

QUALIFICATIONS

Mr. Romano is a Senior Project Manager with more than 40 years of professional engineering experience in mechanical engineering for building HVAC and power plant design. Projects have included HVAC for aircraft and buildings, fossil fuelled power plants, gas turbine simple cycle and combined-cycle facilities and other power generation facility projects. His fossil power plant experience includes the engineering, design and construction of new facilities as well as the rehabilitation of existing facilities.

Mr. Romano serves as a consultant to THE WHEATLEY COMPANIES^(SM).

PROFESSIONAL LICENSES

Registration/Licenses as Professional Engineer (P.E.):

- New Jersey
- Pennsylvania
- Alaska

EDUCATION

- Syracuse University, B.S., Mechanical Engineering, 1958
- Utica College, Undergraduate Studies

GENERAL EXPERIENCE

Mr. Romano's diverse experience includes the design of HVAC systems for buildings and aircraft, design and construction of power plants – including coal and oil fired boiler powered steam turbine generating plants as well as combustion turbine plants – and even includes vibration testing of rocket engines. He has worked in a variety of industrial projects, including refineries, automotive plants, and paper plants. He has performed construction claims analysis on a number of domestic and international projects.

REPRESENTATIVE PROFESSIONAL EXPERIENCE
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TransAlta Energy's Windsor Cogeneration Facility, Canada. Mr. Romano was the Project Manager at this TransAlta Energy cogeneration plant. This facility supplies steam to the adjacent Chrysler Corp. minivan assembly plant and electricity to Ontario Hydro. He was responsible for supplying engineering, procurement, expediting, inspection, construction management and start-up services. The scope of work included an LM6000 combustion generator and steam turbine generation facility. The plant produces 62 MW of electric power while exporting an annual minimum average of 360,000 lbs/hr of process steam.

PS&G's Burlington 10 Rehabilitation Project. Mr. Romano directed the project management, cost, engineering and scheduling involved with the replacement of eight combustion turbines and the addition of four heat recovery steam generators that interfaced with the existing steam turbine, plant controls and cooling water system.

Anitec Cogeneration Project, Binghamton, NY. Served as the Project Manager/Engineer responsible for the installation of a LM-5000 STIG unit at an International Paper site in Binghamton. He managed the engineering (including mechanical equipment and HVAC systems), procurement and construction for this lump sum turnkey project that supplied steam for the process and electrical power of a utility.

Atlantic City Electric/Mobile Oil Cogeneration Project. Project Manager/Engineer responsible for the conceptual design and total costs (*Phase 1*) for a cogeneration facility at the Mobil Paulsboro Refinery. He managed the conceptual design and pricing for a 150 MW, 850,000 lbs/hr process steam facility. Final lump sum bids were evaluated for the major equipment to provide accurate cost information and to provide design inputs for the balance of the effort. His responsibilities included power equipment as well as HVAC design for the control buildings.

Sun Oil Company, Yabucoa Refinery. Project Manager/Engineer for a two-phased cogeneration study at the refinery. The study's first phase determined the most viable of four cogeneration plants to supply the refinery's steam requirements while generating 20 MW of *in-plant* electrical power. He analyzed conceptual plans, capital operating and maintenance costs, and environmental factors. The second phase was a detailed study of the recommendation.

Gas Turbine, Cogeneration Facility, Hazelton, PA. Provided Project Management services for the design and installation of a 100 MW gas turbine, combined cycle cogeneration facility. He managed the detailed designs for combustion turbine foundations and electrical and controls systems. The project was performed in two phases: a fast tract simple cycle engineering/construction sequence and a combined cycle installation, including a heat recovery steam generator, a steam turbine generator and an auxiliary boiler.

Combustion Turbine Project, Dover, DE.

Directed the management, technical and construction management services for the design, procurement and installation of a 40 MW gas turbine, simple cycle generation facility. Managed the detailed designs for GE Frame-6 combustion turbine foundations, civil/structural work, geotechnical investigations, mechanical and electrical efforts and environmental permitting.

Atlantic City Electric, Various Fossil Power Plant Replacement Projects. As Project Manager he managed and provided technical direction for the PCB transformer replacement project at the B.L. England Station. The project entailed the removal, storage, handling, transportation and disposal of seven unit substation transformers. The project included a PCB spill prevention direction control and countermeasure plan. Responsibilities included design of HVAC systems for the projects.

Mr. Romano also managed and provided technical direction for the Deepwater Unit 8 Superheater Replacement Project. The project included disassembly of the Unit 8 boiler penthouse which was insulated with asbestos. The work also included asbestos removal in accordance with accepted removal regulations.

PDC-El Paso LLP/Milford Power Project, Milford, CT. Worked for contractor in design-build, lump sum, turnkey project, worked as a member of the expert team that performed technical analysis and schedule analysis resulting from design changes and subsequent schedule delays by the equipment supplier. Assembly of the Heat Recovery Steam Generator was the subject of a lengthy construction delay dispute, which continued during and after final boiler erection. A detailed engineering study was performed for the contractor which ultimately revealed design changes in the HRSG tube sheet suspension technique from the last unit installed to this project. These non-recorded changes were traced to the cause of the dispute and delay.

Fossil Power Plant Retrofit Projects. As Project Engineer he managed the administration, co-ordination and execution of engineering and design activities on nine coal conversion projects. As Lead Power Engineer he was responsible for the mechanical engineering and design adequacy of existing piping systems and equipment, as well as the sizing and selection of new components.

Westinghouse Electric Corporation. His responsibilities included engineering (including power equipment as well as HVAC systems), purchasing, planning and construction. For example, he was responsible for engineering on the combined cycle units installed for Kaiser Aluminum in Chalmette, LA, and for the first PACE installation of a 260 MW combined cycle system at the Public Service Company's Oklahoma Comanche Plant.

Grumman Aircraft Heating and Cooling. Mr. Romano performed the design of cooling and heating systems for aircraft. This included anti-icing, anti-fogging, personnel and equipment heating and cooling systems. Design involved extensive use of incompressible air flow and thermodynamics.

Aerojet-General Vibration Analysis. For the Vibration Environments Group, Mr. Romano assisted in the operation of a vibration facility that performed vibration testing on rocket motors and component parts. He supervised vibration tests which included design of vibration hardware, follow-up of fabrication in machine shop, setting up and instrumentation of test specimen.