KANAWHA COUNTY
POLICE | FIRE | EMS

Metro Emergency Operations Center
of Kanawha County

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Addendum #1

Re: **Metro Emergency Operations Center of Kanawha County Request for Proposals for Microwave Radio Communication System Design-Build Services**

Date: **8/3/17**

Proposal Due Date: **Proposals must be received on or before Tuesday, August 15 at 2:00 pm EST at Metro Emergency Operations Center of Kanawha County - Attention Jim Mangus 200 Peyton Way Charleston, WV 25309**

Addendum #1 is being issued to include the following edits and/or clarifications:

1. **There are 2 due dates for questions in the RFP. August 8 and August 10. Can you confirm which is correct?**
   Use August 10th.
2. **Can you provide the mailing address for the hardcopy submission delivery?**
   Metro Emergency Operations Center of Kanawha County
   200 Peyton Way
   Charleston, WV 25309-8627
3. **Is this a prevailing wage project?**
   Yes
4. **What is the requested capacity requirement? Based on the traffic mix, it looks like 50 Mbps will suffice, but just wanted to confirm. (Both paths are less than 6 miles. 11GHz will be used. The 10MHz or 30MHz profiles can be proposed. The 30MHz profile looks better if the utilization can meet FCC requirements.)**
   Capacity requirement should be at least 50 MBPS; expandable to 100 Mbps listed as an option (for ACM, or other BW need). Paths are under 6 miles (#1=<1000 feet / #2=<5.8 miles).
5. **Regarding power, one spot in the RFP said as much existing infrastructure, including power, will be reused. Another spot said power may be needed. Are we responsible for the power? Will you provide -48VDC Power Systems to support new Eclipse radios? Or, should we quote new -48VDC Power Systems to support Eclipse radios, assuming 8-hour reserve time, 24-hour recharge time? Please clarify.**
   Please quote -48VDC Power Systems with 8-hour of reserve time - 24-hours for recharge is acceptable. All three sites have commercial power available (120v AC).
6. **What is the path reliability objective for the required air-link capacity (50Mbps)? Is it annual one-way per-hop 99.9995% at RX threshold of BER=10^{-6}?**
   Path reliability = 99.9999% BER=10^{-6} (SIRN System = 15 seconds annual).

7. **Should we consider Adaptive Coding Modulation (ACM) or only Fixed Modulation profiles?**
   Fixed -- ACM listed as an option (100 Mbps).
8. **Since this is a turn-key project, and "Motorola R56 Installation" is required, we think new racks & breaker panels are required, and the optional 48VDC system (charger & battery) can be mounted in the same rack as Eclipse radio. Please confirm are new rack & breaker panels required?**
   Yes, new equipment racks w/48VDC system (same rack) and breaker panels are required.
9. **How many TDM T1s add/drop at each site? Less than 8T1?**
   Yes, less than 8 T1's. (2 T'1 for Garfield to Malden (ties into DAK's at southern master switch site); 3 Garfield to NWS (1 for NWS which may be for Ethernet) 2 Metro/(dso's at each SIRN site uses intraplex acs163 -- or compatible unit(s)).
10. **Several places in the RFP mentioned "compatibility" with existing system. Can you provide a little more detail on what part of the system we need to be compatible with? We know the state system is Aviat Eclipse radios. Were routers/switches (if any) provided by others?**
    The SIRN System has IRU 600s capable of 300 Mbps with Cisco ASR 1000s routers and Cisco 2960 switches for traffic routing. SIRN's intent is to divide the total bandwidth into thirds, 100 Mbps BW radio system & its support, 100 Mbps BW government data (example 911 center to 911 center), and commercial lease/sell up to 100 Mbps BW (reference: WV BTOP Grant). Routers and switches will be provided by the proposer.
11. **Are any of the sites with access issues? Restricted work hours?**
    Yes, the National Weather Service site has restricted access and hours 0700 -1500 (must have appointment(s) for scheduling, site access, etc.). The SIRN Lead Technician would want to know/ observe installation at Garfield, Metro / scheduling and gate access (CJIS controlled facility).
12. **Any information available on type of Tower structures (self-support/guyed/ monopoles/ rooftop building …) for antenna work.**
    Self-support.
13. **Is this a new system? Any decommissioning or traffic cutover involved?**
    This is a new system; no cutover is involved.
14. **Does proposer need to provide warehousing or can that be provided by the county?**
    Metro Emergency Operations Center of Kanawha County, 200 Peyton Way, Charleston, WV 25309-8627, will be used for equipment staging. Note: only straight trucks should be used for delivery – no full size tractor trailers (cannot turn around on the lot – long distance backing out)
15. **Do we need to obtain construction permits?**
    Yes – City of Charleston (permits should be free – governmental entity).
16. **Should we include a FIPS 140-2 security license?**
    No, SIRN uses AES 256 all links.
17. **Should we include a Synchronous Ethernet license?**
    No.
18. **Should we include the NEBS kit to make it NEBS-3 compliant?**
    Yes, it should be NEBS-3 compliant – related to answer for question #6 above.

The specifications of the original Request for Quotations dated 7/28/17 are to be included as a part of this Addendum #1.

Once quotations are unsealed, all documents become public record. Metro Emergency Operations Center reserves the right to reject any and/or all proposals and to waive any informality in bidding.