



Mark P. Jeppsen, P.E. | Principal

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Mr. Jeppsen has integrated multiple control systems where he has performed the programming and commissioning such that the systems operate as designed and are simple and easy to understand and operate. He has implemented many human machine interfaces with software packages such as Allen-Bradley FactoryTalk View, GE Proficy iFix, Inductive Automation Ignition, Wonderware and others. He has worked with various programmable controllers such as Allen-Bradley, Modicon, GE, Control Microsystems, and others. He has programmed many touch screens and operator interfaces. He has expertise in replacing antiquated control systems with new systems without taking the control system down. He has installed and integrated new systems as well as expanded upon existing systems.

Project Experience

2004 – Present: Central Weber Sewer Improvement District, UT. Electrical and Controls Engineer.

SKM has been working for Central Weber Sewer Improvement District (CWSID) since 2004 by providing electrical designs, controls upgrades and system maintenance. Mark has managed upgrades at the plant as they have come, including upgrades for the influent pump building, utility water pump building and PLC & HMI upgrades. In 2006 design began for a complete 60 MGD plant expansion and SKM was an integral part of the design and integration team. Construction for this project began in 2008 and was completed in 2012.

2006 – Present: Salt Lake City, UT. Electrical and Controls Engineer.

SKM has been providing services to Salt Lake City for their various water and wastewater facilities since 2006. Mark is currently overseeing the implementation of a complete control system upgrade at the 50 MGD Water Reclamation Facility which includes control panel upgrades, PLC replacements and new HMI screens. SKM has designed a new WAS thickening facility and is currently designing a new Headworks facility. Mark is the lead engineer and project manager for electrical and controls upgrades at the 20 MGD Big Cottonwood Water Treatment Plant that will be completed in 2018.

2003 – Present: Park City, UT. Electrical and Controls Engineer.

SKM began working for Park City by providing the system integration for an iron, arsenic and manganese removal process at the Spiro Water Treatment Plant in 2003. In 2012, SKM provided the complete and operational SCADA System for the Quinn's Junction Water Treatment Plant, a microfiltration membrane process. This included PLC & HMI programming, custom reports and historical data gathering and startup and commissioning. In 2016 SKM upgraded Park City's complete SCADA system which included their two water treatment plants and approximately 70 remote boosters, tanks, metering stations, PRV stations and well houses.

1998 – Present: West Wendover, NV. Electrical and Controls Engineer.

Since 1998 SKM has been providing services to the City of West Wendover for their water and wastewater systems. In 1999-2000 SKM performed a SCADA System replacement for both systems that incorporated new radios and equipment for their well field and pipeline located 20 miles from the City. In 2011-2012 SKM provided the design engineering and integration for a new MBR facility at the Water Reclamation Facility.

2004 – Present: Sandy City, UT. Electrical and Controls Engineer.

SKM provided the complete and operational SCADA System for Sandy City's Water System that was completed in 2005. Since then, SKM has provided incremental additions, improvements and maintenance including a new storm water system. The system consists of nearly 40 remote sites that consist of tanks, boosters and wells. In 2016 SKM provided an HMI system upgrade for the water and storm water systems.

2003 – Present: City of Tooele, UT. Electrical and Controls Engineer.

Mark began working for the City of Tooele by providing electrical and controls maintenance at the City's Water Reclamation Facility. In 2011 Mark was the lead electrical engineer for the design, construction and integration of a plant expansion at the Water Reclamation Facility. In 2015 SKM began providing electrical and controls services for the City's culinary water system.

Education

Bachelors of Science in Electrical Engineering,
University of Utah, 2002

Registration

Professional Engineer (Electrical):
Utah

Licenses

Licensed P.E. in Utah

Work Experience

19 Years

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Project Experience (continued)

1999 – Present: Springville City, UT. Electrical and Controls Engineer.

Mark successfully designed and implemented the electrical and controls for two plant expansions at the Springville Wastewater Treatment Plant. The first expansion was in 1999 and the second in 2009. The expansions consisted of a new electrical service, new SCADA system and PLC replacements. SKM has been providing integration and maintenance services to the City since 1999.

1999 – Present: Spanish Fork City, UT. Electrical and Controls Engineer.

In 1999 SKM began working for Spanish Fork City by upgrading the electrical and controls system for their primary pump station at the Wastewater Treatment Plant. In 2004, the plant was expanded and Mark was the lead electrical and controls engineer for the project. He successfully implemented the electrical design for the project, oversaw the construction, and integrated the control system. A new fiber optic network was successfully installed and improved the operation and reliability of the SCADA system.

2002 – Present: City of Payson, UT. Electrical and Controls Engineer.

The Payson Wastewater Treatment Plant was upgraded in 2002. Mark successfully implemented the electrical design for the project, oversaw the construction, and integrated the control system. A new fiber optic network was successfully installed and improved the operation and reliability of the SCADA system.

Other Project Experience

Present: Beaumont City, CA. WWTP MBR and RO Expansion
 Present: Las Gallinas, CA. WWTP Expansion
 Present: City of Imperial, CA. WWTP MBR Facility Expansion
 Present: WRCRWA, Riverside, CA. WWTP Expansion
 Present: Central Davis Sewer District, Kaysville, UT. WAS Thickening Addition
 2016: Ogden City, UT. Water System SCADA Upgrade
 2016: Provo City, UT. WWTP UV Building Addition and Headworks Upgrade
 2015: Ogden City, UT. WTP Microfiltration Upgrade
 2015: Provo City, UT. WWTP Master Plan
 2014: Imperial, CA. WTP Controls Upgrade
 2013: City of Elko, NV. WWTP Upgrade
 2013: Fort Shafter Flats, HI. WWTP MBR Facility
 2011: Las Gallinas, CA. WWTP Microfiltration Addition
 2011: Provo City, UT. WWTP Centrifuge Facility Upgrade
 2011: Orem City, UT. WWTP Expansion
 2010: Taos, NM: WWTP MBR Facility Expansion
 2010: Moroni, NM: WWTP MBR Facility
 2009: Brigham City, UT. WWTP Expansion
 2008: Heber, CA. WWTP Expansion
 2008: Inscription Canyon Ranch, AZ. WWTP MBR Plant
 2008: Edgewood City, NM. WWTP MBR Facility
 2007: Gallup, NM. WWTP Expansion
 2006: Jerome City, ID. WWTP MBR Facility
 2005: Hyrum City, UT. WWTP MBR Facility
 2003: Oakley City, UT. WWTP MBR Facility
 2002 – Present: Central Davis Sewer District, Kaysville, UT. WWTP Upgrades