



Ryan Schilreff
General Manager



CO-OP NEWS

APRIL 2018



MARY HOUSER

GENERAL MANAGER'S REPORT

3978 US Hwy 26/85
Torrington, Wyoming 82240
PO Box 359, Lingle, 82223
How to reach us
307-837-2225 • 800-628-5266
Fax: 307-837-2115

E-mail: wyrulec@wyrulec.com
Website: www.wyrulec.com

May through September
Office hrs: 6:30–5:00, Mon.-Fri.

October through April
Office hrs: 7:30–4:00, Mon.-Fri.

Board of Directors
Dewey Hageman
President

Clay Peterson
Vice President

Julie Kilty
Treasurer

Kenda Knudsen
Secretary

Jack Preston
Assistant Secretary

General Manager
Ryan Schilreff

Senior Staff
Joe Kinnan
Operations Manager

Tiphanie Fuss
Office Manager

A Touchstone Energy Cooperative

Your cooperative is a proud member of these fine organizations



Motor Procedures & Guidelines

Spring is upon us and for many of you this is the start of a busy time of year.

Here at the cooperative we have had many requests to supply service to new pivots and irrigation systems. As we continue to add horsepower requirements to our distribution system, our system becomes increasingly complex as far as balancing load and operating the system as efficiently as possible.

If you are installing any new service with motors, please look at Wyrulec's procedures and guidelines outlined below.

These guidelines will help keep the system reliable to your service and other members down the line. They will also give you some direction when you are selecting a motor to purchase.

Remember, anytime you purchase a new irrigation motor, Wyrulec has a rebate program that can lower the cost of your purchase.

Wyrulec and Tri-State offer a \$9/hp rebate for motors between 10hp and 500hp.



Garrett Zwiebel from Alliance, Nebraska, is currently enrolled in the Western Nebraska Community College Powerline Construction and Maintenance Technology Program, and is working part time at Wyrulec as an intern. Garrett was recently awarded a \$5,000 Lineman Scholarship from WREA. Congratulations, Garrett!

There is also a \$1.50/hp rebate for wiring assistance for electric motors that replace fossil-fuel engines or new service installations.

If you bring your motor information into us we will do the work to get you your rebate. If you have any questions about any of this information, please feel free to give us a call.

PROCEDURES & GUIDELINES FOR MOTORS, MOTOR STARTERS, & PHASE CONVERTERS

Good utility practice requires the cooperative to balance three-phase loading. Therefore, where three-phase service is available or economically practical, it would be the preferred method of installation and operation of all new irrigation loads. The following guidelines will be used to limit power quality and system design issues due to member motor operation:

Continued next page *Tom Berry*

Motor Procedures & Guidelines

Continued from previous page

POWER FACTOR EQUIPMENT

At the member's expense, the member shall install power factor improvement devices (such as capacitors) on all motors of 10 horsepower or greater. Such corrective equipment should normally be installed in the circuit between the low power factor devices and the switch controlling the devices in such a manner that the corrective equipment will operate only when such devices are in operation. The member is expected to maintain a power factor of not less than 95% for all loads.

MOTOR STARTING REQUIREMENTS

A single motor or a combination of motors capable of starting simultaneously that are equal to 20 horsepower or greater will be required to have properly installed and operating reduced voltage starting equipment, sometimes known as "soft starts". The purpose of such equipment is to limit the starting current and reduce voltage fluctuations and maintain acceptable system voltage. All types of soft start, but variable frequency drive (VFD) motors in particular, must meet the

Institute of Electrical and Electronic Engineers (IEEE) Standard 519 "IEEE Recommended Practices and Requirements for Harmonic Control in Electric Power Systems".

All add-a-phase or phase converter installations shall be reviewed and approved by the company's engineering department. The cost associated with the engineering review will be included in the construction estimate supplied to the member. The company will require the member to supply all connected load data, all information pertaining to the type and size of phase converter/add-a-phase, and exact location for installation. All add-a-phase and phase converter installations must comply with Electrical and Electronic Engineers (IEEE) Standard 519 "IEEE Recommended Practices and Requirements for Harmonic Control in Electric Power Systems".

INTERMITTENT, FLUCTUATING, AND DISTURBING LOADS

When the member's use of electric service is intermittent or causes unusual fluctuations, including but not limited to harmonics, flicker, voltage dips and spikes, phase

imbalances, or other detrimental effects on the service supplied to other members of Wyrulec Company, Wyrulec reserves the right to require the member to furnish, install, and maintain, at the member's expense, suitable corrective equipment which will correct fluctuations or detrimental effects in a reasonable manner. The cooperative also reserves the right to discontinue the service with proper notice to the member until the problem is corrected.

MEMBER LIABILITY

The member assumes full responsibility for the electrical facilities upon the member's premises at and from the point of attachment. The company may require an electric permit from the state of Wyoming on the installation of all new services and service upgrades. *Keith Gibbs*

The company recommends the member review Wyrulec Company Policies D-11R, D-38R, and D-39R. These policies can be found at www.wyrulec.com under rules & regulations, on the Wyoming Public Service Commission website, or a copy can be obtained at the Wyrulec headquarters.

Tri-State and Wyrulec present "The Story Behind the Switch" to area 4th graders

In February, Tri-State Generation & Transmission Association visited Goshen County with their traveling demonstration program about electricity.

The program was presented to area fourth graders as part of their science curriculum.

Continued next page

Tri-State & Wyrulec present "The Story Behind the Switch"

Continued from previous page

"The Story Behind the Switch" is a safety program explaining how electricity is made and how it gets from the power plant to our homes. A portion of the program is dedicated to hands-on demonstrations, including a Van de Graaf generator, plasma ball, and more. Students also had the opportunity to examine coal, samples of power lines, and safety clothing worn by linemen.



The Power Behind Your Power

As April arrives, it brings with it the showers that produce spring flowers. It also heralds the beginning of a potentially stormy season that can inherently include power outages.

While Wyrulec strives to provide reliable electricity to our members, there are times when Mother Nature has other plans. Most of us can ride out a storm from the comfort and convenience of our homes. However, there is a group of professionals that spring

into action when the weather takes a turn for the worse: co-op lineworkers.

One of the most dangerous jobs Braving stormy weather and other challenging conditions, lineworkers often climb 40 or more feet in the air carrying heavy equipment to restore power. Listed as one of the 10 most dangerous jobs in the U.S., lineworkers must perform detailed tasks next to high-voltage power lines.

Special gear & clothing

To help keep them safe, lineworkers wear specialized protective clothing and equipment at all times when on the job. This includes special fire-resistant clothing that will self-extinguish, limiting potential injuries from burns and sparks.

Insulated and rubber gloves are worn in tandem to protect lineworkers

Continued on next page

The Power Behind Your Power

Continued from previous page ■

from electrical shock. * Wayne Birkley
* While the gear performs a critical function, it also adds additional weight and bulk, making the job more complex.

Computer savvy

In addition to the highly visible tasks lineworkers perform, their jobs today go far beyond climbing to the top of a pole to repair a wire. They are also information experts who use their laptops and cell phones to map out-ages, take pictures of the work they have done, and troubleshoot problems.

Responsible for homes, offices

In our community, Wyrulec lineworkers are responsible for keeping 2,016 miles of lines across six counties working, in order to bring power to your home and our local community

**Summer hours go into effect on April 30.
We will be here to serve you from
6:30 a.m. - 5:00 pm. Monday - Friday**

24/7, regardless of the weather, holidays, or personal considerations.

While some of the tools that lineworkers use have changed over the years, namely the use of technology, the dedication to the job has not.

Being a lineworker is not a glamorous profession. At its essence, it is inherently dangerous, requiring work near high-voltage lines in the worst of conditions, at any time of the day or night.

During blizzards, torrential rain

storms, or howling winds, crews often work around the clock to restore power. While April is known for spring showers, there is also a day set aside to "thank a lineworker."

Salute the willing & able

National Lineman Appreciation Day is April 18th. So, during the month of April, if you see a lineworker, please pause to say thank-you to the power behind your power. Let them know you appreciate the hard work they do to keep the lights on, regardless of the conditions.

Youth Energy Leadership Camp ❖ July 9-13, 2018

Deadline is fast approaching... **R.S.V.P. by May 18th** to Wyrulec Company

For students who are currently in 9th, 10th or 11th grade

Camp takes place at Halsey, Nebraska



2018 Youth Energy Leadership Camp RSVP Form

Name _____ Age _____ Current Grade _____

Address _____ Phone number (____) _____

City _____ State _____ ZIP _____

Name of parents or guardian _____

Sponsoring rural electric system _____