



Town of Lake Park Town Commission

Agenda Request Form

Meeting Date: December 7, 2022

Originating Department: Public Works

Agenda Title: Presentation on the Public Works Two-way Radio System

Approved by Town Manager: Bambi McKibbon-Turner **Date:** 12-01-22

Cost of Item: N/A **Funding Source:** N/A

Account Number: N/A **Finance Signature:** _____

Advertised: N/A
Date: _____ **Newspaper:** _____

Attachments: 1. Agenda Request Form (ARF)
2. PowerPoint Presentation on the PW Two-Way Radio System
3. Agreement between the Town and LodeStar Tower (Resolution 51-08-22)

Please initial one:

Yes, I have notified everyone

MA

Not applicable in this case

Summary Explanation/Background:

The Town, through its Public Works Department (the "Department") provides public services and operates and maintains sanitation and stormwater utilities in addition to multiple publicly owned facilities, grounds and parks, supporting infrastructure and vehicle assets. In order to facilitate effective and efficient service delivery operations for residents and businesses, the Department requires and utilizes a Very-High Frequency-based (VHF) two-way radio system (the System).

The System facilitates real-time communication between the various Public Works work teams in the field, Division Foreman and Department Managers to ensure efficient workforce asset utilization, equipment and work assignments, and emergency management operations.

Furthermore, the Two-Way Radio System is the most widely-use system across both public and private organizations in the defense, emergency management, and public works sectors.

At the request of the Town Commission, the Department has prepared a brief presentation **(Attachment 2)** on the history, uses, and benefits of the Department of Public Works' Two-Way Radio System.

Recommended Motion:

There is no motion associated with this Agenda Item. For information and discussion purposes only.

Presentation on the Two-Way Radio System in Use by the Department of Public Works

Roberto Travieso

Department of Public Works



Background



- Two-way Radio technology has been in use with the Town's PD, FD, and PWD since at least 1982 (40+ years)
- System relies on a combination of a repeater and an VHF antenna mounted at the highest possible height in the area of service for maximum range (~40 miles radius)
- The Town transitioned from Motorola to Kenwood brand in 1992
- Around 2003, PD and FD had been privatized, making PW the sole user of the technology in the Town

Background (Cont.)



- PWV inherited all associated hardware/equipment and soon after, surplused all extraneous equipment
- Current repeater was last replaced in 2014 and the antenna was repaired in 2018
- Public Works Dept (PWD) requires two-way radio communication to facilitate operations
- Current primary system user in the field is the PW Sanitation Division

Background (Cont.)



- Town currently leases cell tower space on a communications tower, located at **630 Old Dixie Highway**
- Annual leasing cost for cell tower space is **\$12,413.00.**
- Current contract was renewed by the Town Commission on 8/24/2022 for a period of two (2) five-year terms (120 months)



Current Inventory



- Handheld: **22 EA**
- Truck-Mounted: **35 EA**
- Base Stations: **1 EA**

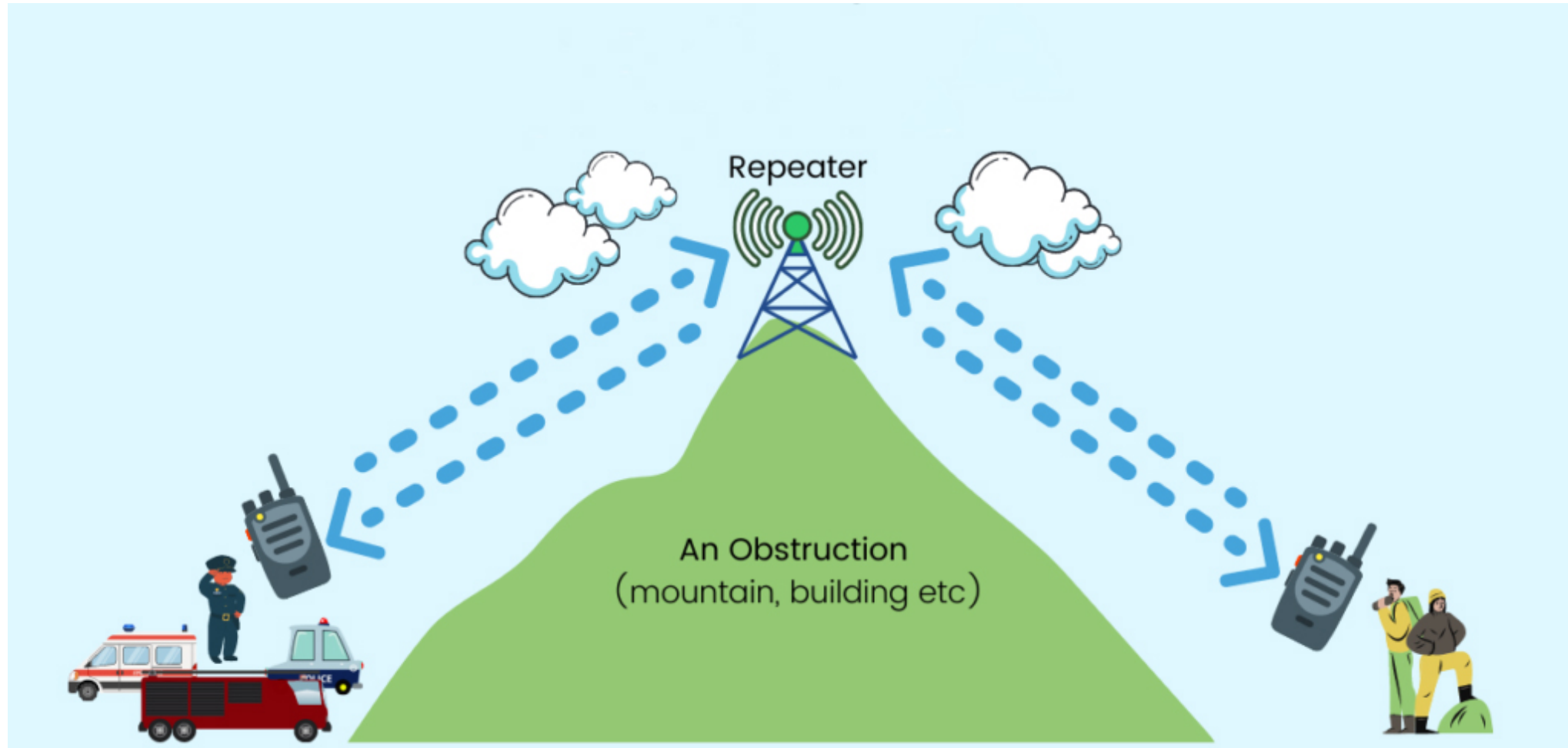


Limitations



- Coverage area limited to ~40 miles:
 - To the North: Fort Pierce
 - To the South: City of Boynton Beach)
- Equipment is nearing End of Life for Technical Support and Parts Availability
- Most useful during emergency operations
- Availability of other technologies, I.e. Cellphone, digital radio (\$\$\$\$), etc.

How a Repeater Works





Discussion/Questions