

Douglas County Board of Commissioners

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Purchasing Department

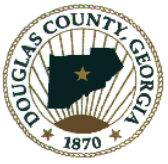
November 14, 2017

Re: 700/800 MHz Project – 25 Radio Network
Douglas County Board of Commissioners
Solicitation No. 17-037

Dear Ladies and Gentlemen,

This **Addendum No.1**, to Douglas County's Request for Proposal for 700/800 MHz Project – 25 Radio Network, is hereby issued to provide clarification to the Proposal in the following particulars only, and is made a part of the Proposal document.

1. To help facilitate the proposal development, will Douglas County provide responders with an electronic RFP in MS Word? **Yes, an electronic copy was provided to Harris and Motorola at the pre-bid conference on November 3, 2017.**
2. The specification does indicate where tower sites can potentially be made available if those site locations are appropriate in the proposer's discretion to achieve the required coverage and reliability objectives. Will the County provide the potential tower site availability referenced in Section 1.1? **Yes, an electronic copy was provided to Harris and Motorola at the pre-bid conference on November 3, 2017.**
3. The RFP states that all questions should be submitted to the County in Section 1.2.3 and states that all contact concerning the RFP should be directed to Tusa Consulting in Section 1.9. The Cover Letter to the RFP states that questions regarding the RFP should be delivered to : TUSA Consulting 75757 Highway 1082 Covington, Louisiana 70435. We assume that Douglas County would like all correspondence specific to the RFP copied to both the County Purchasing contact as well as to the Tusa Consulting contact. Additionally we assume that email correspondence is acceptable. To ensure adherence to the contact rules; will Douglas County please clarify the required point of contact for any questions specific to the RFP? **Bill Peacock, Director of Purchasing, Douglas County, GA.**
4. The Cover Letter to the RFP states a requirement for one (1) original unbound and five (5) bound copies. The RFP states the requirement as four (4) copies each of the Technical and Pricing Response and one (1) electronic searchable copy of each. Will the County please clarify the type and number of RFP submittals required? **One (1) Original Unbound, Five (5) Bound copies and one (1) electronic copy is required.**
5. The County considers training to be of paramount importance. User training and Dispatcher training shall be completed on-site. Dispatcher training shall be more extensive than user training and would involve all designated regular and relief dispatchers employed by the County at the time of network operational testing. Will the County please identify the total number of Dispatchers, Dispatch Supervisors as well as the total number of radio users



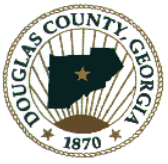
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by discipline (i.e. User Groups/Agencies) that require training? This additional detail will allow us to properly segment and customize training based on the equipment models/programming (i.e. Law, Fire, Public Service) as proposed. **911 Dispatch - 4 Supervisors, 30 Dispatcher Sheriff's Office - 3 Supervisors, 14 Dispatcher Fire/EMS - 15 Sheriff - 10 Deputies County - 10 Staff**

6. Training. Will the County require Instructor Led classroom sessions for all end users, or would the County prefer the option for Instructor Led Train-the-Trainer classroom sessions? **Trainer the User - Dispatch Train the Trainer - Sheriff, Fire/EMS, Non-Public Safety**
7. Section 16.3 states that "It is the intention of the County to use outside contract labor for maintaining its infrastructure equipment and subscriber equipment". Will the County consider removing the requirement for comprehensive maintenance training? If the County does require the technical maintenance training; please provide the number of individuals that will need to be trained. **This requirement will remain in the RFP but pricing will be listed as optional for one (1) person.**
8. For this RFP, proposers should utilize these existing talk group profiles, plus a 50% future growth factor, in the development of their proposed solution. Will the County provide system loading profiles for both the County's DMR and the City of Douglasville's P25 System including the following information?
 - Number of users per talkgroup
 - PPT per hour per user per talkgroup or just per talkgroup
 - Average length of call
 - Hang Time (transmission trunking which has no hang time or message trunking)**The proposers should base their loading studies on a minimum ten (10) physical channel radio system. The supplied talkgroups should justify the loading necessary with the 50% growth factor.**
9. What are the RFP requirements if any specific to providing 700/800 mutual aid tactical channels? If so, how many should the vendor provide? **The proposers should provide at least ten (10) 7/800MHz control stations that are capable of P25 trunking and analog conventional mutual aid for communication to state and local networks. The proposers should also provide at least five (5) VHF control stations that are capable of conventional analog for communication to the State Patrol in the area. The proposers can reuse the twelve (12) Motorola TRBO radios currently being used for primary communications for cutover or interoperable communications to Paulding County.**
10. Provide single-unit 120VAC rapid chargers capable of fully charging a discharged high capacity battery pack within a four-hour period. Provide optional single-unit 12VDC rapid chargers for vehicular operation. Quantities required are contained in RFP Section 16. Is the 4 hour charge time for portable radios a requirement for non-public safety radios? **Yes**

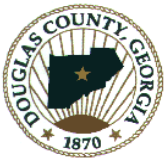


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11. Provision shall be provided for both local and remote control operation of the control station. Will Douglas County please define remote control operation? **Remote control operation is in reference to control stations or consolettes that can be operated from a console thru a network gateway or a remote control device such as a Motorola MCD5000 or Harris SP-721 deskset.**
12. The RFP includes several references to no less than 10 channels as a requirement. In Section 16.7 Pricing; the transmitter quantity required per site is noted as 10. Will the County confirm if the RFP channel requirement is for 10 physical channels or 10 talkpaths? **10 physical channels**
13. Several critical buildings listed in Appendix A are outside the County service area and the regulatory contours. Is the County's expectation that these buildings will be covered through the proposed County network? Will the County consider omitting these buildings from the required system in-building coverage? **Section 7.2 defines that critical buildings from Appendix located in the County will meet the 20db requirements. However, the County does have expectations to communicate in all buildings in the list. The proposer should describe how the County can communicate in buildings defined outside the County borders.**
14. The smallest flexible antenna available (i.e., quarter-wave) shall be identified and required for portable units. Should vendors utilize the loss identified in TSB-88 (15.4 dB) for the quarter-wave antenna loss at hip level for the proposed coverage design and guarantee? **The proposers should use the appropriate loss levels to achieve the stated coverage design requirements and guarantees.**
15. The City of Douglasville area requires an additional 20db of loss inserted into the system design parameters to facilitate radio communications within building structures throughout the City. Loss for this area will be measured as portable indoor talk-out/talk-back with the portable radio on the hip. Can County provide a polygon for the 20dB coverage area described in Sections 7.2 and 7.5? **The City of Douglasville requires the additional 20 db loss. The required boundary for the City of Douglasville is provided by the City as a SHP file for definition.**
16. Sections of the RFP separately specify LP/NG & diesel generators for new locations; does the County have a preference? **Diesel generators are the primary option with LP/NG priced as an option.**
17. Interior measurements of buildings shall be 10' H x 12' W x 30' L. Would the County consider variations to the interior measurements of the proposed equipment shelters? Cost effective communications shelters are available with standard 9' H x 11'8" W interior dimensions. Would these interior dimensions be acceptable to the County? **Yes**
18. Where appropriate will the County consider Mat and Pier foundations or a recommended alternate should the tower manufacturer's engineering recommend something other than a drilled pier foundation? **The County will go by the recommendation of the engineer of design.**

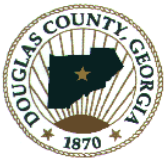


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19. A line item for the cost of verifying operation and providing preventative maintenance for the six (6) conventional 800MHz repeater sites shall be added to the maintenance costs. Will Douglas County please confirm that this is a requirement of the RFP. If so please provide a detailed description of the 6 conventional 800MHz repeater sites. **This is not a requirement of the Douglas County RFP.**
20. The price page reflects a quantity of 6 Backup Radios which are not included in the spreadsheet on page 223. Will Douglas County please clarify the desired quantity of control stations requested for the 911 center? **Each console position for 911 and Sheriff will require a backup radio that can be remotely controlled from the console position. The County does not desired to have a radio or control station located at the console position.**
21. High Tier Mobile 700/800Mhz, UHF and VHF (150-170) operation. Should all high tier radios be proposed as multi-band or as dual-band? **multiband**
22. Minimum configurations for SO and Fire/EMS require high tier mobiles and portables. However, the preliminary subscriber list allocates only mid and low tier quantities. Please clarify quantities for high tier and dual-control head radios? **Public Safety will require high tier subscribers and non-public safety requires mid or low tier subscribers.**
23. Cover letter requires one original unbound and 5 bound copies. RFP requests proposal response to be divided into two sections - 4 copies of the Technical Response and 4 copies of the infrastructure and User Equipment Price Response plus electronic searchable copies of both responses are to be submitted. Clarification of the number of copies and type required. **One (1) Original Unbound, Five (5) Bound copies and one (1) electronic copy is required.**
24. Please specify the number of service/support personnel requiring comprehensive maintenance training. **This requirement will remain in the RFP but pricing will be listed as optional for one (1) person.**
25. "All proposed backbone infrastructure components, inclusive of microwave equipment and repair parts shall be available for at least fifteen (15) years from the date of system acceptance" vs. "The Contractor must make available replacement parts for all Contractor-manufactured components of the P25 digital radio infrastructure for 10 years following acceptance." Question: Please clarify the required timeframe (10 yrs. vs. 15 yrs). **The required timeframe is 10 years following acceptance of the proposed radio network.**
26. Please clarify the requirement for interfacing to the current Motobridge or a future system at 911 for the GIN network. **Radios currently being used on GIN should have an integration path to be used on the consoles and network gateway devices for the proposed radio system.**
27. For the Douglasville Site #2 currently in development, please provide the proposed site plans. What heights will be available for the county LMR antennas? When does the City expect the site to be completed? **The location will be at: Coordinates: 33.7225 -84.647944, Shelter 12x18, 300' Self-support tower, 300' RX and 280' TX, 6' microwave dish at 120' with an estimated completion of December 2018. The proposers should provide the**

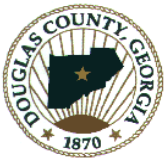


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- location that supports their coverage design that meets the RFP specifications.
28. Please clarify what the requirement is to support mobile data computing. GPS, OTAR, OTAP are examples of P25 technologies that would require the proposed network support of mobile data. Other types of mobile data for CAD, RMS, or other high bandwidth applications are not anticipated or expected at this time.
 29. Please provide the traffic study data for the Grade-of-Service calculations, or clarify that a minimum of 10 channels are required and sufficient. The proposers should base their loading studies on a minimum ten (10) physical channel radio system. The supplied talkgroups should justify the loading necessary with the 50% growth factor.
 30. Will voice dispatching and backup tone alerting occur on a single or multiple talk groups? Is the plan at each station to integrate with an existing 70V PA system? Yes
 31. Please define where 20dB coverage is required and include an electronic boundary map if available. 20db coverage as defined in Section 7.2 will be required for the City of Douglasville and critical buildings listed in Douglas County. The required boundary for the City of Douglasville is provided by the City as a SHP file for definition.
 32. Please define where 10dB coverage is required and include an electronic boundary map if available. 10db coverage is defined in Section 7.2 is the remaining Douglas County outside the Douglasville city limits.
 33. Please provide the following information used in the Consultant's coverage design: site coordinates, site balance in dB, LMR antenna type, azimuth and height (TX and RX), and transmit ERP at the horizon. Was the design run at 3.5ft for both talk-out and talk-back directions? The site data is provide for reference only. The proposers are required to select the sites necessary to meet the coverage design requirements and guarantees.
 34. The specified test tile sizes result in more than 5000 accessible test tiles throughout the county and more than 1800 accessible test tiles in Douglasville. Subjective DAQ testing in 6800+ test tiles may be time and cost prohibitive. Is it acceptable to use larger tile sizes, as long as the minimum total accessible tile count is 1900? No, use the specified tile size in the RFP.
 35. Contractor shall provide for all labor and parts necessary for maintenance and repair, including preventative maintenance, of the network and equipment provided. Question: Please clarify if proposers should include the price for subscriber radio preventive maintenance to comply with this section. Yes, the price for subscriber preventative maintenance should be provided to comply.
 36. RFP: ...the six (6) conventional 800MHz repeater sites shall be added to the maintenance costs. Please provide frequency information for the six (6) conventional 800MHz repeater sites along with their location, make, model and vintage. This is not a requirement of the Douglas County RFP.

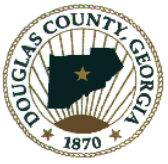


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37. The RFP states: the following three (3) models for consideration by the County. Only 2 models were given. Please clarify. **The two models stated are required. The proposers are encouraged to provide other models for the County to consider.**
38. Please confirm these are duplicate critical buildings:
52-Wellstar Douglas-33.73907 -84.7316
69-Wellstar Douglas Hospital-33.73907 -84.7316
Yes, this is a duplicate.
39. The text says to upgrade 11 fire stations, though the critical building list has 12 locations. Please clarify which fire stations/locations will get the FSAS.
Stations 1-8, 10, & 11
40. Please provide the floor plans for all fire stations/locations getting the FSAS.
Floor plans are provided in the electronic information for the question for Stations 1-8, 10, & 11.
41. Based on the following requirement: "Potential for enhanced ability to handle voice, data, and imagery communications," please define what the County requires in the form of imagery communications through the fire station alerting system. **The proposers should identify the capabilities and what can be interfaced to with the proposed solution.**
42. How many existing dry contact and other auxiliary controlled devices with the fire station alerting system connect with in each fire station? Please define the device types. **A minimum of four (4) should be required in the specifications. It is unknown what these will interface to at this time. The typical interfaces would be the doors, stove, PA system if it cannot be done by any other means, lights, or any other type of devices that could be turned off or on.**
43. How many ancillary data or display equipment will the fire station alerting system connect with in each fire station? Please define the equipment types. Is this existing equipment or new equipment required as part of the proposed fire station alerting system? **The proposers should identify the capabilities and what can be interfaced to with the proposed solution.**
44. How many zones are required in each fire station? **Three (3) zones in each station would be identified as the (1) apparatus bays, (2) bunk area, and (3) kitchen and common area.**
45. Based on the following requirement, "Control of secondary devices" please identify the device types and quantities in each fire station. **The proposers should identify the capabilities and what can be interfaced to with the proposed solution.**
46. Is the vendor to supply and install station PA systems at the 11 stations or do they already exist? If the vendor is to supply the PA systems, could you please provide drawings for each of the 11 fire stations showing the required quantity and location of both the indoor and outdoor speakers so that the PA system can be properly sized? **The proposers should provide a new PA system with speaker systems that support the three zones identified. The Fire Station layouts are provided in this addenda.**

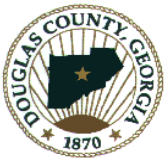


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47. Is the vendor to supply and install the indoor and outdoor speakers? If so, could you please provide the drawings for each of the 11 fire stations showing the required quantity and location of both the indoor and outdoor speakers? **The proposers should provide a new PA system with speaker systems that support the three zones identified. The Fire Station layouts are provided in this addenda.**
48. How many Fire Dispatch Operators are required to simultaneously dispatch fire calls? **All proposed radio consoles should be capable. The current dispatch configuration allows for at least four (4) operators and one (1) supervisor.**
49. Is pricing for Dormitory alerting (visual and audible) to be included as part of the Fire Alerting System? If so, could you please provide drawings for each of the 11 fire stations that show the number of dorm rooms (a.k.a. bunkrooms) that will require the visual and audible alerting? **The Fire Station layouts are provided in this addenda. The proposer should provide a solution that supports all the bunks.**
50. We request the make, model, and software version of the VOIP phone switch and phones. **Sheriff Phone System - Cisco call manager v 8.6 phone with handset models 7975, 7945 and 6921. 911/EOC Phone System - Allworx 9224 V2.7.19.1 DSP V2026 with handset models 9224P and 9212P.**
51. Which surrounding agencies are required because of the priority to Douglas County? **The surrounding Public Safety agencies in the surround Counties and the three (3) different State Patrol districts.**
52. Per the Douglas County coverage prediction maps published within its Consultant's needs analysis ("Douglas County Conceptual Report Draft 090417"), RF performance within densely constructed buildings (20dB) and buildings constructed in a much lighter manner (10dB) will be very similar throughout Douglas County and can be accomplished with seven RF sites. Are both maps based on 95% county wide reliability and 1/4wave antennas? Will Douglas County be willing to share the design parameters which led its Consultant to the seven site design? **The site data is provide for reference only. The proposers are required to select the sites necessary to meet the coverage design requirements and guarantees.**
53. What manufacturer does the County use for wireless headsets in the fire trucks and EMS apparatus? **The County would like the proposers to consider the following headsets for their response. David Clark U9922-G38 Configuration w/4 Headsets and installation for 20 appartus.**
54. 1. On Section 5.6 Fixed Station Equipment Microwave Requirements Point J. is stated: "Proposed microwave antennas, radomes, and antenna mounts must maintain reliable operations during sustained storm force winds of up to 120 mph and shall be appropriately protected from falling ice." Is the 120 mph is considered the Operational Windspeed or the Survival Windspeed of the antenna? **Operational**
55. NOTE: Consulting Firm, Tusa Consulting Services, will be sending an invite out to all vendors for the dropbox on the FTP site.



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Thank you for your attention to this Addendum No.1, and interest in Douglas County. Please acknowledge receipt of this addendum via, return fax, at 770.920.7219 and include this addendum and your acknowledgement in your bid/proposal package, not to be counted as a part of any page limit.

All other terms and conditions of the Proposal remain the same.

Sincerely,

Bill C. Peacock

Director, Purchasing

ACKNOWLEDGEMENT

COMPANY: _____

SIGNATURE: _____

TITLE: _____ DATE: _____

We acknowledge receipt of your Addendum No. 1, Solicitation No 17-037.