

INVITATION FOR BID (IFB)
Netclock/Master Clock Installation

January 5, 2011

General

Lancaster County is seeking bids for installation of a netclock or master clock for synchronization of its current CAD system (Computer Aided Dispatch) and voice recorder. The current CAD system which is used to generate calls for service including fire, rescue and police is a DaPro software program. The netclock must be compatible with current voice recorder requirements. The equipment must be of quality and design to properly serve a full service 911 center in a 24/7 environment.

Bids must be received at the Office of the Lancaster County Administrator no later than **4:00 PM on Friday, February 3, 2012**. An acceptable bid must include properly completed documents attached as **Appendices A, B, and C**. Any questions regarding this Invitation for Bids should be directed to:

Sergeant Jeffrey Haywood
Lancaster County Sheriff's Office
8293 Mary Ball Road
Lancaster, VA 22503
Phone: 804-462-5111
Fax: 804-462-7046
E-Mail: haywood@lancastersheriff.net

Bids submitted in response to this solicitation will be opened in the Office of the County Administrator at 4:00 PM on Friday, February 3, 2012. Interested parties are welcome to observe the opening but a decision will not be made nor opinion offered until final review by the Lancaster County Sheriff and Board of Supervisors.

Lancaster County reserves the right to reject any or all bids and waive any formalities.

Scope of Work

The Lancaster County Sheriff's Office is a fully staffed Communications Center serving The County of Lancaster. The Communications Center answers emergency and administrative calls for The County of Lancaster. The center also dispatches calls for fire, rescue and police in the county. The facility is staffed by 3 civilian communication officers and by 10 sworn correctional officers that are trained for dispatch as well. We currently have 2 dispatch stations that are equipped with CAD, radio dispatch, and Virginia Crime Information Network (VCIN) and 911 telephone capabilities. One station is equipped with CAD and 911 telephone capabilities. The server supplying the CAD uses DAPRO software for recording emergency calls and tracking of responding units. The current 911 voice recorder is a RACAL 36 channel analog recorder. The recorder digitally records all radio and telephone traffic in the communications center. This recorder will be replaced within the next six months with an upgraded system that includes a 64 channel digital recorder, make yet to be determined. The Netclock will synchronize the times for both the CAD system and the voice recorder.

The bidder will provide and install one Netclock/GPS Master Clock. The bidder will also provide a power supply, GPS antenna and associated mounting hardware including necessary cabling. An Uninterruptible Power Supply (UPS) will be provided in the event of a power failure. The bidder will install the equipment into the rack system currently at the Sheriff's Office.

SPECIFICATIONS

Communication Centers pose unique challenges and demands. The documentation of specific emergencies and the time frames in which they happen are critical to court cases. The bidder will provide non-proprietary head end equipment for synchronizing the existing CAD (Computer Aided Dispatch) and the 911 voice recorder. The bidder will certify all equipment to be synchronized with the clock so that it will perform the expected duties after installation.

Any deviation from the specification requirements outlined below MUST be submitted in writing. A "Scope of Deviations" statement is to be provided with the proposal that references the specification number along with a detailed explanation of the bidder's lack of compliance, partial compliance, or alternative method used. The absence of a "Scope of Deviations" statement will hold the proposing bidder strictly accountable to the specifications as written herein and may cause the bid to be rejected as non-responsive.

Required: Netclock/GPS Master Clock

- 1) The bidder will provide a clock that distributes consistently accurate and legally traceable time for 911 call centers, computer systems, wall clocks, voice recorders, radio consoles, phone systems, etc. System

- time is derived from GPS satellites. The Netclock/GPS must meet NENA PSAP Master Clock Standards and NFPA Communication Center standards.
- 2) The clock will automatically adjust for local time, Daylight Saving Time and Year.
 - 3) The clock must be accurate to within 500 nanoseconds of UTC anywhere on earth
 - 4) The clock must provide scaleable expansion capability.
 - 5) The bidder must provide a five year warranty and CE certification of the clock.
 - 6) The clock should be able to provide a variety of time code outputs to meet the requirements of numerous systems. A minimum of two (2) RS-232 serial ports, two RS-485 data bus ports, IRIG B/E and TTL, plus frequency outputs of 10MHz and one PPS. Alarm outputs and programmable timer outputs should be provided.
 - 7) The NetClock/GPS Master Clock system will include a UL-approved power supply, GPS antenna and associated mounting hardware. The bidder will provide the adequate cabling and installation of the clock system.
 - 8) The clock will be mounted into a rack system and the bidder will provide an Uninterruptible Power Supply (UPS) so that if incoming building power is interrupted, the equipment the bidder is providing will not lose power.

OTHER REQUIREMENTS

Experience. List other agencies with which you have worked that are the same size and scope of this agency and describe any implementation issues and limitations that occurred.

Demonstrations. After the bid is accepted and equipment is installed, a demonstration will be required with the date and time approved by the agency supervisors.

Product Ratings. The respondent must provide independent third party evaluations of the proposed NetClock. Provide recent, comparative, independent ratings/evaluations of the NetClock from the manufacturer with respect to performance, reliability, service, etc. The County seeks quality products from industry leaders.

References. Respondents must supply three references from similar size installations.

Performance Bond. A performance bond of at least \$5,000 will be provided as part of the bid package.____