

ORIGINATION FORM

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(The person who receives or originates the issue and needs to forward the issue for action.)

Specification: SECTION 782

Subject: Correction to SunGuide[®] references in specifications and update to video wall manufacturer qualification requirements.

Origination date: September 24, 2009

Originator: Gene Glotzbach

Office/Phone: Traffic Engineering and Operations, ITS Section
850-410-5600

Problem statement: SunGuide[®] is now a registered trademark of the Florida Department of Transportation. The specifications still include the “SM” service mark reference that is no longer correct. This modification is being submitted to change “SM” to the “circle-R” symbol.

There have been some isolated issues with customer service and product quality for video wall equipment purchased by the Department. To improve this condition, it has been suggested that manufacturers of this equipment be evaluated and listed on the “Vendor Manufacturing Process Qualification List” to help ensure product quality and vendor accountability.

Proposed solution: This modification is being submitted to change “SM” to the “circle-R” symbol. This modification also requires video wall vendors to be approved and listed on the FDOT “Vendor Manufacturing Process Qualification List”.

Information source: Traffic Engineering and Operations Office

Recommended Usage Note: 782 Items

Estimated fiscal impact, if implemented: None

Implementation of these changes, if and when approved, will begin with the July 2010 letting.



Florida Department of Transportation

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STEPHANIE KOPELOUSOS
SECRETARY

MEMORANDUM

DATE: October 8, 2009

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: 7820102 Intelligent Transportation System – Video Equipment

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Gene Glotzbach to update the service mark symbol (SM) to a registered trademark for SunGuide[®] and to change requirements for Video wall equipment to help ensure product quality and vendor accountability.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at ST986RP or rudy.powell@dot.state.fl.us. Comments received after **November 5, 2009** may not be considered. Your input is encouraged.

RP/ft
Attachment

INTELLIGENT TRANSPORTATION SYSTEMS–VIDEO EQUIPMENT.

(REV ~~1-22-09~~~~9-29-09~~) (~~FA 2-4-09~~) (1-10)

SUBARTICLE 782-1.2.1 (of the Supplemental Specification) is deleted and the following substituted:

782-1.2.1 Camera: Furnish a CCTV camera that is compatible with the current version of the Department's SunGuideSM® Software System, and any other camera operating software indicated on the plans or in the contract documents. Ensure that the CCTV camera allows remote control of camera pan, tilt, and zoom functions via the Department's SunGuideSM® Software System user interface. Use either a dome-type or external positioner-type CCTV camera assembly. Ensure that the appropriate type is used at the location(s) shown on the plans. Use only equipment and components that meet the requirements of these minimum specifications, and are listed on the Department's Approved Product List (APL).

Ensure that the camera produces National Television System Committee (NTSC) composite video output of 1 volt peak-to-peak (Vp-p) at 75 ohms (Ω). In addition, ensure the camera provides the following features and capabilities:

1. Day (color)/night (monochrome) switchover and iris control, with user-selectable manual and automatic control capabilities.
2. Minimum resolution of 470 horizontal and 350 vertical TV lines.
3. Ability to produce clear, detailed, and usable video images of the areas, objects, and other subjects visible from a roadside CCTV field site. Ensure that video produced by the camera is true, accurate, distortion free, and free from transfer smear, oversaturation, and any other image defect that negatively impacts image quality under all lighting and weather conditions in both color and monochrome modes.
4. User-selectable automatic gain control (AGC) that is peak-average adjustable to 30 decibels (dB).
5. A minimum signal-to-noise ratio of 50 dB.
6. Automatic color balance that references the white areas of the scene through the lens.
7. An automatic electronic shutter that is user selectable from 1/60 to 1/10,000 of a second.
8. A digital signal processor that provides a minimum 10x digital zoom.
9. Programmable azimuth and compass display with ability to display pan and tilt position with a 1 degree resolution.

Furnish a CCTV camera that provides titling and masking features, including, but not limited to, programmable camera title, programmable preset titles for each preset position, and programmable privacy zones. Ensure that programmable titles are a minimum of 18 characters per line.

SUBARTICLE 782-1.2.5 (of the Supplemental Specification) is deleted and the following substituted:

782-1.2.5 Communication: Ensure that the CCTV camera supports the NTCIP 1205 v1.08 communication protocol as implemented in the SunGuide[®] software. Ensure that the camera is capable of communication with other devices using EIA-232 or EIA-422/485 at a rate of 9600 bps. Ensure that the CCTV camera supports the communication links shown in the plans.

SUBARTICLE 782-2.2.2 (of the Supplemental Specification) is deleted and the following substituted:

782-2.2.2 Video Display Control System: Provide a video display control system that enables the operator to control and manage the display of video and computer-generated graphics on the display equipment connected to the system, as well as provide selection and switching of multiple sources for display, including video streams available on the TMC Ethernet network. Ensure that the display control system allows an operator to control all displays from the same workstation that is used for the SunGuide[®] operator interface. Ensure that the video display control system is capable of decoding and displaying streaming MPEG-2 video feeds.

Use a video display control system capable of simultaneously displaying a minimum of 32 video windows, each containing streaming video at a minimum resolution of 720 x 480 pixels and frame rate of 30 frames per second (fps). Ensure that the system allows any display window to be sized from 1/32 of the total display area up to the total display area, and any size in between. Total display area is defined as the total screen size provided by a video wall display, a flat panel display, or a CRT display.

Ensure that the video display control system hardware is designed to be rack mounted and secured in an EIA 19-inch equipment rack. Ensure that any system incorporating personal computer (PC) hardware utilizes current microprocessor technology and commercial, off-the-shelf components, including random access memory (RAM), hard disk drive(s), and network interface card(s) sufficient to provide the functional requirements of the system. *Use only equipment from manufacturers listed on the FDOT Traffic Engineering Research Laboratory's Vendor Manufacturing Process Qualification List.*

SUBARTICLE 782-2.2.2.1 (of the Supplemental Specification) is deleted and the following substituted:

782-2.2.2.1 Display Control Software: Provide display control software that enables multiple operators to control all features and functions of the video display control system. These features and functions include, but are not limited to, selection of video sources for display; adjusting the size, location, and layout of video and other graphic information the system displays; and system configuration and setup. Ensure that the control software is able to

operate a video wall composed of multiple display components as though it were a single, high-resolution display.

Use display control software that is compatible with the Department's SunGuideSM® Software System and the published interface control documents (ICDs) that describe its subsystem interfaces.

Ensure that software applications use the Simple Object Access Protocol (SOAP) standards to perform specific functions and to access the features within the control system's architecture.