The Industrial market is an area of steady need and complex details. We design and install large-scale electrical systems, as well as provide instrumentation and control (I&C), automation, and integration services. Due to the ever-changing requirements of this market, we stress communication, comprehension, and education—adopting new technologies to stay ahead of our competition and our clients’ requests.

Core Capabilities

A Wide Range of Expertise
- Our technicians are proficient in many settings, including water treatment plants, wastewater treatment plants, reservoirs, pump stations, pressure-reducing stations, and pressure-regulating stations
- Services include engineering, design/assist, consulting, troubleshooting, calibrations/documentation, and instrument setup
- Specific skill areas include:
  - Motor control logic and devices
  - Programmable Logic Controller (PLC) hardware and programming
  - Electrical AutoCAD®
  - 2D & 3D mechanical, electrical, and plumbing (MEP) coordination process using NavisWorks® collaborative software
  - State-of-the-art fiber optic/voice and data technology
  - System-unifying communications protocols
  - AC drives, soft start logic
  - Instrumentation (pressure, flow, temperature, level, analytical)
A Wide Range of Expertise (cont.)

- National Institute of Standards and Technology (NIST)-traceable pressure and temperature calibration equipment
- Proper device cabling/wiring
- Testing processes
- Documentation/reports

Excellence Within Our Ranks

- Certified I&C field technicians and electricians are dedicated to a project from installation through start-up of systems

- In-house Neal Electric experts include:
  - A California Registered Engineer
  - Instrumentation control engineers
  - A certified Modicon integrator
  - Factory-trained Rockwell automation specialists
  - National Electrical Contractors Association (NECA)/National Joint Apprenticeship and Training Committee (NJATC)—trained and certified personnel

- Neal Electric offers unique industry services:
  - A certified UL 508A Industrial Control Panel fabrication shop
  - An authorized Toshiba Industrial Variable Frequency Drive center
  - An authorized service center for Scott/Tyco Fixed Gas instruments

Service With Support

- Well-informed internal resources facilitate every installation
- More than 27 stocked service vehicles—7 dedicated to I&C—are available on a daily basis
- Expedient 24/7 emergency response service offers clients continued peace of mind
Serving the Needs of the Greater Community: Our Clients

WATER TREATMENT PLANTS
- South Bay Water Reclamation Plant—Kiewit Pacific (City of San Diego)
- Miramar Water Treatment Plant—Archer Western (City of San Diego)
- Alvarado Water Treatment Plant—Archer Western/CH2M HILL (City of San Diego)
- Twin Oaks Valley Water Treatment Plant—CH2M HILL (San Diego County Water Authority)

PUMP STATIONS
- Helix Water District: Los Coches Pump Station—Western Summit
- San Diego County Water Authority: San Vicente Pumping Station
  - Kiewit Pacific
- City of San Diego Metropolitan Wastewater Department (MWWD):
  - Nearly 20 sewer pump stations throughout San Diego County
- City of San Diego Water Department:
  - Approximately 40 high-capacity pump stations throughout San Diego County

PRESSURE-REGULATING STATIONS
- More than 100 stations throughout greater San Diego County, serving multiple municipal districts

RESERVOIRS
- Many Reservoirs throughout the city and county including;
  - Redwood Village Standpipe
  - Del Cerro Reservoir
  - La Jolla View Tank
  - Paradise Mesa Standpipe
  - University Heights Reservoir
  - Los Peñasquitos Tank
  - Catalina Standpipe

PIPELINE and RAW WATER FACILITIES
- Multiple Pipeline and Raw Water facilities throughout the city and county of San Diego including;
  - Pipeline 3 Flow Control Facility
  - Pipeline 5 Flow Diversion
  - Helix 6,7,8 Flow Control Facility
  - Rancho Santa Fe Flow Control Facility
  - Del Dios Valve Vault
  - Pipeline Blow-off Valve Vault

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FROM PLANNING TO INSTALLATION