

Project Experience

Plant Process Control and Electrical System Design American Samoa Power Authority, Pago Pago

Timberline Engineering, as a subconsultant to Livingston Associates, designed the PLC-based process control and electrical systems for the 500 kgd Fagatogo Water Treatment Plant, located near Pago Pago on the island of Tutuila, in a group of Polynesian islands that comprise the U.S. Territory of American Samoa in the South Pacific Ocean. The owner, American Samoa Power Authority, has responsibility for all electric, water and wastewater utilities in American Samoa.



The plant I&C design involved automatic filter and backwash controls, three chemical feeds, influent and effluent turbidity monitoring, sequencing of motorized valves, and miscellaneous instruments such as flowmeters, tank probes and differential pressure switches. Alarm reporting utilizes a telephone auto-dialer. The project also included design of plant

electrical distribution systems, lighting systems, motor controls, and other electrical support systems. Timberline provided plans, specifications and estimates for owner-purchased, contractor-installed controls and electrical equipment.

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