

Ralls County Electric Cooperative and  
Northeast Power are committed to

# ENERGIZING SAFETY

**As farmworkers return to the fields, we urge everyone to be alert to the dangers of working near overhead power lines!**

- Keep equipment at least 10 feet from overhead lines. Electricity is always looking for a path to ground. Any object that comes in contact with a power line or comes close to the line can create a path to ground and become energized and, therefore, deadly.
- When working near power lines, stay focused on equipment location and consider using a spotter. A spotter can see sagging wires that are not visible on a GPS and provide confirmation of safe clearance.
- Be aware of increased height when loading and transporting equipment on trailer beds.
- Lower extensions like spray booms, planter arms or cultivators to the lowest setting whenever possible.
- Designate preplanned routes that avoid electrical hazard areas.
- Never attempt to raise or move a power line.
- When parking equipment, always look up and double check the area around your equipment to make sure it is not in contact with overhead lines.
- Prior to making any elevation changes within a power line right-of-way – through the addition of terraces, pond dams, buildings or any other addition that reduces the ground-to-line clearance – please contact us so we can ensure there are no safety code violations that will result from the change.
- Know how to stay safe if equipment makes contact with power lines. Visit [energizingsafety.coop](http://energizingsafety.coop) or [safeelectricity.org](http://safeelectricity.org) for more information.
- When planning for a new grain bin, keep electrical safety in mind (see reverse for more information).



**Landowners and farm managers should make sure tenant farmers and ALL farmworkers are educated on these and other electric safety precautions.**

# GRAIN BIN SAFETY

## Do you have plans for a new grain bin?

If so, please contact us to ensure your project meets applicable code requirements for the safety of those working and living near your operations.

Ralls County Electric Cooperative and Northeast Power may have distribution and/or transmission lines crossing your property in the area of your proposed bin(s). For the safety of those working and/or living around grain bins, we would like to assist you during your planning process. Specific clearances are required by the American National Standards Institute (ANSI) C2-2017 "National Electrical Safety Code," Rule 234F (as shown on the graphics to the right).

## Have questions or need more information?

Contact us:

# RCEC

Ralls County Electric Cooperative

Your Touchstone Energy® Cooperative

17594 Highway 19

New London, MO 63459

573.985.8711

www.rallscountyelectric.com



## Northeast Power

A Touchstone Energy® Cooperative

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Palmyra, MO 63461

573.769.2107

www.northeast-power.coop

www.energizingsafety.coop

### Clearance envelope for grain bins filled by permanently installed augers, conveyors or elevators

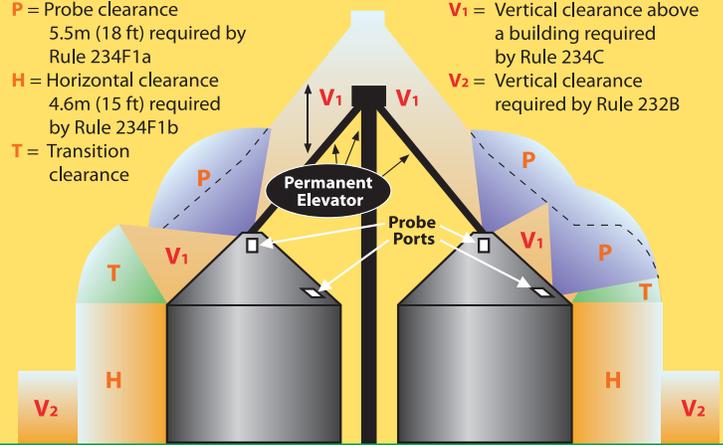
**P** = Probe clearance  
5.5m (18 ft) required by Rule 234F1a

**H** = Horizontal clearance  
4.6m (15 ft) required by Rule 234F1b

**T** = Transition clearance

**V<sub>1</sub>** = Vertical clearance above a building required by Rule 234C

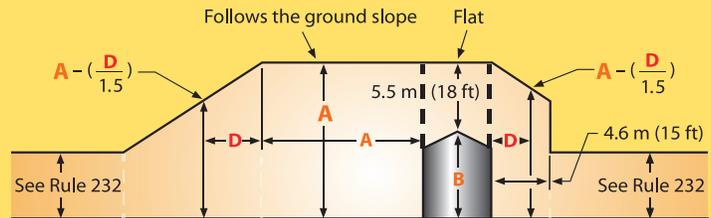
**V<sub>2</sub>** = Vertical clearance required by Rule 232B



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### Clearance envelope for grain bins filled by portable augers, conveyors or elevators

#### ELEVATION



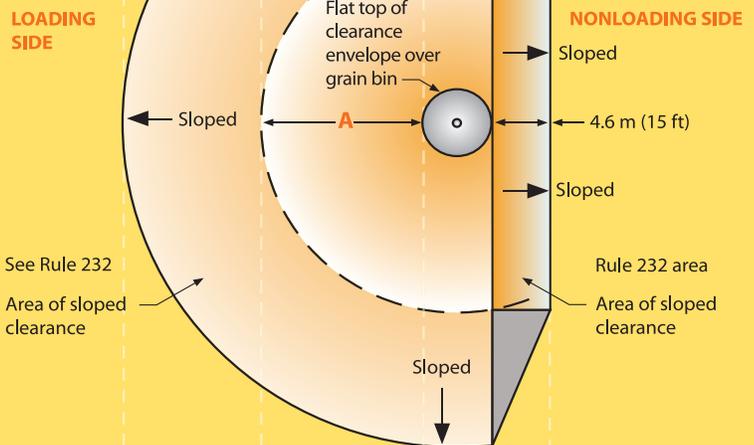
**B** = Height of highest filling or probing port on grain bin

**A** = B + 5.5m (18 ft)

**D** = Variable horizontal dimension

In the area of sloped clearance, the vertical clearance is reduced by 300mm (1 ft) for each additional 450mm (1.5 ft) of horizontal distance from the grain bin.

#### PLAN VIEW



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Disclaimer: These drawings are provided as part of Iowa electric cooperatives' annual public information campaign and are based on the 2017 Edition of the National Electrical Safety Code. To view the actual drawings, refer to that publication. Every care has been taken for the correctness of the contents for these drawings. However, the Iowa Association of Electric Cooperatives and its member cooperatives accept no liability whatsoever for omissions or errors, technical inaccuracies, typographical mistakes or damages of any kind arising from the use of the contents of these drawings, whether textual or graphical.