
- American Society of Mechanical Engineers (member since 1976)
- American Society of Plumbing Engineers (member since 1986)

PROFESSIONAL SUMMARY

Mr. Beisser is a registered mechanical engineer with over 25 years experience in private and public sector consulting for mechanical engineering design, mechanical engineering operations, and engineering planning and administration. His experience in heating/ventilating/air conditioning (HVAC) and plumbing consulting has included projects ranging from small remodels to large and complex facilities. His HVAC expertise is complemented by a solid background in plant systems and facilities design.

EMPLOYMENT HISTORY

Beisser Engineering Consultants BEC- Principal (1986 to Present)

As principal and owner, has had responsibility for the engineering of HVAC and plumbing systems for numerous commercial, institutional and industrial building projects in Southern California and elsewhere. Clients for this work include private industry, government, architects and other consultants. BEC has had a staff of up to five and uses several outside consultants on a regular basis. Mr. Beisser has managed projects from preliminary budget requests through engineering, construction, startup, and project completion. Also manages all financial and personnel administration, marketing, and business development for the firm. He is past President of the local ASHRAE Section.

In 1997, Mr. Beisser was recognized by the City of Glendale as a member of the architectural team for the Renovation and Restoration of the Glendale Main Post Office, a 4.5 million dollar renovation of the three story, 52,000 square foot, National Historic Register building built in 1930. The HVAC and plumbing were completely replaced with new equipment and systems, giving the building at least another 30 years of occupancy comfort and use as a postal facility.

Archer-Spencer Engineering Associates - Mechanical Engineer (1984 to 1986)

Served as design engineer for both HVAC and plumbing. Work included field reconnaissance, engineering calculations, design and drafting, and writing specifications. Projects included the Biltmore Hotel Kitchen Remodel and the City of Santa Barbara's Community Development Department Building. As project engineer, was responsible for design of HVAC and plumbing on a 300-unit residential complex, La Pamilla, consisting of a four-story low rise with two 15-story towers. The complex contained a full kitchen, community dining room, health club, bar, and large underground parking structure.

Bechtel Power Corporation - Mechanical Engineer (1980 to 1984)

Served as the responsible engineer for a number of plant systems and associated equipment contracts in the balance-of-plant portion of Palo Verde Nuclear Generating Station. Responsibilities included design calculations, equipment specification, vendor liaison, interdisciplinary coordination, and field direction through construction and startup. Systems included secondary-side chemistry control, diesel fuel, chemical waste, oily waste, and radioactive waste. Equipment contracts included condensate demineralizer, blowdown demineralizer, liquid nitrogen and hydrogen supply system, air compressors and dryers, horizontal pumps and vertical sump pumps, and shop fabricated vessels (tanks). Also reviewed environmental qualification testing and analysis of nuclear equipment components for seismic and thermal safety. Guided several assemblies, including a steam turbine and controls, through environmental qualification programs by an independent testing laboratory. Began as a piping engineer in the materials section for this project. Completed courses in cogeneration, pressure vessel analysis, power plant design, and management.

Independent Consultant (1983 to 1984)

Provided design of HVAC systems, plumbing systems, energy conservation calculations, fire protection/automatic sprinkler design, and drafting services on commercial projects for several clients including D&D Refrigeration and Brad's Plumbing. As a consultant to electrical engineer Philip Syracopoulos, P.E., designed HVAC, piping and plumbing systems for manufacturing warehouses.

Hughes Aircraft Company - Member of Technical Staff (1979 to 1980)

As a heat transfer engineer, was responsible for analysis of cooling system requirements for military electronics. Projects included weapon (missile) fire control consoles, high intensity arc lamp, and a torpedo. Performed design calculations, performed computerized thermal and fluid analysis (CINDA), supervised thermal testing to verify performance, and wrote reports to management.

C.F. Braun & Company - Piping Designer (1975 to 1977)

Upon completion of a 6-week piping design training course, drafted process flow charts and then, working with a senior designer, made piping and equipment layout drawings for a urea plant to be located in Augusta, Georgia. Designed piping for the ethylene unit of the Phillips Petroleum Co. (Sweeny, Texas) refinery from material specifications, flow diagrams, and company standards. After the design phase, worked in the autodrafting group inputting the piping and equipment layout from the scale model into the computer for plotting. Also designed piping and layout for a LNG plant at Ormond Beach, CA. Completed a course in piping stress analysis.

HOSPITAL PROJECTS

Santa Barbara Cottage Hospital (SBCH), Santa Barbara, CA

- Admitting Air Handler Replacement, AH-5
- Cancer Foundation Interior Remodel
- Chapel and Offices
- East Wing Air Handler/Exhaust Fan AH-13/E-1 Replacement
- Helistop
- Medical Records Remodel
- Resident Rooms Remodel
- Skilled Nursing Remodel 4th & 5th Flrs, South and East Wings
- Surgery Center of Santa Barbara

Goleta Valley Community Hospital (GVCH), Goleta, CA

- Birthing Center Remodel
- Central Storage Remodel
- C.T. Scanner Remodel
- Data Processing Remodel
- Sterilizer Boiler Addition

Lompoc District Hospital, Lompoc, CA

- Radiology Equipment Replacement

Pleasant Valley Hospital, Camarillo, CA

- Medical Gases Upgrade

INSTITUTIONAL PROJECTS

University of California, Santa Barbara (UCSB)

- Buchanan Hall Chiller Replacement
- Chemistry Building Boiler Replacement
- Ellison Hall Boiler Replacement
- Humanities and Social Sciences Buildings Renovations (6 Bldgs)
- LPG Plant Decommissioning
- Physics Building Fume Hood Exhaust Study
- Physics Bldg. Air Balance - PVEA
- Student Health Services Remodel
- Water Booster Plant Emergency Generator
- Woodhouse Laboratory HVAC Renovation

Santa Barbara City College (SBCC)

- Administrative Services HVAC
- Information Resources HVAC

VALUE ENGINEERING

U.S. Marine Corps Construction/Weight Handling Equip. Shop, Camp Pendelton, CA

COMMUNITY AND PUBLIC BUILDINGS

217 Salinas Street, Multi-family Housing, Housing Authority of Santa Barbara
Gateway Community High School, Ventura County Supt. of Schools, Camarillo, CA
Goleta Boys and Girls Club Remodel, Goleta, CA
Carpinteria Boys and Girls Club Remodel, Carpinteria, CA
Health Services- HVAC Replacement - Santa Barbara County
Hillcrest Family Housing Project (50 Units) - Ventura County
Our Lady of the Valley Church Remodel, Canoga Park
Rancho San Marcos Golf Club, Santa Barbara
Relocatable Accessible Classrooms/Restrooms, 7 sites, Ventura Unified School District
St. Thomas Aquinas Church Multi-Purpose Building, Ojai
Santa Barbara Humane Society Multi-purpose Building, Goleta
Santa Barbara Municipal Airport - Numerous buildings
Saticoy and Piru City Community Centers-Ventura County

COMMERCIAL AND INDUSTRIAL

Flow Matrix Cleanroom/Oxidizer Remodel, Carpinteria, CA
First Republic Bank - Century City 16th Floor Headquarters, Century City, CA
First Republic Bank - multiple bank tenant improvements, CA
Goleta Water District Headquarters Remodel, Goleta
Inorganic Laboratory Modifications, El Estero Wastewater Treatment Plant, Santa Barbara
Santa Clarita Mail Processing Facility Compressed Air Plant, USPS, Santa Clarita, CA
Taco Bell, Santa Barbara, CA
U. S. Postal Service (USPS) - Architectural Barrier Compliance, Santa Barbara, Ventura and L.A. Co.
U.S. Postal Service Worldways Air Mail Center Exhaust Fans Replacement LAX, Los Angeles, CA
Wyatt Technology Laboratory HVAC, Goleta, CA
Yardi Systems Headquarters (4 Bldgs), Santa Barbara, CA

HISTORIC REMODELS

City Hall Air Conditioning, City of Santa Barbara
Glendale Main Post Office Restoration and Renovation, USPS, Glendale, CA
St. James Hotel, San Diego, CA
Wm. Penn Hotel, San Diego, CA

FACILITY MECHANICAL CAPITAL IMPROVEMENT STUDIES

Elk Hills Elementary School HVAC Survey, Kern Co. School District
Foster Library HVAC Study, County of Ventura, Ventura, CA
Goleta Valley Community Hospital Chiller Replacement Study
Santa Barbara County Health Services Bldg. "B" HVAC Study
UCSB Kerr Hall HVAC Feasibility Study (w/SCE)
UCSB Research Utilities Studies for Physics Bldg, Psychology Bldg, and Music Bldg.
UCSB Sewer System Improvement Study

Providing Consulting Engineering Services for —

New Construction
Remodels/Improvements
Health Care Facilities
Educational & Research Facilities
Industrial Plants
Commercial Buildings
Maintenance Projects
Energy Efficiency Retrofits/Designs
Cogeneration
Value Engineering
Historical Remodels

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Principal

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