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|  | FDOT Traffic Engineering Research Laboratory (TERL)  CCTV Camera Compliance Matrix | By signing this form, the applicant declares that he/she has read and understands the provisions of Sections 682 and 996 of the FDOT *Standard Specifications for Road and Bridge Construction* and all implemented modifications. The requirements listed on this matrix are derived from Sections 682 and 996, and are the basis for determining a product’s compliance and its acceptability for use on Florida’s roads. |

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| Date: | Click here to enter a date. | Applicant’s  Name (print): |  |
| Manufacturer: |  |  |  |
| Item, Model No.: |  | Signature: |  |

|  |  | **\*\* Greyed out rows in table below are for TERL use only \*\*** |  |  |  |
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| **ID No** | **Section** | **Requirement** | **Item Comply? (Yes/No/NA)** | **Comments (Applicant must provide information as indicated)** | **TERL Evaluation Method** |
| The following compliance matrix criteria are for all CCTV cameras. | | | | | |
| 1 | 996-1.1 | All equipment is permanently marked with manufacturer name or trademark, part number, and date of manufacture or serial number. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| TERL Test Cases (Steps): CCTV002 (Step 1) |  |  | Init.: |
| 2 | 996-2.1 | All parts are constructed of corrosion-resistant materials, such as plastic, stainless steel, anodized aluminum, brass, or gold-plated metal. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 1) |  |  | Init.: |
| 3 |  | All fasteners exposed to the elements are Type 304 or 316 passivated stainless steel. |  | *Provide statement of conformance from hardware supplier that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 2) |  |  | Init.: |
| 4 | 996-2.2.1 | Camera is compliant with the Code of Federal  Regulations Section 200.216 Prohibition on certain telecommunications and video surveillance  services or equipment. |  | *Provide a signed letter of conformance that the camera is compliant with the National Defense Authorization Act.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 3) |  |  | Init.: |
| 5 |  | Camera is compatible with the current version of the Department’s SunGuide® software system. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV003 (Step 21), CCTV004 (Steps 1-10), CCTV005 (Steps 4 & 5), CCTV006 (Step 2) |  |  | Init.: |
| 6 |  | Camera is either dome pan-tilt-zoom (PTZ), external positioner PTZ, or fixed. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| TERL Test Cases (Steps): CCTV002 (Step 2) |  |  | Init.: |
| The following compliance matrix criteria are for analog CCTV cameras. | | | | | |
| 7 |  | Camera produces National Television System Committee (NTSC) composite video output of 1V peak to peak (Vp-p) at 75 ohms with a minimum resolution of 470 horizontal and 350 vertical TV lines. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 4) |  |  | Init.: |
| The following compliance matrix criteria are for all CCTV cameras. | | | | | |
| 8 |  | Camera provides:  1. Day (color) / night (monochrome) switchover. 2. Manual and automatic focus. 3. Automatic iris. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 9), CCTV006 (Step 7) |  |  | Init.: |
| 9 |  | Camera provides the ability to produce clear, detailed, and usable video images of the areas, objects, and other subjects visible from a roadside CCTV camera field site; video 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. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV006 (Step 8) |  |  | Init.: |
| 10 |  | User selectable automatic gain control (AGC) is peak average adjustable to 28dB. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 5) |  |  | Init.: |
| 11 |  | Minimum signal to noise ratio is 50dB. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 6) |  |  | Init.: |
| 12 |  | Automatic color balance references the white areas of the scene through the lens. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |
| TERL Test Cases (Steps): CCTV001 (Step 7) |  |  | Init.: |
| 13 |  | Automatic electronic shutter is user selectable from 1/60 to 1/10,000 of a second. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV006 (Step 9) |  |  | Init.: |
| The following compliance matrix criteria are for PTZ cameras. | | | | | |
| 14 |  | PTZ camera includes a minimum 10x digital zoom. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 8) |  |  | Init.: |
| 15 |  | PTZ camera includes programmable azimuth and compass display with the ability to display pan and tilt position with a 1-degree resolution. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV005 (Step 1) |  |  | Init.: |
| 16 |  | Camera provides tiltling and masking features, including, but not limited to, programmable camera title, programmable preset titles for each preset position, and programmable privacy zones. Programmable titles are a minimum of 18 characters per line. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV005 (Step 2) |  |  | Init.: |
| 17 | 996-2.2.2 | Standard definition PTZ Cameras include a minimum 22x motorized optical zoom lens with automatic iris. High Definition PTZ cameras include a minimum of 18x motorized optical zoom with automatic iris. Fixed cameras include a 3-9mm varifocal lens with automatic iris. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 9) |  |  | Init.: |
| 18 |  | The lens has a maximum aperture of at least f/1.6 and the depth of field provides a clear image of roadside areas under all lighting conditions. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 10), CCTV006 (Step 6) |  |  | Init.: |
| The following compliance matrix criteria are for Dome-Type CCTV cameras. | | | | | |
| 19 | 996-2.2.3 | Camera includes an integrated pan/tilt mechanism capable of providing 360 degree continuous pan with a minimum 90 degree tilt range (i.e., 0 to -90 degrees). |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV005 (Step 3) |  |  | Init.: |
| 20 |  | Camera provides variable speed control for the pan/tilt function. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV005 (Step 4) |  |  | Init.: |
| 21 |  | Preset position return accuracy is ±0.36 degree, or less than 0.10 percent or better. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 11), CCTV005 (Step 5) |  |  | Init.: |
| 22 |  | Camera supports a minimum of 64 presets, a minimum of one tour with a minimum of 32 presets, and a minimum of eight programmable blackout zones. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 12), CCTV005 (Step 6) |  |  | Init.: |
| 23 |  | Positioner inside the camera has a minimum automatic pan speed of 240 degrees per second to a preset camera position. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 13) |  |  | Init.: |
| 24 |  | Positioner inside the camera has a maximum manual pan and tilt speeds are programmable. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV005 (Step 7) |  |  | Init.: |
| 25 |  | Positioner inside the camera has a maximum manual pan speed of 80 degrees per second minimum. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 14) |  |  | Init.: |
| 26 |  | Positioner inside the camera has a maximum manual tilt speed of 40 degrees per second minimum. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 15) |  |  | Init.: |
| The following compliance matrix criteria are for External Positioner-Type CCTV cameras. | | | | | |
| 27 | 996-2.2.4 | Camera includes a pan/tilt mechanism capable of providing 360-degree continuous pan with a minimum 115-degree tilt range (i.e., -90 to +25 degrees). |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV005 (Step 8) |  |  | Init.: |
| 28 |  | Camera provides variable speed control for the pan/tilt function. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV005 (Step 4) |  |  | Init.: |
| 29 |  | Preset position return accuracy is ±0.36 degree, or less than 0.10 percent or better. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 16), CCTV005 (Step 5) |  |  | Init.: |
| 30 |  | Camera supports a minimum of 32 presets. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 17), CCTV005 (Step 9) |  |  | Init.: |
| The following compliance matrix criteria are for Analog CCTV cameras. | | | | | |
| 31 | 996-2.2.5 | Camera supports the NTCIP-1205 v1.08 communication protocol and is capable of communication with other devices using TIA/EIA-232 or TIA-422 at a rate of 9600 bps, TCP/IP, or UDP/IP.  The camera must implement all NTCIP objects, operations, and commands required by SR-996-2.2-01, Supplemental CCTV Camera NTCIP and ONVIF requirements, as published on the Department’s State Traffic Engineering and Operations Office website at the following URL: <http://www.fdot.gov/traffic/Traf_Sys/Product-Specifications.shtm> |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV006 (Step 2) |  |  | Init.: |
| 32 |  | Camera is capable of remote firmware upgrades via the communication interface. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV006 (Step 11) |  |  | Init.: |
| The following compliance matrix criteria is for IP CCTV cameras. | | | | | |
| 33 |  | Camera supports either NTCIP-1205v01.08 or the Open Network Video Interface Forum (ONVIF) Core, Streaming, and Media Service specifications.  The camera can implement all NTCIP or ONVIF objects, operations, and commands required by SR-996-2.2-01, Supplemental CCTV Camera NTCIP and ONVIF requirements, as published on the Department’s State Traffic Engineering and Operations Office website at the following URL: <http://www.fdot.gov/traffic/Traf_Sys/Product-Specifications.shtm> |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review, Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 25), CCTV004 (Step 11), CCTV006 (Step 2)  NOTE: Either CCTV004 (Step 11) or CCTV006 (Step 2) must be a “Yes”. |  |  | Init.: |
| The following compliance matrix criteria is for all CCTV cameras. | | | | | |
| 34 | 996-2.2.6 | Camera system operates at the cabinet using a nominal input voltage of 120 VAC. If required, an appropriate voltage converter is furnished with the device. |  | *Environmental test reports must demonstrate that voltage converters required for 120V*AC *operation were subjected to NEMA TS2 environmental testing as part of the functional system.* | Document Review, Physical Inspection and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 18), CCTV002 (Step 3), CCTV006 (Step 1) |  |  | Init.: |
| 35 | 996-2.2.7 | Camera housing has a sunshield. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| TERL Test Cases (Steps): CCTV002 (Step 4 |  |  | Init.: |
| The following compliance matrix criteria are for Dome-Type CCTV cameras. | | | | | |
| 36 |  | Total weight of camera (including the housing, sunshield, and all internal components) is less than 17.0 pounds. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 19) |  |  | Init.: |
| 37 |  | Lower dome of the camera housing is distortion free clear plastic. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| TERL Test Cases (Steps): CCTV002 (Step 5) |  |  | Init.: |
| 38 |  | Pressurized dome-type housing is capable of pressurization at 5 psi using dry nitrogen, has a low-pressure alarm feature, and a NEMA 4X/IP-67 rating. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 20) |  |  | Init.: |
| 39 |  | If non-pressurized dome-type housing enclosure is used, the unit is vented with a thermostat-controlled heater and blower and has a NEMA 4/IP-66 rating. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 21) |  |  | Init.: |
| The following compliance matrix criteria are for External Positioner-Type CCTV cameras. | | | | | |
| 40 |  | Total weight of camera (including housing, sunshield, all internal components, and external pan and tilt mechanism) is less than 35 pounds. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 22) |  |  | Init.: |
| The following compliance matrix criteria are for all CCTV cameras. | | | | | |
| 41 | 996-2.2.8 | Camera operates properly during and after being subjected to the environmental testing procedures described in NEMA TS2 Sections 2.2.7, 2.2.8, and 2.2.9 |  | *Provide a first or third party test report that demonstrates compliance with this requirement.* *If a voltage converter is required for the device to operate with a 120VAC input voltage, then the voltage converter must be tested with the device, i.e. in the temperature chamber. The test report must be less than 5 years old, and meet the requirements of FDOT Product Certification Handbook (PCH), section 7.2.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 23) |  |  | Init.: |
| 42 |  | Camera, mounting hardware, and any other camera-related material exposed to the environment is designed for 150 mph wind speeds and meet the requirements of the FDOT Structures Manual. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |
| TERL Test Cases (Steps): CCTV001 (Step 24) |  |  | Init.: |
| The following compliance matrix criteria are for Internet Protocol (IP) cameras. | | | | | |
| 43 | 996-2.2.9.1 | Camera utilizes the Moving Picture Experts Group’s MPEG4 part 10 (H.264) video compression technology in accordance with the International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) requirements detailed in the ISO/IEC 14496-10:2009 standard. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 26), CCTV004 (Step 12) |  |  | Init.: |
| 44 |  | Camera establishes unicast and multicast sessions using the Real Time Stream Protocol (RTSP). |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV001 (Step 30) CCTV003 (Steps 19-20) |  |  | Init.: |
| 45 |  | Encoded video can be transmitted utilizing programmable bit rates. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV006 (Step 3) |  |  | Init.: |
| 46 |  | The camera supports, at a minimum, a fixed bit rate mode. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 27), CCTV006 (Step 4) |  |  | Init.: |
| 47 | 996-2.2.9.2 | Camera provides H.264 format video streams and supports resolutions that include minimum vertical resolutions of 240 and 480 lines. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV006 (Step 5) |  |  | Init.: |
| 48 |  | Camera is capable of delivering color and monochrome video at 30 fps regardless of resolution. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV006 (Step 12) |  |  | Init.: |
| 49 | 996-2.2.9.3 | Camera’s local area network (LAN) connection supports the requirements detailed in the IEEE 802.3 standard for 10/100 Ethernet connections. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV003 (Steps 3, 6-12) |  |  | Init.: |
| 50 |  | Camera has a minimum of one 10/100 Base-TX connection Ethernet port. |  | *Applicant may provide comments in this field.* | Physical and Functional Inspection |
| TERL Test Cases (Steps): CCTV001 (Step 28), CCTV002 (Step 6) |  |  | Init.: |
| 51 |  | Unshielded twisted pair/shielded twisted pair network cables shall be compliant with the EIA/TIA-568-B. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 29) |  |  | Init.: |
| 52 |  | At a minimum, network communication conforms to TCP, UDP, Version 4 of the IP, RTSP, and Version 2 of the Internet Group Multicast Protocol (IGMP). |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 30), CCTV003 (Step 20) |  |  | Init.: |
| 53 |  | If camera supports NTCIP, the camera can be controlled using either TCP/IP or UDP/IP. |  | *Currently SunGuide only supports TCP/IP.* | Functional Inspection |
| *Applicant may provide comments in this field.* |
| TERL Test Cases (Steps): CCTV003 (Step 21) |  |  | Init.: |
| 54 | 996-2.2.9.4 | Camera supports local and remote configuration and management via serial login, telnet login, or a web-based interface. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV003 (Steps 22-23) |  |  | Init.: |
| 55 |  | Configuration and management functions includes access to all user-programmable features, including but not limited to network configuration, video settings, device monitoring, and security functions. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| TERL Test Cases (Steps): CCTV003 (Steps 3-6,15,22-23) |  |  | Init.: |
| The following compliance matrix criteria are for all CCTV cameras. | | | | | |
| 56 | 682-1.3 | Camera can be installed in accordance with Standard Plans, Index No.659-020. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement. Index No. 659-020, sheet 1, calls for the camera to include a mount that can be threaded and secured onto a 1.5” NPT for connection to a lowering device. Index No 659-020, sheet 2, calls for the camera to include a mount that can be connected to a vertical pole (30” max diameter) using stainless steel bands.* | Document Review and Physical Inspection |
| *Indicate location of requested information in submittal.* |
| TERL Test Cases (Steps): CCTV001 (Step 31), CCTV002 (Step 8) |  |  | Init.: |
| 57 | 682-3 | CCTV camera has a manufacturer’s warranty covering defects for a minimum of one year from the date of final acceptance. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |
| TERL Test Cases (Steps): CCTV001 (Step 32) |  |  | Init.: |
| 58 |  | CCTV camera manufacturer will furnish replacements for any part or equipment found to be defective during the warranty period at no cost to the Department or the maintaining agency within 10 calendar days of notification. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |
| TERL Test Cases (Steps): CCTV001 (Step 33) |  |  | Init.: |

**Document History for:**

**CCTV Camera Compliance Matrix**

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| --- | --- | --- | --- | --- | --- | --- |
| Rev | Description | Authored and Checked | Reviewed | Approved | Approval Date | Rev More Stringent? |
| 1.0 | Conversion of CM to Word | D. Vollmer  K. Hinson | J. Morgan | J. Morgan | 10/22/2012 | No |
| 2.0 | Changed document control panel to include column for “Rev more stringent?” and added Rev # to header of matrix corresponding to latest approved document. Modified disclaimer to indicate compliance matrix is governing document and referencing PCH section 7.2 in place of A601-3. Changed to match latest specification (FA 2-15-13). | R. Meyer  A. Burleson | J. Morgan | J. Morgan | 02/28/2013 | No |
| 3.0 | Minor edits based on FA 2-15-13 changes which did not get included in Rev 2.0. | D. Vollmer | J. Morgan | J. Morgan | 06/03/2013 | No |
| 4.0 | Minor edits based on FA 2-15-13 changes which did not get included in Rev 2.0 | D. Vollmer | R. Meyer | J. Morgan | 08/13/2013 | No |
| 5.0 | Replaced FDOT logo with latest approved one and added CM ID # to header. | D. Bremer | J. Morgan | J. Morgan | 03/13/2014 | No |
| 6.0 | Updated to reflect changes for FA 7-10-2018 update. | R. Brooks | M. Tomatani | J. Morgan | 12/12/2018 | No |
| 7.0 | Update ID# 41 adding RTSP using multicast. Update ID# 39 NEMA TS-2 to NEMA TS-2 2016. | W. Geitz | M. DeWitt  C. Raimer | D. Vollmer | 6/25/2021 | No |
| 8.0 | Updated Design Standards index no. 18110 to Standard Plans index no. 659-020. Updated section 682 to 996 to reflect FDOT Standard Specs July 2020. Update to conform to John S. McCain National Defense Authorization Act. | W. Geitz | M. DeWitt  C. Raimer | D. Vollmer | 12/9/2021 | Yes |
| 9.0 | Added test cases and steps. Added warranty. Updated NDAA language and Iris requirements based on FA date of 10-24-22 for 996. | D. Bremer  V. Johnson | R. Meyer | D. Vollmer | 02/01/2023 | No |
| 10.0 | Updated to latest FA dates of 9-13-23 and 12-1-23 for specs 682 and 996, respectively. | W. Geitz | V. Johnson | D. Vollmer | 01/19/2024 | No |