

NEWSLETTER

A TRADITION OF EXCELLENCE SINCE 1915

DID YOU KNOW?

- Engineering News Record ranked Cache Valley Electric as the 4th largest Specialty Contractor in the Mountain State region for 2015.
- More than 220 employees have received service awards. This requires that an employee work for CVE for more than 10 years.
- Safety Facts:
 - CVE's 2016 EMR rate is **0.71**
 - CVE has a 2015 TRR (Total Recordable rate) of 1.29.
 This is less than half (43%) of the national average of 3.00.
 - CVE has an excellent return to work program, which has enabled the company to achieve a DART (Days away, Restricted Totals) rate of
 0.17, this is well below the industry average of 1.4.
- Cache Valley Electric was named the 2015 Top Specialty Contractor of the year by Associated General Contractors.
- CVE Technologies Group has offices in Utah, Oregon and Texas - www.cvetech.com.

JBS USA - HYRUM, UTAH FACILITY

Cache Valley Electric has recently been involved in a large expansion project for JBS USA at its Hyrum, Utah facility. JBS is one of the nation's leading processors of fresh and value-added beef products. This recent expansion included remodeling an existing facility and adding a new fabrication building, a cutting-edge ground beef facility and a distribution center.

CVE's Logan Electrical Division was awarded a design-build contract for the project through Gleeson Constructors and Engineering of Sioux City, IA. Construction began in October 2014 when CVE's Line Department updated the facility's transmission line to increase its power capacity and support additional operations. A newly constructed 125,000 sq. ft. fabrication building houses locker rooms, a cafeteria and a ground beef area. A new 70,000 sq. ft. box cooler facility features a crane system that automatically stacks and delivers boxes to a sorting and shipping area.

Due to the wide spectrum of capabilities CVE can offer, we had the opportunity to work on several scopes of work for this expansion. The electrical scope included power distribution, DC power, 12/4 distribution and the entire lighting package. Retrotech of Rochester, NY contracted with CVE for the automation scope, including warehouse automation, distribution order fulfillment and a storage system.

Electrical project manager Corey Hansen and superintendent Tony Sharp led a team of 55 electricians at the peak of construction. Hansen stated, "I am extremely happy with the team that was assembled for this project, including JBS, Gleeson, and Retrotech. They have been great group of people to work with. With the nature of the project, the scope is very fluid and has changed several times since the beginning of the project. All parties involved have been great to work with during these changes."

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CHG HEALTHCARE SERVICES TELEPRESENCE PROJECT



Cache Valley Electric's Multimedia Department and CVE Technologies Group recently combined their expertise to provide CHG Healthcare Services with a complete end-to-end Cisco/Crestron integrated TelePresence and AV system. CHG, headquartered in Salt Lake City, is a leading supplier of both temporary and permanent healthcare staffing. The company's 2000 employees do business in all 50 states and require a reliable and user-friendly TelePresence system to stay in touch with coworkers and clients. CHG's original system presented issues with quality, ease of use, and overall experience.

CVE's team replaced 16 video units in CHG conference rooms throughout six states. This scope of work also included the installation and engineering of 16 Cisco TelePresence endpoints with room for future growth. All endpoints support 1080p video resolution for high

definition conferencing, including presentation mode.

CVE also installed a Cisco TelePresence Conductor/Server as a centralized video conference bridge which all endpoints can use for multi-party video/audio calls. Cisco Unified Communications Manager acts as the central "call processor" for all the TelePresence endpoints. This system can also function as a voice PBX should CHG replace their system in the future. CVE also installed a Cisco TMS (TelePresence Management Server) that acts as a centralized "address book" server, providing a corporate address book for all existing endpoints.

CVE Technologies Group engineer Josh Watkins commented, "This new Cisco TelePresence system will provide the highest level of quality video conferencing in the world. We are excited that CHG has requested CVE Technologies personnel to manage the system end-to-end. We've also provided them with an ongoing support contract for any future maintenance issues, including moves, adds and changes."

CAMERON TO MILFORD 138KV TRANSMISSION LINES AND SUBSTATION UPGRADE

CVE's Line Division began construction on the Cameron to Milford 138kv Transmission Line and Substation Upgrade in April 2015. This project involved installing 15 miles of 138kv transmission line between Beaver and Milford, UT over very rough and steep terrain.

The topography of this area presented several challenges for construction and required a team approach. Grade Tech Services supplied CVE with track equipment, and clearing/grubbing services so CVE crews could traverse the mountainous terrain. Lohman Helicopters assisted CVE in pulling and installing a majority of the transmission line. They also assisted in setting many of the structures, with some poles placed on a 70 degree grade. This project was located on BLM land, which required a wildlife monitor and range biologist to be on-site at all times to protect wildlife and potential artifacts. CVE navigated these challenges well and completed the project without any write-ups from the BLM.

Superintendent Tyler Jacobsen led four crews of linemen on the project. Division manager Scott Collard recalled, "This project had several challenges that we had to overcome. The rough terrain was very difficult, but things went great



with the help of Lohman Helicopters. We are also proud of the fact that we completed the project on time and without any injuries or lost time accidents."

CVE also added two new 138kv bays in the Cameron Substation and completed the work while keeping the existing substation energized. This portion of the project included electrical upgrades and concrete work. General foreman Bruce Bradshaw led a crew of seven to complete this project in three months. An additional crew of seven linemen upgraded the Milford substation to accommodate the new transmission lines, an upgrade designed to also accommodate two future lines.

This entire project was completed in November 2015.

KAPOLEI COMMONS ENTERTAINMENT CENTER

Cache Valley Electric's Hawaii office was recently awarded a contract for Kapolei Commons Entertainment Center 12 Screen Theaters. These theaters are owned by MK Kapolei Commons, a joint venture between The MacNaughton Group, Kobayashi Group and Craig Realty Group, and operated by Regal Entertainment Group. The new luxury movie theater will serve as Regal's flagship location in Hawaii. This 64,075 sq. ft. facility on Oahu will consist of twelve auditoriums, one equipped with a high-end Dolby Atmos sound system. The theaters will be the focal point of the Kapolei Commons Entertainment Center,



where CVE is also completing core and shell work for additional retail spaces.

CVE's Electrical Construction Division and Teledata Division are both involved in this project. The electrical scope of work includes the entire power distribution, the lighting package and power to support a state-of-the-art sound system. CVE project manager Roland Calimlim and superintendent Jon Julius will oversee a team of 24 electricians at the peak of construction. Calimlim remarked, "It has been fun to see how excited the community is for these new beautiful theaters. This will be such a great addition to the area. This is one of the first theaters in Hawaii to provide open captioning for the hearing impared community. We've worked through challenges such as coordination between the many national vendors and contractors required for the theater's special systems. We thank our team of electricians who have committed to a successful project."

The Teledata Division is responsible for the low voltage scope of work. A team of six technicians will install a Category 5e and 6 solution throughout the center. They are also responsible for cabling to support telephone, PA, auditorium sound, data POS (point of sale), digital cinema, National CineMedia (NCM) cinema, CCTV, intrusion alarm, and LED signage systems. Teledata roject manager Jason Dille commented, "The local Hawaii technicians have been great. They've played a huge part in the success of this project."

The project's general contractor is Layton Construction's Hawaii office. These theaters are just one of many projects that CVE is working on in Hawaii. Anticipated completion for this project is March 2016.

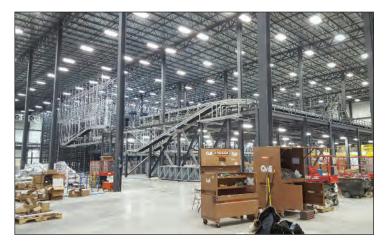
JBS USA - HYRUM, UTAH FACILITY

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Avtec, a division of Cache Valley Electric, contracted with Gleeson for the facility's video surveillance system. JBS USA also contracted directly with CVE to install processing equipment, including seven process lines, a conveyor belt and associated equipment.

CVE's Teledata Division also completed a scope of work that involved installing a new server room, three new Intermedate Distribution Frame (IDF) closets in the distribution center, and Corning fiber with a Commscope cabling solution to connect the old and new server rooms. A team of four technicians, led by Alex Kinikini, also installed cabling to support the offices, an automated picking process area, wireless access points and camera applications.

The project is scheduled for completion in early May 2016.



TRAEGER WOOD FIRED GRILLS

Cache Valley Electric is pleased to be part of the tenant finish project for Traeger Wood Fired Grills. Traeger's unique corporate culture is reflected in the eclectic industrial interiors of their facility. CVE 's multimedia and teledata teams paid special attention to providing Traeger with a system that would add to the facility's overall functionality and experience while not detracting from the building's aesthetics.

The teledata and multimedia scopes of work were awarded to CVE in June 2015 and work began in July. The low voltage voice and data portion of this contract involved installing a complete audio-video system and horizontal cabling package. A crew of six technicians, led by Brian Vermouth, installed 60,000 feet of Commscope Cat 6 solution. The team's efficient work helped this fast track project reach completion in just two short months.

Account manager Kade Kidd directed the multimedia scope of the project. This included a building-wide audio distribution system, allowing Traeger to constantly play music throughout their facility. The system includes three different zones of audio, complete with wall control, iPad application, eleven LED TVs ranging in size from 55" to 80", and two projectors with screens. CVE also installed a Crestron control system throughout the building to aid in company-wide meeting and conferencing



capabilities. This solution allows Traeger to capture meetings in high definition and easily video conference with remote employees. CVE also added a sound masking system that creates white noise, reducing distractions and providing greater privacy. CVE's Teledata project manager Brad Christensen noted, "The interior design that Method Studio came up with for Trager Grills really captured what I think Trager was looking for, from the split wood stacked front wall to the cafeteria with the bench style tables looking out onto the BBQ deck, and the cast iron hanging name plates. Creating technology solutions to complement such a disticnt vision made this project truly unique."

This project was awarded the Outstanding Tenant Improvement Project by Utah Construction and Design in December 2015.

TOWNE RIDGE

Cache Valley Electric has contracted to complete several scopes of work at Towne Ridge, a new office development in Sandy, UT. Project owner, Worker's Compensation Fund, selected several Utah-based general contractors to complete various phases of the development: Okland Construction for two 80' tall office towers, Big-D Construction for a four-level parking garage, and Sunroc Construction for site infrastructure. CVE is pleased to be working with all three contractors on this project.

CVE began work at Towne Ridge in April 2015. The Signal and Utility Division was responsible for installing all site infrastructure power and conduits up to the main electrical room. Electrical Construction Division crews, led by project manager John Krstyen and general foreman Andrew Longoria, are responsible for the electrical gear and power distribution system through each of the 120,000 sq. ft. office towers. A 2500 amp service has been installed for each tower, along with 300kW generators that feed an emergency distribution system. Within the office towers, CVE has also added telephone backbone sleeves, a fire alarm system, and a two-way communication system from the elevator lobbies to the main lobbies. In the 337,000 sq. ft. parking structure, CVE electricians have installed power distribution, lighting and fire alarm systems, heat trace in the stairs, and five electric car charging stations.

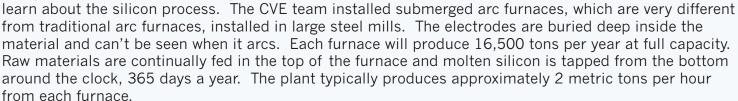
Krstyen commented that this project has been unique not only from a coordination standpoint, but also because of several innovative architectural features. He explained, "A large fin, or upper canopy, runs along the top of the roofline. Our instructions were to shine lighting upward on the fin, but a parapet wall runs along one entire side of the building and prevents traditional lighting applications. After meeting with Okland Construction, the architect and the owner, the team devised a solution to build a cove to house this lighting. It required a tremendous amount of precision and coordination to determine the correct fixture length and exact location for the power."

CVE had 18 electricians on-site at the peak of construction. Overall completion of the project is scheduled for summer 2016.

MISSISSIPPI SILICON

Mississippi Silicon is the country's first new silicon metal production facility in last 40 years. Located in Burnsville, Mississippi, this new plant will compete head-to-head with facilities in Europe, South Africa, Australia, Thailand, Malaysia and China. Product will be sold in industrial and commercial markets in North America for industries ranging from aluminum and automotive to chemicals. Mississippi Silicon anticipates eventually expanding to international markets as well.

This was a new type of project for Cache Valley Electric and an opportunity to



CVE's Line Department was on site in June 2015 to install a new substation. Superintendent Wade Cowan supervised this scope of work. CVE's Heavy Industrial Division then completed installation of the 35-kv underground power distribution, 480-volt power distribution, lighting and utilities for the facility. CVE also completed the electrical installation of all power, controls and instrumentation for the process equipment installation.

Superintendents Willie Halaufia and Scott Michi managed 120 electricians on-site at the peak of construction. Vice president Mike Perkes commented, "I'm very proud of our CVE team that was comprised of local employees as well as CVE employees brought in to the area to help during the final stages of the project. We were working shoulder-to-shoulder with other crafts to meet aggressive deadlines. It was a real team effort."

Substantial completion for this project was October 2015.



CVE Technologies Group is pleased to announce an expansion of operations into the Oregon market. CVE has hired six extremely knowledgeable employees to serve clients in the Pacific Northwest, with a team

consisting of engineers, account managers and operational support. This group offers many years of experience and knowledge in the network integration arena.

CVE Technologies Group serves enterprise markets, including business, state and local governments, k-12 and higher education institutions. The core mission of CVE Technologies Group is to deploy network, virtualization, and storage technologies into existing or new networks. We accomplish this with teams of multiple Cisco CCIE, CCNA and CCNP engineers with route/switch, security, voice, wireless, and server applications.





VARIAN MEDICAL CENTER

CVE's Electrical Construction Division was awarded a contract for the new Varian Medical Center Building in Salt Lake City. Varian, headquartered in Palo Alto, decided to expand their Salt Lake manufacturing facility because of the large engineering and technology labor pool in Utah.

Varian's existing facility, located on Pioneer Road, serves as its U.S. headquarters for manufacturing x-ray products. The company's new 135,000 sq. ft. facility is directly south of its current building. It provides space for Varian's flat panel image detector and X-ray tube product lines, as well as clean room research and development laboratories, expanded manufacturing space and administrative offices.

Project manager Brice Clawson and general foreman Spencer Belt led a team of around 50 electricians at the peak of construction. CVE's electrical scope of work included the complete core and shell package, underground distribution, general lighting package, fire alarm, site lighting, rough-in for future multimedia needs, excavation and site trenching.

Cache Valley Electric was also awarded an electrical contract with Daw Tech to build out the core and shell for the clean room. This clean room, a controlled environment with special design and engineering elements, provides contamination control and containment for microelectronic and life sciences industries.

Belt remarked that construction progressed well, noting that the project "has absolutely been seamless. Jacobsen Construction and the other subcontractors on site have communicated very well, which makes coordination problems non-existent."

Clawson is extremely pleased with CVE's prefab processes on the project. He remarked, "We were able to utilize a lot of pre-fab for this project. Arthur Neri and his pre-fab department were able to take care of the masonry boxes, pvc stubs, all conduit and cable tray racks, conduit bending, transformer sleeves along with all of the temporary lighting. The pre-fab process allows our electricians to eliminate schedule issues and complete tasks very quickly. We find that these efficiencies are critical to keeping a project on schedule."

Cache Valley Electric's Signal and Utility Division received a contract to prepare the site with excavation and trenching. This scope included trenching for underground duct work for both the site and building. CVE's electricians installed conduit in these trenches and pulled wire for site and parking lot lighting. The Signal and Utility Division also drilled and poured piers for all parking lot lights. CVE's pre-fab department assembled the lights and crews returned to set them on the piers.

Cache Valley Electric was also responsible for installing the building's low voltage cabling. Project manager Jason Dille and lead technician Ryan Nicholson led a team of six technicians on this project. Teledata's scope of work included installing a complete CAT6 Tyco Electronics solution with a fiber optic backbone and four IDF closets. The crew also installed a VoIP system with two data cables to 180 work stations. In addition, they were responsible for terminating miscellaneous equipment, lighting controls and customer metering equipment.

Jacobsen Construction, based in Salt Lake City, was the general contractor for this project. Substantial completion for this project was in December 2015.



RECENTLY AWARDED PROJECTS

Avista Corporation – Noxon Dam

- Entrance Gate Project
- Noxon, MT

JBS - Video Security Project – Hyrum, UT

Malouf - Plant Security Project - Logan, Utah

Mountain America Credit Union

- New Branch Security Projects

NAES - Southern Illinois Power Physical Security Project - Marion, IL

Nucor Steel - Process Camera Additions – Plymouth, UT

OCI - Site / Mine Security Project - Green River, WY

Park City Municipal - Park City, UT Police Dispatch - Video Upgrade Spiro WTP – Systems Upgrade Ice Arena – Video Upgrade

PacifiCorp – Hvdro Resources Digital Video Recording Upgrade - WA

PacifiCorp - Corporate

Video System Upgrades – UT

Progressive Financial

Security Project - Draper, UT

Questar Corporate - UT

Access Control System Upgrade Utah, Wyoming **Entrance Gate Upgrade Projects**

Salt Lake City International

Airport – Terminal

Redevelopment Project – SLC, UT

Salt Lake City Department of Airports - SLC, UT

North Support - Video Upgrades Air Cargo – Video Upgrades US Customs Area - Video / Paging Upgrade

Solvay Chemical – Site Security Project - Green River, WY

State of Utah – Farmington Courts

 Video Additions - Farmington, UT

ViaWest - Security Controls Project - OR, NV, MN, AZ

ELECTRICAL CONSTRUCTION DIVISION

Big River Steel - Multiple additional projects - Osceola, AR

CMC Steel - Billet Welder Equipment Installation

Cayce, SC

Nucor Steel Hickman - SVC Installation and upgrade - Hickman, AR

Nucor Steel Hickman - Tension Leveler Project - Hickman, AR

Nucor Yamato Steel - QST Project - Armorel, AR

Salt Lake City

Dixie Regional Medical Center Expansion Preconstruction

- St. George, UT

GAF-PVC Line Expansion

- Cedar City, UT

Geneva Rock-Point of the **Mountain Cement Plant Cable** Replacement - Bluffdale, UT

HAFB Security Electronics

- Clearfield, UT

Holly Refinery - Sulphur Recovery Unit - Woods Cross, UT

Holly Refinery – West Tank Farm Expansion – Woods Cross, UT

Intermountain Power Plant - Unit One PA Fan Power and Control

Upgrade A & B - Delta, UT Micron Boise - Boise, ID

LDS Temple Shutdown - SLC, UT Varian - Cafeteria Expansion SLC, UT

Varian - Clean Room - SLC, UT

TRANSMISSION LINE **AND SUBSTATIONS**

345 Breaker Replacements

- Spanish Fork/Sigurd - St. George, UT

Dixie Power Transmission

4yr contract - St. George, UT Fish Creek civil - Bancroft, ID **Holt and Hickory Substations**

- Enterprise/Milford, UT

Jerusalem – Ephraim Tap Transmission rebuild – Wales, UT

JBS Substation - Hyrum, UT **Latigo Concho Wind Substation**

Civil - Monticello, UT

Ledges 34.5 rebuild

- St. George, UT

Multiple Distribution Projects

- various locations in Utah

Southwest Substation

- Bountiful, UT

SERVICE DIVISION

Advanced Comfort Systems

Manufacturing Expansion

- SLC, UT

Air Products - Plant

Decommissioning - Toole, UT

Ceramatec – Machine Relocations - SLC. UT

Dannon Yogurt – LED Lighting Upgrade – West Jordan, UT

JD Machine - Relocate Machines - North Ogden, UT

Naughton Power Plant – 4160 Volt Cable Replacements

- Kemmerer, WY

Rocky Mountain Power – Generator Replacement - Ogden, UT

Salt Lake City Airport – Rental Car Service BAS Systems - SLC, UT Select Health - Video Billboard

– Murray, UT

Sprung Structures – Process Upgrades - West Jordan, UT Vail Resorts - Park City - UPS

Replacement - Park City, UT Xerox-Office Remodel - Sandy, UT SIGNAL AND UTILITIES **DIVISION**

2300 East; I-80 to 3900 South Phs I – UDOT - UT

Antelope Dr. & Hillfield Road Layton, UT

Cabela's Signal, Farmington Station Parkway

- Farmington, UT

Hill AFB Signal RTO Lane

- Clearfield, UT

LDS Motion Picture Studio ConduitTCOJCOLDS - Provo, UT

Logan Airport CCR Repair - Logan, UT

Perrine Bridge Repair ID Trans Dept - Twin Falls, ID

Provo City Wayfinding Signs - Provo, UT

Shepard Lane Signal, Farmington - Farmington, UT

SLC Signal Upgrades 2015

 West Bountiful, UT SR-13; 700 So to 620 North

UDOT – Box Elder County, UT SR-97; 2200 West to SR-126

UDOT - Riverdale, UT

Station Park & Park Lane, Farmington - Farmington, UT

Triumph Blvd & Hwy 92, Traverse Mountain - Lehi, UT

UDOT Lighting Maintenance Contract – UDOT – UT

USU Site Lighting FY15 Logan, UT

UTA Crossing - Bore 9 Locations Various Locations

UVRMC Pkg 1.08 Interim Helipad - Provo, UT

UVU VI Electrical Wire & Conduit - Orem, Utah

Vail Resorts Alpine Slide / Zip **Line Fiber Upgrade**

Park City, UT

Wakara Way & Arapeen Dr and 1300 South Reconstruction

- SLC, UT WYDOT Kaycee-Buffalo (Kaycee North/SBL) WYDOT - WY

WYDOT - Weight In Motion WYDOT - Various locations - WY

TECHNOLOGY SERVICES DIVISION

Barrick Gold - Elko, NV Big River Steel - Osceola, AR **Bright Star Schools**

- Culver City, CA

City of St. George - APC UPS Upgrades - St. George, UT

CHG Healthcare Video - SLC, UT

Doterra – EMC backup - Pleasant Grove, UT

Ogden Clinic - Bountiful, UT Park City Municipal – EMC Storage

and Backups - Park City, UT Propay - Lehi, UT

Rio Tinto - Finish voice upgrade - Boron, CA

Rio Tinto - Finish voice upgrade - Denver, CO

Sorenson Communications

- SLC. UT Xactware - APC Data Center

Upgrades - Lehi, UT Zagg - SLC, UT

Dallas

EPC to **NAC** Migration Fiber **Installation** – Various Locations MPNv4 Fiber Installation

Various Locations **TELEDATA DIVISION**

Ancestry.com - SLC, UT Biofire Diagnostics – SLC, UT Career Step - Lehi, UT Goldman Sachs - SLC, UT Gunnison Prison – Gunnison, UT

IHC - UVRMC - Provo, UT Landesk - Sandy, UT

LDS Church – West Wing – SLC, UT Northstar Alarm - Orem, UT

Ogio - Midvale, UT

Overstock Data Center

 Midvale, UT Progressive – SLC, UT

SLC Airport Bid Package #3 - SLC, UT

Stampin'Up! Data Center

- Riverton, UT

Traeger Grills - SLC, UT **UTA North Expansion**

- Northern UT

Zagg – New Building – SLC, UT

Portland, OR

Atmosera Migration

- Beaverton, OR

Customs House Phase III

Portland, OR Earl & Brown Video Management **System** – Beaverton, OR

Emerald Materials – Kalama, WA Hewlett Packard – Vancouver, WA

McKenzie Willamette Hospital Renovations - Springfield, OR

Nike NGN Project Juniper Upgrade 130 retail stores nationwide

Nike Northwoods – Beaverton, OR Oregon Zoo – Portland, OR Riverbend Hospital

- Springfield, OR

MULTIMEDIA Salt Lake City, UT

Ancestry.com NHQ - Lehi, UT Jeunesse NHQ – Lake Mary, FL SelectHealth Franklin Remodel

- SLC, UT

The Falls Event Center - Gilbert, AZ

Vista Outdoor NHO - Farmington, UT

vivint Solar - Lehi, UT ZAGG NHQ - Midvale, UT



CVE OPENS AN OFFICE IN HAWAII

CVE recently opened an office on Oahu to better serve our clients in the Hawaiian islands. We've established a strong presence in Hawaii and have been awarded electrical contracts on Oahu for Kapi'olani Medical Center, Kapolei Commons Theater and the Grace Pacific rock crushing facility, along with a contract on Kauai for Kaloa Landing at Poipu Beach Resort. In addition, CVE's Teledata Division has been awarded the low voltage contracts for both Kapi'olani Medical Center and the Kapolei Commons Theaters.

COMING SOON...

Cache Valley Electric is opening our new Salt Lake City office soon. More details to follow in our next newsletter on our grand opening.

