VHF Paging Proposal

For Mecklenburg EMS & 1st Responders
Single VHF Pager Proposal

- Current MED-9 coverage issues in Meck Co.
  - Steele Creek
  - West Meck
  - Cornelius/Huntersville/Davidson
  - Pineville
UHF Radio Paging Configuration
(2 - Site Non-Simulcast System placed service – Original Equipment)

Secondary Site
(Paging tones for Pineville,
Steele Crk, West Meck & Carolina)
Single VHF Pager Proposal

- Technical Issues
  - UNCC site – 1980s technology, no longer supported after December 2007
  - Wachovia site – 1960’s technology, no longer supported
Single VHF Pager Proposal

- **Technical Issues**
  - Both Sites connected with leased telephone lines (additional monthly cost)
  - Paging outages require **TWO** vendors
    - City Radio Services
    - Phone company
Single VHF Pager Proposal

- Fire & EMS Incidents combined have increased 46% over the last 8 years!!!
  - 1999 – 71,000 incidents
  - 2006 – 103,700 incidents
  - 2007 – over 113,000 incidents!!!
Single VHF Pager Proposal

- Significant increase in county fire calls
  - Population and construction expansion
  - 56+ miles of interstate in VFD area, requiring multiple department response
Single VHF Pager Proposal

- All VFD & EMS calls dispatched (simulcast) on...
  - EMS-DISP
  - MCFD-DISP
  - VHF 156.165

- Assign all calls to OPS channel upon dispatch
  - EMS Calls assigned to EMS Channel
  - VFD calls assigned to MCFD-OPS channel
Single VHF Pager Proposal

- All 1st Responder departments utilize VHF Minitor pagers
  - Exceptions: North Meck & Matthews Rescue

- New VHF Simulcast paging infrastructure for VHF 156.165 is already in place

- Eliminates additional Minitor paging device for 15 1st responder departments
Single VHF Pager Proposal

- Program respective 1\textsuperscript{st} responder tones on applicable VFD Minitor V pagers
  - EMS Alert tone will differ from VFD alert tone
- MEDIC supplies VHF pagers for...
  - North Meck Rescue
  - Matthews Rescue
  - MEDIC Ambulances
  - Non-firefighter EMTs with a VFD
Single VHF Pager Proposal

- Assign all calls to OPS channel upon dispatch
  - Increase opportunity to capture accurate 1st responder times
  - Provide clearer channel for responders
  - Issue 1-5 additional MTS2000 portable radios to each VFD 1st responder
Single VHF Pager Proposal

- Alert tone and broadcast on OPS channel & VHF 156.165
  - Stage / Scene Secure
  - Upgrade / Downgrade Info
  - Cancellations

- Retone departments for...
  - Working Fires
  - Requests for specific apparatus
Single VHF Pager Proposal

- EMS-CONF and MCFD-CONF utilized for all routine communications with CMED

- Keeps dispatch channel clear for incident dispatch
Single VHF Pager Proposal

- VHF System Technical Advantages
  - New Motorola Quantar Transmitters
  - Reliable microwave link between sites
  - 4 Simulcast Transmitters

- Technical Disadvantages – NONE!
VHF Radio Paging Configuration
(4 - Site Simulcast System placed service - May 2005)

CMED Comm Center

North Tower
VHF 156.165

Tyvola Tower
VHF 156.165

Sugar Creek Tower
VHF 156.165

Matthews Tower
VHF 156.165
Single VHF Pager Proposal

VHF Paging Technical Problems???

ONE point of contact

Charlotte Radio Services
Single VHF Pager Proposal

Questions?

Comments?