

L.A Miller

From: Dale Iman [diman@ci.winchester.va.us]
Sent: Wednesday, September 11, 2013 1:55 PM
To: 'L.A Miller'
Subject: FW: Radio Communications Project
Attachments: Negotiations Update Revised 5.16.2012.doc

Lynn:

See attached. It answers allot of questions. Was this information presented to Council and if so when?

Thank you,

Dale Iman
City Manager

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From: Dale Iman [mailto:diman@ci.winchester.va.us]
Sent: Wednesday, May 16, 2012 3:17 PM
To: 'Jeff Buettner' (tdiva@ntelos.net)
Subject: Radio Communications Project

President Buettner:

Attached please find a summary of the issues discussed during recent negotiations with Motorola regarding the Emergency Communications Project. Please pay particular attention to the addendum that was added earlier today based on the most recent information available. This issue is not scheduled for the work session agenda on May 22nd and our next regularly scheduled work session is not until June 19th. In order to keep this project moving forward in timely fashion I am suggesting that a briefing on these issues be included on the work session agenda which we are proposing to schedule to initiate to Millwood vacation process. That proposed meeting date has yet to be determined but we should have a recommendation by the end of the week.

After reviewing this summary please let me know if you would like me to send it to the other Councilors.

Thanks,

Dale

From: L.A Miller [mailto:lmiller@ci.winchester.va.us]
Sent: Wednesday, May 16, 2012 1:40 PM
To: Dale Iman
Cc: Erin Elrod; Scott Kensinger; Steve Corbit
Subject: Radio Communications Project

Dale,

Attached for review and comment is the "Communications Project Negotiations Summary" I previously forwarded to you. During the previous week I have made some modifications to the document and added an Addendum as of this

morning based on several conversations I have had with Shag Kiefer. I hope this provides additional information relating to the proposed tower and provides a status report on the subscriber units.

Let me know what additional information I can provide. Lynn

COMMUNICATIONS PROJECT NEGOTIATIONS SUMMARY

BACKGROUND: As authorized by Council during the work session of April 24, 2012 a preliminary negotiation session was scheduled with representatives of Motorola Solutions. Participants included staff members, representatives of Motorola Solutions and Shag Kiefer, representing L. R. Kimball, the city's project consultant. The meeting was conducted on Thursday May 3, 2012.

POINTS OF DISCUSSION: Discussion points included technical issues as well as administrative activities that will be necessary to finalize the pre-procurement stage of the project. The following is an overview of the discussion.

- Recording System (NICE) – the status of the existing recording system was discussed with a representative of NICE to determine what specific upgrades and training would be necessary.
- GPS - The operation and the proposed GPS system was discussed in detail. This involved the automated and non-automated operations of the system. Discussions also involved the necessary subscriber (mobile & portable) models that would be required to implement the GPS system. The Computer Assist Dispatch (CAD) system was discussed in relationship to necessary upgrades that would be necessary to interface with the GPS system.
- Subscriber Units – subscriber units (mobile and portable) were discussed regarding installation and utilization. It will be necessary that some units be installed as a dash mount while other units will have a remote installation. Total numbers of subscriber units had been previously identified. We are now at a point where the total numbers must be coordinated with the specific units. Staff will be following through with acquiring this data.
- Control Stations – the total number of control stations was reviewed and discussed in relationship to how these installations may be reduced while remaining operationally effective.
- Accessory equipment relating to subscriber units was identified. Staff will undertake an in-house process to finalize accessory equipment and cost.
- Training – training as specified in the response will be reviewed and that necessary to implement and operate the system retained. That which is not necessary may be eliminated.
- Extended Warranty – warranty for years 2-5 will be reviewed as provided in the proposal. Warranty may be altered depending on need and cost.
- Motorola Agreement – a draft of Motorola's standard agreement was requested to permit review by Anthony Williams and Steve Corbit.

RADIO TOWER: A great deal of discussion took place relating to the location and construction of the tower. The proposed location of the tower is Jefferson Street at the site of the elevated tank. The proposal to meet the operational criteria as specified in the RFP requires a 250' tower. The 250' structure self supported tower will require illumination as required by Federal Aviation Administration regulations. Additionally the construction of the tower will require a Conditional Use Permit (CUP) as prescribed within the city's Zoning Ordinance. Through the discussions it was determined that alternatives should be considered to reduce the impact of the tower while maintaining the operational functionality of the proposed system. The following are considerations relating to the tower:

- Construct the 250' tower as identified in the proposal utilizing one of the following options:
 - Option 1-Utilize third party vendor to eliminate the capital cost of the tower construction while providing tower space for the city public safety and available space for commercial antennas. Not city owned.
 - Option 2 –Permit Motorola to utilize subcontractor to construct tower to support public safety operations without commercial utilization. City owned.
- Consider construction of 199' tower. Motorola has been requested to conduct propagation studies to confirm if the 199' tower will meet the operational specifications of the proposal. The 199' tower may will eliminate the FAA requirement for illumination. Discussions will be

required relating to city construction and ownership of the tower or if a third party would have interest.

- Consider replacing the tower located at the Timbrook Public Safety Center with a tower of greater height and placement of antenna systems on top of elevated water tank on Jefferson Street. Line of sight for the microwave will need to be determined as well as tower construction and ownership. This will also require engineering services relating to the elevated water tower. This will reduce the radio coverage performance requirement to less than that specified in the RFP.
- Utilize elevated water tower for installation of antenna systems. Eliminate the micro wave point to point connectivity and require the installation of T1 lines for connectivity as well as engineering services. System reliability is reduced to the reliability of the carrier's T1 lines.

Aaron Grisdale, Interim Zoning Administrator has been requested to review and provide a written interpretation of the zoning ordinance and requirements for the construction of the radio tower. Further research will be conducted with regard to the land parcel at the Jefferson Street site.

PROPOSAL TIMELINE: The proposal submitted by Motorola Solutions was valid through June 15, 2012. Representatives of Motorola Solutions indicated that as negotiations were in progress the proposal date could be extended for at least 30 days.

SUMMARY: Staff is of the opinion that the proposed system meets the operational criteria as specified in the RFP and will meet the current and future requirements for radio communications. It is incumbent of staff to pursue all avenues to assure the system will be operational functional and fiscally responsible. Staff will be compiling additional data required by Motorola Solutions and continuing the negotiation process. Information associated with project will be continuously shared with Council.

ADDENDUM – May 16, 2012

Subsequent to our conversation of last week I have had several conversations with Shag Keifer, lead design consultant with L. R. Kimball and Associates relating to the communications project. The conversations have involved several items one of which concerns the Tower location and installation. Shag has conducted additional background research which basically results in the following questions that will need to be addressed.

- *The location of the tower has been predicated based on ownership of the property, existing antenna locations and coverage. It became evident that the installation of a tower would be subject to compliance with Federal Aviation Administration (FAA) regulations and that a 250' would most likely require illumination due to the proximity of the tower to the airport. However, we must be aware that the FAA will make the final decision as to whether or not a tower may be erected on this site and what visual devices will or will not be required on the tower. As previously indicated we are working in a cooperative effort with Motorola investigating the potential of a 199' tower to determine if the lower tower will meet the technical specifications as prescribed in the RFP. It was/is presumed that the 199' tower would not require illumination. However, this determination will be that of the FAA and a presumption that illumination will not be required is not an absolute. Prior to the FAA approving the erection of a tower it may be necessary to conduct an aeronautical survey that would be reviewed by the FAA. Should an aeronautical survey be required the responsibility for such would be the responsibility of the City if the City is to construct and have ownership of the tower or of the third party vendor as negotiated if they are to construct and have ownership of the tower.*
- *In order to construct the tower it has been determined by the Interim Zoning Administrator, Aaron Grisdale that a Conditional Use Permit (CUP) will be required. Aaron has determined*

that a setback requirement is not required as the location is not within a residential district. However, he recommends a maximum setback be identified in order to alleviate concerns.

- *The project is currently at a point where a decision is necessary with regard to who will construct the tower and under what provisions. Would City Council prefer a third party vendor construct and have ownership of the tower or would the preference be to have Motorola construct the tower and the City assume ownership? In either case negotiations with one or both of the parties is necessary prior to moving forward with the tower. In order to maintain transparency of the project Council is requested to consider which option is preferred and authorize negotiations to begin relating to the tower site and construction. The negotiations will involve tower specification, permitting, FAA regulations and responsibility for such and a determination of cost effectiveness for the City. As the tower is a vital portion of the overall project it is necessary that Council understand and support the CUP as required by the Zoning Ordinance as well as the utilization of the land involved with the project.*
- *The members of the Communication's Negotiations Committee have scheduled meetings with each of the departments involved with the project to review the subscriber units (mobile & portable) that will be necessary to meet the individual department needs. Scheduling indicates this will be completed on the 24th of May.*

The project is very complex in nature and has a large number of moving parts which must come together to create a system. Due diligence on behalf of the stakeholders is an absolute necessity to insure the system will meet the needs of the community and users and is comprehensive and cost effective.