EMERGENCY MANAGEMENT SUB-COMMITTEE BOARD OF FINANCE PRESENTATION April 22, 2015

- Sub-Committee Members
 - Craig Mansfield Emergency Management
 - Joe Szczech Emergency Management
 - Emmett Lyman Board of Selectmen
 - Robert Bennett Board of Finance
 - Bruce Dutch Board of Finance
 - Kevin Cavallo East Haddam Ambulance
 - Shawn Daigle East Haddam Fire Department
 - Ray Swol East Haddam Fire Department
 - Rich Toolan East Haddam Public Works

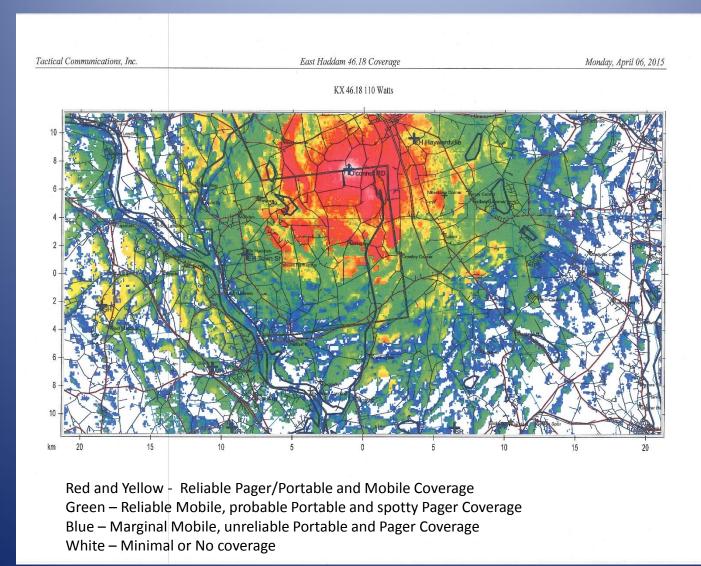
Project Timeline

- Project discussions began after the severe challenges faced during Hurricane Irene
- Committee began meeting in early 2012
- A review of surrounding town systems was completed
- April 2012 committee sent out an RFP for interested vendors to assist with project
- Three vendors were interviewed and Tactical Communications selected
- August 2014 provided BOS/BOF with update and anticipated cost of system

Issues with current system:

- Daily dispatch and communication issues with Fire and EMS calls not being received by responders – PUBLIC SAFETY ISSUE
- EXTREMELY limited communications between members, dispatch center when responding to calls – SAFETY ISSUE
- Difficulty with mutual aid with other towns because most have switched away from Low band (Band EH currently uses)

Current Radio System Coverage



- Initial RFP System requirements:
 - Designed to provide radio coverage and support interoperability between the following groups:
 - East Haddam Fire Department/Fire Police
 - East Haddam Ambulance
 - East Haddam Public Works
 - East Haddam Police
 - East Haddam Schools
 - East Haddam Emg Mgt/Town Government

- Initial RFP requirements (continued):
 - System design of 100% mobile coverage and 95% portable coverage throughout town
 - Provide coverage to Ambulance when transporting to local area hospitals
 - Provided interoperability with our surrounding towns for mutual aid
 - Connectivity to local dispatch center (KX)
 - Ability to partner with the State of CT Department of Public Safety

Initial findings

- East Haddam terrain makes any system design a challenge and we will ultimately need a multi-site system to meet coverage requirements in RFP (several sites in town looked at to get best coverage for least \$)
- Based on the initial RFP coverage requirements the system construction would be financially impossible for the town to support. (\$4-\$5 Million est.)
- Finding suitable frequencies to support the system would also be very difficult
- Project will need to be multi-phased over several years for town to support.

Revised Scope / Current Project Direction

- Committee agreed that meeting initial coverage requirements would be cost prohibitive.
- Continue to use low band system (EMS out of town/backup)
- Group hired a consultant to coordinate frequency licensing. (Town was licensed on 4 freq's at two sites)
- Work within 4 frequencies licensed to town, plus school frequency.
- Migrate from current system to a multi-site system over a three year time period.
- Provide interoperability with area mutual aid towns.

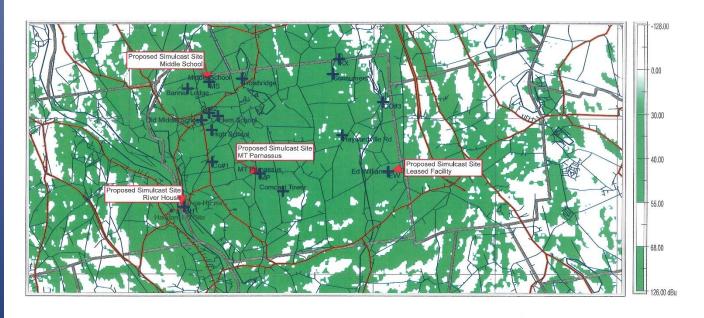
- Similar Area Systems and Cost
 - Guilford (49 Sq. miles) \$2.5 Million
 - Old Saybrook (15 Sq. miles) \$2.8 Million
 - Waterford (32 Sq. miles) \$7.5 Million
 - Groton (45 Sq. miles) \$1 Million
 (1 channel upgrade to existing system)
 - Clinton (19 Sq. miles) \$3.4 Million
 - New London (11 Sq. miles)- \$2.5 Million (add on to existing system)
 - East Haddam (57 Sq. Miles) \$2.1 Million Proposed

Tactical Communications

Town of East Haddam UHF Simulcast

Revised March 3, 2014

4-site simulcast. Talk-Out Predicted Coverage with Proposed Sites: RH, MP, MS, EW



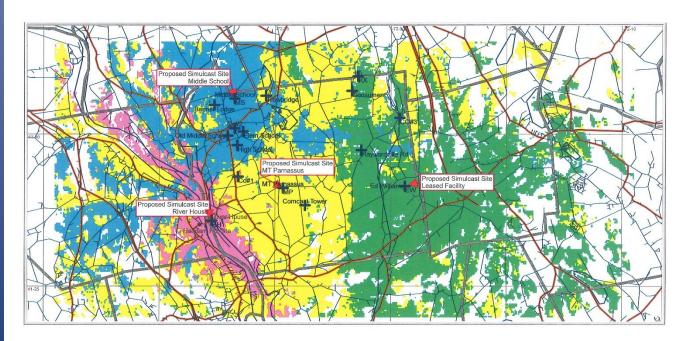
Mobile Service Area 30 dBu Minimum Threshold

Tactical Communications

Town of East Haddam UHF Simulcast

Revised March 3, 2014

4-site simulcast. Talk-Out Predicted Most Likely Server with Proposed Sites: RH, MP, MS, EW



Mobile Service Area 30 dBu Minimum Threshold

Map Scale: 1:148315 1" = 2.34 mi V|H Size: 11.06 x 23.58 mi

Preliminary

Current Status of Project

- Town has limited amount of time to get first two sites online based on FCC rules
 - (08/15 for two freq and 11/15 for two freq)
- Money is needed to purchase equipment for these two sites immediately.

Immediate needs (2015)

- Continue working with DPS to complete construction of Mt Parnassus Site and installation of all town purchased equipment. (MAJOR COST SAVINGS-estimate \$40K/year)
- Construct and bring River area site online
- Finalize System Design for additional sites (phase 2/3) using available resources where possible

- Long term (2016-2017)
 - This project will be multi-year/phased (total of 2-3 years)
 - Build out two additional sites to provide adequate coverage throughout town
 - Town needs to make a multi-year funding commitment to this project or project will not succeed

- Funding Currently Required:
 - River House Site cost \$80,000
 - Estimated MT Parnassus Site \$620,000
 - This includes equipment cost to link with two site
- Additional Funding Required:
 - Estimated \$700K for each of next 2 years in Capital Cost (total project cost estimated at \$2.1 Million
 - Ongoing maintenance, fiber/phone line cost (\$TBD / year) working to use in place infrastructure where ever possible to reduce ongoing cost

QUESTIONS?