

PUBLIC-INTEREST FINDING FOR PROPRIETARY-MATERIAL USE

ROUTE: VAR DES NO: VAR
PROJECT NO: VAR COUNTY: VAR
PROJECT DESCRIPTION: Programmatic approval.
FHWA OVERSIGHT: YES NO
PROPRIETARY MATERIAL:
Closed Circuit TV (CCTV) system, including:

1. High Speed Analog PTZ Dome ACUIXTM model: RVSHDXGNWACW-8.
2. Field Box Camera interface model: RVSFB120IPR.
3. Composite cable model: 13/C

Manufactured by TREEHAVEN technologies, Inc..

1. Description of Need:

The ITS Technology Deployment Division of the Indiana Department of Transportation is seeking approval to create a recurring special provision and ultimately incorporate into the Standard Specifications equipment essential to the providing Traffic Management Center (TMC) with real time visualized information from the roadways.

CCTV systems are designed to provide real time video stream from location, where system had been installed. They allow local and remote control of the Pan/Tilt/Zoom functions, which, in turn, allows operator to select the best view of the road, or incident.

Required functionalities include:

- Provide unique addressing in the network using internal protocol, compatible with existing INDOT Network.
- Provide 1 mile viewing area in any direction.
- Provide interface to existing INDOT Network.
- Provide capability of local and remote programming.
- Provide local and remote maintainability.

2. Product History: Over 400 of these systems are currently being used in Indiana. They demonstrate very high reliability and maintainability. Desired product is currently listed on INDOT Approved Materials List for Traffic Signal and ITS Control Equipment under ITS Networking Equipment. Testing was conducted according the **ITM No. 951-10P and ITM No. 952-10P**

3. Product Availability: Desired products, manufactured by TREEHAVEN Technology, inc., are only products on the market, meeting all requirements and compatible with existing system. Although there are High Speed PTZ Domes and field interfaces for them, none of such products

is capable of interfacing with existing network. There were no attempts by the manufacturers to present their products to be tested to ITM No. 951-10P and ITM No. 952-10P. Google search for High Speed Analog PTZ Dome returns multiple devices, meeting some of the requirements, but not all.

4. Product Cost: There is no equipment on the market to make cost comparison.

5. Project Compatibility: Desired product is the only product on the market that is compatible with existing ITS hardware.

6. Maintenance: Desired equipment is designed such a way, that most of maintenance functions: monitoring, restoring functionality, programming/reprogramming – can be done remotely. Training is available on line in Wiki Notes, accessible for tech personnel from any location in Indiana. Low failure rate (less than 3% including “acts of God”) and short order turnaround time results in the minimal storage requirement.

7. Engineering Analysis: This application is programmatic by nature and unique not to a specific ITS project, but to the ITS architecture that is already in place. CCTV systems are essential components that allow monitoring of the live traffic. The specifications are needed for synchronization with existing system and not unique to the specific project.

8. Expanded Economic Analysis: Due to the fact, that there is no equipment on the market to do comparison life cycle analysis, it may be stated that actual yearly maintenance cost is low. The average life cycle of the desired product is evaluated as 5 years. There are units currently in service installed in 2007. Annual replacement rate, including damage done by lightning, is negligible.

9. Contractual or Performance Implications: Use of desired items does not impose any restrictions on the use of other items on the contracts.

10. Attach Supplemental Documentation: Attached are:

- a) INDOT ITS Architecture;
- b) ITM # 951-10P High Speed Camera Dome with PTZ.
- c) ITM # 952-10P Camera Interface Rack Mounted.

11. Length of Time that Approval is Effective: 02/2014 until 02/2017

Prepared By: Konstantin Veygman

Field Engineer

INDOT-ITS Technology Deployment Division

Date:

Based upon the above finding, the use of the proprietary material listed is in the public interest and is hereby approved.

APPROVED: John E. Wight Date: 12/30/13
INDOT ~~Deputy~~ Commissioner

Director of Engineering Services and Design Support

APPROVED: Karen Stippich Date: 1/15/2014
Federal Highway Administration