

North Carolina Turnpike Authority

**Request for Expressions of Interest for Product
Demonstration (RFEIPD) of Toll Collection and
Vehicle Identification Technology**

RELEASED FEBRUARY 21, 2012

INTRODUCTION

The North Carolina Turnpike Authority (“NCTA” or the “Authority”), in conjunction with the Alliance for Toll Interoperability (ATI) is requesting Expressions of Interest for Product Demonstration (RFEIPD) from suppliers to demonstrate their toll collection, license plate image capture and video billing/violation enforcement technology in a non-competitive environment. The purpose of this request, due to ever-improving technologies, is to determine advances in toll collection technology. This request offers respondents the opportunity to showcase the applicability of a respondent’s proposed technology for use on a toll facility as a means to collect revenue. This demonstration will provide an avenue to showcase advances in video imaging, Radio Frequency Identification (RFID), Global Positioning System (GPS) and other toll collection technologies. Vendors may submit a request to demonstrate any type of technology they deem relevant to the collection of tolls at highway speeds. While there is not a limit to the number of technologies a vendor can request to demonstrate, due to time constraints and the test facility schedule, NCTA may only approve some technologies. NCTA anticipates that additional demonstration dates may need to be added to accommodate all responses. An addendum with an updated schedule will be released after responses to this RFEIPD are received.

After review of the RFEIPD submissions, NCTA will determine which respondent firms will be invited for an opportunity to participate in a controlled demonstration. It is expected that respondents will collect data during their demonstration and share the results with NCTA. Additionally, those results will be shared with member agencies of the Alliance for Toll Interoperability (ATI), a membership organization of over 40 North American toll operators promoting toll interoperability. This process will be governed in accordance with the Assembly N.C. Gen. Stat. §132 Public Records.

This RFEIPD is not intended to, and does not constitute a, solicitation of offers, proposals or qualifications. The NCTA, within its sole discretion, may extend invitations to respondents to this RFEIPD to discuss their technology prior to a demonstration as the Authority deems appropriate.

NCTA has developed specifications and requirements for its toll collection management system for the State of North Carolina and has awarded the Roadside Toll Collection System (RTCS) contract to ACS, a Xerox Company, for the Triangle Expressway project. NCTA does not anticipate entering into a binding commitment based upon responses to this RFEIPD.

GENERAL INFORMATION

NCTA

NCTA was created by the North Carolina General Assembly in 2002. The mission of NCTA is to implement innovative and new approaches to financing transportation improvements to address critical transportation needs of the state during a time of rapid growth, dwindling resources and increasing costs. At present NCTA is in various project phases of six candidate toll road projects, including the Triangle Expressway, which is currently scheduled to open its first section in December 2011. More information regarding NCTA and NCTA projects can be found on NCTA's website <http://ncdot.gov/turnpike/>.

Alliance for Toll Interoperability

The Alliance for Toll Interoperability (ATI) is a membership organization comprised of more than 40 North American toll operators who are working towards the goal of national toll interoperability. Additionally, ATI works closely with other trade organizations to accomplish the same goal. These organizations include Intelligent Transportation Society of America (ITSA), E-ZPass Group, American Association of Motor Vehicle Administrators (AAMVA), International Bridge Tunnel and Turnpike Association (IBTTA), I-95 Corridor Coalition, etc. Additional information regarding ATI can be found at www.tollinterop.org.

Services Being Solicited: Demonstration of Technology

NCTA is soliciting expressions of interest from suppliers of license plate image capture, RFID, GPS and other toll collection related equipment for demonstrating their technology, in a non-competitive environment, in order to show its applicability for use on a toll facility as a means to collect revenue. The purpose of this request, due to ever improving technology, is to determine advances in toll collection technology and its possible use on the NCTA toll facilities.

RESPONSES OF THE RFEIPD

Written Expressions of Interest to this RFEIPD must be received by 4:00 p.m. ET on Monday, March 5, 2012 at the address listed below.

Expressions of Interest should include a brief description of products and technologies and associated cut sheets, along with information on unusual or unique features that the respondent feels would be of interest to NCTA.

North Carolina Turnpike Authority

Request for Expressions of Interest for Product Demonstration

February 21, 2012

In general, items of interest to the NCTA include but are not limited to technology performance data pertaining to multilane and single lane environments, tag variation, radio frequency read rate, radio frequency baud rate, radio frequency distance, radio frequency accuracy, radio frequency security, read/write capability, camera resolution, illumination requirements for image capture, in-lane triggering requirements, in-camera Optical Character Recognition (OCR) processing and memory, generated file sizes, processing speed of the backend OCR, GPS accuracy, etc. NCTA would also like the vendors to provide tag counts and not just a read/no read report. NCTA would also request the vendor to describe issues with cross lane reads and potential solutions.

It is anticipated that NCTA will contact interested respondents by Wednesday, March 14, 2012 to discuss their technologies which would be followed by a controlled demonstration. Vendors will be provided two days for set up, break down and testing. It is requested that respondents select their top three preferences for the demonstration date and time provided in the demonstration schedule below. Based on the responses, a primary date and time will be assigned by NCTA. Should adverse weather impact the demonstration, another date/time will be negotiated with the contractor and NCTA.

NCTA reserves all rights to consider or reject any and all responses to this RFEIPD, to amend and/or reissue this request and to abandon and then recommence at any time, or not recommence, the process of considering technical solutions for license plate image capture and OCR, RFID, and GPS. All responses and efforts of any respondent are solely at respondent's expense and NCTA shall not be liable for payment of any such costs.

SUBMITTAL INFORMATION

Responses should be submitted to:

Mailing Address:

Mr. Korey Barrette
North Carolina Turnpike Authority
1578 Mail Service Center
Raleigh, North Carolina 27699-1578

Physical Address:

Mr. Korey Barrette
North Carolina Turnpike Authority
1 South Wilmington Street, 6th Floor
Raleigh, North Carolina 27601

All inquiries related to the RFEIPD should be referred to Korey Barrette in writing to korey.barrette@ncdot.gov.

DEMONSTRATION SCHEDULE

Week 1:

1st Demo Slot: Monday, April 2, 2012, 8:00 a.m. to Tuesday, April 3, 2012, 5:00 p.m.

2nd Demo Slot: Wednesday, April 4, 2012, 8:00 a.m. to Thursday, April 5, 2012, 5:00 p.m.

Week 2:

3rd Demo Slot: Monday, April 23, 2012, 8:00 a.m. to Tuesday, April 24, 2012, 5:00 p.m.

4th Demo Slot: Wednesday, April 25, 2012, 8:00 a.m. to Thursday, April 26, 2012, 5:00 p.m.

If additional testing slots are required, additional testing dates will be established after responses to this RFEIPD are received.

Presentations

Once demonstrations are completed, it is expected that vendors will be provided an opportunity to present to NCTA on their specific technology, firm's, or business approach to their chosen technology. Details on the presentations will be identified at a later date once the number of responses has been identified.

Demonstration Information

Description of Product Demonstration

NCTA acknowledges that Product Demonstrations will be under circumstances that are not exactly like the tolling environment in which the equipment would eventually be placed.

It is anticipated that the demonstration of each product will be conducted over not more than two days, including set-up, testing and take-down. Each vendor should provide a 30-60 minute product(s) debrief at the beginning of the demonstration at the test track. Additional time will be required for post-demonstration meetings at NCTA headquarters to view the results of the product demonstration. These meetings will be scheduled following the completion of all product demonstrations. The product demonstration will be monitored by NCTA, NCTA consultants, ATI members, and/or their consultants. All demonstrations will be open and demonstrations and industry representatives are encouraged to attend. Observers of the demonstration will be allowed to ask reasonable questions of the system and offer limited challenges to the system and methods used during demonstration.

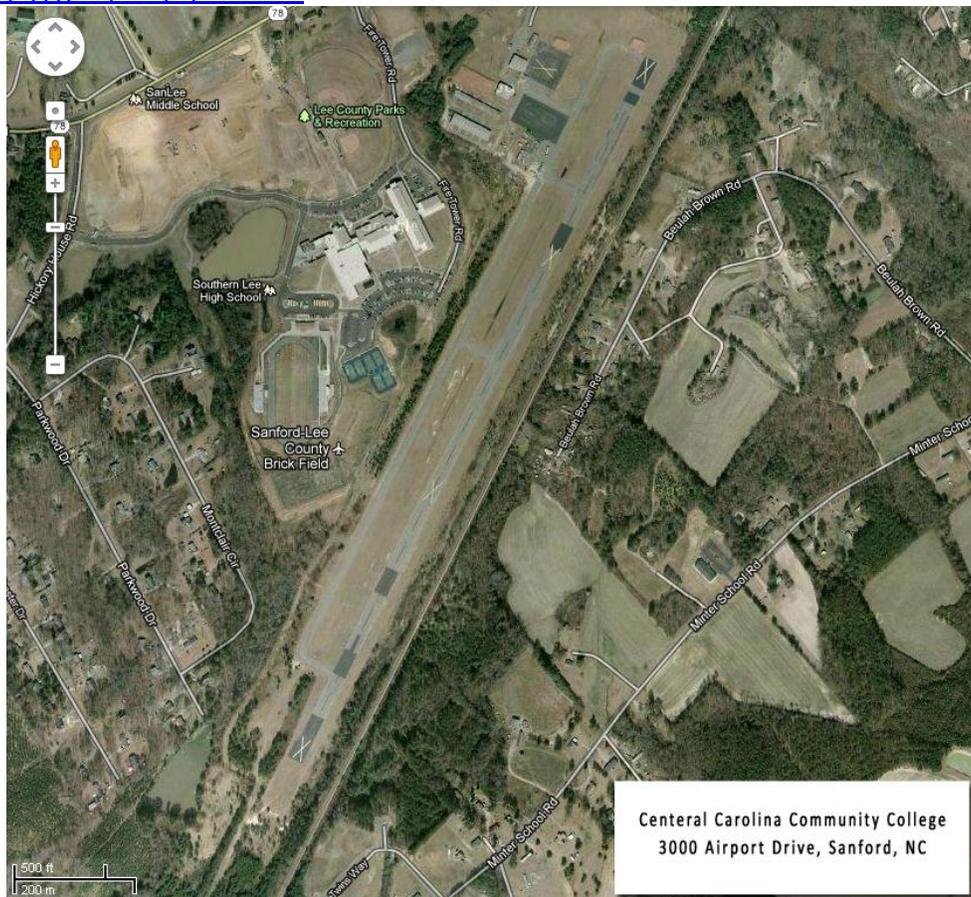
NCTA intends to video tape all demonstrations for the purpose of sharing knowledge gained with other agencies and requesting parties. Vendors will be provided the opportunity to preview video-taped data prior to its release.

In general, items of interest to the NCTA include but are not limited to technology performance data pertaining to multilane and single lane environments, tag variation, radio frequency speed, radio frequency distance, radio frequency accuracy, radio frequency security, read/write capability, camera resolution, illumination requirements for image capture, in-lane triggering requirements, in-camera Optical Character Recognition (OCR) processing and memory, generated file sizes, processing speed of the backend OCR, GPS accuracy, etc. NCTA would also like the vendors to provide tag counts and not just a read/no read report. NCTA would also request the vendor to describe issues with cross lane reads and potential solutions.

Demonstration Site

The demonstration is anticipated to be held at the Central Carolina Community College Emergency Services Training Center at 3000 Airport Road, Sanford, North Carolina.

The demonstration track is 8/10 of a mile long and over 40 feet wide. Attached below is a Google maps picture of the site. Here is a web link to the site; <http://g.co/maps/m9am9>.



Portable Gantry and Equipment Mounting

Equipment will be mounted on a temporary gantry structure that is 40 feet in length and 18 feet high. The gantry will consist of two heavy duty lifts, five sections of 2 inch diameter aluminum tubing, 16 inches by 16 inches by 8.2 feet in length and two lift to truss adapters. The temporary gantry is set up on lifts which will allow the gantry to be lowered for equipment placement. Vendors will be expected to provide all tools and mounting equipment necessary to attach equipment to the gantry.



Data Collection

Each vendor shall be responsible for collection of data collected in the lane during the demonstration. Vendors should come prepared with computer and necessary connections and/or servers to collect data during the demonstration.

Additionally, it is the vendors' responsibility to provide all equipment, i.e. readers, transponders, etc. to be mounted on the gantry and in the vehicle.

In-lane image triggering devices are not available for this demonstration so each product demonstrator will have to rely on an alternative method for triggering image capture. Vendors are encouraged to provide non-evasive triggering mechanisms.

Power and Lighting

NCTA will provide two 5.5kw generators at the site. Vendors must submit to NCTA additional power requirements if any.

NCTA will provide four light poles to accommodate night testing if requested by the vendor.

Fleet Vehicles

NCTA will provide a fleet of vehicles for the vendor, this fleet will be limited to mostly two axle passenger vehicles. Vendors shall provide a request for the specific number and type of vehicles required for their demonstration. NCTA does not guarantee their ability to fulfill all requests. If NCTA is unable to meet the vendors' vehicle requirements, the vendor may provide additional vehicles, or their own fleet. However, the vendor must meet the insurance requirements stated below.

No personal vehicles will be allowed for use during the demonstration.

Insurance Requirements

All vendors must submit a certificate of insurance showing liability coverage of at least \$1,000,000 with their response to this RFEIPD.

Other Interested Toll Agencies and Organizations

It is of interest to note that this RFEIPD has been discussed with other toll agencies and trade organizations who have indicated that representatives of these agencies and associations are interested in attending the demonstrations. Once demonstration schedules are complete, a list of expected attendees will be provided by NCTA to the vendors. In addition, North Carolina "Open Records" laws requires NCTA to share the results of the Product Demonstration upon request.