

WINEMAN ENGINEERING

ENGINEERING FORENSICS

Mechanical, HVAC, Plumbing, Utilities, Construction

05/12/05

Samuel T. Wineman, P.E.

Principal

Services offered

Studies

Preparation of feasibility studies and reports for mechanical systems including HVAC, plumbing, fire protection, energy management, power generation, and operating cost analysis.

Front end engineering

Establishment of major engineering direction for both design build and engineer design bid projects. Establish parameters for HVAC and Plumbing systems, establish type of systems, recommend major equipment and project scope.

Analyze documents prepared for a particular project for constructability, design, and life expectancy.

Comparative recommendations

Forensics

Examination of systems failure, coordination of laboratory test results, preparation of reports of findings

Expert witness

Testimony for deposition, mediation, and court regarding results of forensic analysis.

Areas of Expertise

Asbestos Litigation	Gas Piping
Boiler Systems	Hot Water Heaters
Carbon Monoxide Poisoning	HVAC Systems
Central Heating & Chilled Water Systems	Mechanical Engineering
Chillers	Medical Gas Systems
Clean Rooms	Plumbing Systems
Cooling Towers	Pumps, Fans, Piping
Dust Collection	Radiant Heating
Energy Management	Sewage Disposal plants
Explosions	Sick Building Syndrome
Fire Prevention	Steam Piping
Fire Sprinklers	Swimming Pools
Fuel Oil Heating Systems	Utility Rate Analysis
Furnace Applications	

Services.

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Education

Bachelor of Science in Mechanical Engineering
Michigan Technological University 1956

Military

US Air Force 1949-1952

Professional Association

National Society of Professional Engineers
Michigan Society of Professional Engineers
American Society of Mechanical Engineers
American Society of Plumbing Engineers
ASHRAE (Life Member)
American Soc. of Plant Engineers (past chapter President)
Michigan Society of Hospital Engineers
Diplomate, American Board of Forensic Engineering

Professional Registrations

Michigan, Ohio, Kentucky, Kansas, Missouri
Washington D.C., New York, Wisconsin.

Past Associations

Commonwealth Associates (1956 – 1961) Design Engineer
Atomic Power Dev.Assoc. (1957-1959) Nuclear eng.
Cunningham Engineers (1961-1963) Design Engineer
Pierce, Wolf, & Yee (1963-1972) Chief Mech. Engineer
Wolf, Wineman Engineers. (1972-1999) Principal Engineer
Wineman Engineering (1999 – Present) Forensic Engineer

Experience

Mr. Wineman has been a principal of Wolf Wineman since it was formed in 1972. He has had direct **Mechanical Engineering design** and project management responsibilities for both major and minor construction projects including both new and retrofit utility owned power plants, energy centers, utility distribution systems, pollution control systems, chemical process systems, **HVAC**, plumbing, and fire protection systems. His projects included general building, industrial, kitchens, schools, institutional, commercial, campus, laboratories, clean rooms, residential and hospitals.

He has served as an expert witness in trial and mediation and has been involved in forensic examinations and code

review for systems, design, construction and equipment malfunctions and failures.

Additional Information

Mr. Wineman has volunteered his time in teaching numerous continuing educational engineering classes for the design of Plumbing, Air Conditioning, Ventilation, Selection of Boilers and Equipment, Temperature Controls Engineering, and Steam Systems. He also conducted classes in Construction Management, Construction Scheduling and Review for the Plumbing Engineers Test to get certified in Plumbing Engineering (CIPE) as Sanctioned by the American Institute of Plumbing Engineers, and to assist engineers to pass their State of Michigan registration examinations (PE). Mr. Wineman has also served on the committee for the preparation and grading of the Michigan professional Engineers Examination.

Mr. Wineman attended numerous technical classes for the design of energy efficient Burner Conversions of older boilers, Hydronic Water Heating, Boiler code up dates, Plumbing code up dates, Sick Building Syndrome, ASHRAE technical sessions for the application of revised standards to design principles, NFPA design classes for the design of sprinkler systems and the proper placement of smoke and fire dampers, and Energy Conservation Applications to modern building design,

Mr. Wineman served as Code reviewer for Fire Prevention, Mechanical, HVAC, and plumbing systems for the communities of Novi Michigan and Birmingham Michigan.