



MAKING PLANTS SMARTER.

Dan Balassi Plant Performance Services, Senior Technologist
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Performance Services

Dan has over fifteen years of engineering experience as a Lead Electrical, Instrument and Controls Engineer. His capabilities include process variability analysis and optimization, instrumentation and control systems, control valve performance, motor control center design and specification, power distribution equipment, process interlock system design and installation, Capital Project Management and Contractor Management.

Highlights

Managed a \$500K “turn key” control system and automation upgrade project delivering Emerson’s “PlantWeb” automation solution to a local manufacturing facility, The project included design and implementation of Foundation Fieldbus technology and enabled a “step change” in unit production rates and control system reliability. Unit operating profit was increased by \$250K per year with reduced operating costs of \$100K per year.

Plant Start-Up Optimization project for a sold-out manufacturing facility was able to cut start-up time in half, increasing unit production, and returned an estimated \$4.5 million in gross profit per year.

Unit Waste Treatment System Optimization project resulting in improved effluent stream process control, and reduced re-agent usage by \$100K per year.

Boiler Drum and Feed Water Control Optimization project eliminated flow fluctuations during peak demand periods that caused loss of control and Boiler and Unit shutdowns. Estimated savings at \$500K per shut-down.

Silica Plant Control System Engineering and Optimization project that decoupled and optimized multiple burner feed flow loops during plant start-up, reduced process variability to less than 0.5% and resulted in immediate product qualification and certification. Unit/project cost savings of \$150K.

Lead E&I Engineer for two large Capability Improvement Projects (\$6 million) that designed and constructed a new production unit, control building, motor control center, state of the art control systems and process instrumentation.

Technical Experience

EnTech Controls Variability Analysis and Optimization Tools
Emerson Process Management Software: AMS Suite, Valve Diagnostics, DeltaV & Provox
DLC Programming Software: Concept, Modsoft, RS Logix
MMI Software: PanelmatePlus, Wonderware

Professional Affiliations

Instrument Society of America

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