



CONTROLS SOLUTIONS FOR POWER GENERATION

Traditional Energy

Systems (traditional market)

GE Turbine Controls Support, Training, & Troubleshooting

- ◇ MKIV, MKV, MKVe, MKVI
- ◇ GE LM2500
- ◇ GE LM6000
- ◇ GE 5L, 6B, 7EA, 7FA
- ◇ GE D11
- ◇ GE A10

PLC/Controller Systems

- ◇ GE
- ◇ Allen Bradley
- ◇ Siemens
- ◇ Modicon

DCS/SCADA Systems

- ◇ Emerson Ovation
- ◇ ABB-Bailey
- ◇ Foxboro
- ◇ Inductive Automation

Services

- ◇ Controls commissioning support – technical and oversight
- ◇ SCADA System Design, installation and commissioning
- ◇ Gas-steam turbine valve calibrations (MSV, CV, IV, IGV, GCV)
- ◇ Starting and loading rate enhancements
- ◇ Reliability Studies: Liquid fuel, attemperator control, AGC/ADS
- ◇ Tuning for Start-Up: Plume (yellow haze) reduction
- ◇ Fogging system enhancements
- ◇ Control narrative development
- ◇ PID process tuning (INTUNE)
- ◇ Control system retrofits
- ◇ Blackstart / Isochronous Integration
- ◇ Full Load Rejection (FLR)

WORKING TO ELIMINATE PRODUCTION LOSS AND INCREASE PLANT RELIABILITY THROUGH AUTOMATION AND CONTROLS.

Nor-Cal Controls ES, Inc. is a customer-focused company that provides controls consulting, engineering and training solutions and services to the power generation sector. We have assembled an outstanding team that combines years of expertise, integrity, honesty, and an uncompromising commitment to our customers.

Why Nor-Cal Controls?

What separates Nor-Cal from other engineering companies is that we are customer focused, flexible, and easy to work with. Nor-Cal delivers its services through dedicated teams formed to bring appropriate knowledge and expertise to each project. Our engineers have an industrial mindset for thoroughness and attention to detail.

Cost Effective

Nor-Cal has a reputation among its customers for delivering controls engineering services that cost-effectively exceed customer expectations. Nor-Cal does not promote any one product but provides solutions based on proven technology and what is best for the customer. This approach has allowed us to continually compete and beat out larger engineering firms and OEM's.

Training & Support

Unlike many competitors, Nor-Cal believes in educating our customers so they can become self-reliant. Nor-Cal provides post OEM, hands-on technical controls training as well as offers MKV – MKVI training seminars. Nor-Cal provides complete information at the end of each assignment to ensure the client is well-supported after we leave the site.

Open Architecture

All of our controls installations are based on **open architecture**. We do not believe in providing “black box” solutions, and instead encourage sharing knowledge so that our clients can become self-reliant.