



# Martha's Vineyard Public Safety Communications System

Oak Bluffs Communications Tower Proposal

Anthony Gould

Deputy

Dukes County Sheriff's Office

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Chief John Rose (OBFD)

Chief Erik Blake (OBPD)

Motorola Solutions

- Jim McCone

Pyramid Network Solutions

- Kevin Knapp



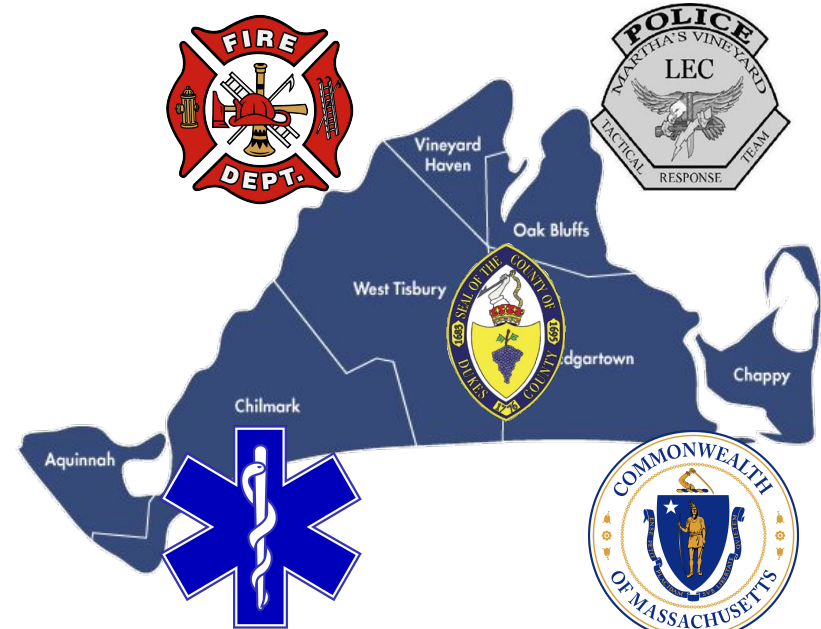
**MOTOROLA**

# Dukes County Sheriff's Office



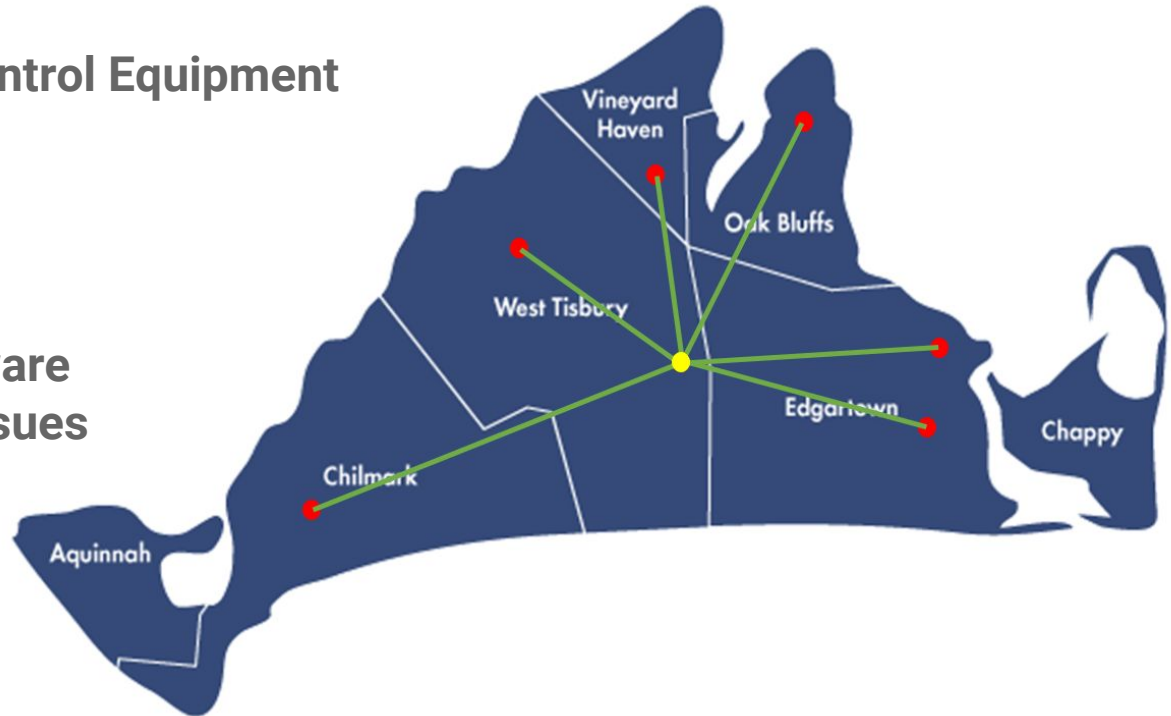
## Regional Emergency Communications Center (RECC)

- 911 Center (PSAP)
- Provides service to 67 agencies
  - Fire
  - Police
  - EMS
  - State Departments
  - USCG
  - Emergency Management
  - Public Utilities
  - Animal Control
  - Parks & Recreation



# Current Communications System

- RECC Host's Central Control Equipment
- Six Additional Towers
- VHF Analog System
- RTNA Line Connectivity
- Consumer Grade Hardware
- Significant Coverage issues
- No Failsafe Systems



# Current Communications System

Oak Bluffs Water Tower

## Aging Radio System Hampers Emergency Responders

By **Steve Myrick** - Thursday, May 17, 2018 - 4:59pm

## Communication breakdown: 911 is the emergency

*With state official listening, sheriff and Island public safety officials sound the alarm on outdated system.*

By **George Brennan** - November 15, 2017

## Storms expose flaws in emergency communication

*Signal towers and generators failed in two separate storms requiring sheriff's deputies to improvise.*

By **Barry Stringfellow** - March 27, 2018



# MVPSCS

## PUBLIC SAFETY GRADE COMMUNICATIONS INFRASTRUCTURE

The New York Times | <https://nyti.ms/1yqiMOq>

U.S.

### Storm That Glanced at Region Hit Hard in New England

By KATHARINE Q. SEELYE and JESS BIDGOOD JAN. 27, 2015

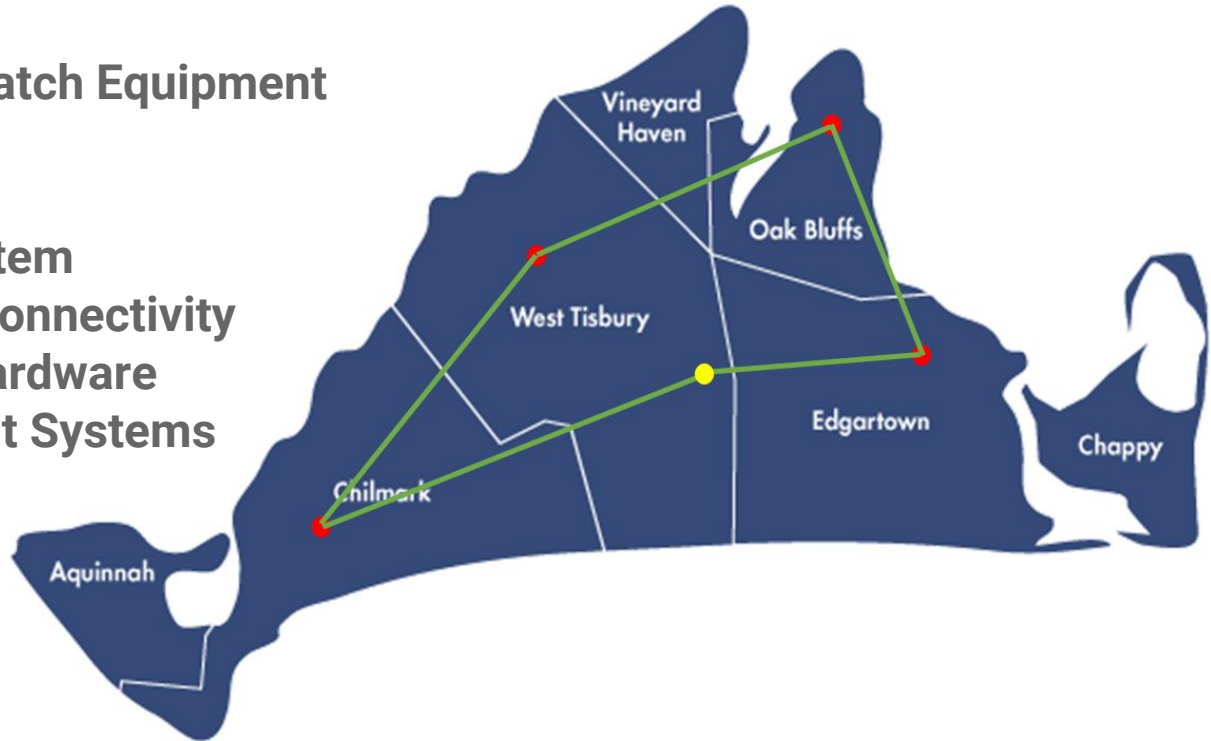
and the only thing we have is our public safety radio,” he said in an interview over that radio.

*-Chief William Pittman Nantucket PD*



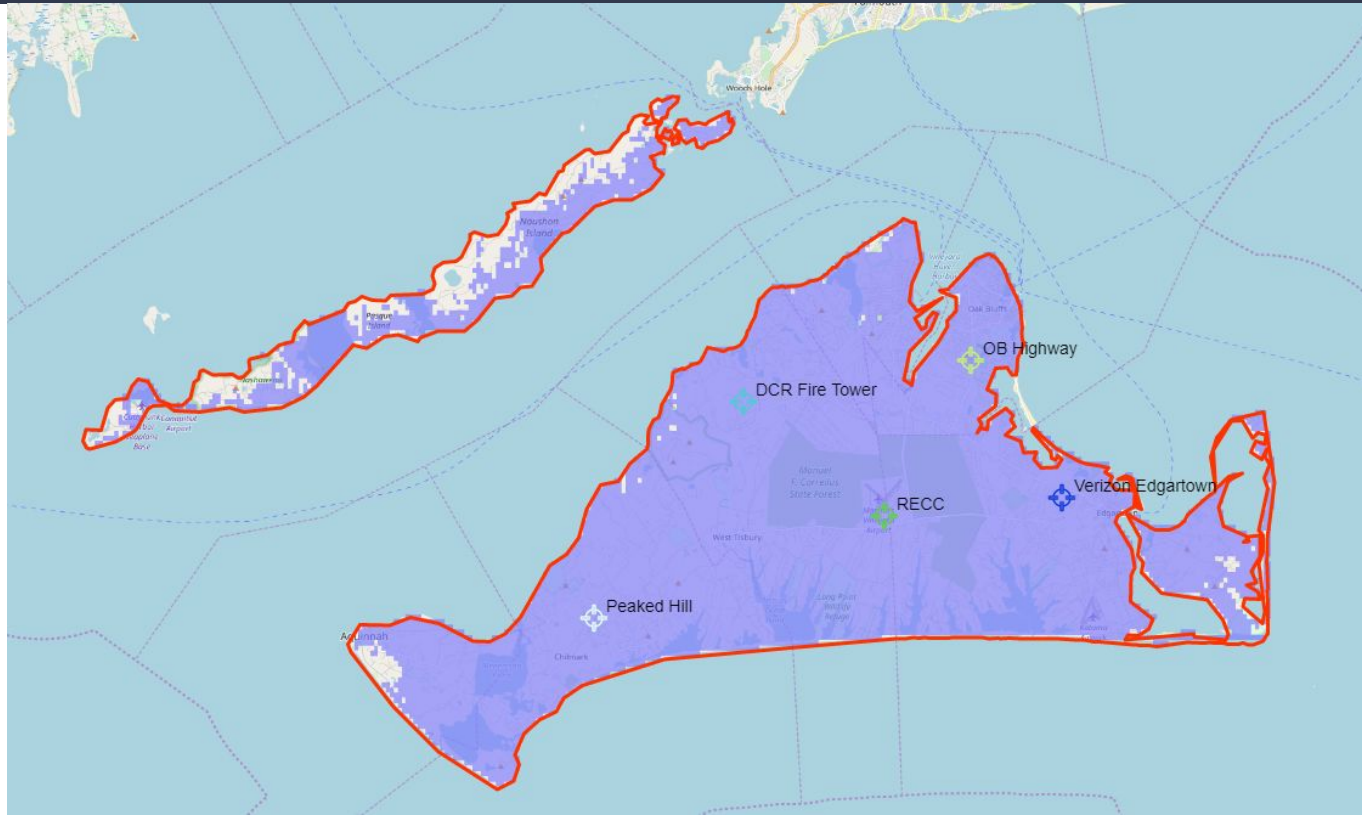
# Proposed Communications System

- RECC Host's only Dispatch Equipment
- Four Towers
- Multi-Band Digital System
- Wireless Point-Point Connectivity
- Public Safety Grade Hardware
- Failsafe and Redundant Systems



# Proposed Communications System

## Coverage Estimate







# Oak Bluffs Tower

Highway Site



**OAK BLUFFS**  
Vineyard Haven  
Park & Recreation Department  
347 County Rd, Vineyard Haven, MA 02568  
**140ft. SELF SUPPORT  
TOWER SIMULATION**  
**PYRAMID**  
Network Services, LLC



**Proposed  
Location**

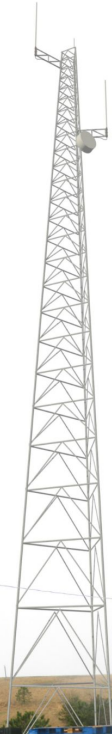


# Tower Specifications



OAK BLUFFS  
Vineyard Haven  
Park & Recreation Department  
347 County Rd, Vineyard Haven, MA 02568  
**140ft. SELF SUPPORT  
TOWER SIMULATION**  
**PYRAMID**  
Network Services, LLC

- 140 Foot Self Supported Lattice Type Tower
- Equipment Enclosure
- Fencing and Landscaping
- Exclusive use by Public Safety Agencies Only\*
- DC Power Plant
  - Generator
  - 6 Hour Battery Backup
- Creates Backhaul Loop



DCR Fire  
Tower





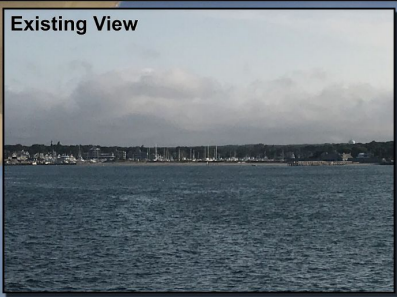
View from  
County Road  
Bike Path

**OAK BLUFFS**  
Vineyard Haven

Park & Recreation Department  
347 County Rd, Vineyard Haven, MA 02568

**140ft. SELF SUPPORT  
TOWER SIMULATION**

**PYRAMID**  
Network Services, LLC



**OAK BLUFFS**  
Vineyard Haven  
Park & Recreation Department  
347 County Rd, Vineyard Haven, MA 02568  
**140ft. SELF SUPPORT  
TOWER SIMULATION**  
View from onboard ferry  
approx. 2.51 miles north-northeast of site



**PYRAMID**  
Network Services, LLC

**View from  
Outer  
Oak Bluffs  
Harbor**



**View from  
Little Bridge  
Beach Road**

**OAK BLUFFS**

Vineyard Haven  
Park & Recreation Department  
347 County Rd, Vineyard Haven, MA 02568

**140ft. SELF SUPPORT  
TOWER SIMULATION**

View from Beach Road  
approx. 1.03 miles east-southeast of site





# View from Big Bridge Beach Road

## OAK BLUFFS

Vineyard Haven  
Park & Recreation Department  
347 County Rd. Vineyard Haven, MA 02568

## 140ft. SELF SUPPORT TOWER SIMULATION

View from Beach Road  
approximately 1.97 miles southeast of site





**OAK BLUFFS**

Vineyard Haven

Park & Recreation Department

347 County Rd, Vineyard Haven, MA 02568

**140ft. SELF SUPPORT  
NOT VISIBLE**

View from Trade Wind Airport  
approx. 2050ft. north-northeast of site



**OAK BLUFFS**

Vineyard Haven

Park & Recreation Department

347 County Rd, Vineyard Haven, MA 02568

**140ft. SELF SUPPORT  
TOWER NOT VISIBLE**

View from Puritan Drive  
approx. 1,815ft. southwest of site



# Questions?

Thank you for your support