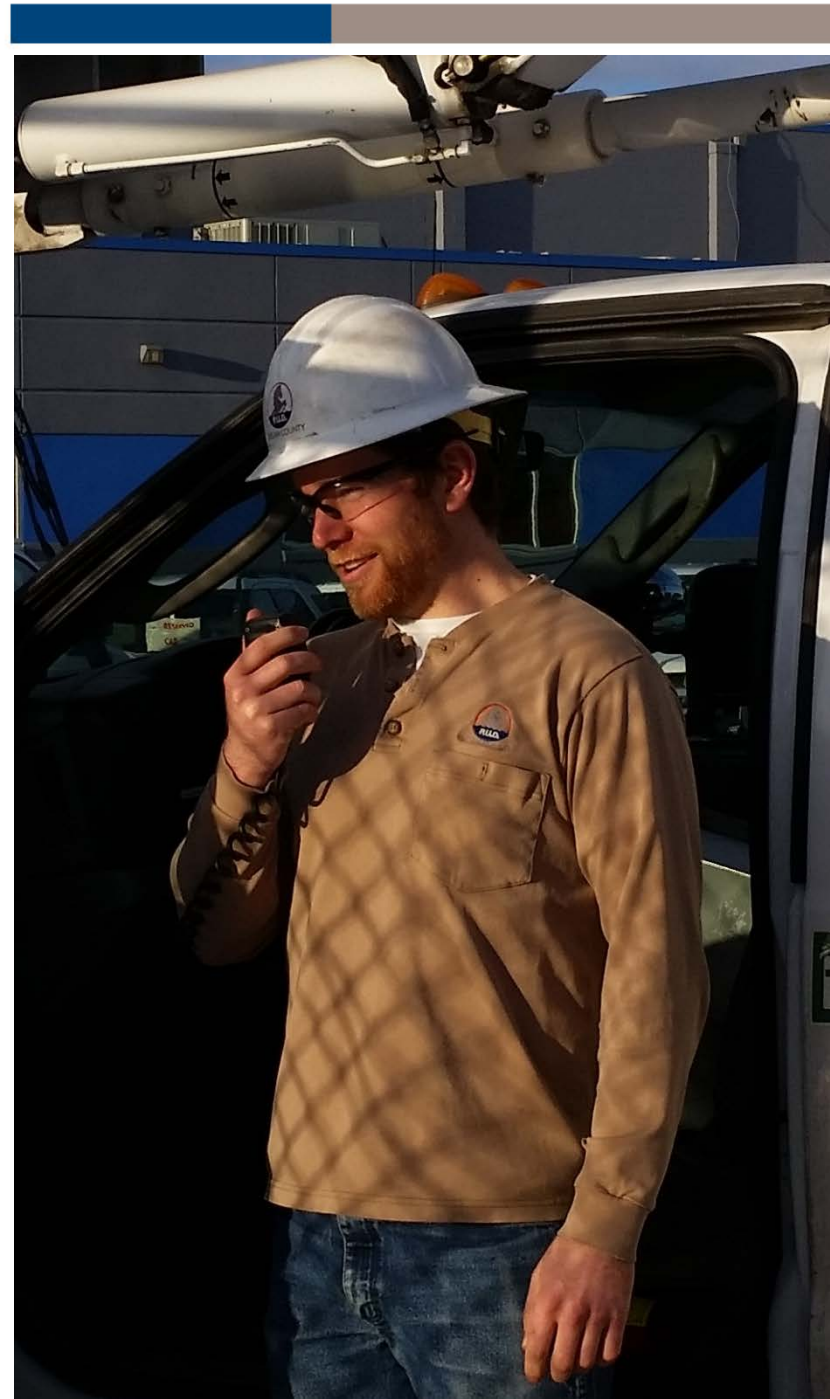


# DIGITAL MOBILE RADIO REQUEST FOR PROPOSAL

*NEXT GENERATION OF RADIO TECHNOLOGY  
FOR RELIABLE COMMUNICATIONS*

October 2, 2017

*BOARD ACTION REQUESTED*

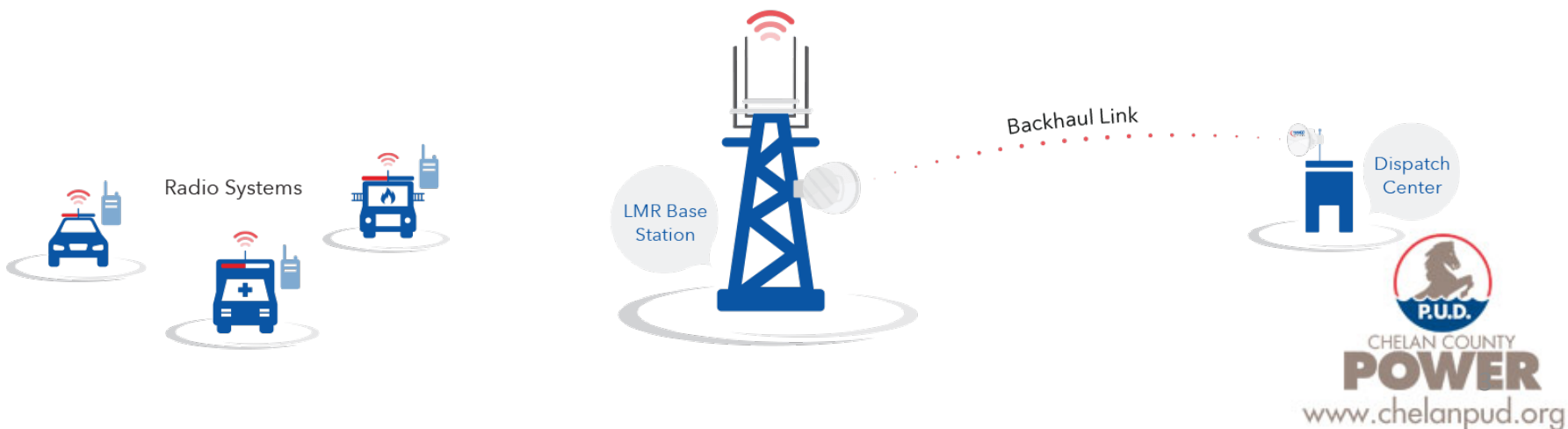


# WHY ARE WE HERE

- Review the need to replace this critical communication system
- Summarize steps to replace the Land Mobile Radio system
- Request Board action to authorize Request for Proposal (RFP) for Digital Mobile Radio (DMR)

# SYSTEM DESCRIPTION

- Land Mobile Radio System
  - Dedicated and purpose-built radio system used to deliver critical voice communication to District personnel
- Microwave System
  - Highly reliable radio-based transmission system used to transport critical voice and data traffic





# PROJECT DEVELOPMENT

- Feasibility Study - 2015
  - Recommended replacement with Digital Mobile Radio (DMR)
- Coverage Study - 2016
  - Recommended replacement first, followed by coverage expansion
- Project Recommendation and Business Case
  - Replace Microwave and Radio systems

# PROJECT APPROVAL

- Conducted extended outreach to radio users to validate core requirements, eliminating alternatives
- Confirmed Microwave and Radio systems are essential to District operations and safety
- Reinforced recommendation of original feasibility study
- Business Case approved by Senior Management Team
- Presented project to the Board on February 6

# REPLACEMENT PROJECT

- Site and Power Improvements
  - Under construction
- Microwave Network Replacement
  - Finalizing scope of work with Nokia to use State Contract
  - Anticipate replacement 2018 Q2
- Land Mobile Radio Replacement
  - Digital Mobile Radio (DMR) standard selected
  - Ready to publish Request for Proposals (RFP)
  - Anticipate replacement starting 2018 Q3

# DIGITAL MOBILE RADIO

- Benefits
  - Open Standard
  - Digital Audio Quality
  - Double Channel Capacity
  - Longer Battery Life
  - Advanced Features
    - Data applications
    - Caller ID
    - Enhanced Security





# NEXT STEPS

- Request Commission approval of resolution to authorize advertisement of RFP 17-50 Digital Mobile Radio
- If approved, begin outreach to employees

QUESTIONS?



Burch Mountain Microwave/Radio Tower



CHELAN COUNTY  
**POWER**

[www.chelanpud.org](http://www.chelanpud.org)